# Morehead State University

## Undergraduate Catalog
## 2006-2007

**Volume 64** **August 2006**

This catalog is the official source of information about Morehead State University's academic programs. Its purpose is to guide you in planning a course of study to meet program, department, and University requirements. See the index for an outline of the information provided.

The information in this catalog is current at the time of publication. If you are pursuing a degree and remain continuously enrolled in the University (excluding summers), you may complete a program according to the catalog requirements in effect at the time of your original enrollment.

If you are not continuously enrolled in the University and do not complete a bachelor's degree within five years (three years for an associate degree), you may be required to meet the program requirements stipulated in a current catalog.

If you are a transfer student pursuing a bachelor's degree, the time allotted for degree completion under the catalog in effect at the time of your enrollment is based upon your classification at the time of transfer. For example, a sophomore transfer would have four years, a junior three years, and a senior two years. If you transfer above the freshman level and you are pursuing an associate degree, you have two years to complete the program under the catalog in effect at the time of your enrollment. The above limitations are based upon continuous enrollment.

Advisors, departments, and school offices make every effort to provide current information to students, but it is your responsibility to know the policies, regulations, and degree requirements that affect you.

For more information, contact the Office of the Provost, MSU, 205 Howell-McDowell Administration Building, Morehead, KY 40351-1689; Phone: (606) 783-2002.

### Changes

Morehead State University reserves the right to change its academic regulations, policies, fees, and curricula without notice by action of the Kentucky Council on Postsecondary Education and/or the Morehead State University Board of Regents. Material included in this catalog is based on information available at the time of publication. The provisions of this listing do not constitute an expressed or implied contract between Morehead State University and any member of the student body, faculty, or general public. The provisions of this catalog are not to be regarded as an irrevocable contract between the student and the University. The University reserves the right to make and designate the effective date of changes in University policies and other regulations at any time such changes are considered to be desirable or necessary.

### Equal Opportunity

Morehead State University is committed to providing equal educational opportunities to all persons regardless of race, color, national origin, age, religion, sex, or disability in its educational programs, services, activities, employment policies, and admission of students to any program of study. In this regard the University conforms to all the laws, statutes, and regulations concerning equal employment opportunities and affirmative action. This includes: Title VI and Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Executive Orders 11246 and 11375, Equal Pay Act of 1963, Vietnam Era Veterans Readjustment Assistance Act of 1974, Age Discrimination in Employment Act of 1967, Sections 503 and 504 of the Rehabilitation Act of 1973, Americans with Disabilities Act of 1990, and Kentucky Revised Statutes 207.130 to 207.240. Vocational educational programs at Morehead State University supported by federal funds include industrial education, vocational agriculture, business education, home economics education and the associate degree program in nursing. Any inquiries should be addressed to Francene Botts-Butler, Affirmative Action Officer/ADA Coordinator, Morehead State University, 314 Allie Young Hall, Morehead, KY 40351; telephone (606) 783-2085, e-mail: f.botts@moreheadstate.edu.

### Printing

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# Morehead State University

is accredited by
Commission on Colleges of the Southern Association of Colleges and Schools (SACS)
to award Associate, Baccalaureate, Master's, and Specialist degrees
SACS
1866 Southern Lane
Decatur, GA 30033-4097
404-679-4501

Accreditation

AACSB International - The Association to Advance Collegiate Schools of Business
American Bar Association approval of Paralegal Studies
American Veterinary Medical Association
Association to Advance Collegiate Schools of Business
Commission on Collegiate Nursing
Council on Social Work Education - Baccalaureate Level
Joint Review Committee on Education in Radiologic Technology
National Association of Industrial Technology
National Association of Schools of Music
National Association of Schools of Theatre
National Council for the Accreditation of Teacher Education
National League for Nursing Accrediting Commission

Membership

American Association of Colleges for Teacher Education
American Association of Colleges of Nursing
American Association of State Colleges and Universities
American Council on Education
American Registry of Radiologic Technologists
American Technical Education Association
Commission on Collegiate Nursing
Conference of Southern Graduate Schools
Council for the Advancement and Support of Education
Council for Opportunity in Education
Council on Collegiate Education for Nursing - Southern Regional Education Board
Gulf Coast Research Laboratory
International Technology Education Association
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Kentucky Allied Health Consortium
Kentucky Association of Baccalaureate and Higher Degree Nursing Programs
Kentucky Association of College of Music Departments
Kentucky Council of Associate Degree Nursing
National Association of Industrial Technology
National Commission on Accreditation
National League for Nursing
Ohio River Basin Consortium
Southern Regional Education Board
The Council of Graduate Schools in the United States

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## Campus Building Abbreviations

AAC – Academic-Athletic Center
AC – Alumni Center
ADUC – Adron Doran University Center
APP – Admissions Center
AT – Alumni Tower
AY – Allie Young Hall
BA – Button Auditorium
BM – Baird Music Building
BR – Breckinridge Hall
CB – Combs Building
CCL – Camden-Carroll Library
CH – Cartmell Hall
CHC – Caudill Health Clinic
CY – Claypool-Young Art Building
DAC – Derrickson Agricultural Complex
FH – Fields Hall
GH – Ginger Hall
HM – Howell-McDowell Administration Building
JS – Jayne Stadium
LA – Lappin Hall
LB – Laughlin Health Building
LC – Lloyd Cassity
MA – Mays Hall
ME – Mignon Hall, East
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MT – Mignon Tower
MW – Mignon Hall, West
NH – Nunn Hall
RA – Rader Hall
RH – Reed Hall
TH – Thompson Hall
WH – Waterfield Hall

## About the University

With a co-educational enrollment of over 9,000 and a full-time teaching faculty of 341, Morehead State University offers 78 undergraduate degree programs and 12 preprofessional programs of study. It draws students from throughout the United States and several foreign countries to participate in its diverse academic and extracurricular life.

## Strategic Plan

(Adopted by the Morehead State University Board of Regents, June 2006)

## Vision Statement

We aspire to be the best public regional university in the South.

## Core Values

The University strives to exemplify these core values:

- PEOPLE come first and are encouraged to achieve their full potential;
- Commitment to SCHOLARSHIP, LEARNING and SERVICE is embraced;
- EXCELLENCE is achieved through TEAMWORK, LEADERSHIP, INNOVATION and ACCOUNTABILITY;
- DIVERSITY of people and thought is respected;
- PARTNERSHIPS are built on honesty, integrity and trust

## Mission Statement

We are a diverse community of learners committed to student success. MSU is accredited as a comprehensive University offering quality higher education opportunities in a collegial and open environment. MSU pursues academic excellence, research, community engagement and life-long learning. MSU is dedicated to improving the quality of life while preserving and promoting the unique cultural heritage of East Kentucky.

## Strategic Goals

- **Academic Excellence**
  How will MSU develop, deliver, and maintain superior academic programs?
- **Student Success**
  How will support services fulfill student academic and co-curricular needs?
- **Productive Partnerships**
  How will we utilize partnerships to benefit the people, communities and economy within the MSU service region?
- **Improved Infrastructure**
  How will we effectively manage human, capital and fiscal resources?
- **Resource Enhancement**
  How will we maximize public and private revenue opportunities?
- **Enrollment and Retention**
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# Programs of Study

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# Admission, Fees, Financial Aid and Housing

## Admissions

The admission of all undergraduate students into Morehead State University is administered by the authority of the Office of Admissions, which reflects and works within the context of the mission statement of the University and within appropriate state and federal guidelines and policies.

All applicants for admission are required to submit evidence of their prior educational experience and other supporting data for evaluation by Admissions in Enrollment Services. This office may request clarification of submitted documents and retains all documents as part of the student's permanent record. The University reserves the right to deny admission (or to admit with certain restrictions) based on an evaluation of the student's supporting data and a determination of immoral character or propensity for violent or other conduct similarly unacceptable for the unrestricted admittance into the University community. The Undergraduate Admission and Scholarship Application requires applicants to report all criminal convictions, other than minor traffic violations and juvenile offenses. In order to assess the suitability of such applicants to the University community and identify any special conditions for enrollment, the University has established a review process. Copies of the Review Process for Undergraduate Admission Applicants with Reported Criminal Convictions are available upon request in the Office of Admissions. Preliminary admission decisions made by the office prior to receipt of all official and final documentation are temporary and are subject to change.

Students who do not meet the requirements for admission to either four-year or two-year degree programs may appeal for special consideration when past academic performance may not be indicative of ability to do college-level work or when there may be errors in supporting documentation. Guidelines for the appeals procedure are available in Admissions.

Requests for applications or questions concerning admissions should be directed to Admissions, Enrollment Services, Morehead State University, Morehead, KY 40351-1689, telephone (606) 783-2000, toll free 1-800-585-6781, or fax (606) 783-5038. Visit online at www.moreheadstate.edu. You are encouraged to visit the campus to discuss your intended program of study. Visits may be scheduled weekdays between 8 a.m. and 4:30 p.m. and at other times by appointment.

Completion of admission requirements generally allows you to enroll in any program at Morehead State University. However programs such as nursing, radiologic science, veterinary technology, and teacher education require additional procedures. Students wishing to pursue studies in these programs must submit appropriate application materials to each program, separate from those required by Admissions. For additional information for entering these programs contact Admissions in Enrollment Services.

Requirements for admission for high school graduates, GED recipients, transfer students, returning students, international students, home-schooled students, special students, and students auditing courses are explained as follows:

## Unconditional & Conditional Admission

**Unconditional Admission:** If a student provides all required documentation and test scores with the application, has a 400 admissions index or higher, and meets all admission requirements, he or she will be admitted "unconditionally."

**Conditional Admission:** Students who apply for admission but do not meet the minimum admissions standards or cannot provide necessary paper work or test scores, may be admitted under certain conditions. If a student chooses, he or she can be admitted as a "Special" student. Students applying under this category only need to submit an application (see Admission as a Special Student). Students who fall short of the required 400 admission index but have at least 350, can be admitted as "Provisional" students (refer to Provisional Studies Program). Students who do not meet the Pre-College Curriculum (PCC) requirements may be admitted with the condition that they satisfy their PCC requirements within 24 semester hours. Students who do not meet admission requirements may be admitted on "Probation," in certain circumstances. Students on probation must have at least a 2.0 grade-point average (GPA) on their subsequent semester courses, and otherwise meet University requirements for satisfactory academic progress.

Students who are rejected for admission to Morehead State University may appeal the decision. They may schedule an interview with the Admissions Appeal Committee.

The Director of Admissions may admit students who were rejected when special circumstances exist and where students can demonstrate their ability to matriculate at MSU.

## Admission as a Freshman

**High School Graduates.** If you are a graduate of an accredited high school, you will be unconditionally admitted if you meet the PCC requirements established by the Kentucky Council on Postsecondary Education (for Kentucky residents), have a minimum admission index of 400, and a minimum ACT composite of 14 (or SAT equivalent). The admission index is a numerical score determined by computing the cumulative GPA (on a 4.0 scale) times 100, and the American College Test (ACT) Composite (or converted SAT) times 10. Those submitting SAT scores may be asked to provide ACT scores after enrollment.

In order to apply for admission you should submit to the Office of Admissions: (1) a completed Undergraduate Admission and Scholarship Application; (2) official ACT or SAT results; and (3) a high school transcript (and a final transcript after high school graduation). All applicants for four-year degree programs must meet the PCC requirements for unconditional admission to the University (unless exempted). Applicants who do not meet the PCC requirements are eligible to be admitted "conditionally." Students who are admitted conditionally must take specified courses to satisfy PCC requirements. Removal of PCC deficiencies will be monitored by the Academic Advising and Career Services. Associate degree applicants do not need to meet PCC requirements for admission. Nevertheless, their PCC requirements will be assessed and removed.

Students who do not meet the minimum admissions index but who have an index of at least 350 and an ACT Composite Score of at least 14 may be admitted "provisionally." The competency-based Provisional Studies Program administered by the Office of Academic Advising and Career Services, under the oversight of the Associate Vice President for Academic Outreach and Support, provides academic instruction and support services designed to assist students in meeting entry level requirements for admission to two-year or four-year degree programs.

Enrollment as a Provisional Studies student does not guarantee admission to degree programs at the University. For continued matriculation at the University, standards must be met within a period of time as specified by the Office of Academic Advising and Career Services. (See Provisional Studies Program).

**GED Recipients.** If you are a General Education Development (GED) recipient, you will be considered for admission on the same basis as a high school graduate.

In order to apply for admission you should submit to the Office of Admissions: (1) a completed Undergraduate Admission and Scholarship Application; (2) the GED scores; (3) the High School Equivalency Certificate; and (4) official ACT or SAT results.

## Admission as a Transfer Student

Morehead State University welcomes transfer students and offers services to help facilitate the transfer to MSU.

You are eligible for unconditional admission as a transfer student if your GPA is 2.0 or better on a 4.0 scale on at least 24 semester hours of college work, and you are in good standing at all previously attended institutions.

Applicants for transfer admission to four-year degree programs who did not complete the Kentucky Pre-College Curriculum (PCC) and who have completed fewer than 24 semester hours are eligible for "conditional" admission. Students admitted conditionally must take specified courses to remove PCC deficiencies. Removal of PCC deficiencies will be monitored by the Office of Academic Advising and Career Services. Students who have earned fewer than 24 semester hours credit must submit ACT or SAT and high school and college transcripts to facilitate appropriate advising and placement.

If your GPA is less than a 2.0 on a 4.0 scale, you may be considered for admission on "probation" status. Transfer students who are admitted on probation will be monitored and will be expected to earn a 2.0 GPA at MSU during the first semester of attendance. Students who do not earn the 2.0 GPA will be subject to academic dismissal. Students academically dismissed will be given the opportunity to appeal.

Transfer students who apply for admission with fewer than 24 semester hours of transfer credit will be admitted, subject to the same admission criteria as that of an entering freshman.

To be admitted to the University as a transfer student from other colleges and universities, you should submit to the Office of Admissions: (1) a completed Undergraduate Admission and Scholarship Application; (2) transcript(s) from school(s) previously attended, and (3) the Transfer Recommendation Form (available from the Office of Admissions, MSU) from all institutions previously attended.

## Baccalaureate Program Transfer Frameworks

Morehead State University fully supports the Block Transfer of Academic Credit Policies as defined by the Kentucky Council on Postsecondary Education. Transfer students bringing Block course certification to the University from other Kentucky public institutions can be assured that these certifications will be honored. Questions pertaining to the Block Transfer of Academic Credit Policies should be directed to the Office of the Registrar, Morehead State University, 201 Ginger Hall, Morehead, KY 40351-1689, telephone (606) 783-2008.

### Admission Index

The Admission Index is calculated as follows:

1. Multiply your high school GPA (on a 4.0 scale) by 100;
2. Multiply your ACT Composite score by 10 (SAT scores will be converted);
3. Add your total GPA score and total ACT score. The results will be your Admission Index score.

### Transfer Index

The Transfer Index is calculated as follows:

1. Multiply your Transfer GPA by 100;
2. Multiply your ACT Composite score by 10 (SAT scores will be converted);
3. Add your total GPA score and the total ACT score. The result is your Transfer Index score.

## Transfer of credits from Regionally Accredited Colleges

Credits you have earned from regionally accredited colleges or universities will be accepted for transfer.

Courses in which you have a grade lower than "C" may not be transferred for credit in certain majors or areas of concentration. Consult your academic advisor. Transfer credit does not compute in your MSU GPA.

Kentucky's Course Applicability System (CAS) is a Web based multi-state decentralized advising system that makes transfer seamless from college to college in Kentucky. Using CAS, transfer students can view degree programs at participating colleges and universities, view course equivalencies and develop an academic checksheet that determines how courses fulfill requirements at MSU. Access CAS online at www.kytransfer.org or direct questions to transfer@moreheadstate.edu, telephone (606) 783-2008.

## Transfer of credits from Non-Regionally Accredited Colleges

All transfer credit from non-regionally accredited institutions will be individually evaluated by the dean of the college in which the student is seeking a degree. Transfer credit will be granted only when:

1. The student has completed a minimum of 12 semester hours at Morehead State University and achieved a minimum GPA of 2.0.
2. The course being transferred corresponds to one offered in the *Morehead State University Undergratuate Catalog* in effect at the time the transfer is sought.
3. The student has earned a grade of "C" or better in the course for which transfer credit is being sought.
4. The course was taught by an instructor whose academic credentials meet the Commission on Colleges (SACS) requirements (e.g., generally, at least the master's degree in the teaching field with 18 graduate hours in the teaching field). Credit for transfer which was earned more than 10 years before transfer is sought may not be applicable to current degree or licensure requirements. For a review see the dean of the college in which the transfer is sought.

## Admission as a Returning Student

If you discontinue your enrollment at MSU for one semester (excluding summer terms), you must submit a completed Undergraduate Admission and Scholarship Application to be readmitted to the University.

If you have attended another institution since you last attended MSU, you must submit: (1) a completed Undergraduate Admission and Scholarship Application, (2) an official transcript from any institution attended, and (3) the MSU Transfer Recommendation Form from the institution from which you are transferring.

Consideration for admission will also include the applicant's prior academic work and behavior at MSU, as well as the academic records and documented behavior/suspension from any other college/university attended.

## Admission as an International Student

To be admitted as an international student, you must submit to the Office of International Education: (1) the International Student Undergraduate Admission Application; (2) official records of previous educational experiences; (3) evidence of proficiency in the English language, official scores on the Test of English as a Foreign Language (TOEFL), the Michigan Examination, or other approved test of English proficiency (a minimum score of 500 is required on the TOEFL, 5.0 on the IELTS, and a minimum score of 82 is required on the Michigan Examination); (4) official verification of financial resources; and (5) a $55 application fee. You should apply at least four months before the semester or term in which you plan to enroll. To assist in the proper placement of students in the areas of English, mathematics, science and social studies, all entering freshmen must take the ACT exam upon arrival unless valid ACT or SAT scores are on file. Entering transfer students with fewer that 24 semester hours of credit completed may be asked to take the ACT exam for the same reasons. Students with an ACT composite score of 19 or higher will be considered proficient in all areas. Students who do not have a 19 composite ACT will be placed in the appropriate level course according to the subject areas subscores.

If you are transferring to the University from an accredited institution of higher education in the United States, you must submit: (1) the International Student Undergraduate Admission Application; (2) an official transcript from the institution from which you are transferring; (3) the Transfer Recommendation Form from the institution from which you are transferring; (4) official verification of financial resources; and (5) a $55 application fee.

**Transfer of Credits.** Credits earned from international institutions will be considered only after they have been evaluated by the World Education Services, Inc., P.O. Box 11623, Chicago, IL 60611-0623, e-mail: midwest@wes.org. It is the student's responsibility to contact the agency and pay all service fees.

Students who have earned fewer than 24 semester hours must submit ACT or SAT scores and high school and college transcripts to facilitate appropriate advising and placement.

## Pre-College Curriculum Requirements

**English/Language Arts – four credits required:** English I, English II, English III, English IV (or AP English).

**Mathematics – three credits required:** Algebra I, Algebra II, Geometry.*

**Science – three credits required:** Credits to include life science, physical science, and earth/space science (with at least one lab course).

**Social Studies – three credits required:** From U.S. History, Economics, Government, World Geography and World Civilization.

**Health – 1/2 credit required.**

**Physical Education – 1/2 credit required.**

**History and Appreciation of Visual, Performing Arts – one credit required:** History and appreciation of visual and performing arts or another arts course that incorporates such content.

**Foreign Language – two credits required in same language or demonstrated competency.**

**Electives – seven credits required – (**five rigorous).** Recommended strongly: One or more courses that develop computer literacy.

**Total Credits:** 22 (17 required credits; five elective credits)

*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.

**Rigorous electives should have academic content at least as challenging as that in courses required in the minimum high school graduation requirements. These electives also should be in social studies, science, math, English and language arts, arts and humanities, foreign language and, above the introductory level, in agriculture, industrial technology, business, marketing, family and consumer sciences, health sciences, and technology education and career pathways. Electives in physical education and health are limited to one-half unit each.

## Exceptions to the Pre-College Curriculum

The following shall be exempted from the requirements of the Kentucky Pre-College Curriculum:

1. Students who are 21 years of age or older;
2. Students entering baccalaureate-degree status with 24 or more semester credit hours applicable to a baccalaureate degree with a GPA of at least 2.0 on a 4.0 scale;
3. Active duty military personnel, their spouses, and their dependents;
4. A student enrolled in an associate degree program.
5. Out-of-state students; or
6. International students.

The above is subject to approval by the Kentucky Council on Postsecondary Education.

## Developmental Education Requirements

The developmental studies program helps many MSU freshmen succeed by providing preparatory classes in writing, mathematics, and reading. If you have an ACT subscore below 18 in English, mathematics, or reading, you must take one or more of these preparatory classes.

If you are required to enroll in developmental classes, you must:

1. Earn a grade of "C" or better in required developmental courses.
2. Complete developmental requirements by the end of your first 45 credit hours. If you do not complete all developmental requirements within your first 45 credit hours, you must complete the required course(s) before enrolling in any other classes or obtain a letter of exception from the Office of Academic Advising and Career Services.

Developmental courses are numbered below 100 and will not count toward the total hours needed for your degree. However, the credit hours count toward full-time status each semester, and the grades are included in your GPA.

## Admission as a Special Student

If you wish to register for a particular course for credit but you are not interested in working toward a degree, you may enter the University as a special student. You should submit to Admissions a completed Undergraduate Admission and Scholarship Application. Special students are not eligible for financial assistance.

If you enroll as a special student and later wish to pursue a degree, you may do so by completing the appropriate admission procedure. No more than 24 hours of course work completed as a special student may be used to fulfill degree requirements.

## Admission as an Auditor

If you wish to audit a class, you need only submit to Admissions a completed Undergraduate Admission and Scholarship Application. Although credit cannot be given for courses audited, such courses are recorded on your transcript. Tuition and fees are the same for auditing a course as they are for taking a course for credit.

## Admission as a Visiting Student

If you are currently attending another institution of higher education but wish to take course work at MSU to complete degree requirements, you may be eligible for admission as a visiting student. You should submit to Admissions: (1) the completed Undergraduate Admission and Scholarship Application; and (2) the Visiting Student Recommendation Form (completed by student's primary institution).

## Admission as a High School Student

Students currently enrolled in high school as a junior or senior may be eligible for admission to the high school student program. A student must submit to Admissions a completed Undergraduate Admission and Scholarship Application.

The application must include the student's high school GPA and ACT scores. The high school counselor should also indicate whether or not the student is expected to meet the Kentucky Pre-College Curriculum and any expected deficiencies shall be noted. Students must have a minimum ACT Composite score of 18 to be admitted to the high school student program. Area subscores from the ACT exam will be utilized for academic advising and appropriate placement in course work.

Students who have not taken the ACT exam must have a minimum 3.0 GPA and are not permitted to enroll for course work in the areas of English and mathematics until the ACT scores are on file in the Office of Admissions.

Students who are not expected to meet the Kentucky Pre-College Curriculum may not enroll for course work in the area of the anticipated deficiency or deficiencies.

Any exception to the above requirements must have the approval of the Director of Admissions and the Associate Provost for Graduate and Undergraduate Programs.

Federal regulations state that if you are a first time, first year borrower of a Federal Direct Loan, your Direct Loan funds cannot be disbursed until 30 days from the first day of classes. If you are counting on this money to help pay your tuition and fees, be sure you make deferment arrangements either by completing online deferment, deferring at any Regional campus center or at the Office of Accounting and Budgetary Control. Deferments can not be done by phone. There is no additional fee for this type of deferower of a Federal Direct Loan, your Direct Loan funds cannot be disbursed until 30 days from the first day of classes. If you are counting on this money to help pay your tuition and fees, be sure you make deferment arrangements either by completing online.

## Graduates of Non-Certified, Non-Public Schools

(Including Home Schools)

Students who are graduates of non-certified, non-public schools, including home-schooled students, must submit MSU's Undergraduate Admission and Scholarship Application, an official transcript, and provide ACT/SAT scores. In some cases, a review of the student's courses may be required.

Admission will be considered according to the same procedures as applicants from accredited high schools.

### Dual Admissions

Students at participating Kentucky community colleges can be admitted to Morehead State University while attending the community college. Students need to only apply for admission once. Interested students may contact the admissions office at the community college and request that their admissions information be forwarded to Admissions in Enrollment Services at Morehead State University. Participating students are assigned an academic advisor at the University. Students will be locked into a catalog year for an academic program, subject to changes in program requirements. Morehead State University cannot be responsible for guaranteed transferability when curricular changes are made by agencies outside of the University. Students must have a minimum 2.0 GPA and at least 24 semester hours of transferable credit or they may be subject to the Kentucky Pre-College Curriculum. Students who do not meet the above criteria will be considered on an individual basis. Also, students may need to take the ACT for admission to certain programs at the University. Participating community colleges are Ashland Community and Technical College, Big Sandy Community and Technical College, Hazard Community and Technical College, Maysville Community College, and Southeast Community and Technical College. For more information, contact Admissions (606) 783-2000 at Morehead State University or the admissions offices at the community and technical colleges.

### Service Members Opportunity College

Morehead State University has been designated a service members opportunity college and awards military credits in accordance with SOC and American Council on Education (ACE) guidelines. For more information, contact the Office of the Registrar, telephone (606) 783-2008.

# Fees

### Housing

From the admissions application, a Housing Application/Data Sheet will be generated and mailed to you. Complete and return the Housing Application/Data Sheet with a deposit to the Office of Student Housing. Assignments are made based on the date the **housing application and deposit** are received in the Office of Student Housing. The deposit is refundable **ONLY** if canceled in writing to the Office of Student Housing by July 1.

For current fee information and to access the On-Campus Residency Policy, contact the Office of Student Housing, Morehead State University, 150 University Blvd., Box 2525, Thompson Hall, Morehead, KY 40351-1689, telephone (606) 783-2060, fax (606) 783-5062, or online at www.moreheadstate.edu/housing.

### Classification of Residence for Admission and Tuition Assessment Purposes

It is the long-standing practice of the Council on Postsecondary Education to require students who are not Kentucky residents to pay a higher level of tuition than resident students.

The responsibility for registering under the proper residency classification is that of the student. It is the student's obligation to raise questions concerning residency classification and make application for change of residency classification with the administrative officials of the institution. A student classified as a resident who becomes a nonresident shall be required to notify immediately the proper institutional officials. However, if the student fails to notify the institution's officials of the change in status, institutional officials may investigate and evaluate the current status of the student regardless of the source of information. A student classified as a nonresident is considered to retain that status until the student makes written application for reclassification in the form prescribed by Section 4(3) of 13 KAR 2:045 and is officially reclassified by the proper administrative officials.

A copy of 13 KAR 2:045 may be obtained from the Office of Admissions.

**Tuition for non-Kentucky residents** is established according to a different rate structure than that for Kentucky residents (all other fees are the same for non-Kentucky residents as for Kentucky residents). Changes in circumstances may arise which may affect the residency and thus fee-assessment for students.

## Tuition

### Full-time Tuition

Full-time students are undergraduates who enroll for 12 hours or more, during fall and spring. Tuition is assessed for full-time students at the rates listed under the tuition section of this catalog. The full-time rate applies to undergraduate students taking 12-18 credit hours. An additional per credit hour fee will be charged to undergraduate students enrolled for more than 12 credit hours. Full-time students enrolled for fall and spring semesters are admitted free of charge to most on-campus athletic events.

### Part-time Tuition

Part-time students are undergraduates who enroll for less than 12 hours of course work during the fall and spring terms. Tuition is assessed by the semester hour for part-time students.

## Financial Aid and Fee Terminology

The University offers a broad program of financial assistance to eligible students in the form of grants, loans, scholarships, and work. These are terms you might encounter when you apply for financial aid.

**Financial aid package** is a combination of different types of financial aid that may make up an award.

**Full-time** refers to enrollment for 12 credit hours or more during the fall or spring semester.

**Grant** is a type of aid that generally requires no repayment. Eligibility is based on calculated financial need.

**Loan** is a type of aid that must be repaid, generally after the student is out of school. These low-interest loans may be based on calculated financial need, or some loans may not be need-based.

**Need** is the difference between the amount it will cost you to attend MSU for an academic year and the expected contribution from your family. It is a primary factor in determining eligibility for most available aid.

**Part-time** refers to enrollment for fewer than 12 credit hours during the fall or spring semester

**Residency** is an in-state/out-of-state classification for fee assessment purposes; policy guidelines are established and approved by the Kentucky Council on Postsecondary Education. Students or prospective students with questions related to their residency for fee assessment purposes should contact Admissions for additional information or for the necessary forms used in making a determination.

**Scholarships** are generally awarded on the basis of academic achievement or special talent. They generally do not have to be repaid. Eligibility requirements and obligations vary from scholarship to scholarship.

**Tuition** is the fee charged for class enrollment.

**Undergraduate** is a student who has not completed the requirements for a bachelor's degree.

**Work-Study Program**s provide part-time employment for eligible students to help with educational expenses. The work schedule is built around the student's academic schedule.

### Financial Information

To access the current fee schedule go to www.moreheadstate.edu/abc or www.moreheadstate.edu/eagleexpress

You will be billed according to your full-time/part-time status. Full-time students are undergraduates who enroll for 12 hours or more during fall and spring terms. The full-time rate applies to undergraduate students taking 12-18 credit hours. An additional per credit hour fee will be charged to undergraduate students enrolled for more than 18 credit hours.

Full-time students enrolled for fall and spring semesters are also admitted free of charge to most on-campus athletic events.

Part-time students are undergraduates who enroll for less than 12 hours of course work during the fall and spring terms. Tuition is assessed by the semester hours for part-time students.

Non-resident students enrolled exclusively in classes at off-campus locations will be assessed tuition and fees at the applicable in-state rate. Non-resident students who are enrolled in classes at both on-campus and off-campus locations will be assessed tuition and fees at the applicable in-state rate for the off-campus locations and at the applicable out-of-state rate for those on-campus locations. Such non-resident students will not be charged more than the full-time out-of-state rate for regular course loads.

### Tuition and Fees

If you advance register for your classes, please check your account online by accessing EagleExpress Lane on the MSU homepage at www.moreheadstate.edu/agleexpress to see what you need to pay the University for your tuition and fees. You may pay or defer your fees online, if eligible, at www.moreheadstate.edu/eagleexpress. Payment or deferment must be complete by the Friday before classes begin in order to avoid a late fee. If payment or deferment is not complete by the last day to add a class, class schedules will be cancelled. If you are a full-time student your fees cover admission to all campus athletic events and copies of The Trail Blazer, the student weekly newspaper. Fees and tuition are subject to change without notice by the Council on Postsecondary Education and the University's Board of Regents.

### Questions About Billing

If you have questions concerning your registration billing, or fees, please check your account online at www.moreheadstate.edu/eagleexpress. If you have further questions please call the Office of Accounting and Budgetary Control at (606) 783-2019.

### Refund Checks

Students who so elect have the option to participate in electronic transfer of their refund checks to USbank. Students will have accessibility to any excess financial aid, or other refunds due them, via their MSU EagleCard. If students choose to participate in direct deposit and do not have an account with USbank, they may complete a USbank Student Checking Account Application and a bank account will be set up for them at no charge. If students choose not to participate in direct deposit, their refund checks are usually mailed 10 days before the first day of classes for each semester. If you have advanced registered for your classes, are expecting a refund check, but do not receive it prior to the beginning of classes, please be sure and check with your financial aid counselor to ensure that your financial aid has been awarded. Federal regulations state that if you are a first time, first year bor-

rower of a Federal Direct Loan, your Direct Loan funds cannot be disbursed until 30 days from the first day of classes. If you are counting on this money to help pay your tuition and fees, be sure you make deferment arrangements either by completing online deferment, deferring at any regional campus center or at the Office of Accounting and Budgetary Control. Deferments can not be done by phone. There is no additional fee for this type of deferment, if all fees are covered in full.

## How To Pay Tuition and Fees

After registering for classes, students may proceed with payment or deferment of their tuition and fees. Students who have registered for fall classes will be able to view their billing after July 1.

Payment or deferment is due by the close of business the Friday before classes begin. A late fee of $75 will be in effect beginning the first day of classes each semester.

For students who have not paid or deferred their fees, the University will cancel their class schedules the day after the last day to add a class each semester. Students will be notified by MSU electronic mail if this action has been taken.

Once a student's class schedule is cancelled, students have one month to have their class schedules reinstated. Payment or deferment must be made at the time of reinstatement. In addition, a $75 late fee and a $100 reinstatement fee will be assessed. After this deadline, schedules cannot be reinstated unless there was a University error.

Balance due payments may be paid in the following manner:

- Pay by phone at: (606) 783-2849 or (606) 783-5212,
- Mail balance due, addressed to:
  Morehead State University
  Office of Accounting and Budgetary Control
  207 Howell-McDowell Ad. Bldg.
  Morehead, KY 40351-1689

**Mail payment so that it can reach our office one week prior to the beginning of classes.**

- Pay in person on campus. (Pay in person at the Cashier's Window, 207 Howell-McDowell)
- Pay in person at one of the Regional Campus Centers.
  MSU at Ashland 1-800-648-5370 or (606) 327-1777
  MSU at Jackson 1-800-729-5225 or (606) 666-2800
  MSU at Mt. Sterling 1-866-870-0809 or (859) 499-0780
  MSU at Prestonsburg 1-800-648-5372 or (606) 886-2405
  MSU at West Liberty 1-800-648-5371 or (606) 743-1500
- Pay online via Eagle Express Lane by selecting the Eagle Express icon on the MSU homepage or at www.moreheadstate.edu/eagleexpress.
- Defer payments, if eligible, via Eagle Express Lane.
- Deferred payments cannot be made by phone. They must be done online or in person.

As of the first day of classes each semester, a $75 late fee goes into effect for all students who have not paid or made arrangements for payment through deferment.

**Methods of Payment:**

Morehead State University accepts the following methods of payment:

1. Cash
2. Check
3. Master Card
4. Visa
5. Online WEB Payment, (credit or debit card)
6. American Express
7. Discover
8. Deferred Payment
9. Financial Aid

**Registration Information:**

Registration of a class schedule in itself does not complete the enrollment process. To complete your enrollment, you must do one of the following prior to the first day of class for the semester:

1. Pay your total fees (personal resources, financial aid, student loans, etc.)

2. You may defer your fees online if eligible, via Eagle Express Lane. You may also make arrangements for payment of your fees through deferred payment with the Office of Accounting and Budgetary Control after you have registered for classes or if you are a Regional Campus student, you may contact your Regional Campus Center for deferment. One-third of the fees plus a deferred payment application fee are required at the time of deferment. The balance is due in two equal installments in 30 and 60 days respectively.

If you have any questions, please contact the Office of Accounting and Budgetary Control at (606) 783-2019.

**OR**

visit the Eagle Express Lane Web site at:
www.moreheadstate.edu/eagleexpress

**"How to view, pay or defer your student account online"**

Step 1: Go to the MSU home page at: www.moreheadstate.edu
Step 2: Select Eagle Express Lane icon
Step 3: Select Step 6 on Eagle Express Lane
Step 4: Enter your MSU Student ID and PIN Number. Select Submit. (if you do not have a PIN Number, select "I need to create a web account"):
Step 5: Select **Online Processing**. Select submit.
Step 6: Select **Financial Information.** Select submit.
Step 7: At this point you may view, pay, or defer your student account.
Step 8: When complete select **Sign Off** (in yellow) at the top of your screen.
Step 9: Please close your browser for security purposes.

## Student Billing Statements Online

Currently enrolled students at Morehead State University do not receive a paper bill each month. Since students do not receive a paper bill, they may access their financial data online at www.moreheadstate.edu/eagleexpress in order to determine the amount of tuition and fees owed to the University (see instructions on page 16). While allowing the student to be fiscally responsible, the process also offers more privacy of one's business matters. The

Office of Accounting and Budgetary Control does remind students when they have a balance on their account, but the monthly reminder arrives in the form of an e-mail message sent to the student's MSU e-mail account. Once a reminder is received, the student will have the option of going online and viewing their account. If the balance is paid, there will be no further e-mail reminders.

Along with tuition and fees, the student's online account lookup shows other amounts due, such as rent, parking fines, returned check, bookstore purchases, meal plans, library fines or emergency loan holds. The account may be printed for later viewing by the student or to give to parents. E-mail reminders will go to the student's MSU e-mail address, or the student may redirect their e-mail to a designated address, such as a parent's Web address.

Students are assigned Web accounts and e-mail addresses when they enroll at the University. Current students have computer access at various locations on campus, in residence halls, the Camden-Carroll Library, the computer labs and numerous free-standing monitors. After completing the advance registration process, students will have access to their online account. The account is available 24 hours each day, seven days a week.

Additional information concerning online account lookup is available by calling the Office of Accounting and Budgetary Control at (606) 783-2019.

If you are expecting some type of financial aid or student loan to pay your balance due, check in the Directory of Classes for details concerning deferment, loans, financial aid, and Campus or Regional Campus dates, times or questions that you may have.

If you have any questions please contact the Office of Accounting & Budgetary Control at (606) 783-2019.

All fees are subject to change without notice by action of the Kentucky Council on Postsecondary Education and/or the Morehead State University Board of Regents.

Morehead State University reserves the right to deny credit based upon prior payment history.

A list of fees is available upon request.

### Student Health Service Fee

The fee is consolidated with tuition and mandatory fees for all students (undergraduate and graduate) each semester. Students are entitled to the basic services of the Caudill Health Clinic.

### Credit/Adjustments

Students withdrawing from school during any semester or term must arrange for their withdrawal with the Office of the Registrar. No credits will be given unless the withdrawal is made through the proper channels. Tuition, housing, and course fees may be credited to students accounts who withdraw during certain time periods following the start of each term. Meal plans and minimum Dining Club accounts may be credited in accordance with the percentages listed below or the actual account balance, whichever is smaller. All other fees are not adjustable. Credit/adjustment periods and amounts are as follows:

### Fall or Spring Semester Credit Adjustments

**On-campus/Regional Campus/Day & Evening Classes**

| Percent Credited | |
|---|---|
| First five days of classes | 100% |
| Next five days of classes | 75% |
| Next five days of classes | 50% |
| Next five days of classes | 25% |

**No credits are given after the first 20 days of classes.**

### Summer Session Credit Adjustments

**On-campus/Regional Campus**

| Percent Credited | |
|---|---|
| First two days of classes | 100% |
| Next two days of classes | 75% |
| Next two days of classes | 50% |
| Next two days of classes | 25% |

**No credits are given after the first eight days of the session**. Adjustable fees include tuition, housing, and course fees.

## Financing Your College Education at MSU

The University offers a broad program of financial assistance to eligible students in the form of grants, loans, scholarships, and work.

In many cases, financial aid is made up of a combination of the various types of assistance available (a financial aid package). Students who have been admitted and are enrolled for credit in a degree program are eligible for financial aid funds provided they also meet all other requirements for aid. Financial assistance is granted, depending upon the availability of funds, to all eligible students regardless of sex, race, color, or ethnic origin. About 90 percent of the students attending MSU receive scholarships or other financial aid.

The type and amount of financial aid is generally based upon demonstrated financial need, academic achievement, test scores, and other talents and interests. Financial need is determined through analysis of the Free Application for Federal Student Aid (FAFSA), available in the Office of Financial Aid, MSU, 100 Admissions Center, Morehead, KY 40351-1689, telephone (606) 783-2011, or the office of any high school guidance counselor. The FAFSA is analyzed to determine the expected contribution of the student and/or parents toward educational expenses.

Apply for financial aid by completing the FAFSA by April 1 for the coming academic year or for the coming summer terms. Applying before the priority deadline increases chances of receiving financial aid. Most financial aid is credited to students' accounts, one-half of the year's award for fall semester and the other half for spring semester.

## Selective Service Registration Requirement

Male students must be registered with the Selective Service (if required to register) before they can receive Title IV student financial aid (Federal Pell Grant, Federal SEOG, Federal Workstudy, Federal Perkins Loan, Federal Direct Loan, Direct Plus Loan). Contact the Office of Financial Aid (606) 783-2011 for more information.

## Satisfactory Academic Progress for Financial Aid Recipients

(*See page 32 for information regarding scholastic standing, academic probation, and suspension)*

The Higher Education Act mandated institutions of higher education to establish minimum standards of "satisfactory academic progress" for students receiving financial assistance. This means that a student must make progress toward obtainment of an appropriate degree or certificate during each term that the student is enrolled. These standards are applicable to all federal, state, and institutional aid programs administered by Morehead State University.

At Morehead State University, in order to continue to receive financial aid, a student must demonstrate satisfactory academic progress by completing a minimum number of the total hours attempted, and by also maintaining a minimum GPA. MSU's satisfactory academic progress schedule is as follows:

## Successful Undergraduate Progress

1. A student must successfully complete a minimum of 75 percent of the credit hours attempted during the last period of enrollment. Successful completion for this purpose is defined as receiving a grade of "D" or better.
2. If 1-16 hours have been attempted, a student must have at least a 1.6 cumulative GPA. If 17-32 hours have been attempted, a student must have at least a 1.7 cumulative GPA. If 33-48 hours have been attempted, a student must have at least a 1.8 cumulative GPA. If 49-67 hours have been attempted, a student must have at least a 1.9 cumulative GPA. If 68 or more hours have been attempted, a student must have at least a 2.0 cumulative GPA.
3. A student has attempted no more than 192 undergraduate hours for a bachelor's degree, or no more than 96 hours for an associate's degree.

## Policies and Procedures

The specific policies and procedures to be used in applying the satisfactory progress standards are outlined below:

1. Satisfactory progress will be evaluated at the end of each spring semester.
2. Hours attempted for purposes of this policy will be defined as those for which a student receives a grade of A, B, C, D, E, F, I, IP, K, N, R, U, W, WP, or WF.
3. For undergraduate students, grades of E, F, I, IP, N, R, U, W, WP, and WF will not qualify as successful completion of hours attempted.
4. Non-credit remedial courses, courses taken for audit, and courses in which grades of K or P are received are not figured in the calculation of a student's GPA.
5. If otherwise eligible, students will be given financial aid during a term in which they may be repeating a course.
6. A student who fails to maintain satisfactory progress as defined will not be permitted to receive federal, state, or institutional financial aid.

## Procedures for Appeal for Financial Aid by Students Who Fail to Maintain Satisfactory Progress Standards

Students who fail to meet satisfactory progress standards, as defined, may appeal the ruling to the Office of Financial Aid if they believe extenuating circumstances led to their failure to maintain satisfactory progress. Those desiring to appeal must do so in writing on the Satisfactory Progress Appeals Form and must attach supporting documentation. Copies of the appeals form may be obtained in the Office of Financial Aid. Students will be notified in writing of the action taken on their appeals.

## Reinstatement of Financial Aid Eligibility

Should a student's financial aid eligibility be terminated for failure to maintain satisfactory progress as defined, the eligibility for financial aid will not be reinstated until the student enrolls for a subsequent academic term (fall, spring, or summer term) at his or her own expense, completes the term satisfying the satisfactory progress definition, and subsequently appeals to the Office of Financial Aid. Financial aid eligibility will be reinstated for all students whose appeals are approved.

## Scholarships and Awards

To be considered for scholarships, students must submit a completed Undergraduate Admission and Scholarship Application to the Office of Admissions and be admitted to MSU as an incoming freshman or transfer student. Applications can be obtained through the Office of Admissions, through area high school guidance offices, or you may apply online. The Office of Enrollment Services should receive your completed application by the February 15 priority deadline to best compete for these attractive scholarships. All scholarships, awards, and tuition waivers require continuous full-time enrollment for the fall and spring semesters. Scholarships and awards are divided equally between the fall and spring semesters. With few exceptions, scholarships are renewable through completion of undergraduate degree requirements or a maximum of eight semesters. The following are descriptions of academic achievement scholarships awarded through the Office of Financial Aid to new students entering Fall 2007. *Scholarships may be revised for new students entering Fall 2008.*

## Presidential Scholarship

**Value per year:** Varies based on achievement; minimum value of tuition and housing fees.

**To qualify:** Recipients must be admitted to MSU as an entering freshman or as a transfer student (college GPA of 3.75 or better on a minimum of 15 semester hours) and meet one of the following requirements:

1. Be a National Merit Scholar – Scholarship consists of tuition, on-campus housing and $1,500 for books and/or meals; or
2. Be a National Merit Finalist or Semi-Finalist – Scholarship consists of tuition, on-campus housing and $500 for books and/or meals; or
3. Be an alumnus of Kentucky Governor's Scholars or Governor's School for the Arts with a minimum ACT composite of 23 or higher (or if less than 23, meet audition, portfolio, or other academic department requirements) – Scholarship consists of tuition and on-campus housing; or
4. Be an applicant with a minimum high school GPA of 3.75 and a minimum ACT composite of 28 or higher or SAT combined score of 1240 or higher – Scholarship consists of tuition and on-campus housing; or
5. Be a valedictorian or salutatorian from an accredited Kentucky high school with an ACT composite score of 23 or higher – Scholarship consists of tuition and on-campus housing. (Valedictorians and salutatorians with ACT scores below 23 may receive the Commonwealth Scholarship.)

**Other criteria:** Recipients must achieve a minimum cumulative GPA of 3.0 during each of the first two semesters and a minimum cumulative GPA of 3.25 for each semester thereafter to maintain a Presidential Scholarship. Recipients must reside in on-campus housing facilities and may receive priority in assignments when applying by March 1 for the fall semester or by November 1 for the spring semester. Students commuting from home or those enrolled full-time at an MSU regional campus do not receive the housing portion of the award or its equivalent. For purposes of this scholarship, tuition for out-of-state recipients is assessed at instate rates times 1.25. The University reserves the right to adjust award levels based on academic qualifications and availability of funds.

*NOTE: Recipients of Presidential Scholarships are invited to participate in the Honors Leadership Residential College and/or George M. Luckey, Jr. Academic Honors Program.*

## Commonwealth Scholarship

**Value per year:** Full tuition

**Minimum criteria for consideration:**

1. Be admitted to MSU as an entering freshman with a minimum admission index of 600; and
2. Be a legal resident of Kentucky; and
3. Have a minimum ACT composite score of 20

**Criteria for renewal:** Achieve a minimum cumulative 3.00 GPA during each of the first two semesters and a minimum cumulative GPA of 3.25 for each semester thereafter.

## Regents Scholarship

**Value per year:** $2,500

**Minimum criteria for consideration:**

1. Be admitted to MSU as an entering freshman with an admission index of 550 to 599; and
2. Be a legal resident of Kentucky; and
3. Have a minimum ACT composite score of 20

**Criteria for renewal:** Achieve a minimum cumulative GPA of 2.75 during each of the first two semesters and a minimum cumulative GPA of 3.00 for each semester thereafter.

## Non-Resident Tuition Scholarship (for Out-of-State Students)

**Value per year:** Recipients pay only 1.25 times the in-state tuition rate instead of the out-of-state rate.

**Minimum criteria for consideration:** Be admitted as an entering freshman with an admission index of at least 400 or as a transfer student with a college GPA of 3.00 on at least 24 semester hours or have a minimum ACT composite score of 18 (or SAT equivalent) if less than 24 hours and meet one of the following criteria:

1. Live in a geographic area designated by MSU for special tuition rates and have a minimum ACT composite score of 18 or SAT equivalent; or
2. Have a minimum ACT composite score of 23 or SAT equivalent, regardless of place of residence; or
3. Be the child or grandchild or spouse of an active MSU alumnus and have a minimum ACT composite score of 18 or SAT equivalent. An active alumnus is defined as someone who makes annual gifts to the MSU Foundation, Inc.

**Criteria for renewal:** Maintain satisfactory academic progress toward graduation.

## KCTCS Transfer Scholarship

**Value per year:** $2,500 for college (GPA from 3.6 to 4.0)
$2,000 for college (GPA from 3.2 to 3.59)

**Minimum criteria for consideration:**

1. Be admitted to MSU as a transfer student from any institution in the Kentucky Community and Technical College System (KCTCS); and
2. Have completed at least 48 semester hours of college coursework

**Criteria for renewal:** Maintain a minimum cumulative GPA of 3.00.

## Transfer Scholarship

**Value per year:** $2,000 for college GPA from 3.6 to 4.00
$1,500 for college GPA from 3.2 to 3.59

**Minimum criteria for consideration:**

1. Be admitted to MSU as a transfer student from any accredited college or university; and
2. Have completed at least 24 semester hours of college work or have a minimum ACT composite score of 20 (or SAT equivalent) if less than 24 semester hours

**Criteria for renewal:** Maintain a minimum cumulative GPA of 3.00.

## Alumni Scholarship

**Value per year:** $1,000

**Minimum criteria for consideration:**

1. Be admitted to MSU as a freshman with an admission index of at least 400 (including ACT composite score of 18) or as a transfer student with a college GPA of 3.00 on 24 semester hours or more; and
2. Have at least one parent or grandparent or the student's spouse be an MSU alumnus and an active member of the MSU Alumni Association. Active member is defined as someone who makes annual gifts to the MSU Foundation, Inc.; and
3. Be a legal resident of Kentucky

**Criteria for renewal:** Achieve a minimum cumulative GPA of 2.75 during each of the first two semesters and a minimum cumulative GPA of 3.00 for each semester thereafter. Transfer students must maintain a minimum cumulative GPA of 3.00 for all classes at MSU.

*NOTE: May be awarded in addition to other scholarships.*

## Diversity Scholarship

**Value per year:** $1,000

**Minimum criteria for consideration:**

1. Be admitted to MSU as an entering freshman or a transfer student; and
2. Have an ethnic background of African American, Hispanic, American Indian or Alaskan native, Asian, or Pacific Islander.
3. Be a legal resident of Kentucky; and
4. Have a minimum ACT composite score of 18

**Criteria for renewal:** Maintain a minimum cumulative GPA of 2.75.

*NOTE: May be awarded in addition to other scholarships.*

## Information for Scholarship Applicants

*All recipients of the above scholarships, grants, and waivers must agree to continuous full-time enrollment (fall and spring semesters)* ***The number of scholarships awarded each year will depend upon the availability of funds.***

The following are descriptions of scholarships offered through other University departments and programs:

**Honors Program Scholarship.** $600 renewable award. Obtain scholarship applications from the Director, Academic Honors Program, MSU, Morehead, KY 40351-1689.

**Army Reserve Officers' Training Corps Scholarship.** Awarded for periods from two to four years; pays for tuition, textbooks, laboratory fees, other specified educational expenses, and a tax-free subsistence allowance of $250-$400 per school month. Contact the Professor of Military Science, MSU, 306 Button Auditorium, Morehead, KY 40351-1689, telephone (606) 783-2050.

**E. O. Robinson Mountain Fund Nursing Student Scholarship**. For needy nursing students from East Kentucky; maximum annual award is $500. Contact the Office of Financial Aid.

**Athletic Scholarships.** Based on athletic potential, these scholarships are limited in number by regulation or institutional policy. Contact the coach of the sport in which you wish to compete or the Director of Athletics, MSU, Morehead, KY 40351-1689, telephone (606) 783-2088.

**Departmental Scholarships.** The University offers a number of departmental scholarships in areas such as music, debate, speech, theatre, and radio and television. Contact the department in which you have an interest to explore specific scholarship opportunities.

**Outside Funded Scholarships.** Granted by agencies outside the University, these are administered through the Office of Financial Aid in accordance with instructions of the donor. If you are to receive such an award, you should ask the donor agency to mail the award and complete instructions for its disposition to the Office of Financial Aid, MSU, Morehead, KY 40351-1689. The telephone number is (606) 783-2011.

**Regional Analysis Scholarship.** This scholarship is awarded by the Institute for Regional Analysis and Public Policy with the following criteria: **Value per year:** Varies-up to $6,000

To qualify you must be admitted to MSU as an entering freshman or as a transfer student from an accredited college or university.

**Minimum criteria for consideration:**

1. Minimum ACT composite of 23.
2. New freshmen must have a minimum Admission Index of 500.
3. Transfer students must have a transfer GPA of 3.25 or higher.
4. Declared major (with emphasis in regional analysis) in geography, government, social work, or sociolog or area of concentration in environmental science or social work.

**Criteria for renewal:** Achieve a minimum cumulative 2.75 GPA during each of the first two semesters and a minimum cumulative 3.0 GPA for each semester thereafter.

For more information on scholarships and awards, contact the Office of Financial Aid for a brochure. For information on the "Regional Analysis Scholarship," contact the Institute for Regional Analysis and Public Policy, Combs Bldg., telephone (606) 783-5419.

## Financial Aid

**Grants.** Repayment is normally not required for the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (SEOG), or College Access Program Grant (CAP). To be considered for these grants you must complete the FAFSA and the MSU Student Financial Aid Personal Data Sheet. Request forms from MSU's Office of Financial Aid or any high school guidance counselor.

**Federal Pell Grant.** A federally-funded program; eligibility and amount are determined by a standard financial needs analysis formula. Awards currently range from $400 to $4,050 per academic year.

**Federal SEOG.** A federally-subsidized award based on need. Awards at MSU average about $400 per year.

**CAP Grant.** A state program based on need. Grants are currently $1,900 per academic year.

**Work-Study Programs.** The work-study programs provide work in a variety of offices and departments at the University. Students earn the current minimum wage.

**Federal Work-Study Program** (FWSP). A federally-subsidized program based on need.

**Institutional Work-Study Program** (IWSP). Sponsored by the University, this program is geared to students with specific skills, talents, or experience.

**Loans.** Loans must be repaid, and are available in differing amounts and under varying conditions. Types are Federal Perkins Loan, Federal Direct Loan, Federal Direct Plus Loan, and the Emergency Loan Fund.

**Federal Perkins Loan.** A federally-subsidized program based upon financial need and available funds. Eligible students may borrow (at 5 percent interest) up to $4,000 for the first two years of study, with a maximum of $20,000 for undergraduate work.

**Federal Direct Loan.** Allows students to borrow money directly from the institution. The maximum undergraduate loan is $2,625 a year for the first and $3,500 for the second year, and $5,500 a year for juniors and seniors, to be repaid at a maximum rate of 8.25 percent. An origination fee of 3 percent of the face value is deducted from the loan by the lender. These loans may be need based (subsidized) or non-need based (unsubsidized).

**Federal Direct PLUS Loan.** Allows parents and/or step-parents of dependent undergraduate students to borrow money from the institution for student educational expenses. The maximum rate of interest is 9 percent, and the first payment is due within 60 days of disbursement.

**Emergency Loan Fund.** Administered by the Office of Financial Aid, this fund assists students in emergency situations. Students may borrow small amounts on a short-term, no-interest basis, depending on funds available. Apply in person to the Office of Financial Aid.

**Entitlements.** Entitlement programs include Veterans Administration Educational Assistance G. I. Bill and benefits for veterans' dependents, tuition waiver for dependents of Kentucky veterans, and Vocational Rehabilitation Assistance.

**Veterans Administration (V.A.) Educational Assistance.** For eligible veterans (G. I. Bill) and/or eligible children, wives, and widows of veterans who died or were permanently and totally disabled as the result of service in U.S. Armed Forces (V.A. benefits program). Eligibility is determined by the V.A. For information and application forms, contact Veteran Administrations Regional Office, P.O. Box 66830, St. Louis, MO 63166-6830, telephone (toll-free) 1-888-442-4551.

**Tuition Waiver for Dependents of Kentucky Veterans, Police Officers, Firefighters, or Volunteer Firefighters.** The Commonwealth of Kentucky provides funds to institutions for the waiver of tuition for eligible dependents (children, spouses, widows) of totally disabled or deceased Kentucky war veterans, police officers, firefighters, or volunteer firefighters, who died or were permanently and totally disabled as a result of services in the U.S. Armed Forces, Kentucky Law Enforcement Agencies, as a firefighter, or volunteer firefighter. For information, call the Office of Financial Aid, telephone (606) 783-2011.

**Vocational Rehabilitation.** For eligible individuals with physical or emotional disabilities; eligibility determined by the Vocational Rehabilitation Service in the student's community. If you are already enrolled at the University, contact the Vocational Rehabilitation Office, 200-32 South, #4, Morehead, KY 40351, telephone (606) 783-1527.

**Army Reserve Officers' Training Corps Subsistence Allowance.** For eligible individuals enrolled in advanced military science classes. Consists of a tax-free allowance of $250-$400 per school month. Contact the Professor of Military Science, MSU, 306 Button Auditorium, Morehead, KY 40351-1689, telephone (606) 783-2050.

## Scholarships Renewal

Scholarships may and often do require higher standards for renewal. Please consult your scholarship information and the University's renewal guidelines regarding your particular scholarship. Satisfactory progress for scholarships is also evaluated at the end of each semester. The minimum criteria for scholarship renewal are as follows:

| Award | FR GPA | UC GPA |
|---|---|---|
| **Presidential Scholarship** | 3.00 | 3.25 |
| **Commonwealth Scholarship** | 3.00 | 3.25 |
| **Regents Scholarship** | 2.75 | 3.00 |
| **KCTCS Transfer Scholarship** | | 3.00 |
| **Transfer Scholarship** | | 3.00 |
| **Alumni Scholarship** | 2.75 | 3.00 |
| **Diversity Scholarship** | | 2.75 |
| **Tuition Scholarship for Non-Residents** | Maintain satisfactory academic progress toward graduation. | |

# Academic Programs and Requirements for Graduation

## Terms to Know

The following definitions will assist you as you read through this section:

Associate degree requires no fewer than 64 semester hours and can be completed in two years or less, except for the AAS in Radiologic Technology and the AAS in Veterinary Technology which require a minimum of three years to complete.

Bachelor's or baccalaureate degree requires no fewer than 128 semester hours and can be completed in four years or less.

Area (area of concentration) is a field of specialization requiring not less than 48 semester hours of credit, which can be completed in place of a major-minor combination.

Major is a principal field of specialized study in which a student plans to obtain a degree. A major requires no fewer than 30 semester hours of designated course work and must be accompanied by a minor or second major.

Minor is a secondary field of study of no fewer than 21 semester hours of designated course work.

Program of study is the major-minor combination or area of concentration which the student elects to pursue.

Teacher certification program is a state-approved course of study that leads to certification as a public school teacher.

## Degree Abbreviations

AA – Associate of Arts

AAB – Associate of Applied Business

AAS – Associate of Applied Science

AAS – Associate of Applied Science in Nursing

AAS – Associate of Applied Science in Radiologic Science

AS – Associate of Science

BA – Bachelor of Arts

BBA – Bachelor of Business Administration

BM – Bachelor of Music

BME – Bachelor of Music Education

BS – Bachelor of Science

BSIS – Bachelor of Science in Imaging Sciences

BSN – Bachelor of Science in Nursing

BSW – Bachelor of Social Work

BUS – Bachelor of University Studies

### Academic Programs

The Programs of Study section on page 6-8 indicates baccalaureate or associate degree programs, areas, majors or minors offered, and whether teacher certification is available. Pre-professional (transfer) programs are also listed. You can find specific options or emphases within certain degree programs by referring to the catalog page number of the general subject area.

### Applying for Graduation

An Application for Degree Form (available in the Office of the Registrar) should be submitted to the Office of the Registrar at least one semester before degree requirements are completed. A one-time application fee for graduation is required.

Commencement is observed two times during the academic year. Ceremonies are held at the end of the fall and spring terms.

### Check Sheets

To help you identify the requirements for graduation in your program, you must file an approved check sheet or an approved teacher education program check sheet with the Office of the Registrar no later than the freshman year. Your application for a degree will not be processed until your official checksheet has been filed appropriately.

You should request an official checksheet through your major academic advisor. A copy of the official checksheet may be viewed by you and your advisor online.

Should you subsequently change your area/major/minor program, you must follow the same procedure to acquire a new checksheet.

### Requirements for Graduation

To earn an undergraduate degree, you must meet general University requirements and specific program of study requirements. Program of study requirements are explained in the academic programs section of this catalog. What follows here are the general University requirements for bachelor's degrees, associate degrees, and second degrees.

### Bachelor's Degree Requirements

**You will receive your bachelor's degree after you:**

1. Complete a minimum of 128 semester hours of prescribed and elective college credit, 43 semester hours of which must be courses numbered 300 or above. See the academic programs section of this catalog for the specific requirements of your area of concentration or major and minor programs.
2. Earn a minimum cumulative GPA of 2.0 on all work completed at the University and on all work completed to satisfy area of concentration or major and minor requirements.

3. Complete an area of concentration of no fewer than 48 semester hours or a major of no fewer than 30 semester hours and a minor of no fewer than 21 semester hours. (These are minimum requirements. You may also elect to satisfy two majors or a major and more than one minor.) A major, minor, or area of concentration is not required for the Bachelor of University Studies degree.
4. Complete at least 32 semester hours at Morehead State University, with the last 16 hours preceding graduation earned from MSU. Correspondence courses do not satisfy this requirement. Fifty percent of the hours required for the major or area of concentration must be credit earned at Morehead State University. Exceptions may be made with permission of the dean of the college in which the major or area of concentration is granted.
5. Bachelor of Science degree candidates must complete a minimum of 60 semester hours in science or science-related fields.
6. Complete 48 semester hours of general education courses. (See Teacher Education requirements for more specific general education course requirements.) Some degree programs require specific courses within each general education category. Please refer to your program elsewhere in this catalog for detailed course information. Listed below are the general education course requirements.
7. Complete a one credit hour MSU 101: Discovering University Life course during the student's first semester if the student begins as a freshmen or transfers to MSU with less than 24 credit hours.
8. A bachelor's degree and an associate's degree may be applied for at the same degree date. However, no more than one bachelor's and one associate's degree will be awarded at the same date. A student may not apply for an AA degree once qualified for the bachelor's degree.
9. Cross listed courses can only be taken once for credit. If a cross listed course is taken a second time using the different prefix it will be considered a repeat.

## *General Education Courses

**I. Required Core ..... 15 hours**

*Writing I (100 level) – three hours*
ENG 100 – Writing I ..... 3
*Writing 2 (200 level) – three hours*
ENG 200 – Writing II ..... 3
*Oral Communications (100 level) – three hours*
CMSP 108 – Fundamentals of Speech Communication ..... 3
*Math Reasoning (100 level) – three hours*
*Choose one course from the following list:*
MATH 123 – Introduction to Statistics;
MATH 131 – Mathematical Reasoning and Problem Solving;
MATH 135 – Mathematics for Technical Students;
MATH 141 – Plane Trigonometry;
MATH 152 – College Algebra;
MATH 174 – Pre-Calculus Mathematics; or
MATH 175 – Calculus I ..... 3
*Computer Competence – three hours*
*Choose one course from the following list:*
AGR 261 – Information Acquisition & Analysis;
ART 109 – Introduction to the Computer in the Visual Arts;
CIS 101 – Computers for Learning;
CS 170 or MATH 170 - Introduction to Computer Science;
CMAP 166 – Desktop Publishing and Publication Tech. I;
EDUC 222 – Computing Tools for Educators;
IET 110 – Fundamentals of Computer Technology;
MUSE 215 – Microcomputers and Music;
RAPP 202 – Basic Computer Tech. in Regional Analysis; or
SCI 110 – Introduction to Scientific Computing ..... 3

**II. Area Studies ..... 30 hours**

Only one course may be chosen from each prefix in Area Studies courses; for example, only one course from the three ART courses may be chosen to satisfy the nine hours of humanities for the Area Studies General Education Requirements.

**A. Humanities ..... 9 hours**

*Choose three courses from the following list:*
Students may choose only one course from each prefix.
ART 263 or IST 263 – Art History I
ART 264 or IST 264 – Art History II
ART 265 or IST 265 – Art History III
CMEM 210 – Media Literacy
CMSP 350 or IST 350 – Comm., Culture, & Diversity
CMSP 383 – Small Group Communication
CMSP 390 – Conflict and Communication
ENG 120 or WST 120 – Approaches to Literature
ENG 205 – Language: Culture and Mind
ENG 211 or IST 211 – Introduction to World Literature I
ENG 212 or IST 212 – Introduction to World Literature II
ENG 293 – Introduction to Creative Writing
FNA 160 – Understanding the Visual Arts
FRN 101 – Beginning French I
FRN 205 or IST 205 – French Culture and Civilization
GOVT 180 or WST 210 – Introduction to Political Theory
HIS 201or IST 201 – Global Studies
HIS 202 – American Studies
HUM 170 – Introduction to Film
HUM 203 – Introduction to Medieval Culture
IST 101 – Introduction to International Studies
IST 201 or HIS 201– Global Studies
MUSH 261 – Music Listening
MUSH 361 – History of Music I
MUSH 362 – History of Music II
PHIL 200 – Introduction to Philosophy
PHIL 203 – Social Ethics
PHIL 306 – Introduction to Logic
PHIL 333 – Environmental Ethics
PHIL 355 – Ancient and Medieval Philosophy
PHIL 356 – Modern and Contemporary Philosophy
SPA 101 – Spanish Language and Culture I

SPA 102 – Spanish Language and Culture II
THEA 110 – Fundamentals of the Theatre

**B. Natural and Mathematical Sciences ..... 9 hours**
*Choose three courses from the following list:*
ASTR 111 – Concepts in Astronomy I
ASTR 112 – Concepts in Astronomy II
BIOL 105 – Introduction to Biological Sciences
BIOL 110 – Biological Science for Elementary Teachers
BIOL 150 – Introduction to Plant Science
BIOL 155 – Introduction to Environmental Science
BIOL 160 – Introduction to Biological Principles
BIOL 171 – Principles of Biology
BIOL 231 – Human Anatomy
CHEM 101 – Survey of Chemistry
CHEM 104 – The Chemistry of Ordinary Things
CHEM 111 – Principles of Chemistry I
GEO 101 – Physical Geography
GEOS 106 – Introduction to Geology
GEOS 108 – Physical Geology
MATH 232 – Mathematics for the Elementary Teacher II
MATH 353 – Statistics
MATH 354 – Business Statistics
PHYS 109 – A History of the Universe
PHYS 110 – Concepts in Astronomy
PHYS 201 – Elementary Physics I
PHYS 220 – The Science of Music
PHYS 231 – Engineering Physics I
SCI 103 – Introduction to Physical Sciences
SCI 104 – Modern Issues and Prob. in the Physical Sciences
SCI 109 – Physical Science for the Elementary Teacher
SCI 111 – Inquiry Physical Science for Elementary Teachers
SCI 112 – Inquiry Earth and Space Sci. for Elem. Teachers

**C. Social and Behavioral Sciences ..... 9 hours**
*Choose three courses from the following list:*
AGR 204 or IST 204 – World Food
ECON 101 – Introduction to Economics
ECON 102 – Economic History of the United States
ECON 201 – Principles of Macroeconomics
ECON 202 – Principles of Microeconomics
EDF 211 – Human Growth and Development
GEO 100 – Fundamentals of Geography
GEO 300 or IST 300 – World Geography
GOVT 141 – United States Government
GOVT 230 – Introduction to Comparative Politics
GOVT 362 or IST 362 – Current World Problems
HIS 210 – Early World Civilization
IET 300 – Technology and Society
IMS or NURS 300 – Ethical and Legal Issues in Hlth Care
PSY 154 – Introduction to Psychology
PSY 156 – Lifespan Developmental Psychology
RAPP 201 – Society, Nature, and Development
SOC 101 – General Sociology
SOC 203 – Contemporary Social Problems
SOC 273 or WST 273 – Introduction to Women's Studies
SOC 305 or IST 305 or WST 305 – Cultural Anthropology
SOC 354 or WST 354 – The Individual and Society

**D. Practical Living ..... 3 hours**
*Choose one course from the following list:*
AGR 202 – Agricultural Plants and Humanity
FIN 264 – Personal Finance
HLTH 151 – Wellness: Theory to Action
HLTH 203 – Safety and First Aid
HS 101 – Nutrition and Well Being
IET 120 – Technology Systems
LSIM 201 – Living in an Information Society
MNGT 160 – Business and Society
IMS 302 or NURS 302– Hlth Mt.Throughout the Life Span
IMS 303 or NURS 303 or WST 474 – Women's Health Care
IMS 304 or NURS 304 – Men's Health Issues
IMS 345 or NURS 345 – Global Health
PLS 226 – Law for the Layperson
For a listing of the General Education goals see the appendix on page 279.

**III. Integrative Component ..... 3 hours**
*Students must take the course from the following list that is from their major of study.*
AGR 499C – Senior Seminar in Agriculture
ART 499C – Visual Art Capstone
BIOL 499C – Contemporary Environmental Issues
BIOL 499D – Principles of Evolution
CMAP 499C – Senior Project
CMEM 499C – Electronic Media Senior Seminar
CMJN 499C – Journalism Senior Seminar
CMSP 499C – Senior Seminar Applied Communication
CRIM 499C – Senior Criminology Capstone
EDEM 499C – Student Teaching Seminar Capstone
EDSE 499C – Teacher in Today's Schools
ENG 499C – Senior Seminar in English
FRN 499C – Senior Colloquium in French
GEO 499C – Senior Seminar in Geography
GOVT 499C – Senior Seminar
HIS 499C – Senior Seminar in History
HIS 499D – Teaching Social Studies
HLTH 499C – Senior Seminar in Health Promotion
HLTH 499D – Senior Seminar in Health Education
HS 499C – Senior Seminar
IET 499C – Senior Project
MATH 499C or CS 499C – Senior Capstone
MNGT 499C – Strategic Management
MSU 499C – Senior Seminar
MUSP 499C – Senior Recital
NURB 499C – Advanced Nursing Practicum
PHED 499C – Senior Capstone
PHED 499D – Senior Capstone
PHIL 499C – Senior Seminar in Philosophy
PLS 499C – Senior Paralegal Practice Seminar

PSY 499C – Systems and Theories
RSCI 499C – Senior Seminar in Radiologic Sciences
SCI 498 – Senior Thesis I
SCI 499C – Senior Thesis II
SOC 499C – Senior Seminar
SPA 499C – Senior Seminar in Spanish
SPMT 499C – Senior Capstone
SWK 497 – Practicum in Social Work
SWK 498 – Social Work Practice Skills III
SWK 499C – Senior Seminar
WST 490 – Integrative Capstone in Women's Studies

The following courses may not be used to satisfy general education requirements: Pre-100 classes, Workshops 199-599, Co-op 139-539, Practicums, Internships, Special Problems, Field Experiences, Selected Topics, Independent Study, and Research Projects by Independent Study.

## Bachelor of University Studies Degree Requirements

You do not have to complete a major, minor, or area of concentration for the Bachelor of University Studies degree. You may take a wide variety of subjects or concentrate all studies beyond the general education requirements in a single discipline. For more information, see your advisor or the Director, Office of Academic and Career Services, 220 Allie Young Hall, (606) 783-2084.

**You will receive your Bachelor of University Studies degree after you:**

1. Complete a minimum of 128 semester hours of prescribed and elective college credit, 43 semester hours of which must be courses numbered 300 or above.
2. Earn a minimum cumulative GPA of 2.0 on all work completed at the University.
3. Complete at least 32 semester hours at Morehead State University, with the last 16 hours preceding graduation earned from MSU. Correspondence courses do not satisfy this requirement.
4. Complete 48 semester hours of general education courses. See the general education course requirements for Bachelor's Degree Requirements.
5. Complete a one credit hour MSU 101: Discovering University Life course during the first semester if the student begins as a freshman or transfers to MSU with less than 24 credit hours.

## Associate Degree Requirements

**You will receive your associate degree after you:**

1. Complete a minimum of 64 semester hours of prescribed and elective college credit. See the academic programs section of this catalog for the specific requirements of your associate degree program. A prescribed program is not required for the Associate of University Studies degree.
2. Earn a minimum cumulative GPA of 2.0 on all work at the University.
3. Complete at least 16 semester hours at Morehead State University, including one semester preceding graduation. Correspondence courses do not satisfy this requirement.
4. Complete a one credit hour MSU 101: Discovering University Life course during the student's first semester if the student begins as a freshman or transfers to MSU with less than 24 credit hours.
5. Complete 21 semester hours of general education requirements as follows:

## General Education Courses

*Writing I (100 level)* ..... *3 hours*
ENG 100 – Writing I
*Writing 2* ..... *3 hours*
ENG 200 – Writing II
*Oral Communications (100 level)* ..... *3 hours*
CMSP 108 – Fundamentals of Speech Communication
*Math Reasoning (100 level)* ..... *3 hours*
*Choose one course from the following list:*
MATH 123 – Introduction to Statistics;
MATH 131 – Mathematical Reasoning and Problem Solving;
MATH 135 – Mathematics for Technical Students;
MATH 141 – Trigonometry;
MATH 152 – College Algebra;
MATH 174 – Pre-Calculus, or;
MATH 175 – Calculus I
*Computer Competence* ..... *3 hours*
*Choose one course from the following list:*
AGR 261 – Information Acquisition & Analysis;
ART 109 – Introduction to the Computer in the Visual Arts;
CIS 101 – Computers for Learning;
CMAP 166 – Desktop Publishing & Publication Techn. I;
CS 170 or MATH 170 – Introduction to Computer Science;
EDUC 222 – Computing Tools for Educators;
IET 110 – Fundamentals of Computer Technology;
MUSE 215 – Microcomputers and Music;
RAPP 200 – Basic Computer Tech. in Regional Analysis; or
SCI 110 – Introduction to Scientific Computing

*Humanities* ..... *3 hours*
*Choose one course from the following list:*
ART 263 or IST 263 – Art History I
ART 264 or IST 264 – Art History II
ART 265 or IST 265 – Art History III
CMEM 210 – Media Literacy
CMSP 350 or IST 350 – Comm., Culture and Diversity
CMSP 383 – Small Group Communication
CMSP 390 – Conflict and Communication
ENG 120 or WST 120 – Approaches to Literature
ENG 205 – Language: Culture and Mind
ENG 211 or IST 211 – Introduction to World Literature I
ENG 212 or IST 212 – Introduction to World Literature II
ENG 293 – Introduction to Creative Writing
FNA 160 – Understanding the Visual Arts

FRN 101 – Beginning French I
FRN 205 or IST 205 – French Culture and Civilization
GOVT 180 or WST 210 – Introduction to Political Theory
HIS 201 or IST 201 – Global Studies
HIS 202 – American Studies
HUM 170 – Introduction to Film
HUM 203 – Medieval Culture
IST 201 – Global Studies, (crosslisted with HIS 201)
MUSH 261 – Music Listening
MUSH 361 – History of Music I
MUSH 362 – History of Music II
PHIL 200 – Introduction to Philosophy
PHIL 203 – Social Ethics
PHIL 306 – Introduction to Logic
PHIL 333 – Environmental Ethics
PHIL 355 – Ancient and Medieval Philosophy
PHIL 356 – Modern and Contemporary Philosophy
SPA 101 – Spanish Language and Culture I
SPA 102 – Spanish Language and Culture II
THEA 110 – Fundamentals of the Theatre

*Social and Behavioral Sciences ..... 3*
*Choose one course from the following list:*
AGR 204 or IST 204 – World Food
ECON 101 – Introduction to Economics
ECON 102 – Economic History of the United States
ECON 201 – Principles of Macroeconomics
ECON 202 – Principles of Microeconomics
EDF 211 – Human Growth and Development
GEO 100 – Fundamentals of Geography
GEO 300 or IST 300 – World Geography
GOVT 141 – United States Government
GOVT 230 – Introduction to Comparative Politics
GOVT 362 or IST 362 – Current World Problems
HIS 210 – Early World Civilization
IET 300 – Technology and Society
IMS 300 or NURS 300 – Ethical & Legal Issues in Hlth Care
PSY 154 – Introduction to Psychology
PSY 156 – Lifespan Developmental Psychology
RAPP 201 – Introduction to Regional Analysis
SOC 101 – General Sociology
SOC 203 – Contemporary Social Problems
SOC 273 or WST 273 – Introduction to Women's Studies
SOC 305 or IST 305 or WST 305 – Cultural Anthropology
SOC 354 – Individual and Society

## Associate of Arts in University Studies Degree Requirements

Except for the 21 hours of general education requirements and the one credit hour MSU 101: Discovering University Life, no prescribed program of study is required for this degree. You may take a wide variety of subjects or concentrate all studies beyond the general education requirements in a single discipline. All other associate degree requirements must be met. (See associate degree requirements above.) For more information, see your advisor or the Director, Academic Advising and Career Services, 220 Allie Young Hall, (606) 783-2084.

## Second Degree Requirements

If you have earned a degree from Morehead State University or any other accredited college or university, you may earn a second bachelor's degree or associate degree by completing program requirements approved by your major department and the following minimum requirements.

**For a second bachelor's degree, you must:**

1. Hold an acceptable bachelor's degree from an accredited college or university.
2. Complete a program of study approved by the head of your major department, including at least 32 new semester hours earned at Morehead State University. Of these 32, a minimum of 15 semester hours must be earned to complete a new major or area of concentration.
3. Earn a minimum of 2.0 GPA in all course work presented to complete the program, in all course work completed at Morehead State University, and in all course work in a major, minor, or area of concentration.

**For a second associate degree, you must:**

1. Hold an acceptable associate or higher degree from an accredited college or university.
2. Complete a program of study approved by the head of your major department, including at least 16 new semester hours (at least 12 must be earned at Morehead State University). At least nine of the 16 semester hours earned must be in courses in a new prescribed associate degree program.
3. Earn a minimum of 2.0 GPA in all course work presented to complete the program, in all course work completed at Morehead State University, and in all course work in the new prescribed associate program.

## Assessment

Morehead State University uses various tests and survey instruments to assess student progress and to evaluate academic programs and services. The types of assessment used by each academic program are listed in this catalog along with other program requirements.

All seniors must take an exit examination of general education skills before they will be allowed to file for graduation. This test will be administered in the senior capstone course, at no cost to the student, on announced dates during the semester. All students are expected to participate in both University-wide and departmental assessment activities. For further information about requirements, contact the Office of Undergraduate Programs, 701 Ginger Hall, (606) 783-2004.

## Academic Regulations and Procedures

### Registration

To register, you must be admitted to the University. Registration information for new students are available at the Office of Admissions.

## Student Orientation, Advising, and Registration

New freshmen or transfer students enrolling for the fall semester are encouraged to participate in the summer Student Orientation, Advising, and Registration (SOAR) program. The day's activities provide an overview of the educational opportunities and facilities of the University. Students will also meet with academic advisors and register for classes for the fall semester.

New Student Days orientation programs are also held during the regular fall and spring registration periods. All new freshmen and transfer students, including those that attended the summer orientation, are required to attend the fall program. Students are notified of the specific dates and times of these activities upon their acceptance to MSU by the Office of First Year Programs and Retention.

## Late Registration

Students are encouraged to register according to the timetable in the published Directory of Classes. Late registrants are assessed a $75 late registration fee and often encounter scheduling difficulties. After the scheduled enrollment period, students registering for the first time must report to the Office of Admissions, 100 Admissions Center. Returning students must reapply in the admissions office and process registration in the department of the major.

## Change in Schedule

Schedule changes include adding and dropping a course, changing from one course section to another, changing the number of credits involved in any course, or changing from audit to credit or from credit to audit. Any schedule change must be approved by the student's advisor and be recorded with the Registrar as a drop/add. Deadlines for making schedule changes are published in the current Directory of Classes.

After the published date, full term courses may be dropped only because of documented circumstances. Approval of the dean of the college in which the student is majoring is required.

## Course Load

To be classified as full-time, a student must enroll for at least 12 semester hours in a regular semester and four semester hours in a summer term. Audited and correspondence courses do not contribute toward a full-time load. The maximum load a full-time undergraduate student may carry during any semester is 18 credit hours including audited courses.

Enrollment in 19 to 21 credit hours is considered an overload. Undergraduate students desiring to register for an overload must:

1. Have a 3.25 in the previous semester or overall cumulative GPA.
2. Have the approval of the academic advisor and the appropriate college dean.
3. Pay additional tuition per credit hour over 18 hours.

It is expected that no student shall be allowed to enroll in more than 21 hours in a regular semester and seven hours in a summer session.

## Undergraduates Enrolling for Graduate Credit

A student in the final semester of undergraduate study at MSU who has a minimum GPA of at least 2.5 may apply to enroll concurrently in courses for graduate credit not to exceed a total of 12 semester hours (undergraduate and graduate combined). If the work for a baccalaureate degree is being completed dur ring a summer term, the combined course load is not to exceed six semester hours. Application for permission to take graduate courses is made to the Dean of Graduate Programs prior to registration. Forms are available in the Graduate Office.
Seniors taking graduate courses pay undergraduate fees. If for any reason requirements for the baccalaureate degree are not completed during the term in question, no further permission will be given to register for graduate courses until the requirements for the baccalaureate degree have been met and regular admission to graduate study has been granted.

## Student Classification

Classification is determined by the number of credit hours, including transfer work, successfully completed. The classifications are 0-29 hours, freshman; 30-59 hours, sophomore; 60-89 hours, junior; 90 hours and above, senior.

## Course Numbering

Courses numbered below 100 are developmental courses. These courses carry credit which is counted in the student's load. The grade earned is computed in the student's GPA. However, credits earned do not count toward program or general education requirements, and they do not count toward the minimum hours required for graduation. Courses numbered as follows:

| | |
|---|---|
| 100-199 | Freshman courses |
| 200-299 | Sophomore courses |
| 300-399 | Junior courses |
| 400-499 | Senior courses |
| 500-599 | Senior/graduate courses |
| 600-699 | Graduate courses |

Generally, courses may be taken only one level above a student's present classification except for 500-level courses which may be taken only by seniors and graduate students. Courses may be taken at any level below a student's present classification.

A course numbered 500 will be taught at the undergraduate level, and graduate students enrolled must meet additional course requirements to receive graduate credit for the course. A statement of these requirements will be provided with the course syllabus.

## Repeating Courses

Undergraduate students are permitted to repeat any course regardless of the grade received. Only the grade received on the last attempt is computed in the overall GPA. This practice applies to MSU and is not necessarily the way other institutions might compute the cumulative GPA upon transfer.

MSU courses for which a failing grade has been received must be repeated in residence unless prior approval has been received from the MSU department head. A failing grade may not

be removed by correspondence study or proficiency testing unless approved in advance by the department head and dean of the college in which the course was offered.

Students wishing to repeat courses must file a Repeat of Course Option with the Registrar's Office at the time of enrollment in the course to be repeated. Cross listed courses can only be taken once for credit. If a cross listed course is taken a second time using the different prefix it will be considered a repeat.

## Auditing Courses

An auditor is a student who enrolls and participates in a course without expecting to receive academic credit. The same registration procedure is followed and the same fees are charged as courses taken for credit. An audited course is not applicable to any degree. Audit enrollment will not be considered a part of the minimum number of hours required to determine full-time status or normal load. Audit enrollment will be counted in determining overload.

Regular class attendance is expected of an auditor. Other course requirements, which may be obtained in writing from the instructor, will vary depending on the nature of the course. Students interested in auditing a course should contact the instructor and discuss course requirements prior to enrolling. Failure to meet audit requirements for the course may result in the auditor being withdrawn from the course at the request of the instructor with a "WY" (Audit Withdrawal) entry made on the student's transcript. A successful audit will be recorded on the transcript with the designation "Y." Any change from audit to credit must be done by the last day to add a class. Changes from credit to audit must also be done by the last day to add a class. Deadlines for changes of registration status are published in the current Directory of Classes. Refunds for withdrawals from audited courses will be prorated on the same basis as refunds for withdrawals from courses taken for credit.

## Attendance

Prompt and regular class attendance, being essential to the learning experience, is the responsibility of all students. More specific attendance policies may be established by individual course instructors and must be distributed to students in written form during the first week of the session. A copy of the policy will be kept on file by the department chairperson.

## Absence

Students missing class because of legitimate reasons must consult with the instructor concerning the absence, preferably beforehand. Legitimate absences do not excuse the student from class responsibilities. Some examples of absences that may be excused by the instructor are illnesses, accident, personal emergency, death in the immediate family, special academic programs, or an authorized University function for which the student's presence is required. Students who feel that they have been unjustly penalized by an instructor's attendance policy or by the instructor refusing to accept an excuse may follow the academic grievance procedures outlined in the student handbook.

Student athletes are required to confer with their coaches and advisors prior to the start of a semester in order to choose required classes that minimize class and athletic event conflicts. When conflicts are unavoidable they should be kept to a reasonable number per semester. Faculty should be advised of specific conflicts by the student athlete within the first week of the semester. If the athletic event schedule changes after the first week, it is the student's responsibility to notify faculty promptly. When the nature of the work missed is such that it can feasibly be made up, students must make arrangements with faculty to do so.

## Final Examinations

Any student with more than two final examinations scheduled on any one date is entitled to have the examination for the class with the lowest catalog number rescheduled at another time during the final examination period. If a suitable arrangement cannot be made between the student and the instructor then the next highest number may be rescheduled. In case the lowest number is shared by more than one course, the one whose department prefix is first alphabetically will be rescheduled. The option to reschedule must be exercised in writing to the appropriate instructor two weeks prior to the last class meeting.

## Withdrawals

To withdraw from the University, a student must complete a withdrawal form at the Office of the Registrar. It is important for a student's academic record to reflect an official withdrawal; entitled refunds are not made unless the withdrawal is properly recorded.

## Grades
## Marking System and Scholastic Points

The evaluation of the academic work of undergraduate students is indicated by letters as follows:

**A – Excellent –** Valued at four quality points per semester hour.

**B – Good –** Valued at three quality points per semester hour.

**C – Average –** Valued at two quality points per semester hour.

**D – Below average –** Valued at one quality point per semester hour.

**E – Failure –** No semester hours earned and no quality points.

**I – Incomplete –** Given only when a relatively small amount of work is not complete because of illness or other reasons satisfactory to the instructor. Incompletes must be made up by midterm of the following semester (summer school excluded).

**IP – In progress –** Course work has not been completed, and the student must register for same course the following semester; no credit hours or quality points (restricted to approved courses).

**K – Credit, pass-fail course –** Semester hours earned; no quality points; not computed in GPA.

**N – Failure, pass-fail course –** No quality points; computed in GPA.

**P – Withdrew from school passing –** Not computed in GPA.

**F – Withdrew from school failing –** Computed in GPA as credits attempted.

**R – Course repeated –** Replaces original grade for repeated course; not computed in GPA.

**U – Unofficial withdrawal –** Computed as credits attempted; computed as zero quality points in GPA calculation.

**W – Withdrew officially –** No hours attempted; not computed in GPA.

**WY – Withdrawal from audit class –** Not computed in GPA.

**Y – Audit credit –** No hours attempted; not computed in GPA; not applicable to degree program.

## Pass-Fail

The purpose of the pass-fail option is to let you explore elective courses outside your area of specialization without engaging in grade competition with students specializing in those courses. Apply at the office of the dean of your first major by the last day to add a class.

**Requirements include the following:**

1. A minimum of 2.5 cumulative GPA for 30 hours earned at MSU. You are eligible as a transfer student with a minimum of 30 hours, if at least 12 hours were earned at MSU, and you have a 2.5 GPA on the work completed at MSU.
2. A maximum of 15 hours may be applied toward the total number of hours required for the bachelor's degree; six hours may be applied toward associate degree requirements.
3. The pass-fail option is applicable only to free elective courses. These include courses not required for your area, major, minor, or general education requirements.
4. Each semester you may use the pass-fail option for one course (for any number of hours of credit), or a combination of courses totalling up to three hours.
5. Hours earned in pass-fail work are added to your total hours passed but do not affect your GPA. Any grade of "D" or above is considered passing and is designated by "K." A failing grade is designated by "N."
6. You may change course registration status from pass-fail to the conventional letter grading system, and vice versa, during the normal period to add a course.
7. You cannot transfer hours earned under the pass-fail option into any degree program.
8. Your status under the pass-fail option is not identified to instructors. Instructors assign a conventional letter grade and the registrar converts the assigned letter grade to a "K" or "N," as applicable.
9. Pass-fail credit may not be applied to a second degree.

## Honors

**Academic Dean's List.** To be eligible, you must have passed at least 12 undergraduate hours and have earned at least a 3.5 GPA for the current semester.

**Graduating with Honors.** Formal recognition is given to two-year and four-year graduates who have achieved academic excellence. Baccalaureate degree recipients who complete at least 43 hours at MSU with an MSU GPA of 3.50 to 3.69 graduate Cum Laude; 3.70 to 3.89 graduate Magna Cum Laude; and 3.9 to 4.00 graduate Summa Cum Laude. Associate degree recipients who complete a minimum of 32 semester hours at MSU and earn a cumulative GPA of 3.60 or better graduate with distinction. Only work completed at MSU is used in computing GPA.

## Grade Reports

Grades will be available on the student's Web account no later than Wednesday following the end of the term.

## Transcripts

Request official transcripts in writing to the Office of the Registrar, 201 Ginger Hall or online at www.moreheadstate.edu. Requests received by noon are ready for pickup or mailing by noon of the next working day. Official transcripts are $4 each.

## Student Records

In accordance with the Family Educational Rights and Privacy Act and Morehead State University policy, non-directory information from your official cumulative file may not be released without your written consent except to persons engaged in the proper performance of University duties.

You also have the right to inspect, review, and challenge all official educational records, files, and data directly related to you. Request for access to such records must be in writing to the Registrar, MSU, 201 Ginger Hall.

Questions concerning this law and the University policy may be directed to the Office of the Registrar, 201 Ginger Hall. See page 296 for the full text of the regulation regarding access to records.

## Scholastic Standing

To continue enrollment at MSU, students must maintain certain GPA standings according to the number of credit hours they have attempted. Students are eligible to register if they meet the following minimum cumulative scholastic levels:

1. A 1.6 MSU cumulative GPA if 16 or fewer semester hours have been attempted.
2. A 1.7 MSU cumulative GPA if 17-30 semester hours have been attempted.
3. A 1.8 MSU cumulative GPA if 31-45 semester hours have been attempted.
4. A 1.9 MSU cumulative GPA if 46-60 semester hours have been attempted.
5. A 2.0 MSU cumulative GPA if 61 or more semester hours have been attempted.

**Academic Probation.** Students failing to meet the scholastic standards listed above are placed on Academic Probation I. Students who fail to meet the academic standards for a second consecutive semester are placed on Academic Probation II. At the end of each academic term, the Registrar provides a grade report that reflects grades for the term and the Morehead State University cumulative grade point average. A student on either Academic Probation I or II may enroll in no more than 13 semester hours of course work during each semester and for no more than three semester hours of coursework during each summer session.

Students on academic probation should retake as many classes as possible in which they earned a grade of "E," "D," or "U." Students on academic probation will be required to meet with their advisor for academic counseling. A student on academic probation is allowed continued enrollment for two semesters or as long as a 2.0 GPA is earned in the most recent semester. Students on Academic Probation II must enroll in MSU 099.

**Suspension.** A student who has been placed on both Academic Probation I and II who does not earn the grade point average specified above or who fails to earn a 2.0 GPA in the most recent semester on academic probation will be suspended from the University. The suspension period following a fall semester is the spring semester; following a spring semester the suspension period is the fall semester. During a dismissal period, a student will be ineligible to enroll for any credits at Morehead State University.

Students suspended under this policy have the following two options:

1. They may re-enroll after the lapse of one semester (excluding summer school); At the time of re-enrollment such students will automatically be placed on academic probation.
2. They may appeal by petitioning a hearing before the Committee on Academic Standards and Appeals if the student believes the suspension was the result of circumstances beyond his or her control. If an appeal of the suspension is granted, the student must meet all additional requirements set forth by the Committee on Academic Standards and Appeals. The committee may, in some cases, waive the requirement that the student have attempted 48 hours before declaring academic bankruptcy. Requests for appeals are made in writing to the Office of Undergraduate Programs, 701 Ginger Hall.

## Academic Bankruptcy

Academic bankruptcy allows undergraduates with an unacceptable GPA to drop one semester's work from consideration for MSU general education degree or program requirements.

Undergraduate students who are granted bankruptcy status forfeit credit for all courses in the bankrupt semester. The grades and credit hours earned during that semester are disregarded for MSU requirements, but the notation "academic bankruptcy" appears on the transcript beneath the semester's work.

Undergraduate students declared eligible for bankruptcy forfeit credit for only one specified semester of pre-baccalaureate study. Bankruptcy cannot be revoked once it has been granted.

**Eligibility.** Only hours attempted at Morehead State University are considered for bankruptcy; transfer hours are excluded.

**Requirements for academic bankruptcy:**

1. A student must apply for bankruptcy before completing a baccalaureate degree at MSU.
2. The student must have attempted at least 48 semester hours at MSU.
3. For the term in question, a student must have a GPA of at least 1.0 under the cumulative average for all other hours attempted at MSU.

**Procedure.** To apply for academic bankruptcy, request an Academic Bankruptcy Form in the Office of the Registrar. Complete the form, have it signed by your academic advisor and/or department head, and take it to the Registrar for verification of eligibility. The Registrar will notify you, your advisor, and/or head of your department in writing whether or not you are eligible.

If you are ruled ineligible and want to appeal, request reconsideration at the Office of the Provost, 205 Howell-McDowell.

## Academic Grievance Procedure

It is recommended the student discuss any academic complaint with the person involved. If the complaint is not resolved at the instructor level, or if the student feels it is not practical to contact the instructor, the student may present the complaint to the chair of the department to which the instructor is assigned. If the complaint involves a final grade, the student must take the complaint to the faculty member within the first two weeks of the beginning of the following semester. If the student is not enrolled the subsequent semester, a letter of inquiry should be mailed to the instructor and the instructor's department chair within the first two weeks of the beginning of the following semester. Upon receipt of the response from the instructor, the student has 30 days to file a formal complaint.

Prior to any action by the department chair, the student will be required to complete a Student Grievance Form. The form is available in the Office of the Provost and should be completed and returned to the chair of the department involved. Upon receipt of the Student Grievance Form, the department chair will request from the instructor a response in writing, addressing the questions raised by the student. Within one week after the written grievance is filed in the department chair's office, a meeting will be arranged. The instructor, the student filing the grievance, the department chair, and the dean of the responsible college will be in attendance. The student may have his or her academic advisor or a faculty member of the student's choice present. It will be the purpose of the department chair and the respective college dean to review the grievance and attempt to mediate a settlement. The department chair's and the college dean's recommended solution is to be considered by both the faculty member and the student as a recommendation and not as a decision that is binding. Records of this meeting, including recommendations by the department chair and college dean, will be sent to the Provost and to all parties concerned.

If the recommendations presented by the department chair and the college dean are not acceptable to the student, he or she may appeal to the Academic Standards and Appeals Committee. The student must petition a hearing before this committee within one week following the meeting with the college dean and the department chair. Requests are to be in writing and made to the Provost. If the procedure has been followed, the Provost will submit to the chair of the committee records of all action to date. Within two weeks following the application of appeal, the committee will meet and review data and previous recommendations. The committee may request additional information and/or the par-

ties involved to appear before the committee. The committee's decision will be sent to the Provost, with a copy being sent as a matter of record to the student, faculty member, department chair, and the faculty member's college dean. The Provost is responsible for enforcing the committee's decision. The committee's decision is final.

It is understood that anyone may appeal to the President of the University when due process has been violated or when individual rights are disregarded.

## Academic Honesty Policy

All students at Morehead State University are required to abide by accepted standards of academic honesty. Academic honesty includes doing one's own work, giving credit for the work of others, and using resources appropriately.

## Guidelines for Dealing with Acts of Academic Dishonesty

If a faculty member suspects that a student is guilty of a breach of the standards and chooses to pursue disciplinary action through University channels, the faculty member should:

1. Hold a conference with the student to attempt to address the problem.
2. If the student is determined to be guilty of the charge, the faculty member should issue the sanction. The sanction may include failure of a particular assignment or exam, failure of a particular class, or any other appropriate disciplinary action.
3. If a sanction is imposed on the student, then the faculty member is expected to: report in writing to the department chair the details of the incident, the results of the student/faculty member conference, and the sanction issued. A copy of this report should be forwarded to the appropriate college dean and to the Dean of Students. (The Dean of Students is responsible for maintaining and safeguarding all University discipline records and for ensuring their confidentiality. A central record of all acts of academic dishonesty and plagiarism ensures that a student will be held accountable for subsequent violations.)
4. If the Dean of Students has on file for particular student(s) previous violations of the code, this information is to be sent to the faculty member and department chair.
5. If the faculty member and department chair determine that the severity of the academic dishonesty or the fact or nature of previous violations by the same student(s) warrants further disciplinary action, a request for further action should be made in writing to the Dean of Students. The Dean of Students will review the submitted material and hold an investigative hearing with the student(s) involved. At this time, the Dean of Students will determine if further disciplinary action is warranted.
6. The Dean of Students will report, in writing any additional disciplinary actions taken to the college dean, the department chair, the Provost, the faculty member making the charges, and student(s) being charged.
7. Nothing in this policy shall prevent or prohibit the student(s) charged from making an appeal of the disciplinary action administered.

## Sexual Harassment Policy

PURPOSE: To establish the University's policy on sexual harassment and the procedures for acting on claims of sexual harassment.

APPLICATION: This policy applies to all employees and students of the University, including volunteers, guests and subcontractors of the University.

Nothing contained in this policy shall be construed to supplant or modify existing laws of the Commonwealth of Kentucky and the United States. This policy shall not be used to remedy acts which are crimes under the laws of the Commonwealth of Kentucky or the United States.

DEFINITION: Sexual harassment (which includes harassment based upon gender) violates the standards of civility for societal conduct, subverts the mission of the University, and violates both state and federal laws and regulations. In its most serious forms, it may threaten the careers of students, staff and faculty and will not be tolerated at Morehead State University.

### For the purposes of this policy, sexual harassment is defined as follows:

Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature constitutes sexual harassment when: (1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic advancement; (2) submission to or rejection of such conduct by an individual is used as the basis for employment decisions or academic decisions affecting such individual; (3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment.

Because the mere allegation of sexual harassment may be devastating to the careers and reputations of all parties, justice requires that nomenclature be uniform, that a clear policy concerning consensual relationships be established and that a fair, and well-understood procedure be adopted to carry out University policy.

Although sexual harassment may occur between persons of the same University status, i.e. student-student, faculty-faculty, the most invidious form of sexual harassment is that which occurs when power inherent in a faculty member, administrator, or supervisor's relationship to students, advisees, or subordinates is unfairly exploited: that is, where sexual harassment takes place in part because of a power differential which occurs between faculty and student or supervisor and subordinate. (Throughout this policy, the term "faculty" or "supervisor" should be read to include any position of influence and/or authority.)

Because of the volatile nature of a claim of sexual harassment, the procedures set forth below use the term "complainant" for the person making the claim of sexual harassment and "respondent" for the person against whom such claim is made. These terms

should be used throughout both the informal and formal procedures for resolving such claims to ensure the dignity of all parties.

CONSENTING RELATIONSHIPS: Consenting romantic and sexual relationships between faculty/staff and student or between supervisor and employee are a fact of the adult University community. Nevertheless, while such relationships are not forbidden, they may be deemed unwise – especially in situations in which there is a power differential between the superior and subordinate, as in a faculty member's power to confer grades, praise, etc. Therefore, all individuals are specifically warned against the possible costs of even an apparently consenting relationship. A faculty/staff member who enters into a sexual relationship with a student or a supervisor with a subordinate, where a professional power differential exists, must realize that, if a charge of sexual harassment is made, it will be exceedingly difficult to prove immunity on grounds of mutual consent. In other words, the University body charged with investigating or adjudicating claims of sexual harassment may be expected to be somewhat unsympathetic to a defense based upon consent where the facts establish that a faculty/staff-student or supervisor-subordinate power differential exists.

Sanctions for violation of Morehead State University's sexual harassment policy may include termination of employment with the University, or, in the case of students, dismissal. Retaliation against any complainant is prohibited and the sanctions for such retaliation may be as severe as the sanctions for perpetration of the sexual harassment itself.

PROCEDURES FOR RESOLVING SEXUAL HARASSMENT COMPLAINTS: The policies and procedures set forth herein constitute the exclusive remedy for sexual harassment at Morehead State University. Although the policy against sexual harassment is uniform throughout the University, the procedures for resolving a complaint vary by the nature of the relationship between the complainant and the respondent and by whether the complainant chooses to try first to resolve matters through the informal procedures outlined below.

Although the President of the University, as the chief executive officer, is ultimately responsible for enforcement of University policy, two individuals (and their designees) share the responsibility as the primary persons for coordinating enforcement of the sexual harassment policy promulgated herein. Each official will also have as an alternate designee, a person of the opposite gender. This will allow all complainants a choice of the gender to whom one wishes to bring a complaint.

Depending upon the relationship of the complainant and respondent, the officials responsible for enforcement of the sexual harassment policy are as follows:

a. Where both parties are students - the Vice President for Student Life or designee.
b. Where the complainant is a student (and the complaint does not involve the individual's status as an employee or workship) and the respondent is any other University employee, or where the complainant is an employee (regardless of whether that employee is also a student), and the respondent is any other person - the Affirmative Action Officer or designee. The Chair of the Affirmative Action Committee may be asked to assist with investigating the complaint if deemed advisable.

Should the complainant or respondent be one of the officials named above, the matter would be referred to the President for designation of an appropriate official to coordinate enforcement of this sexual harassment policy.

As often as is practicable, the names of the officials and their alternate gender designees shall be published in *The Eagle Student Handbook, The Trail Blazer, Update, Handbook for Administrative, Professional, and Support Staff* and other appropriate University publications.

Because of the changing nature of men and women in the workplace and the years of reinforcement of societal norms which resulted in workplace domination of women by men, it is quite probable that some sexual harassment is unintentional or derives from ignorance, lack of education, or general insensitivity. While the effect on the complainant is the same whether the sexual harassment is intentional or not, part of the purpose of a sexual harassment policy is to heighten awareness of the problem and seek education and sensitivity training for those who may engage in it unintentionally. Also, there are circumstances in which misunderstandings develop and the necessity for formal action is obviated once all of the facts become known. Therefore, all potential complainants are invited to use the following informal procedure to resolve sexual harassment complaints. However, it is not the intent of Morehead State University to require any complainant to use informal means to remedy sexual harassment. Where a complainant feels that the informal process is futile, uncomfortable, or unnecessary, he or she may resort directly to the formal process set forth below.

INFORMAL COMPLAINT PROCEDURE: To begin the informal procedure, the complainant should simply notify, orally or in writing, the Vice President for Student Life or the Affirmative Action Officer. The selected official should invite the complainant to meet (with the official or designee) at the earliest possible time and the official should be sensitive to the fact that the meeting may need to take place after normal working hours so as to prevent disclosure to a supervisor or others. The official should listen fully to the complaint and offer his or her services in resolving the complaint informally. The University will ensure that the officials designated to receive complaints will have had training in sexual harassment counseling and arbitration. The official (or designee) should offer several possible options described below. In any case, the option(s) chosen should be with the complete approval of the complainant. Additionally, the complainant may drop the complaint at any time. Among the informal options available are:

1. The official should offer to talk directly with the respondent (out of the presence of the complainant).
2. The official should offer to talk with the respondent's supervisor up to and including the appropriate vice president.
3. The official should offer the complainant the option of writing a letter to the respondent. The letter should be hand delivered or sent to the respondent at the respondent's place of business by certified, return-receipt mail. The let-

ter should give a factual account of what happened, a description of how the complainant feels about what happened and what corrective action should be taken. This informal technique may result in the official taking the action specified in options 1 and 2, above.

Unless the complainant exercises the "letter option," it shall be expected that the resolution of the problem on an informal basis shall be completed within ten working days of notification. If the letter option is used, the informal process should be completed within 20 working days. These times are only guidelines since the complainant may abandon the informal process at any time.

FORMAL COMPLAINT PROCEDURE: Should the complaint not be resolved on an informal basis, or should the complainant choose directly the remedy of a Formal Sexual Harassment Complaint, the complainant must file a written statement with the appropriate official designated above. The statement will be called a "Formal Sexual Harassment Complaint." The Complaint must be in writing and must contain, at the minimum, the following facts:

1. The name, address and telephone number of the complainant.
2. The full name, address and telephone number of the respondent, if known.
3. The date upon which the sexual harassment occurred, or if continuing, the date upon which the harassment started.
4. The exact nature of the sexual harassment described in plain English. (It is not sufficient simply to state that one was verbally or physically harassed nor is it acceptable to simply repeat the prohibitions against sexual harassment stated in the official University policy.) The complainant may use as many paragraphs as he or she wishes to explain in as much detail as possible the nature of the harassment.
5. The steps, if any, which were taken to stop the harassment or resolve the problem. (It is not necessary that any steps have been taken. The University recognizes that some victims of sexual harassment may feel they have no viable options to stop the harassment.)
6. The names of any persons whom the complainant believes may have knowledge which would be helpful to the resolution or understanding of the nature of the complaint.
7. The names or titles of any persons who should not be contacted regarding the complaint without the express permission of the complainant.
8. The nature of any immediate action which must be taken to protect the complainant from retaliation or further sexual harassment.
9. What ultimate action the complainant requests of the University, e.g., transfer of the complainant, dismissal or transfer of the respondent, etc.
10. The complaint must be signed by the complainant.

Each official is required to assist any prospective complainant in the completion of the complaint. It is the responsibility of the complainant to ensure that the complaint reaches the appropriate official, preferably by hand delivery by the complainant so as to assure receipt by the Vice President for Student Life or the Affirmative Action Officer (or their designees). The receiving official must then determine if emergency action must be taken to protect the complainant or respondent. After such actions are taken, the official should begin to investigate the complaint. Throughout the investigation process, to the extent possible, confidentiality will be maintained as to the identities of the parties. However, it must be recognized by the complainant that anonymity cannot be maintained from the respondent.

After the receiving official takes any necessary remedial action, a copy of the complaint will be hand-delivered to the respondent by the official. A copy of the complaint will also be forwarded to the President. Within ten working days of receipt of the complaint, the respondent may serve an answer in written form to the official. A copy will be given to the complainant and the President. After receipt of the response by the official, the official will have 15 working days to investigate the claim pursuant to the instructions contained in the Sexual Harassment Investigation Handbook. At the end of that time, the official will render such findings and report as the facts warrant. A copy of the report will be provided to the parties and the President. If the official believes the claim to be frivolous, he or she shall so state, and, if the President concurs, the claim will be dismissed as a final action by the President pursuant to state and federal law.

If not dismissed as frivolous, the claim may end at this point with the implementation of the sanctions or other relief recommended to the President. If either party disagrees, a hearing may be requested – said hearing to be conducted by an ad hoc committee entitled "Sexual Harassment Grievance Committee." The Committee shall consist of six members, five voting members and a Chair who will vote only in case of a tie. The Committee shall consist of three men and three women selected by the President from slates of four each submitted by the Faculty Senate, Staff Congress, and Student Government Association. Other than the gender requirement, the President may select any number from any of the slates, provided there is at least one member of the Committee from the complainant's representative group and one member from the respondent's representative group, i.e., if complainant is a student, there must be at least one student member on the Committee.

Unless the parties otherwise agree, the hearing before the Committee will take place within 30 days of the formation of the Committee. The proceedings will be tape-recorded. A quorum of four members is required. The only witnesses who may be heard are the parties, who will be sworn by a notary public. Any additional evidence either side wishes to submit may be submitted in writing provided that sufficient reasons exist as to why such documents were not given to the investigating official and provided that such documents are submitted to the opposite party and the Committee within five working days prior to the hearing.

The Committee shall have five working days, exclusive of the day of hearing, within which to render its report. A copy will be sent to the President, the complainant and the respondent. The report will be recommendatory to the President. The President shall then render a decision within ten working days after receiv-

ing the report and recommendations from the Sexual Harassment Grievance Committee. If the decision substantiates the claim made by the complainant, the decision (not the investigative report) will be forwarded to the Director of Human Resources and appropriate supervisors. The investigative report will be kept in the Affirmative Action Officer's files.

## Academic Outreach and Support

### Regional Campuses

Morehead State University maintains five regional campus centers in Ashland, Jackson, Mount Sterling, Prestonsburg, and West Liberty for the purpose of providing higher education access to place-bound and time-bound students who are geographically remote from the University's campus in Morehead. The University offers 75 percent or more of the following undergraduate programs at the sites identified below and on the next page.

**MSU at Ashland**
1400 College Drive, Suite L 272
Ashland, KY 41101
(606) 783-2901; (606) 327-1777 or 1-800-648-5370
BA (Elementary & Middle Grades Education)
BBA (Management, Accounting & Computer Info. Systems)
BS (Nursing)
Bachelor of Social Work
Bachelor of University Studies

**MSU at Jackson**
Breathitt County Life Skills Center
1127 Main Street
Jackson, KY 41339
(606) 783-2940; (606) 666-2800 or 1-800-729-5225
BA (Elementary Education)
BBA (Management, Accounting & Computer Info. Systems)
Bachelor of University Studies

**MSU at Mt. Sterling**
Clay Community Center
3400 Indian Mound Drive
Mount Sterling, KY 40353
(606) 783-2078; (859) 499-0780 or 1-866-870-0809
AA University Studies
Bachelor of University Studies
Bachelor of Social Work
AAS (Nursing)

**MSU at Prestonsburg**
6 Bert Combs Drive
Prestonsburg, KY 41653
(606) 783-5421; (606) 886-2405 or 1-800-648-5372
BA (Elementary & Middle Grades Education)
BBA (Management, Accounting & Computer Info. Systems)
BS (Nursing)
BS (Social Work)
Bachelor of University Studies

**MSU at West Liberty**
155 University Drive
West Liberty, KY 41472
(606) 783-5381; (606) 743-1500 or 1-800-648-5371
AA (University Studies)
Bachelor of University Studies

**University Center of the Mountains**

Morehead State University**,** in partnership with Eastern Kentucky University, Hazard Comunity and Technical College, and the Kentucky Commuity College and Technical System, formed the University Center of the Mountains to serve as an umbrella bringing new degrees and continuing with existing four year degree programs between the partners. For information about MSU programs call (800) 729-5225.

## Distance Learning

Morehead State University offers numerous distance learning classes, through advanced technology, to students in the region. Undergraduate classes are available at compressed video sites within the University's service region and via the Internet. Students can also earn credit through telecourses and correspondence courses. Students earn credit toward a degree by interacting with their peers and professors through compressed video and Internet classes. Internet, television, correspondence, or online courses allow place-bound and time-bound students to earn college credit. For more information on the courses available through distance learning, contact the Office of Distance Learning, 408 Ginger Hall, (606) 783-2082 or (800) 440-3491. For complete programs and courses contact the academic department of your major.

## Instructional Sites

Undergraduate classes are also offered at various locations throughout the University's service region. Courses are offered in Maysville, Hindman, Lexington, Somerset, and other sites during the academic year. For a schedule of classes or more information, contact the Office of Extended Campus Programs, 312 Allie Young Hall, (606) 783-2605 or (800) 585-6781.

## Office of Academic and Career Services

The Office of Academic Support and Retention operates as a unit within the Office of Academic Outreach and Support, phone (606) 783-2233. It comprises academic support programs: Academic Services, which includes the learning laboratory, services for students with disabilities and minority student retention; and career services, which includes career counseling and placement services.

## Academic Services

The Center for Academic Services is a guidance and academic counseling program designed to assist with student retention by

providing a variety of services to all students. Individualized academic counseling and guidance sessions are available upon request, as well as workshops and seminars centered around improving study habits and increasing motivation for academic success. For information or assistance, call (606) 783-2084. Other services available through this Center include the following:

**Tutoring Services/Learning Lab.** Free tutoring is available during the day and evening to help students who may be having difficulty with a particular class. Supplemental instruction is available in an "across the curriculum approach." There are numerous, self-paced programs designed to assist students in improving basic academic skills. Professional staff are available to assist students with study skills, time management, and specific academic programs. For more information or assistance, call (606) 783-5200.

**Services for Students with Physical or Learning Disabilities.** Professional staff assist students with physical or learning disabilities in the acquisition of academic aids such as taped textbooks, notetakers, and tutoring. The staff coordinates efforts to address the accessibility needs and class accommodations with instructors of students with physical or learning disabilities. For most services, proper documentation must be on file. For more information or assistance, call (606) 783-5188.

**Study Skills Classes.** A one credit hour course in study skills helps students to acquire skills in time management, note taking, test taking, outlining, improving memory, and listening skills. In addition to the credit class, specialized non-credit seminars in study skills are offered to students. For more information about the class and seminars or for assistance with study skills, call (606) 783-2084.

**Minority Retention/GUSTO.** Academically related activities designed to assist minority students in their transition and adjustment to University life and help ensure academic success are provided. Also provided is Guiding Undergraduate Students Toward Opportunities (GUSTO), a volunteer faculty mentoring program for new minority freshmen and transfer students. A faculty sponsor is assigned to guide students in the program through their first year of University life both academically and socially.

**Career Services and Career Planning Classes**. Assistance is provided to MSU students in exploring academic, career, and life choices. Services include career counseling, interest testing, professional development workshops, job referrals, on-campus job interviews, and job fairs. The two credit hour course in career planning is designed to assist students in making realistic career and academic program decisions consistent with their abilities, needs, values, interests and goals. The students participate in many activities to learn about themselves and the world of work. A one credit hour course (MSU 400) assists students with developing resume and contacting potential employers. Students can utilize the computerized career information program, DISCOVER, to learn more about themselves and careers. For more information about the class or DISCOVER, call (606) 783-2084.

## Office of First Year Programs and Retention

The Office of First Year Programs and Student Retention administers MSU 101, a freshman success course, which introduces students to the expectations and rigors of college. The office also administers the Peer Advising program, which offers upperclass students the opportunity to assist first-year students in their transition to University life. The office coordinates SOAR and New Student Days. For additional information or assistance, call (606) 783-2517.

## Provisional Studies Program

Provisionally admitted students will be notified that they have been identified as Provisional Studies students and that their academic activities will be specified and monitored by the Provisional Studies Coordinator. Participants will be assessed and will be provided a plan of remediation designed to increase competency in identified areas of weakness. Credits earned from developmental courses do not count toward program or general education requirements, and they do not count toward the minimum hours required for graduation. However, developmental courses do carry credit which is counted in the semester workload, and the grades earned for developmental courses are computed in the student's GPA.

The Provisional Studies Program is designed to be a Freshman Year Program. To successfully exit the Provisional Studies Program and enroll in a degree program at the University, a student must:

1. Obtain a grade of "C" or higher in all required developmental courses.
2. Pass MSU 101: Discovering University Life.
3. Successfully complete two semesters with a cumulative GPA considered to be satisfactory progress by the University. Satisfactory progress is a cumulative GPA of 1.6 if 16 or fewer semester hours have been attempted and 1.7 if 17-30 semester hours have been attempted.
4. Successfully complete a minimum of 12 semester hours that satisfy the general education requirements.
5. Attend a minimum of three hours of study tables per week.
6. Make frequent appointments with a Provisional Studies Program advisor. Students should meet with their advisor as required.

Failure to satisfy the requirements of the Provisional Studies Program by the end of the freshman year will result in academic dismissal. For more information, contact the Provisional Studies Coordinator, 213 Allie Young Hall, (606) 783-5194.

# Instructional Support

## Academic Advising Program

The University provides a program of academic advisement to assist students with information about specific programs and University procedures, with career guidance and counseling, and with general academic support throughout their college experiences.

## Advisor Assignment

Although you may not have a permanent advisor assigned when you register, department chairs and academic advisors are available to assist you. A permanent advisor is assigned to you during the first two weeks of the semester you enroll. If you have

selected a program of study, you must see the chair of that department for the name and office location of your advisor. If you are a General Studies (undeclared), University Studies, or Provisional Studies student, you must go to the Office of Academic and Career Services, 220 Allie Young Hall. It is your responsibility to make the initial contact with your advisor.

## Required Advisor Contacts

You will want to maintain a close relationship with your advisor through frequent visits, but you are required to meet your advisor periodically for at least the following purposes:

1. To obtain your advisor's signature on your trial schedule form prior to registration;
2. To pick up midterm grade reports;
3. To initiate class changes during the drop/add period;
4. To complete a change of program form if you change your major, minor, or area of concentration; or if you are in general studies and you declare a major, minor, or area of concentration; and
5. To complete a check sheet during your freshman year. Transfer students should schedule a conference at the beginning of the first semester at MSU.

## Student Support Services

This program serves students who are first generation college students, meet low income guidelines, or have a physical or learning disability. An individualized educational plan which may include tutoring, advising, counseling, and cultural enrichment is designed to meet the unique needs of each student. For information about the program, call (606) 783-2614.

## Minority Teacher Education Program

The purpose of the Minority Teacher Education Program (MTEP) is to identify, recruit, admit, and graduate minority students in teacher education programs. The ultimate goal is for students to be employed in Kentucky school districts upon graduation. Telephone (606) 783-9446.

## Non-Traditional and Commuter Student Counseling

The coordinator for non-traditional and commuter students is available to see all undergraduate, non-traditional students who are 23 years of age or older and all commuter students. This office provides assistance with academic and personal pressures frequently encountered by students dealing with courses, work, and family responsibilities.

The non-traditional coordinator serves as an advocate for the increasing number of adult students at MSU. The coordinator helps link these students to academic and campus resources for concerns such as study habits, time management, family, career, and financial needs.

The non-traditional coordinator also directs the STEPS project, which provides workstudy wages to students participating in K-TAP. This office is located in 3 Fields Hall, (606) 783-2102.

## Computer Resources

Morehead State University, through the Office of Information Technology (OIT) and Institutional Research and Computer Applications (IRCA), provides computing resources in support of instructional, administrative, alumni and research activities. The University provides access through Hewlett-Packard minicomputer as well as numerous Linux and Windows servers and 2000+ microcomputers on multiple local area networks. Access to national and international networks is provided via the Internet and the World Wide Web.

There are devices strategically located throughout the campus to give students, faculty, and staff convenient access to these computing resources. The OIT and IRCA staffs provide support for faculty and staff users in the effective use of hardware and software. The University instructional programs utilize computing resources for programming, problem solving, computer-assisted instruction, simulations, record keeping, word processing, electronic mail, and many other activities.

## Student Trip Insurance

Student trip insurance is available for students accompanying faculty and staff on University-sponsored field trips. The cost is minimal and all applicable students are strongly encouraged to obtain this coverage prior to the date of departure.

Trip insurance is available from the Office of Support Services. Application forms may be obtained by mail or by fax by calling (606) 783-2018. The completed application forms must be returned to the Office of Support Services a minimum of 72 hours prior to the date coverage is to become effective. For students traveling ouside the country; international travel identification cards may also be obtained through the Office of Support Services.

## Testing Center

The Testing Center provides testing services to the University and the region. Testing is conducted on a daily basis by appointment or prior registration. Established testing programs include ACT, Senior Exit Tests, AP, CLEP, GED, LSAT, Miller Analogies, The PRAXIS Series, correspondence exams, and various departmental proficiency examinations. Literature and information describing the different testing programs and their functions are available at the Testing Center, 501A Ginger Hall, (606) 783-2526.

## Credit-by-Examination

Morehead State University awards academic credit toward a bachelor's degree or an associate degree for those scoring satisfactorily on any of the following examinations:

1. The Advancement Placement Program (APP)
2. The College Level Examination Program (CLEP)
3. Departmental Examinations

Credit-by-examination is not recorded on a permanent transcript in the Office of the Registrar until the student qualifying for credit enrolls at Morehead State University. Credit-by-examination is recorded as "K" credit; hence it has no effect upon the GPA.

## College-Level Examination Program (CLEP)

Students of all ages interested in obtaining a college education have reduced expenditures in time and money by successfully completing college-level examinations. Many American colleges encourage students to take CLEP tests for credit in subjects they have mastered.

Students may register for CLEP examinations at MSU by contacting the Testing Center, 501A Ginger Hall, (606) 783-2526. For score requirements to earn credit hours through CLEP examinations, please contact the Testing Center at the address and phone number above. For CLEP descriptions, access the Web site www.collegeboard.org

| Examination | Equivalent MSU Course |
|---|---|
| ***Composition and Literature*:** | |
| American Literature | ENG 341, 342 |
| Analyzing and Interpreting Literature | ENG 120 |
| English Literature | ENG 331, 332 |
| Freshman College Composition | ENG 100 |
| ***Foreign Languages*** | |
| French Language - Level 1 | FRN 101, 102 |
| French Language - Level 2 | FRN 201, 202 |
| German Language - Level 1 | GER 101, 102 |
| German Language - Level 2 | GER 201, 202 |
| Spanish Language - Level 1 | SPA 101, 102 |
| Spanish Language - Level 2 | SPA 201, 202 |
| ***Social Sciences and History*** | |
| American Government | GOVT 141 |
| History of the United States, Early Colonization to 1877 | HIS 220 |
| History of the United States 1865 to the Present | HIS 202 |
| Human Growth and Development | EDF 211 |
| Humanities | ENG 120, FNA 160 |
| *Introduction to Education Psychology | EDF 311 |
| Principles of Macroeconomics | ECON 201 |
| Principles of Microeconomics | ECON 202 |
| Introductory Psychology | PSY 154 |
| Social Sciences and History | HIS 201 |
| Introductory Sociology | SOC 101 |
| Western Civilization: Ancient Near East to1648 | HIS 210 |
| Western Civilization: 1648 to Present | HIS 201 |

*12 hours of educational observation is required in addition to passing exam.

| | |
|---|---|
| ***Sciences and Mathematics*** | |
| Biology | BIO 105 |
| Calculus | MATH 175 |
| Chemistry | CHEM 101 or 111 |
| College Algebra | MATH 152 |
| College Algebra - Trigonometry | MATH 174 |
| College Mathematics | MATH 131 |
| Natural Sciences | BIO 105, SCI 103 |
| Pre-Calculus | MATH 174 |
| ***Business*** | |
| Principles of Accounting | ACCT 281, 282 |
| Introductory Business Law | MNGT 261 |
| Information Systems and Computer Applications | TBA |
| Principles of Marketing | MKT 304 |
| Principles of Management | MNGT 301 |

## Advanced Placement Program

Students may earn college credit through the Advanced Placement Program of the College Board upon completion of courses and special examinations taken in high school. The APP score should be sent to the Testing Center, Morehead State University, 501A Ginger Hall, (606) 783-2526, at the time application for admission is submitted or as soon as possible thereafter. Upon enrollment at MSU, the student should notify the Testing Center so that proper credit will be posted to the transcript. For more information and requirements, please contact the Testing Center. With a score of three or higher on the following examinations, credit will be awarded for the corresponding course.

| Examination | Equivalent MSU Course |
|---|---|
| Art History | FNA 160 |
| Art - Drawing | ART 204 |
| Art - General | ART 101 |
| Biology | BIOL 105 |
| Calculus AB | MATH 175 |
| Calculus BC | MATH 275 |
| Chemistry | CHEM 101, 111, 112 |
| Computer Science A | TBD |
| Computer Science AB | CS 170 |
| ECON - MAC | ECON 202 |
| ECON - MIC | ECON 201 |
| English Language Comp | ENG 100 |
| English Language/Literature Comp | ENG 100, 220 |
| Environmental Science | BIO 155 |
| European History | HIS 201 |
| French Language | FRN 101 |
| French Literature | FRN 102 |
| German Language | GER 101 |
| Government & Policies: U. S. | GOVT 141 |
| Human Geography | GEO 100 |
| INTL English Language | in lieu of TOEFL |
| Latin - Vergil | LAT 101 |
| Latin - Literature | LAT 101 |
| Music Theory | MUST 101 |
| Physics B | PHY 201, 201A |
| or | PHYS 202, 202A |
| Physics C – Mech | PHYS 231, 231A |
| Physics C – E&M | PHYS 232, 232A |
| Psychology | PSY 154 |
| Spanish Language | SPA 101 |
| Spanish Literature | SPA 102 |

Statistics ..... MATH 123
U. S. History ..... HIS 220

## Departmental Examinations

Students enrolled at Morehead State University may also receive credit on the basis of departmental examinations. A department may choose to develop an appropriate exam or adopt a standardized examination from outside the University.

Those wishing to take a departmental examination must contact the appropriate academic department chair for approval. Then, the student arranges to take the test and pays the fee in the Testing Center, 501A Ginger Hall before taking the examination.

## Exception from ENG 100 (Writing I) given through CLEP

In order for a student to receive an exception from the Writing I course (with CLEP), the student must produce a collection of writing matching that required in Writing I and must attain a passing score on the CLEP "Freshman College Composition Subject Exam." The student should:

- obtain a description of the CLEP test from the University Testing Center.
- submit a portfolio of writing to the English Department that includes - 1) example of an extended research paper using the APA, MLA, or Chicago style documentation; 2) a paper that demonstrates the writer's ability to present a reasoned argument; and 3) a cover letter explaining to the reviewers why the work being submitted meets the criteria for ENG 100: Writing I. Questions regarding the portfolio procedure should be directed to the Coordinator of the General Education Writing Program, telephone 783-2185.
- wait for the General Education Writing Committee to review the portfolio.
- if the portfolio passes, then the student may take the CLEP examination.
- if after having passed the portfolio requirement, the student attains a passing score on the CLEP exam, the student will be granted credit for ENG 100.

## Computer Competency

Computer competency may be demonstrated through a departmental examination. With satisfactory scores, three hours credit may be awarded for CIS 101. Contact the Testing Center, 501A Ginger Hall, (606) 783-2526 for information about the exam.

## University Counseling Center

The Office of Counseling and Health Services (CHS), located on the first floor of Allie Young Hall, provides MSU students with both psychological and physical health services.

The University Counseling Center's (UCC) services include individual psychotherapy and counseling, groups, workshops, and consultations. Caudill Health Clinic (CHC) services include patient assessments, examinations, treatment, and emergency first aid.

Health clinic hours are from 8 a.m. to 5 p.m., Monday through Friday during fall and spring semesters. At other times except holidays and official closings, health services hours are 8 a.m. to 4:30 p.m., Monday through Friday. Patients are seen on a walk-in basis. The counseling center hours are 8 a.m. to 4:30 p.m. Monday through Friday. Students are seen by appointment for counseling services with the exception of emergencies.

*Groups and Workshops.* In addition to group counseling, various workshops and special programs are scheduled to address specific needs of the University community. Topics include stress management, depression, eating disorders, and dealing with roommate conflicts. Special-need support groups are provided. Call (606) 783-2123 for information.

*Alcohol and Other Drug Education.* The Alcohol and Other Drug counselor provides a variety of educational programming addressing issues related to alcohol and drug abuse. The counselor serves as a coordinator for networking members of the University community with local and regional programs and services that assist individuals with alcohol and/or drug abuse related problems.

*Life Enhancement Office/Student Wellness Office.* The Life Enhancement Office is the prevention office on campus. It is the office on campus that proactively addresses the issues of emotional and physical health to promote a healthy student and campus environment. This is done through policy development, educational strategies, evaluation, and collaboration with faculty, staff, students, parents, alumni, and the surrounding community.

Staff gives presentations to student groups, to classes, in residence halls, and to community groups. Programs are available on these focus areas: fitness, nutrition, and eating disorders; sexually transmitted diseases; alcohol and other drugs; and stress. Professional staff also present programs on HIV and AIDS, rape awareness, and sexual assault. The office works with various committees on campus including the MSU Alcohol and Other Drug Task Force.

The office is also a resource center for handouts, other speakers, and information on emotional and physical health topics. The office is located in Room 112, Allie Young Hall, (606) 783-5248, www.moreheadstate.edu/leo.

## International Student Services

The Director for International Student Services provides assistance and support during international student entry to MSU, coordination and documentation of compliance with immigration regulations, and cross-cultural programs for international education. International students must consult the Office of International Student Services when:

1. applying to extend or change immigration status;
2. transferring to or from the University;
3. dropping classes below a full-time enrollment;
4. leaving the University for any reason;
5. accepting employment for the first time or engaging in summer employment;
6. changing residence/phone numbers;
7. seeking optional or curricular practical training;
8. applying for a social security number;

9. planning to leave and re-enter the United States, while still a student;
10. applying for reinstatement;
11. changing from one academic level to another;
12. changing from one academic program to another;
13. seeking dependent status for spouse and/or children;

The Director for International Student Services is available at 330 Allie Young Hall, telephone (606) 783-2096.

International students attending Morehead State University are required to purchase the insurance plan designed specifically for international students or show proof of comparable coverage valid in the United States. Questions regarding the plan and proof of comparable coverage should be directed to the administrative specialist, Counseling & Health Services, 112 Allie Young Hall, telephone (606) 783-2024.

## Alumni Association

The MSU Alumni Association, Inc., is an organization operated exclusively for educational and charitable purposes designed to stimulate interest in Morehead State University. Active membership in the MSU Alumni Association, Inc., is available to all graduates and former students who make an annual contribution to the MSU Foundation, Inc. Associate membership is available to parents of students and friends of the University who make an annual contribution to the MSU Foundation, Inc. All graduates receive publications of the association. Active members receive several benefits such as discounts on concert tickets and season football or basketball tickets, alumni scholarship eligibility for children, grandchildren, or the student's spouse, and invitations to special events and activities.

The Alumni Association plans and coordinates Homecoming Weekend in the fall of each year for alumni to return to MSU for a variety of activities. The Alumni Association also coordinates the Graduation Celebration activities, alumni and athletic awards banquet, and other activities tailored to alumni interests.

## Camden-Carroll Library

Camden-Carroll Library is the information center of Morehead State University. The Library's collection of books, periodicals, government documents, and non-print media supports the University's curriculum and provides a wealth of materials to meet students' research, recreational, and personal enrichment needs.

"Information Literacy" has been identified as a set of skills necessary to compete in today's service-oriented economy. The Library's online catalog, the Kentucky Virtual Library, and a galaxy of online databases accessible through the World Wide Web afford students the opportunity to develop these critical skills through hands-on experience with sophisticated information storage and retrieval systems. Library staff are available to recommend sources and to help define research needs and suggest strategies.

Through its Interlibrary Loan services, the Library participates in state and national resource-sharing networks to obtain materials not available locally. The Extended Campus Library Services Office is responsible for providing research, document delivery, and instructional services to the faculty and students in any of Morehead State University's Extended Campus, Distance Learning, or Internet Programs.

The Learning Resource Center (LRC) is a multi-media center containing computer software, video recordings and DVDs, audio cassettes and CDs, kits, and teaching aids, as well as children's literature and a preschool - grade 12 collection of textbooks and curriculum guides.

The Learning Technology Lab consists of workstations providing hardware and software for creating computer graphics, Web sites, and presentations. The lab includes color scanners, digital cameras, video capture/edit capability, color printers, and a wide variety of software packages.

The Library is open seven days a week. Regular hours are Monday through Thursday 7:30 a.m. - 11 p.m.; Friday 7:30 a.m. - 6 p.m.; Saturday 9 a.m. - 5 p.m.; Sunday 1 p.m. - 11 p.m. Hours are subject to change during vacation periods. Call (606) 783-2200 to request services or obtain further information, or visit the Library Web site at www.moreheadstate.edu/ library.

## Academic Opportunities

### Cooperative Education

Cooperative education provides supervised work experience in educational, vocational, governmental, and cultural environments outside the University. Students are awarded academic credit for each work experience. (Semesters of course work may be alternated or paralleled with periods of employment in environments closely associated with the student's program of study.) For additional information, contact your advisor, department chair or the Office of Academic and Career Services, 220 Allie Young Hall, (606) 783-2233.

### Government Symposia and Internships

The Washington Center National Government Seminar and Internship Program provides MSU students with the opportunity to study and work in Washington, DC. The program, available to most undergraduate majors, provides both two-week intensive seminar and semester-long internships during the academic year and summer.

The seminar addresses major current legal, political, domestic, and foreign policy issues. A central feature of the seminar is the participation of persons currently involved in national political life as guest lecturers and discussion leaders. The internships have a study and work component: an evening course and a full-time government work experience. The course, held once a week, is taught by the Washington Center's faculty drawn from Washington, DC, colleges and universities. The internships are full-time work experiences in the offices of representatives and senators, on congressional committees and subcommittee staffs, and in government departments and regulatory commissions. The Washington Center provides housing and an on-site staff responsible for administration, placement, orientation, supervision, and evaluation for both seminars and internship participants.

Registration procedures, participation, evaluation, and the receipt of academic credit are governed by the MSU-Washington Center affiliation agreement with MSU. The seminars carry three semester hours credit and the internships carry 15 semester hours credit. For additional information and application forms, contact the Director of Academic and Career Services, 220 Allie Young Hall or call (606) 783-2233.

## Study Abroad

Morehead State University offers students a variety of study abroad opportunities in various countries around the world. The majority of these programs grant academic credit upon successful completion of the program. For any study abroad program that awards academic credit, the student may apply for any student loans or grants for which they would normally be eligible.

As a member of the Cooperative Center for Study Abroad consortium, the University is able to send faculty and students to English speaking countries such as England, Scotland, Ireland, New Zealand, Australia, Barbados, and Kenya for educational offerings in a variety of subject areas. Programs are scheduled during the December/January interim, summer sessions, or the spring semester. Internships are also available. Students can earn from three to six credit hours depending upon the length of the program in which they are enrolled.

MSU is a participant in the Kentucky Institute for International Studies, a consortium allowing University faculty and students to travel to study centers around the world, including France, Austria, Italy, Greece, Spain, Brazil, Cameroon, China, Costa Rica, Denmark, Ecuador, Germany, Japan, Mexico, Thailand, Myanmar (Burma), and Turkey. Courses are offered during the summer sessions and focus on languages, the humanities, social sciences, business, education, and environmental sciences. Full semester programs are also available in Germany, France, Mexico, and Spain.

The newest consortium to which Morehead State University belongs is the Magellan Exchange. While focusing in the past on business courses, the Exchange has begun to broaden its offerings. Students participate in semester or year-long exchanges in European member institutions. Paying tuition to Morehead State University, U.S. students take courses offered in English. Countries included in the Magellan Exchange are Germany, France, Belgium, The Netherlands, Finland, Spain, and Austria. Opportunities to have internships while attending classes are also available.

Morehead State University sponsored programs may be offered to various locations by MSU professors. These programs are advertised by the professors; information is available in the Office of International education. MSU offers a month-long summer progam to provide oral English training in Guangxi, China.

Additional information about any study abroad opportunity may be obtained by accessing the international education Web page (www.moreheadstate.edu/oie), contacting the Associate Dean of International Education, 330 Allie Young, Morehead State University, Morehead, KY 40351 or by calling (606) 783-2096.

## Television Courses

Each fall, spring, and summer semester a number of undergraduate and graduate courses are offered for credit by television. These courses may be applied toward the general education requirements. Admission requirements are the same as for on-campus enrollment. A registration fee is charged in addition to tuition. For more information call (606) 783-2082.

## Correspondence Courses

Correspondence courses allow students to complete college credit outside the formal classroom. Any undergraduate student enrolled at Morehead State University with a cumulative GPA of 2.0 or better may register for correspondence credit.

Tuition is the same as the current undergraduate, in-state, hourly fee. A registration fee is charged in addition to tuition.

Credit earned by a combination of correspondence courses and credit by examination cannot exceed 32 semester hours toward a baccalaureate degree or 16 semester hours toward an associate degree. Correspondence enrollment will not be considered in the determination of full-time status. For an application and complete details, contact the Correspondence Study Program, 408 Ginger Hall, (606) 783-2082.

## Continuing Education

The Office of Continuing Education provides non-credit continuing education and community education opportunities to meet the needs of business, industry, schools, and the public in the service region. The Office of Continuing Education offers a supportive learning environment through appropriate education facilities, learning materials, equipment, and other services. The Office of Continuing Education's goals and outcomes are to improve the quality of life and enhance the lifelong learning process. Workshops, seminars, and training programs are sponsored by the Office of Continuing Education on-campus and off-campus. Workshops are tailored to meet the unique professional development needs of business, industry, schools, and organizations in the service region. For more information, a schedule of non-credit courses, or to develop a training program contact the Office of Continuing Education at 307 Allie Young Hall, (606) 783-2875.

## Honors Program

The George M. Luckey Academic Honors Program is an academically-enriched program that provides highly motivated students with small classes, direct and personal contact with faculty members, and greater curriculum flexibility.

Freshmen and sophomores take a sequence of honors classes that fulfill general education requirements. Upper division students participate in at least two honors seminars. Members of the program receive special opportunities and recognitions. They may enroll for additional credit hours each semester; participate in cultural enrichment trips to concerts, plays, and museums in surrounding cities; participate in a twice yearly Roundtables with students from other state honors programs; participate in regional and national honors conferences; help faculty in their research projects; and are recognized during Academic Awards Convocation

and Commencement. Participation is noted on the academic transcript.

High school students who have composite ACT examination scores of 26 or above and a strong high school academic record are eligible. College students, including transfer and second-semester freshmen who have a cumulative 3.5 GPA are invited to become members. Once admitted to the program, a student must maintain a 3.25 GPA. The Honors Program awards scholarships each year to entering freshmen. If you would like more information or admission forms, contact the Honors Program Director, Morehead State University, Evans House, Morehead, KY 40351-1689, (606) 783-2807.

## Honors Leadership Residential College

The Honors Leadership Residential College (HLRC) is a residential experience in which students of high academic ability live and take some of their classes in their residential hall, Butler Hall. Learning communities are created to enhance student learning. Tutors live in the building and provide tutoring and study group leadership. All students who live in Butler Hall are also members of the Leadership Development Program (LDP). The LDP consists of a progressive cluster of leadership courses that deal with leadership principles and leadership skill building in a contemporary setting. A major focus of this program is the civic engagement of each student in campus, community, state, national, and international issues with a situation analysis and decision making emphasis. Each student participates in community service through a variety of service learning projects. For more information contact the office at (606) 783-2027.

## Academic and Honors Organizations

Numerous organizations offer opportunities for academic enrichment outside the classroom. Members may participate in informal discussions with faculty and professionals, field trips, and on-campus programs. Further information is available by contacting the specific organizations listed below:

## Academic/Honor

Academic Honors Student Association, Accounting Club, Aikido Club, Amazing Corporation Organization, Amnesty International, Art Education Club, Association of Info Tech Professionals, Black Gospel Ensemble, Bowling Club, Caving Club, Chemical Society, Chi Beta Gamma, College Republicans, Collegiate FFA, Collegiate Middle Level Assn, Cosmopolitan Club, Criminology Club, Dance Team, Economics and Finance Club, Equestrian Club, Future Managers Society, Gamma Beta Phi, Geographical Society, Geological Society, Habitat for Humanity, HRIM/Diet Student Council, Ignite, International Studies Club, International Tuba Euphonium Association, KEA-SP, Le Cercle Francais, Math & CS, MSU Players, National Assoc. of Industrial Technology, Phi Alpha Theta, Phi Mu Alpha Sinfonia, Phi Sigma Pi, Pi Sigma Alpha, Pinnacle Non-Traditional Honor Society, Prae Medicorum, Pre-Physician Assistant Studies Student Association, Public Relations Student Soc of America, Societas Pro Legibus, Society of Manufacturing Engineers, Spanish Club, Student Assoc. of Feminist Thought, Students in Free Enterprise, Student Nurses Association, Visual Art Guild.

MOREHEAD STATE UNIVERSITY

# College of Business

## College of Business at a Glance

**Robert Albert, Dean**
214 Combs Building
(606) 783-2174
Fax: (606) 783-5025
E-mail: r.albert@moreheadstate.edu

**Department of Accounting, Economics & Finance**

BBA - Accounting Option
BBA - Economics Option
BBA - Finance Option

**Department of Information Systems**

BBA - Computer Information Systems Option
BBA - Business Information Systems Option
BBA - Business and Information Technology Education Option
AAB - Computer Information Systems
AAB - Business Information Systems

**Department of Management, Marketing & Real Estate**

BBA - Management Option
BBA - Marketing Option
BBA - Real Estate Option
BBA - Small Business Management & Entrepreneurship

## Mission Statement

The College of Business strives to create lifelong opportunities and choices for individuals and organizations through teaching, learning, experience, and research for and about business relevant to our Kentucky service region and the world.

**Our mission is fulfilled through...**

• **Academic excellence** with a focus on innovative teaching and active learning supported by quality research and service.

• **Regional leadership** in economic development through applied business research and collaboration with education, government, business, and non-profit organizations.

• **Global involvement and presence** enhanced by faculty, student, and organizational exchanges, a curriculum integrating a global perspective, and active participation in the global learning community.

## College of Business

The College of Business degree programs are fully accredited by AACSB International – The Association to Advance Collegiate Schools of Business. Accreditation by AACSB International serves to assure our stakeholders that the college has managed its resources in a manner consistent with the fulfillment of its mission by developing high quality faculty, students, resources, programs and curricula.

The College of Business offers an area of concentration leading to a Bachelor of Business Administration degree with options in Accounting, Business and Information Technology Education, Business Information Systems, Computer Information Systems, Economics, Finance, Management, Marketing, Real Estate and Small Business Management and Entrepreneurship.

An Associate of Applied Business degree is also offered by the College of Business. The Associate of Applied Business degree has options in Business Information Systems and Computer Information Systems. Minors in Business Information Systems, Computer Information Systems, General Business, Marketing, and Real Estate are available to all students.

## Small Business Development Center

The Small Business Development Center (SBDC) serves the needs of aspiring and established entrepreneurs in East Kentucky. The MSU facility was established to provide one-on-one counseling services, continuing education programs, and management and technical assistance for prospective as well as established business owners. The SBDC also sponsors special projects and conducts research in areas of importance to small businesses throughout its 25-county service area. The MSU main campus office and the two sub-center offices in Pikeville and Ashland offer the following core counseling and training services: needs assessment, comprehensive business planning, market research, financial statement analysis and control, cash flow analysis and financial projections, management issues unique to small firms, and technology transfer.

## Center for Economic Education

The Center for Economic Education is very active in the service region, promoting economic education for people of all ages. The Center strives to establish and promote its activities in the following ways: coordination of the Ashland Advocates, operation of a resource library of economics education curriculum at the MSU at Ashland Center and MSU campus, and professional development training for K-12 teachers in economic education activities in Ashland and in Elliott, Carter, and Johnson counties.

## Business Advisory Board

The College of Business has a Business Advisory Board which is composed of alumni and business leaders who have made substantial contributions in their professions. The Board works with the College to ensure that the degree programs provide students with "real life" perspectives and that its activities serve the MSU service region. Members of the board include Dave Barnum, Family Dollar Distribution Center.; J. Hagan Codell, Traditional Bank; Larry Columbia, The Kroger Company; Sara Walter Combs, Division I Judge, Kentucky Court of Appeals; Billy Joe Hall, Investment Broker; William J. Jessie, Kentucky Electric Steel, Inc.; Jerry Johnson, Fifth Third Bank; Dan Markwell, Trademark Insurance and Investments, Inc.; Susan Martin, The Jockey Club Information Systems; David Michael, Community Holding Company; Mark Neff, St. Claire Regional Medical Center; Randall L. Norwood, Sealmaster Bearings; Karen C. Seiler, Louisville, KY; John D. Sewell, Whitaker Bank Corporation; Dennis Wallingford, retired; Toyota Motor Manufacturing; Gary Wientjes, Morehead Clinic Pharmacy; Harold Wilson, Caswell Prewitt Reality, Inc.; and Gary K. Young, Community Trust Bank.

## Organizational Systems Research Association (OSRA)

The College of Business is home to the international office of the Organizational Systems Research Association (www.OSRA.org). OSRA brings together professionals from the business and academic worlds with a focus on information technologies and their impact on learning and performance. Key activities include research, interdisciplinary sharing of experiences, and development of improved Information Technology curricula for corporate, undergraduate, and graduate education. OSRA hosts an Annual International Research Conference and publishes the *Information Technology, Learning, and Performance Journal*, a refereed research publication in the field of organizational and end-user information systems.

# Bachelor of Business Administration (BBA) General Education Requirements

For a complete listing of approved general education courses, please refer to pages 21-23.

**Required Core**

ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
CIS 101 – Computers for Learning . . . . . 3
CMSP 108 – Fundamentals of Speech Communication . . . . . 3
MATH 152 – College Algebra . . . . . 3
or MATH 174 or MATH 175
**Total . . . . . 15**

## Area Studies

Only one course may be chosen from each prefix in Area Studies courses; for example, only one course from the three ART courses may be chosen to satisfy the nine hours of humanities for the Area Studies General Education Requirements.

**Humanities**

Courses listed under General Education . . . . . 9

**Natural and Mathematical Sciences**

MATH 354 – Business Statistics . . . . . 3
Any two courses from ASTR, BIOL, SCI, CHEM, GEO 101, GEOS, or PHYS courses listed under General Education (three hours per prefix) . . . . . 6

**Social and Behavioral Sciences**

ECON 201 – Principles of Macroeconomics . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
SOC 101 – General Sociology . . . . . 3

**Practical Living**

FIN 264 – Personal Finance . . . . . 3

**Integrative Component**

*MNGT 499C – Strategic Management . . . . . 3
**General Education Total . . . . . 48**

## Business Requirements

**Pre-Business Core**

ACCT 281 – Principles of Financial Accounting . . . . . 3
ACCT 282 – Principles of Managerial Accounting . . . . 3
ECON 201 – Principles of Macroeconomics . . . . . •
ECON 202 – Principles of Microeconomics . . . . . 3
MNGT 160 – Business and Society . . . . . 3
MNGT 261 – The Legal Envir. of Business Organ . . . . 3
**Total . . . . . 15**

## Upper Division Business Core

Students must be admitted to the College of Business degree program to be able to register for Upper Division Business Core courses. Admission requires completion of the Pre-Business Core and a cumulative Morehead State GPA of at least 2.25 for all MSU and transfer courses.

BIS 321 – Business Communications . . . . . 3
BIS 421 – Business and Technical Presentations . . . . . 3
CIS 311 – Management Information Systems . . . . . 3
ECON/MNGT 300 – Quant. Methods in Bus & Econ . . 3
FIN 360 – Business Finance . . . . . 3
MKT 304 – Marketing . . . . . 3
MNGT 301 – Principles of Management . . . . . 3
MNGT 465 – Organizational Behavior . . . . . 3
MNGT 499C – Strategic Management . . . . . •
MSU 400 – The World of Work (Business Area) . . . . . 1
Any ECON course above 300 . . . . . 3
**Total . . . . . 28**

## Options

*Choose one option from those listed.*

**Total . . . . . 27**
+Free Electives . . . . . 10
**Total Credit Hours for BBA Degree . . . . . 128**

• Course hours have been counted in another area.
* Students are required to have an integrative component within the General Education requirements.
\+ Free Electives. Business students may:
Apply the 10 semester hours in elective credits to Accounting, Business Information Systems, Computer Information Systems, Economics, Finance, Management, Marketing, and Real Estate courses. **By doing so, students can create the opportunity to develop a second BBA option or business minor.**
Apply the 10 elective credits toward any 100-499 level courses at the University.

## Option Requirements

All students choosing the BBA degree must complete a 27 credit hour field of specialization which is to be selected from the following fields of study and approved by the academic advisor:

Accounting
Business & Information Technology Education
Business Information Systems
Computer Information Systems
Economics
Finance
Management
Marketing
Real Estate
Small Business Management and Entrepreneurship

## Completing a Second Option

Students may complete a second option; however, courses used to satisfy the requirements of one option may not be used to meet the requirements of the second option.

## Bachelor of Business Administration (BBA) Program Goals

**Goal 1: Our graduates will communicate effectively.**

**Goal 2: Our graduates will know and properly analyze ethical issues faced in business.**

**Goal 3: Our graduates will have a regional and global perspective of business and appreciate the growing diversity of all stakeholders.**

**Goal 4: Our graduates will understand the regulatory, technological, and legal aspects of business and their impact on business decisions.**

**Goal 5: Our graduates will be knowledgeable and skilled in the application of analytical and quantitative tools used to solve business problems.**

**Goal 6: Our graduates will be competent in their discipline.**

## Assessment Procedures

The College of Business (COB) systematically assesses all BBA programs as a basis for program improvement and quality assurance. Measures used include the following:

AACSB/EBI Management Education Faculty Survey
AACSB/EBI Undergraduate Student Satisfaction Survey
AACSB/EBI Undergraduate Alumni Survey
ETS Major Field Test in Business
BBA Core External Assessment Program
COB Co-Op Employer Performance Appraisals
Assurance of learning Assessment for BBA Program

## General Business Minor (Non- Business Majors Only)

**Business Minor Requirements**

ACCT 281 – Principles of Financial Accounting . . . . . 3
ACCT 282 – Principles of Managerial Accounting . . . . 3
BIS 321 – Business Communications . . . . . 3
ECON 201 – Principles of Macroeconomics . . . . . 3
ECON 202 – Principles of Microeconomics . . . . . 3
FIN 264 – Personal Finance . . . . . 3
MKT 304 – Marketing . . . . . 3
MNGT 261 – The Legal Environment of Business Organizations . . . . . 3
MNGT 301 – Principles of Management . . . . . 3
**Total . . . . . 27**

*CIS 101 must be taken as the computer competency course.*

# Department of Accounting, Economics, & Finance

Bruce Grace, Chair
222 Combs Building
Phone (606) 783-2152

# Accounting

### Faculty

T. Elliott, S. Meisel, E. Criscione,
S. Walters, L.K. Williams

## Program Competencies

**Students completing the program will possess:**

1. Knowledge of fundamental accounting issues.
2. Knowledge of ethical conduct and reasoning skills.
3. Oral and written communication skills.
4. Team member skills.
5. Computer and technology skills.

Students will be qualified to design and implement accounting systems, prepare standard financial statements, analyze accounting data and statements for use in decision making, and interpret tax laws for the preparation of tax returns and tax planning.

Graduates will be prepared for entry-level positions in public accounting, industry, or governmental entities, or for graduate study in accounting or other business fields.

## Assessment Procedures

Independent Competency Testing
Alumni and Student Surveys
Focus Group Surveys
COB Co-Op Employer Performance Appraisals

## Bachelor of Business Administration Accounting Option

In addition to the option courses listed below, the general education, BBA core and free electives must be completed. The option is composed of 27 hours of specialized courses in accounting.

ACCT 381 – Intermediate Accounting I . . . . . 3
ACCT 382 – Intermediate Accounting II . . . . . 3
ACCT 383 – Intermediate Accounting III . . . . . 3
ACCT 387 – Income Tax . . . . . 3
ACCT 390 – Cost Accounting . . . . . 3
ACCT 483 – Auditing . . . . . 3
Approved accounting electives . . . . . 9
**Total . . . . . 27**

**Approved electives for the Accounting Option:**

ACCT 339 – Cooperative Education III, or
ACCT 439 – Cooperative Education IV . . . . . 3

ACCT 375 – Accounting Analysis and Financial Decision Making . . . . . 3
ACCT 391 – Accounting Information Systems . . . . . 3
ACCT 428 – Governmental Accounting . . . . . 3
ACCT 482 – Advanced Accounting . . . . . 3
ACCT 485 – Forensic Accounting . . . . . 3
ACCT 487 – Advanced Tax Accounting II . . . . . 3
ACCT 490 – Cost Accounting II . . . . . 3

### CPA Exam

Kentucky accountancy law requires completion of 150 semester hours before taking the Uniform Certified Public Accountant Examination. Students can fulfill the 150-hour requirement by taking additional undergraduate or graduate hours beyond the bachelor's degree. Any course used to fulfill a BBA/core requirement may not also be used to fulfill a BBA/accounting option requirement. In such cases, a course or courses from the list of approved electives must be substituted for the course(s) used to fulfill the BBA/Core requirement.

## Economics

### Faculty

A. Ahmadi, R. Buck, L. Cave (IRAPP), T. Creahan, T. Ghirmay, G. Miller, M. Yasin

### Program Competencies

**Students completing the program should:**

1. Be prepared for entry level management trainee position in a manufacturing or service industry, in the public sector of the economy, or in any other major (profit or non-profit) enterprise by completing a sequence of courses which prepares the student to:
   a. do basic analysis of economic and financial events,
   b. prepare written reports concerning economic and financial events useful for making managerial and other business decisions, and
   c. present oral reports concerning economic and financial events.
2. Be qualified for graduate study in economics, finance, or other fields directly related to economics.

### Assessment Procedures

Major Field Test in Business
AACSB/EBI Undergraduate Student Satisfaction Survey
AACSB/EBI Undergraduate Alumni Survey
Test of Understanding of College Economics (TUCE) Exam
Focus Group Survey
COB Internal Survey
COB Co-Op Employer Performance Appraisals

### Bachelor of Business Administration Economics Option

In addition to the option courses listed, the general education, BBA core (page 48) and free electives must be completed. The option is composed of 27 hours of specialized courses in economics.

ECON 302 – Labor Economics, or
ECON 455 – Economic Development and Growth . . . . 3
ECON 341 – Public Finance . . . . . 3
ECON 342 – Money and Banking . . . . . 3
ECON 350 – Intermediate Microeconomics . . . . . 3
ECON 351 – Intermediate Macroeconomics . . . . . 3
ECON 410 – History of Economic Thought . . . . . 3
ECON 447 – International Economics . . . . . 3
Approved economic elective . . . . . 6
**Total . . . . . 27**

**Approved electives for the Economics Option**

ECON 302 – Labor Economics . . . . . 3
ECON 305 – Comparative Economic Systems . . . . . 3
ECON 315 – Resource Economics . . . . . 3
ECON 339 – Cooperative Education III, or
ECON 439 – Cooperative Education IV . . . . . 3
ECON 401 – Environmental Economics . . . . . 3
ECON 403 – Urban and Regional Economics . . . . . 3
ECON 455 – Economic Development and Growth . . . . 3
ECON 456 – Introduction to Econometrics . . . . . 3
FIN 373 – Investments . . . . . 3
FIN 472 – Portfolio Analysis . . . . . 3
FIN 485 – International Finance . . . . . 3
MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4
MATH 276 – Calculus III . . . . . 4
MATH 301 – Elementary Linear Algebra . . . . . 3

Any course used to fulfill a BBA/Core requirement may not also count to fulfill a BBA/Economics requirement. In such cases, a course or courses from the list of approved electives must be substituted for the course(s) used to fulfill the BBA/Core requirement.

## Finance

### Faculty

R. Albert, R. Carlson, B. Grace, I. Hullur, C. Peng

### Program Competencies

**Students completing the program should be qualified to:**

1. Analyze financial activities and/or events.
2. Write reports concerning financial activities and/or events.
3. Present oral reports concerning financial activities and/or events.
4. Use computer and other technological skills in their careers.
5. Demonstrate knowledge of ethical issues in finance.

Graduates will be prepared for entry-level positions in financial management, investment management, financial institution administration, and financial planning. In addition, graduates will be qualified for graduate study in finance, economics, management, marketing, or any other field directly related to finance.

## Assessment Procedures

Finance Exit Exam
Finance Exit Survey
AACSB/EBI Undergraduate Student Satisfaction Survey
AACSB/EBI Undergraduate Alumni Survey
COB Co-Op Employer Performance Appraisal
EBS Major Field Test in Business

## Bachelor of Business Administration Finance Option

In addition to the option courses listed below, the general education, BBA core (page 48), and free electives must be completed. The option is composed of 27 hours of specialized courses in finance.

FIN 373 – Investments . . . . . 3
FIN 420 – Financial Markets and Institutions . . . . . 3
FIN 460 – Advanced Business Finance . . . . . 3
FIN 485 – International Finance . . . . . 3
FIN 490 – Seminar in Financial Theory and Practice . . . . . 3
Approved Finance electives . . . . . 12
**Total . . . . . 27**

**Approved Finance Option Elective Courses**

ACCT/FIN 375 – Accounting Analysis and Financial Decision Making . . . . . 3
ACCT 387 – Income Tax . . . . . 3
ACCT 487 – Advanced Tax Accounting II . . . . . 3
ECON 341 – Public Finance . . . . . 3
ECON 447 – International Economics . . . . . 3
FIN 325 – Bank Management . . . . . 3
FIN 339 – Cooperative Eduction III, or
FIN 439 – Cooperative Education IV . . . . . 3
FIN/ECON 342 – Money and Banking . . . . . 3
FIN/MNGT 365 – Financial Issues for Small Business . 3
FIN 370 – Working Capital Management . . . . . 3
FIN 372 – Retirement Planning and Employee Benefits . . . . . 3
FIN 374 – Estate Planning and Taxation . . . . . 3
FIN 376 – Risk Management and Insurance . . . . . 3
FIN 472 – Portfolio Analysis . . . . . 3
REAL 331 – Real Estate Finance . . . . . 3
REAL 335 – Real Estate Investment . . . . . 3

## Students may choose one of three "tracks" to follow in the Finance Option

**Corporate Finance Track**

Finance Core . . . . . 15
Electives chosen from approved electives . . . . . 12

**Financial Planner Track**

Finance Core . . . . . 15
ACCT 387 – Income Tax . . . . . 3
FIN 372 – Retirement Planning & Employee Benefits . 3
FIN 374 – Estate Planning and Taxation . . . . . 3
FIN 376 – Risk Management and Insurance . . . . . 3

**Financial Analyst Track**

Finance Core . . . . . 15
FIN 472 – Portfolio Analysis . . . . . 3
Approved electives . . . . . 9

Any course used to fulfill a BBA/Core requirement may not also be used to fulfill a BBA/Finance requirement. In such cases, a course, or courses, from the list of approved electives must be substituted for the course(s) used to fulfill the BBA/Core requirement.

# Department of Information Systems

Elizabeth Regan, Chair
320 Combs Building
(606) 783-2163

# Computer Information Systems

### Faculty

H. Choi, D. Green, S. Hunt, E. Kim, D. Kizzier, R. McCoy, S. Nataraj, E. Regan, S. Wymer

With the explosion of the Internet and a growing dependency on information technology and digital networks in all career fields, computer competency is in high demand. The computer information systems program prepares students with the organizational and technical abilities needed for professional information technology positions in contemporary organizations. Students learn to assess business needs and develop appropriate solutions. Computer environments range from desktop hardware and software to local area networks, enterprises systems, object-oriented programming, and Internet-based technologies. Graduates typically go into positions such as systems analysts, applications programmers, Web developers, network administrators, technical support, and systems consultants.

## Program Competencies

**Students completing the program should be able to:**

1. Apply problem-solving and analytical reasoning skills within the context of information systems.
2. Understand the strategic importance of information systems as an integral part of organizational performance.
3. Apply concepts and processes of computer information systems analysis, design, development, and implementation.
4. Demonstrate a mastery of database concepts and technologies for the design, implementation, and management of information resources.
5. Design, code, and successfully execute a complex business solution using a modern programming language.
6. Demonstrate knowledge of telecommunications, networking, and multi-user, wide-area platforms.
7. Model organizational and quantitative processes and func-

tions (such as accounting, sales, distribution, and production/space as a foundation for designing information systems solutions.
8. Design and implement an Internet-based information systems solution for E-business.
9. Use project management methodology to successfully plan, execute and evaluate an information systems project for a client.

### Assessment Procedures

Graded Capstone Course Project
Faculty-Juried Programming Project
Committee-graded project
COB Co-Op Employer Performance Appraisals
AACSB/EBI Undergraduate Student Satisfaction Survey
AACSB/EBI Undergraduate Alumni Survey

## Bachelor of Business Administration Computer Information Systems Option

In addition to the option courses, students must complete the general education, BBA core (page 48) and general electives. The option is composed of 27 hours of specialized courses in computer information systems.

CIS 200 – Logic and Design of Computer Programs . . . 3
CIS 202 – Introduction to Programming-Visual Basic, and . . . . . 3
CIS 302 – Advanced Programming-Visual Basic . . . . . 3
or
CIS 205 – Introduction to Programming-C++, and
CIS 305 – Advanced Programming-C++,
or
CIS 214 – Introduction to Programming-Java, and
CIS 314 – Advanced Programming-Java
or
CIS 215 – Introduction to Programming-COBOL, and
CIS 315 – Advanced Programming-COBOL
CIS 325 – Analysis and Design of Information Systems . . . . . 3
CIS 340 – Telecommunications and Networking . . . . . 3
CIS 405 – Web Development Strategies and E-Commerce . . . . . 3
CIS 426 – Database Management Systems . . . . . 3
CIS 490 – IT Project Management and Systems Project . . . . . 3
Approved CIS electives . . . . . 3
**Total . . . . . 27**

**Approved electives for the CIS Option**

BIS 320 – Web Technologies and Information Architecture . . . . . 3
BIS 322 – Systems Security . . . . . 3
BIS 350 – Computer Systems Support & Security . . . . . 3
CIS 202 – Introduction to Programming-Visual Basic . . . . . 3
CIS 205 – Introduction to Programming-C++ . . . . . 3
CIS 211 – Advanced Microcomputer Applications . . . . 3
CIS 214 – Introduction to Programming-Java . . . . . 3
CIS 215 – Introduction to Programming-COBOL . . . . . 3
CIS 302 – Advanced Programming-Visual Basic . . . . . 3
CIS 303 – Data Structures . . . . . 3
CIS 305 – Advanced Programming-C++ . . . . . 3
CIS 314 – Advanced Programming-Java
CIS 315 – Advanced Programming-COBOL . . . . . 3
CIS 339 – Cooperative Education III, or
CIS 439 – Cooperative Education IV . . . . . 3
CIS 414 – Designing and Implementing Collaborative Solutions . . . . . 3
CIS 430 – Advanced Topics in Information Systems . . . 3
CIS 442 – Network Administration . . . . . 3
CIS 443 – Advanced Computer Networking Administration . . . . . 3

## Minor in Business Administration Computer Information Systems

**Requirements for minor in CIS**

CIS 200 – Logic and Design of Computer Programs . . . 3
CIS 202 – Introduction to Programming-Visual Basic . . . . . 3
CIS 205 – Introduction to Programming-C++, or
CIS 215 – Introduction to Programming- COBOL . . . . . 3
CIS 305 – Advanced Programming-C++, or
CIS 315 – Advanced Programming-COBOL . . . . . 3
CIS 311 – Management Information Systems . . . . . 3
CIS 340 – Telecommunications and Networking . . . . . 3
CIS 405 – Web Development Strategies and E-commerce, or
BIS 320 – Web Technologies and Information Architecture . . . . . 3
CIS approved electives . . . . . 3
**Total . . . . . 24**

**Approved electives for the CIS Minor**

BIS 320 – Web Technologies and Information Architecture . . . . . 3
BIS 350 – Computer Systems Support & Security . . . . . 3
CIS 211 – Advanced Microcomputer Applications . . . . 3
CIS 303 – Data Structures . . . . . 3
CIS 314 – Advanced Programming-Java . . . . . 3
CIS 325 – Analysis and Design of Information Systems . . . . . 3
CIS 405 – Web Development Strategies & E-commerce . . . . . 3
CIS 426 – Database Management Systems . . . . . 3
CIS 442 – Network Administration . . . . . 3

## Business Information Systems
### Faculty
D. Everett, S. Hunt,
H. Iwu, D. Kizzier, E. Regan

Forecasts reveal businesses that will dominate the global economy of the future will be information, technology, and knowledge-based organizations. Against this scenario, the emerging information technologies are requiring a new breed of IT professional – a person who understands the needs of the business as well as information technology and its potential for enhancing productivity at the desktop. According to the U.S. Bureau of Labor Statistics, the demand for information technology professionals exceeds the supply and this trend will continue at least through 2006.

The BIS area of concentration prepares undergraduates who "bridge the gap" between the developer of information systems and the typical end users of computers. This area of concentration also emphasizes how information technology contributes to individual and work group performance in the digital economy.

The BBA in Business Information Systems (BIS) equips students for non-programming-related job opportunities in the information technology area. Entry-level career titles may include software trainer, director of online learning, PC specialist, technology coordinator, electronic meeting facilitator, Web designer, help-desk administrator, LAN administrator and information systems consultant.

The BBA in BIS follows the nationally-validated Organizational & End-User Information Systems Model Curriculum, published by the Organizational Systems Research Association (OSRA), which now has its national headquarters at Morehead State University.

### Program Competencies
**Students completing the program should be able to:**

1. Assess the need for, implement, and evaluate information technologies for the desktop computer environment.
2. Analyze the needs of end users in a variety of business functions and recommend help-desk support solutions to improve performance.
3. Assess the need for, implement, and evaluate networking environments.
4. Evaluate and select IT hardware platforms/software acquisitions for the business professional.
5. Apply information technology to support workplace performance at all organizational levels.
6. Apply principles of Web site design and Internet technologies to customer requirements for Web development.
7. Analyze software applications in the global workplace of information-based, technology-based, or knowledge-based organizations.
8. Assess the need for, design, implement, and evaluate IT training programs for business professionals working in organizations.
9. Analyze comprehensive IT cases that focus upon information systems technology, global and ethical issues, and identify problems or decisions associated with end-user information systems.
10. Assess how Web collaboration tools and group support systems assist an organization to acquire, store, and use knowledge for problem solving and strategic planning.

### Assessment Procedures
Nationally Validated Information Management Exam
Electronic (GSS) Brainstorming Focus Sessions with BIS Seniors
COB Internal Survey
COB Co-Op Employer Performance Appraisals
Scores on Simulated MOUS Assessment Exams

### Bachelor of Business Administration
### Business Information Systems Option
In addition to the option courses, students must complete the general education, BBA core (page 47), and general electives. The option is composed of 27 hours of specialized courses in both Business Information Systems (BIS) and Computer Information Systems (CIS).

**BIS Option Requirements**

| | |
|---|---|
| BIS 320 – Web Technologies & Information Architecture | 3 |
| BIS 350 – Computer Systems Support & Security | 3 |
| BIS 425 – Training and Development for Industry | 3 |
| BIS 440 – Planning and Implementation of IT | 3 |
| BIS 490 – Cases in Information Technology | 3 |
| BIS 398 – Practicum in Information Systems, or CIS 439 – Cooperative Education IV | 3 |
| CIS 211 – Advanced Microcomputer Applications | 3 |
| CIS 340 – Telecommunications and Networking | 3 |
| BIS/CIS – Approved electives | 3 |
| **Total** | **27** |

**Approved Electives for the BIS Option**

| | |
|---|---|
| BIS 322 – Systems Security | 3 |
| BIS 330 – Collaborative Technologies & Knowledge Management | 3 |
| CIS 325 – Analysis and Design of Information Systems | 3 |
| CIS 442 – Network Administration | 3 |

### Minor in Business Administration
### Business Information Systems

**Course Requirements**

| | |
|---|---|
| BIS 290 – End User Application Development | 3 |
| BIS 320 – Web Technologies and Information Architecture | 3 |
| BIS 350 – Computer Systems Support & Security | 3 |

BIS 425 – Training and Development for Industry . . . . . 3
BIS 440 – Planning and Implementation of IT . . . . . 3
CIS 211 – Advanced Microcomputer Applications . . . . 3
CIS 311 – Management Information Systems . . . . . 3
CIS/BIS – Approved Electives . . . . . 3
**Total . . . . . 24**

**Approved Electives for BIS Minor**

BIS 216 – Advanced Document Processing . . . . . 3
BIS 321 – Business Communications . . . . . 3
BIS 330 – Collaborative Technologies & Knowledge Management . . . . . 3
BIS 490 – Cases in Information Technology . . . . . 3
CIS 340 – Telecommunications and Networking . . . . . 3

## Business & Information Technology Education

### Faculty

D. Everett, H. Iwu

The mission of the Business and Information Technology Education program is to prepare exemplary educators in business, computer, and marketing education. Forecasters reveal that the workplace will continue to become more dependent on workers who have skills in computer hardware and software, have knowledge in business and computer systems, and display the attitude to continue to learn and grow. Students who elect the teacher-training specialty in the Information Systems department are entering into an arena where they have an opportunity to impact this future by preparing their students to compete for and enter the dynamic, global work environment.

The Business and Information Technology Education program is designed for those students who are seeking certification to teach business, computer, and marketing courses in Grades 5-12. By completing this program, students are earning the Kentucky Business and Marketing Education certification. An endorsement (18 hours) also may be completed for teaching computer science.

### Program Competencies

**Students completing the program should acquire the following competencies:**

1. Formulate objectives, courses of study, and evaluation criteria for a business and information technology education curriculum in grades 5-12.
2. Demonstrate the ability to use a variety of teaching methods and effective classroom management techniques in the business and information technology education classroom.
3. Infuse technology effectively into course content in the grades 5-12 classroom.

### Students completing the program should be able to teach the following concepts as approved by the Kentucky Department of Education:

1. Develop career awareness and related skills to enable students to make viable career choices and become employable in a variety of business and marketing careers.
2. Communicate effectively as writers, listeners, and speakers in business and marketing settings.
3. Use accounting procedures to make decisions about planning, organizing, and allocating resources.
4. Analyze and interpret the legal system as it affects consumers, producers, and/or entrepreneurs.
5. Practice economic literacy through the development of economic skills, a knowledge of social and government responsibility, and an understanding of business and marketing operations.
6. Select and apply tools of technology as they relate to business and marketing situations.
7. Manage data from all of the functional areas of business and marketing needed to make effective management decisions.
8. Demonstrate entrepreneurial skills drawing from a general understanding of all aspects of business and marketing.
9. Describe the interrelationships of different functional areas of business and marketing and the impact of one component on another.
10. Apply marketing functions as they relate to products and services.
11. Develop the ability to participate in business and marketing transactions in both domestic and international arenas.

### Assessment Procedures

Overall GPA of 2.5 for admission to and retention in the Teacher Education Program
Surveys of secondary supervisors of student teachers
Surveys of graduates
Exit proficiency examinations
Development of a teaching portfolio

### Bachelor of Business Administration Business and Information Technology Education Option

In addition to the BBA general education course requirements, students must complete the designated BBA core courses, specialized courses in BIS and CIS, and professional education courses listed below.

### General Education Requirements

*Note: Unless otherwise indicated, the courses listed are required for Business and Information Technology Education majors*.

**Required Core**

CIS 101 – Computers for Learning . . . . . 3
CMSP 108 – Fundamentals of Speech Communication . . . . . 3
ENG 100 – Writing I . . . . . 3

ENG 200 – Writing II . . . . . 3
MATH 152 – College Algebra . . . . . 3
**Total . . . . . 15**

## Area Studies

Only one course may be chosen from each prefix in Area Studies courses; for example, only one course from the three ART courses may be chosen to satisfy the nine hours of humanities for the Area Studies General Education Requirements.

*Humanities*
*(listed under General Education page 24-25)* . . . . . 9
*Natural and Mathematical Sciences*
MATH 354 – Business Statistics . . . . . 3
Any two courses from BIOL, CHEM, GEOS, PHYS, or SCI courses listed under
General Education (three hours per prefix) . . . . . 6

*Social and Behavioral Sciences*
ECON 201 – Principles of Macroeconomics . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
Any course listed under general education from AGR, GEO, GOVT, HIS, IET, NAHS, PSY, RAPP, SOC, or WST . . . . . 3

*Practical Living*
FIN 264 – Personal Finance . . . . . 3

**Integrative Component**
BIS 499C – Teaching Methods in Business and Information Technology Education . . . . . 6
**General Education Total . . . . . 48**

**BBA Supplemental Requirement**
ECON 202 – Principles of Microeconomics . . . . . 3

**Supplemental Requirement**
MSU 101 – Discovering University Life . . . . . 1

## BBA Core for Business and Information Technology Education Option

ACCT 281 – Principles of Financial Accounting . . . . . 3
ACCT 282 – Principles of Managerial Accounting . . . . 3
BIS 321 – Business Communications . . . . . 3
BIS 421 – Business and Technical Presentations . . . . . 3
CIS 311 – Management Information Systems . . . . . 3
MNGT 261 – The Legal Environment of Business Organizations . . . . . 3
MNGT 301 – Principles of Management . . . . . 3
MKT 304 – Marketing . . . . . 3
One approved MKT elective . . . . . 3
**Total . . . . . 27**

## BIS/CIS Courses for Business and Information Technology Education Option

BIS 216 – Advanced Document Processing . . . . . 3
BIS 320 – Web Technologies and Information Architecture . . . . . 3
BIS 330 – Collaborative Technology and Knowledge Management . . . . . 3
BIS 350 – Computer Systems Support & Security . . . . . 3
BIS 425 – Training and Development for Industry . . . . 3
BIS 440 – Planning and Implementation of IT . . . . . 3
*BIS 499C – Teaching Methods in Business and Information Technology Education . . . . . *
CIS 211 – Advanced Microcomputer Applications . . . . 3
CIS 340 – Telecommunications and Networking, or
CIS 442 – Network Administration . . . . . 3
**Total . . . . . 24**

** This course is calculated in the hours for General Education.*

Before enrolling in 300 and above education courses, students must apply for and be admitted to the Teacher Education Program. For specific requirements, please refer to the Teacher Education Program information in the College of Education section of this catalog.

**Professional Education**
*BIS 499C – Teaching Methods in Business and Information Technology Education . . . . . •
EDF 207 – Foundations of Education . . . . . 3
EDF 311 – Learning Theories and Assessment in Education . . . . . 3
EDMG 306 – Development and Learning in Middle Grades . . . . . 3
EDSE 416 – Clinical Practice . . . . . 12
EDSE 483 – Classroom Organization and Management for Secondary Teachers . . . . . 3
EDSP 332 – Teaching the Exceptional Student . . . . . 2
**Total . . . . . 26**

**This course is calculated in the hours for General Education.*

All teacher applicants for initial certification in Kentucky shall complete the PRAXIS II Business Education content test (0100) and the Principles of Learning and Teaching test (30524) to meet the standards set by the Kentucky State Department of Education (704 KAR 20:670).

## Department of Management, Marketing, & Real Estate

Gregory R. Russell, Chair
(606) 783-2164
313 Combs Building

## Management

### Faculty

M. Harford, A. Hassan,
F. Mohamed, G. Russell

### Program Competencies

**Students completing the program will be able to:**

1. Identify legal and ethical issues in business and understand appropriate courses of action.
2. Work effectively as first-line managers and leaders. Our graduates will have an understanding of motivation, leadership, and teamwork consistent with effective organizational management.
3. Understand the business and managerial tasks associated with developing and executing organizational strategies. They will understand the implications of those strategies for both the firm's operations and its stakeholders.

### Assessment Procedures

Management exit examination
College of Business Alumni Survey
College of Business Alumni Focus Groups
College of Business Student Focus Groups

### Bachelor of Business Administration Management Option

In addition to the option courses listed below, the general education, BBA core and free electives must be completed. The Management Core is the five required courses in Management common to both of the Management tracks.

MNGT 306 – Production and Quality Management . . . 3
MNGT 310 – Small Business Organization . . . . . 3
MNGT 311 – Human Resource Management . . . . . 3
MNGT 463 – Law and Ethics of Business . . . . . 3
MNGT 475 – Business Leadership and Teamwork . . . . 3
**Total . . . . . 15**

*Students must choose a "track" to complete the 27 hours in the Management Option.*

### Management Track (General)

**Management Option Core . . . . . 15**
MNGT 357 – Business Information and Industry Analysis . . . . . 3
Management Elective (MNGT prefix) . . . . . 3
Business Elective chosen from approved electives . . . . 6

### International Management Track

**Management Option Core . . . . . 15**
ECON 447 – International Economics, or
FIN 485 – International Finance . . . . . 3
MKT 469 – International Marketing . . . . . 3
MNGT 409 – International Management . . . . . 3
Business Elective chosen from approved MNGT elective . . . . . 3

*In addition, students in the International Management Track will be required to complete:*

1. **Six hours** of study in a foreign language or its equivalent (as approved by the department chair); and
2. IST 301 – International Studies Study Abroad, **one hour** credit for participation in a Kentucky Institute of International Studies (KIIS), Cooperative Center for Study Abroad (CCSA) program, or another international study program pre-approved by the department chair.

**Approved electives for the Management Option**

ECON 447 – International Economics . . . . . 3
FIN 342 – Money and Banking . . . . . 3
FIN 373 – Investments . . . . . 3
MKT 305 – Purchasing . . . . . 3
MKT 345 – Marketing Strategies for Small Business . . 3
MKT 350 – Personal Selling . . . . . 3
MKT 351 – Sales Management . . . . . 3
MKT 354 – Consumer Behavior . . . . . 3
MKT 451 – Retail Marketing . . . . . 3
MKT 452 – Market Research and Analysis . . . . . 3
MKT 469 – International Marketing . . . . . 3
MNGT 339 – Cooperative Education III, or
MNGT 439 – Cooperative Education IV . . . . . 3
MNGT 362 – The Legal Envir. & Business Practices . . 3
MNGT/FIN 365 – Financial Issues for Small Business . . . . . 3
MNGT 399 – Selected Workshop Topics . . . . . 3
MNGT 409 – International Management . . . . . 3
MNGT 411 – Labor Relations . . . . . 3
MNGT 417 – Management and Marketing of Public and Non-Profit Organizations . . . . . 3
MNGT 420 – New Venture Creation . . . . . 3
MNGT 425 - Training and Development in Industry . . . 3
MNGT 476 – Special Problems in Management . . . . . 3
REAL 105 – Principles of Real Estate . . . . . 3
REAL 309 – Real Estate Land Planning and Development . . . . . 3
REAL 330 – Real Estate Property Management . . . . . 3
REAL 335 – Real Estate Investment . . . . . 3

### Bachelor of Business Administration

#### Small Business Management & Entrepreneurship Option

In addition to the option courses listed, the general education, BBA core and free electives must be completed. The option is

comprised of five required courss, an International Business elective, and three approved electives.

MNGT 310 – Small Business Organizations . . . . . 3
MNGT 311 – Human Resource Management . . . . . 3
MKT 345 – Marketing Strategies for Small Business . . . . 3
FIN/MNGT – 365Financial Issues for Small Business . . . 3
MNGT 420 – New Venture Creation . . . . . 3
International Business Elective . . . . . 3
Approved Small Business Mgnt & Entrepren. electives . . 9
**Total** . . . . . 27

**International Business Elective . . . . . 3**
(choose one of the following courses)
MNGT 409, MKT 469, ECON 447, or FIN 485

**Approved Electives - Small Business & Entrepreneurship Option**
MNGT 339 - Cooperative Education III, or
MNGT 439 - Cooperative Education IV . . . . . 3
MNGT 463 - Law & Ethics in Business . . . . . 3
MNGT 475 - Leadership . . . . . 3
MNGT 476 - Special Problems in Management . . . . . 3
MKT 340 - Interactive E-Marketing . . . . . 3
REAL 105 - Real Estate Principles . . . . . 3
FIN 370 - Working Capital Management. . . . . 3
CIS 211 - Advance Microcomputer Applications . . . . . 3
BIS 320 - Web Tech. & Informational Architecture . . . . 3
Additional International Course
(choose one of the following courses. Must be a different course than **International Business Elective**
MNGT 409, MKT 469, ECON 447, or FIN 485 . . . . . 3

# Marketing

## Faculty

K. Henderson, M. Kunz, B. Lyons, P. Osborne

## Program Competencies

**Students completing the program should possess the ability to:**

1. Demonstrate a general knowledge of key marketing principles.
2. Demonstrate knowledge of problem-solving techniques and use of those skills in marketing decisions.
3. Analyze comprehensive cases describing organizations, identify problems or decisions associated with marketing, and plan courses of action for solving the problems or making decisions.
4. Develop career awareness and related skills to enable students to make viable career choices and become employable in a variety of marketing careers.
5. Use interpersonal team and leadership skills necessary to function in an organizational setting.

## Assessment Procedures

Marketing Exit Exam
Marketing Exit Survey
Marketing Exit Interview
COB Co-Op Employer Performance Appraisals

## Bachelor of Business Administration Marketing Option

In addition to the option courses listed, the general education, BBA core and free electives must be completed. The option is composed of 27 hours of specialized courses in marketing.

MKT 350 – Personal Selling . . . . . 3
MKT 354 – Consumer Behavior . . . . . 3
MKT 452 – Marketing Research and Analysis . . . . . 3
MKT 453 – Marketing Planning and Strategies . . . . . 3
MKT 454 – Integrated Marketing Communication . . . . 3
MKT 469—International Marketing . . . . . 3
Approved Marketing electives . . . . . 9
(six of the nine hours must have a MKT prefix)
**Total . . . . . 27**

**Approved electives for the Marketing Option**
MKT 339 – Cooperative Education III, or
MKT 439 – Cooperative Education IV . . . . . 3
MKT 340 – Interactive E-Marketing . . . . . 3
MKT 345 – Marketing Strategies for Small Business . . 3
MKT 351 – Sales Management . . . . . 3
MKT 365 – Services Marketing . . . . . 3
MKT 370 – E-tailing and Non-store Marketing . . . . . 3
MKT 451 – Retail Marketing . . . . . 3
MKT 455 – Advertising . . . . . 3
MKT 476 – Special Problems in Marketing . . . . . 3
MNGT 463 – Law and Ethics in Business . . . . . 3
REAL 320 – Real Estate Marketing . . . . . 3

## Minor in Business Administration Marketing

**Requirements for Marketing Minor**
MKT 304 – Marketing . . . . . 3
MKT 350 – Personal Selling. . . . . 3
MKT 354 – Consumer Behavior. . . . . 3
MKT 454 – Integrated Marketing Communication . . . . 3
Approved Marketing Minor electives . . . . . 12
**Total . . . . . 24**

**Approved electives for the Marketing Minor**
MKT 340 – Interactive E-Marketing . . . . . 3
MKT 345 – Marketing Strategies for Small Business . . 3
MKT 351 – Sales Management . . . . . 3
MKT 365 – Services Marketing . . . . . 3
MKT 370 – E-tailing and Non-store Marketing . . . . . 3
MKT 451 – Retail Marketing . . . . . 3
MKT 469 – International Marketing . . . . . 3

# Real Estate
## Faculty
L. Cowart

### Program Competencies
**Students completing the program should possess the ability to:**

1. Demonstrate knowledge of basic real estate principles and law.
2. Demonstrate career awareness and be employable in a variety of real estate careers.
3. Use real estate principles to make decisions regarding real estate sales and financial transactions, property valuation, legal issues, and property management.
4. Explain the role of the licensed real estate broker and sales associate in the real estate transaction.
5. Calculate and explain sales and lease financial arrangements in real estate.

### Assessment Procedures
Kentucky Real Estate Exam
Focus Group Survey
COB Internal Survey
COB Co-Op Employer Performance Appraisals

### Bachelor of Business Administration Real Estate Option
In addition to the option courses listed below, the general education, BBA core and free electives must be completed. The option is composed of 27 hours of specialized courses in real estate.

**Option Requirements**
REAL 105 – Principles of Real Estate . . . . . 3
REAL 310 – Real Estate Law . . . . . 3
REAL 320 – Real Estate Marketing . . . . . 3
REAL 325 – Appraisal of Residential Property . . . . . 3
REAL 331 – Real Estate Finance . . . . . 3
Approved Real Estate electives . . . . . 12
**Total . . . . . 27**

**Approved electives for the Real Estate Option**
REAL 200 – Real and Personal Property Auctions . . . . 3
REAL 303 – Real Estate Market Analysis . . . . . 3
REAL 309 – Real Estate Land Planning and Development . . . . . 3
REAL 330 – Real Estate Property Management . . . . . 3
REAL 335 – Real Estate Investment . . . . . 3
REAL 339 – Cooperative Education III, or
REAL 439 – Cooperative Education IV . . . . . 3
REAL 345 – Appraisal of Income Property . . . . . 3
REAL 399 – Selected Workshop Topics . . . . . 3
REAL 400 – Real Estate Brokerage . . . . . 3
REAL 425 – Advanced Property Appraisal . . . . . 3
REAL 476 – Special Problems in Real Estate . . . . . 3

### Minor in Business Administration Real Estate
**Course Requirements**
REAL 105 – Principles of Real Estate . . . . . 3
REAL 310 – Real Estate Law . . . . . 3
REAL 320 – Real Estate Marketing . . . . . 3
REAL 325 – Appraisal of Residential Property . . . . . 3
REAL 331 – Real Estate Finance . . . . . 3
Approved Real Estate electives . . . . . 9
**Total . . . . . 24**

# Associate of Applied Business (AAB)
## Computer Information Systems

The AAB Degree with a CIS Option prepares students for a variety of entry-level positions requiring information technology skills. In addition, students may apply credit earned toward the Bachelor of Business Administration degree (BBA) CIS or BIS Options upon graduation or at a later time.

### Program Competencies
**Students completing the program should be able to:**

1. Understand business fundamentals required for success in contemporary organizations.
2. Understand basic concepts of computer programming design and logic.
3. Demonstrate proficiency in advanced microcomputer applications.
4. Troubleshoot and maintain PC hardware and software.
5. Code a moderately complex problem in COBOL or C++ and have that program execute successfully.

**General Education**
CIS 101 – Computers for Learning . . . . . 3
CMSP 108 – Fundamentals of Speech Communication . . . . . 3
ECON 201 – Principles of Macroeconomics . . . . . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
FIN 264 – Personal Finance . . . . . 3
MATH 152 – College Algebra . . . . . 3
Humanities (one course from approved list) . . . . . 3
**Total . . . . . 24**

**Suppmemental Requirement**
MSU 101 – Discovering University Life . . . . . 1

**BBA Supplemental Requirement**
ECON 202 – Principles of Microeconomics . . . . . 3

**Business Core**
ACCT 281 – Principles of Financial Accounting . . . . . 3
ACCT 282 – Principles of Managerial Accounting . . . . 3
BIS 321 – Business Communications . . . . . 3

MKT 304 – Marketing . . . . . 3
MNGT 261 – The Legal Environment of Business Organizations . . . . . 3
MNGT 301 – Principles of Management . . . . . 3
**Total . . . . . 18**

**CIS (AAB) Option Requirements**
The option is composed of 15 hours – nine hours of required CIS courses plus six hours of approved electives.
CIS 101 – Computers for Learning . . . . . 3
CIS 200 – Logic and Design of Computer Programs . . . 3
CIS 202 – Introduction to Programming-Visual Basic . . . . . 3
CIS 205 – Introduction to Programming-C++, or
CIS 215 – Introduction to Programming-COBOL . . . . . 3
CIS 340 – Telecommunications and Networking . . . . . 3
Approved CIS Electives . . . . . 6
Total . . . . . 18
**Total hours for degree . . . . . 64**
**Approved Electives for CIS Option**
BIS 320 – Web Technologies and Information Architecture . . . . . 3
BIS 350 – Computer Systems Support and Security . . . . . 3
CIS 211 – Advanced Microcomputer Applications . . . . 3
CIS 305 – Advanced Programming-C++ . . . . . 3
CIS 314 – Advanced Programming-Java . . . . . 3
CIS 315 – Advanced Programming-COBOL . . . . . 3

## Associate of Applied Business (AAB)
### Business Information Systems

The AAB in Business Information Systems offers training in vital administrative support and computer support areas. Students are prepared for a variety of entry-level positions requiring information technology skills. In addition, students may apply credit earned to continue with the Bachelor of Business Administration (BBA) degree, CIS or BIS Options upon graduation or at a later time.

### Program Competencies

**Students completing the program should be able to:**

1. Understand business fundamentals required for success in contemporary organizations.
2. Demonstrate proficiency in basic PC productivity tools.
3. Demonstrate basic skill with multimedia software and hardware.
4. Design and publish a Web page.
5. Understand the fundamentals of knowledge management.
6. Understand the requirements for effective administrative and computer support.

**General Education Requirements**
CIS 101 – Computers for Learning . . . . . 3
CMSP 108 – Fundamentals of Speech Communication . . . . . 3
ECON 201 – Principles of Macroeconomics . . . . . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
FIN 264 – Personal Finance . . . . . 3
MATH 152 – College Algebra . . . . . 3
Humanities (Choose one course from approved list) . . . 3
**Total . . . . . 24**

**Supplemental Requirement**
MSU 101 – Discovering University Life . . . . . 1

**BBA Supplemental Requirement**
ECON 202 – Principles of Microeconomics . . . . . 3

**Business Core**
ACCT 281 – Principles of Financial Accounting . . . . . 3
ACCT 282 – Principles of Managerial Accounting . . . . 3
BIS 321 – Business Communications . . . . . 3
MKT 304 – Marketing . . . . . 3
MNGT 261 – The Legal Environment of Business Organizations . . . . . 3
MNGT 301 – Principles of Management . . . . . 3
**Total . . . . . 18**

**BIS (AAB) Option Requirements**
*Choose six courses from the following*
BIS 116 – Basic Word Processing . . . . . 3
BIS 216 – Advanced Document Processing . . . . . 3
BIS 240 – Information Resource Management . . . . . 3
BIS 290 – End User Application Development . . . . . 3
BIS 320 – Web Technologies and Information Architecture . . . . . 3
CIS 211 – Advanced Microcomputer Applications . . . . 3
**Total . . . . . 18**
**Total for degree . . . . . 64**

MOREHEAD STATE UNIVERSITY

# College of Education

## College of Education at a Glance

**Cathy Gunn, Dean**
100 Ginger Hall
(606) 783-2040
E-mail: c.gunn@moreheadstate.edu

### Department of Curriculum and Instruction

BA - Interdisciplinary Early Childhood Education
BA - Elementary Education P-5
BA - Elementary Education 5-9
BA - Learning and Behavior Disorders P-12
BA - Moderate and Severe Disability P-12

### Department of Health, Physical Education & Sport Sciences

BA - Physical Education P-12
BS - Exercise Science
BA - Health and Physical Education P-12
BA - Health P-12
BA - Health Promotion
BA - Sport Management

### Department of Professional Programs in Education

Graduate Degrees Only
Undergraduate Courses

**Educational Service Unit**
**Teacher Recruitment Program**
**Teacher Education Program Admissions**
**Clinical Practice Placement**
**Clinical & Field Scheduling**
**Teacher Certification**
**Kentucky Teacher Internship Program**

## Teacher Education Program (TEP) and Professional Experiences

*Regulations are subject to change by the Educational Professional Standards Board (EPSB) and/or the University Teacher Education Council. Due to on-going changes in the TEP, students need to work with their advisors to plan their programs.*

Teacher education is a field-based program that provides extensive field experiences with students in area schools. Field experiences assist the University student in understanding the function of public school teaching and practical experiences in methodology. Each professional education course contains a required field experience component. Placements are made in cooperation with instructors and the Coordinator of Field Experiences.

All education majors are required to complete field experiences prior to student teaching. Program specific requirements for field experiences are noted in the current TEP Handbook.

Students who complete bachelor's degree programs leading to teacher certification are recommended for a Kentucky Statement of Eligibility to enter the Kentucky Teacher Internship Program in their first year of teaching. Students must successfully complete the PRAXIS Speciality Exam(s) and the Principles of Learning and Teaching Test with passing scores, as required by the EPSB. Program changes occur as a result of recommendations of the Kentucky Department of Education and/or the EPSB. Students should check with their advisors regarding test requirements prior to completing their programs.

## Teacher Education Program

Students seeking teacher certification must apply for and be admitted to the TEP. Students will be required to meet admission standards concurrent with their application to teacher education. They must select areas of concentration and/or major(s) that are certifiable.

All students must demonstrate knowledge and expertise in the use of computers either through the College Level Examin-ation Program (CLEP) or by successfully completing a computer class or approved workshop.

## Teacher Education Program Policies Handbook

The *Teacher Education Program Policies Handbook* is revised annually. This booklet can be purchased in the Education Service Unit, 801 Ginger Hall or downloaded online at www.moreheadstate.edu/esu. The policies set forth in the current handbook must be met at the time of application.

## Elementary, Middle Grades and Special Education

Students in elementary and middle grades education must select an area of concentration in either early elementary (teaching certification in grades P-5) or middle grades (teaching certification in grades 5-9). Students in special education must select an area of concentration in learning and behavior disorders (LBD) or (MSD). Within each of those areas, a student may choose, P-12 + P-5 certification, or P-12 + 5-9 certification.

The areas of concentration in special education provide teaching certification in LBD and MSD for grades primary through grade 12 (P-12). Special education teachers who receive dual certification may teach in either special education or regular classrooms.

Students may select an approved major which will require additional classes. There is a non-teaching major and a non-teaching minor in special education.

## Secondary Education

Students seeking initial secondary certification are required to complete a bachelor's degree from the following teaching preparation programs: English, mathematics, social studies, biological science, agriculture, business and marketing education, human sciences, industrial education, art, Spanish, French, health, physical education, music, chemistry, physics, or earth and space science.

## Application to the Teacher Education Program

Any student making application to the TEP must first be admitted to the University. IET majors should apply after completing CTE 207 – Foundations of Vocational Education and EDF 211 – Human Growth and Development. Failure to apply at the sophomore level may result in an extended program.

## TEP Portfolio

Students making application to the TEP must submit a portfolio to the TEP Coordinator by the dates published in the current TEP Handbook. The portfolio, the formal application to the TEP, is to include the following:

1. An up-to-date official transcript.
2. An up-to-date official degree audit checksheet.
3. A resume.
4. Two recommendations. The recommendations cannot be older than one year at the time of the student's application to TEP.
5. A statement of the student's philosophy of education, including the relationship of education to society (maximum of three typed pages, double-spaced).
6. A half-page, double-spaced, typed description of relevant experiences the student has had in working with children or youth. Supporting material may be attached.
7. Test scores on file in MSU Testing Center.
8. Proof of successful completion of the writing proficiency requirement.
9. A self-assessed formal Disposition form.

### TEP Application for Transfer Students Admitted at Another Kentucky Institution

Transfer students who were admitted to a TEP at another Kentucky institution may submit evidence of their admission and the above portfolio materials to the TEP Coordinator immediately upon admission to MSU. These students will be exempt from the interview requirement for admission to the MSU TEP.

## Writing Proficiency Requirement

Students applying for TEP at MSU must take the Writing Sub-Test of the Pre-Professional Skills Test (PPST) and obtain a minimum score of 172.

The PPST Writing Sub-Test is available in two formats. Test dates and test sites (which include MSU) are listed in the Educational Testing Service Registration Booklet, which is available in the MSU Testing Center (501 Ginger Hall). The computer-based version is available in most major cities, including Lexington, Covington, and Louisville. Check the ETS Web site or PRAXIS Registration Bulletin for additional information and/or to schedule testing. Please allow ample time for test results to be submitted to the MSU Testing Center prior to applying for admission.

EXCEPTION: Candidates obtaining a grade of "B" or better (or CLEP) in both ENG 100 and ENG 200 will be exempted from the PPST Writing Test.

## Criteria for Admission

1. The applicant must have completed 45 semester hours if the applicant is a secondary major; 30 semester hours if in the interdisciplinary early childhood education (IECE), elementary, middle school, and/or special education program of study.
2. An up-to-date official copy of the student's transcript with a minimum GPA of 2.5 on a 4.0 scale. All college courses attempted must be a part of the applicant's portfolio. All transfer courses, as well as MSU credit, are used in calculating the GPA.
3. Two recommendation forms stating the applicant's qualifications must accompany the portfolio (must be completed within the past calendar year).
4. The student must have a minimum ACT score of 21 with minimum subtest scores of 10 or minimum ACT score of 18, 19, or 20 with minimum subtest scores of 10 AND Pre-Professional Skills Test (PPST) scores of Reading 173, Math 173 and Writing 172; or 750 Graduate Record Exam (GRE); or SAT 990; or 18, 19, 20 ACT composite with a minimum of 10 on each subtest. AND upon successful completion of 80 credit hours and with written permission from the candidate's academic advisor, passing scores on all required PRAXIS content area tests.
5. Successful completion of prerequisite courses, with grades of "C" or better (ENG 100, ENG 200, CMSP 108, EDF 207, and EDF 211 or HS 253) and prescribed clinical and field experiences.
6. Demonstrated proficiency in oral and written communication (see "Writing Proficiency" above).
7. Demonstrate moral, ethical, and social behavior commensurate with the standards of the school and community at large.
8. Successful completion of an interview with the Department Admissions Interview Committee.
9. Transfer students who were recently admitted to a TEP at another Kentucky institution may provide evidence of their admission in lieu of the interview provided they are applying for admission to the same program or major. Transfer students must meet all other requirements listed above.
10. All students applying to the TEP must sign a declaration affirming: (1) a commitment to upholding the Professional Code of Ethics for Kentucky; (2) knowledge of the TEP Handbook; (3) knowledge of requirements for certification; and (4) no felony convictions.

Once these items are screened by the TEP Coordinator, students are required to go before the TEP Admission Interview Committee. This committee will make a recommendation to the Teacher Education Council about the TEP admission.

Transfers and graduate students seeking initial certification must also apply for admission to the program and meet criteria outlined above.

Transfer of appropriate education courses from another institution is contingent upon successful completion of required field experiences in the public schools and clinical experiences on campus. Documentation is required. Substitution of education courses shall be approved by the appropriate department in the College of Education. No transfer grades below "C" are accepted in IECE, early elementary, middle grades, or special education programs.

Education courses completed more than five years prior to readmission or initial admission in a provisional certification program shall be reviewed for program needs or deficiencies. The review shall be conducted by the appropriate department in the College of Education.

Retention in the TEP is dependent upon maintaining admission requirements. Any student whose admission is deferred or suspended may reapply for admission once each semester.

## TEP Orientation Session

After the interview, applicants must attend a TEP orientation session. The sessions will be scheduled prior to pre-registration at the main campus and extended campus centers. Candidates' admissions will not be finalized and they will not be able to register for restricted courses until they have attended the orientation.

*Courses for which admission to TEP is a prerequisite:*

AGR 392 – Methods of Instructional Technology
AGR 470 – Methods of Instruction
AGR 478 – Clinical Practice in Agriculture
ART 300 – Elementary Materials and Methods
ART 301 – Field Experience in Art Education
ART 321 – Materials and Methods for Secondary Art
BIOL 402 – Integrated Biology, Mathematics, and Physical Sciences Teaching Methods
BIOL 403 – Integrated Biology, Mathematics, Physical Sciences Field Experiences in Teaching
BIS 499C – Teaching Methods in Business and Information Technology Education
CTE 392 – Methods of Instructional Technology
CTE 470 – Methods of Instruction
CTE 478 – Clinical Practice
EDEC 526 – Activities and Materials: Infants and Toddlers
EDEC 528 – Activities and Materials: 3-5 year olds

EDEE 321 – Teaching Math in Early Elementary Grades
EDEE 322 – Teaching Social Studies in Early Elementary Grades
EDEE 323 – Language Arts for Early Elementary
EDEE 331 – Reading for Early Elementary Teachers
EDEE 423 – Clinical Practice (P-5)
EDF 311 – Learning Theories and Assessment in Education
EDEL 333 – Fundementals of Elementary Education
EDEM 499C – Senior Capstone
EDMG 332 – Reading Strategies for the Middle Grade Teacher
EDMG 341 – Teaching Math in Middle Grades
EDMG 342 – Teaching Social Studies in the Middle Grades
EDMG 343 – Language Arts in Middle Grades
EDMG 446 – Clinical Practice (5-9)
EDSE 312 – Educational Methods and Technology
EDSE 416 – Clinical Practice Secondary
EDSP 332 – Teaching the Exceptional Student
EDSP 365 – Including Students With Diverse Needs in the Classroom
EDSP 367 – Educational Assessment of Exceptional Students
EDSP 370 – Transdisciplinary Assessment of Students With Moderate and Severe Disabilities
EDSP 371 – Field Experience in Transdisciplinary Assessment
EDSP 373 - Curriculum for Students with MSD
EDSP 374 – Teaching Students With MSD
EDSP 375 - Practicum in Education of Students with MSD
EDSP 435 – Clinical Practice (LBD)
EDSP 437 – Clinical Practice (MSD)
EDSP 553 – Language Arts for Students With LBD
EDSP 555 – Teaching Students With LBD
EDSP 557 – Math and Content Area Teaching for Students With LBD
EDUC 476 – Reading in the Secondary School
EDUC 482 – Classroom Management and Assessment
ENG 382 – Teaching Writing in Secondary Schools
ENG 500 – Studies in English for Teachers
FRN 405 – Linguistics and Language Teaching
HIS 451 – Curriculum and Instruction for Social Studies
HIS 499D – Teaching of Social Studies
HLTH 301 – Health, Safety and Nutrition for Early Elementary
HPE 300 – Methods of Teaching Health and Physical Education to Elementary Students
HPE 303 – Health and Physical Education in the Secondary School
HPE 499C – Senior Seminar
HS 392 – Methods of Instructional Technology
HS 470 – Methods of Instruction
HS 478 – Clinical Practice Human Sciences
HS 573 – Curriculum Development in Home Economics
IECE 411 – The Role of the Teacher: Creating a Learning Environment for Diverse Groups
IECE 425 – Clinical Practice
IET 520 – Industrial Arts for the Elementary Teacher
MATH 402 – Integrated Biology, Mathematics, and Physical Sciences Teaching Methods
MATH 403 – Integrated Biology, Mathematics, and Science Field Experiences in Teaching
SCI 402 – Integrated Biology, Mathematics, and Physical Sciences Teaching Methods
SCI 403 – Integrated Biology, Mathematics, and Science Field Experiences in Teaching
SCI 490 – Science for the Elementary Teacher
SCI 591 - Science for the Middle School Teacher
SPA 405 – Linguistics and Language Teaching

## Application for Clinical Practice

Application for the professional semester must be made through the Educational Service Unit. Application for clinical practice must be made at the beginning of the semester PRIOR to clinical semester. (August for the Spring Semester and January for the Fall Semester).

1. Admission to the Teacher Education Program is required.
2. Applicant must have a grade point average of 2.50 on a 4.0 scale on all course work completed (includes transfer credit).
3. Course work completed at Morehead State University must have an overall 2.5 GPA.
4. A grade point average of 2.50 on a 4.0 scale in area of concentration, major(s), and academic components.
5. Completion of prerequisite courses:

*Secondary Certification Programs:*
EDF 207, 211, 311, EDSE 312, EDSP 332
EDSE 483 and required methods or field experience courses.

*5-12 Certification Programs:*
**AGR** - CTE 207, EDF 211, EDSP 332, AGR 388, 392, 470, 478
**IET** - CTE 207, 388, 392, 470, 478, EDF 311, EDEM 330, EDSP 332, IET 496, 499C
**BITE** - EDF 207, 211, 311, EDMG 306, EDSE 416, 483, EDSP 332, BIS 499C

*P-12 Certification Programs:*
**HPE** - EDF 207, 211, 311 or EDMG 306, EDSE 312, 483, HLTH 360, 475, 518, HPE 300, 301, 303, PHED 212, 213 214, 215, 216, 217, 218, 315, 475
**HE** - EDF 207, 211, 311 or EDMG 306, EDSE 312, 483, HPE 300 (HLTH only), 301, 303 (HLTH only), HLTH 475, 518

**PE** - EDF 207, 211, 311 or EDMG 306, EDSE 312, 483, PHED 212, 213,214, 215, 216, 217, 218, 315, 475, HPE 300 (PHED only), 301, 303 (PHED only)
**BME** - EDF 207, 211, 311, EDSE 312, 483, EDSP 332 or EDSP 230,
and
**Keyboard/Guitar** - MUSG 211, 213, 217, 226, 239, MUSC 271, 471/472, MUSE 215, 230, 325, 375/376, 335
Or
**Voice** - MUSG 211, 213, 217, 226, 239, MUSC 271, 471, MUSE 215, 230, 325, 375, 335
Or
**Brass/Woodwinds/Percussion** - MUSG 211, 212, 213, 214, 226, 239, MUSC 271, 472, MUSE 215, 230, 325, 376, 335
**ART** - ART 301, EDF 207, 311, EDSE 312, 483, EDSP 332 and required methods or field experience courses.
**LBD and MSD** - P-5 education requirements plus EDSP 230, EDSP 320/CMSP 320, 350, 356, 363, 365, 367, 372
and
**LBD**- EDSP 360, 553, 555, 556, 557, 559
Or
**MSD**- EDSP 370, 371, 373, 374, 375
**FRN**- EDF 207, 211, 311, EDSE 312, 483, EDSP 332 or 230, FRN 405
**SPA**- EDF 207, 211, 311, EDSE 312, 483, EDSP 332 or 230, SPA 405

*Interdisciplinary Early Childhood:*
(For candidates admitted prior to fall 2005) EDF 207, IECE 301, 345, 410, 411, 412, PHED 311, HS 253, 254, 354
(For candidates admitted fall 2005) EDF 207, EDEE 305, 327, HS 253, EDSP 230, 350, 363, 365, 370, 371, IECE 301, 345, 360, 361, 411

*P-5 Certification Program:*
EDF 207, 211, EDEL 302, EDEE 305, 321, 322, 323, 331, EDEM 330, EDSP 230, EDUC 482, PHED 311, HLTH 301, SCI 490

*Middle Grades Certification Program:*
EDF 207, 211, EDEL 302, EDEM 330, EDMG 306, 332, 347, EDSP 230, EDUC 482; 2 courses corresponding to academic Components (EDMG 341, 342, 343, SCI 402)

6. A minimum average grade of 2.5 on professional education courses is required.
7. A minimum of 90 semester hours must have been completed.
8. Applicant must have a bona fide major for teacher certification. (See Curriculum Standards ST-2).
9. Must complete a minimum of seventy-five percent of the course requirements in area or teaching component(s) as required by
program. (To include all methods courses) .
10 One semester (12 hours minimum) in residence at Morehead State University.
11. A copy of the applicant's check sheet must accompany the application.
12. A current physical examination must be on file in the Educational Services Unit prior to commencing the professional semester.
13. An official, current transcript must accompany the application.
14. Successfully completed field experiences associated with courses in the professional education sequence.
Transfer and substitution of required education courses is dependent upon applicant completing appropriate field experiences. Documentation is required.
15. Students must score 13 or above as an average on two dispositions prior to clinical practice.
16. Students will contact the school district after having received the clinical placement for the criminal background check. Criminal background checks are required for individuals working with the school districts. Criminal background checks can be obtained prior to placement by contacting Administrative Offices of the Court (502)573-2350.
17. Copies of score reports for all required PRAXIS tests must be submitted to the director, Educational Services Unit prior to commencing the clinical semester.

*Courses for which application must be scheduled with the director of student teaching one semester in advance include:*
AGR 478 – Student Teaching Practicum
CTE 478 – Student Teaching Practicum
EDEE 423 – Supervised Student Teaching Practicum
EDMG 446 – Supervised Student Teaching
EDSE 416 – Clinical Practice
EDSP 435 – Supervised Teaching Practicum
EDSP 437 – Student Teaching Practicum in Education of Students with Moderate and Severe Disabilities
HS 478 – Student Teaching Practicum
IECE 425 – Practical Student Teaching

## Recommendation for Certification

Regulations of the Kentucky Department of Education stipulate that the applicant for a teacher's certificate (Statement of Eligibility) must be recommended by the institution offering the teacher preparation program. Recommendation for statement of eligibility will be limited to those students completing their professional semester at MSU. Since certification regulations may change, students who wish to have an institutional recommendation for statement must meet all certification requirements in

## Single-Assessment Institution Level Pass-Rate Data: Regular Teacher Preparation Program

ETS Educational Testing Service

**HEA - Title II**
**2004-2005 Academic Year**

| | |
|---|---|
| **Institution Name** | MOREHEAD STATE UNIVERSITY |
| **Institution Code** | 1487 |
| **State** | Kentucky |
| **Number of Program Completers Submitted** | 235 |
| **Number of Program Completers found, matched, and used in passing rate Calculations[1]** | 234 |

*January 17, 2006*

| | | | | | Statewide | | |
|---|---|---|---|---|---|---|---|
| *Type of Assessment* | *Assessment Code Number* | *Number Taking Assessment* | *Number Passing Assessment* | *Institutional Pass Rate* | *Number Taking Assessment* | *Number Passing Assessment* | *Statewide Pass Rate* |
| **Professional Knowledge** | | | | | | | |
| PRINCIPLES LEARNING & TEACHING K-6 | 522 | 133 | 130 | 98% | 1293 | 1278 | 99% |
| PRINCIPLES LEARNING & TEACHING 5-9 | 523 | 18 | 14 | 78% | 265 | 244 | 92% |
| PRINCIPLES LEARNING & TEACHING 7-12 | 524 | 73 | 73 | 100% | 630 | 618 | 98% |
| **Academic Content Areas** | | | | | | | |
| ELEM ED CURR INSTRUC ASSESSMENT | 011 | 128 | 118 | 92% | 1076 | 1040 | 97% |
| ELEMENTARY ED CONTENT KNOWLEDGE | 014 | 4 | | | 134 | 127 | 95% |
| ENG LANG LIT COMP CONTENT KNOWLEDGE | 041 | 9 | | | 121 | 117 | 97% |
| ENG LANG LIT COMP ESSAYS | 042 | 9 | | | 118 | 112 | 95% |
| MIDDLE SCHOOL ENGLISH LANGUAGE ARTS | 049 | 3 | | | 109 | 103 | 94% |
| MATHEMATICS: CONTENT KNOWLEDGE | 061 | 5 | | | 69 | 66 | 96% |
| MATH PROOFS MODELS PROBLEMS PART 1 | 063 | 5 | | | 69 | 68 | 99% |
| MIDDLE SCHOOL MATHEMATICS | 069 | 8 | | | 98 | 98 | 100% |
| SOCIAL STUDIES: CONTENT KNOWLEDGE | 081 | 13 | 13 | 100% | 159 | 154 | 97% |
| SOCIAL STUDIES: INTERPRET MATERIALS | 083 | 13 | 13 | 100% | 153 | 152 | 99% |
| MIDDLE SCHOOL SOCIAL STUDIES | 089 | 14 | 11 | 79% | 136 | 131 | 96% |
| PHYSICAL ED: CONTENT KNOWLEDGE | 091 | 2 | | | 80 | 80 | 100% |
| PHYSICAL ED ANALYSIS AND DESIGN | 092 | 2 | | | 71 | 70 | 99% |
| BUSINESS EDUCATION | 100 | 3 | | | 49 | 49 | 100% |
| MUSIC CONCEPTS AND PROCESSES | 111 | 12 | 12 | 100% | 85 | 83 | 98% |
| MUSIC CONTENT KNOWLEDGE | 113 | 12 | 12 | 100% | 90 | 89 | 99% |

[1] The number of program completers found, matched and used in the passing rate calculation will not equal the sum of the column labeled "Number Taking Assessment" since a completer can take more than one assessment.

## Single-Assessment Institution Level Pass-Rate Data: Regular Teacher Preparation Program

ETS Educational Testing Service

**HEA - Title II**
**2004-2005 Academic Year**

| | |
|---|---|
| Institution Name | MOREHEAD STATE UNIVERSITY |
| Institution Code | 1487 |
| State | Kentucky |
| Number of Program Completers Submitted | 235 |
| Number of Program Completers found, matched, and used in passing rate Calculations[1] | 234 |

January 17, 2006

| | | | | | Statewide | | |
|---|---|---|---|---|---|---|---|
| *Type of Assessment* | *Assessment Code Number* | *Number Taking Assessment* | *Number Passing Assessment* | *Institutional Pass Rate* | *Number Taking Assessment* | *Number Passing Assessment* | *Statewide Pass Rate* |
| ART MAKING | 131 | 11 | 9 | 82% | 62 | 55 | 89% |
| ART CONTENT KNOWLEDGE | 133 | 11 | 11 | 100% | 61 | 60 | 98% |
| FRENCH CONTENT KNOWLEDGE | 173 | 1 | | | 2 | | |
| GERMAN CONTENT KNOWLEDGE | 181 | | | | 1 | | |
| SPANISH CONTENT KNOWLEDGE | 191 | 3 | | | 9 | | |
| SPANISH PRODUCTIVE LANGUAGE SKILLS | 192 | 1 | | | 4 | | |
| BIOLOGY CONTENT KNOWLEDGE PART 1 | 231 | 5 | | | 34 | 31 | 91% |
| BIOLOGY CONTENT ESSAYS | 233 | 5 | | | 34 | 33 | 97% |
| CHEMISTRY CONTENT KNOWLEDGE | 241 | | | | 4 | | |
| CHEMISTRY CONTENT KNOWLEDGE | 245 | | | | 1 | | |
| PHYSICS CONTENT KNOWLEDGE | 261 | | | | 2 | | |
| GENERAL SCI CONTENT KNOWL PART 2 | 432 | | | | 6 | | |
| MIDDLE SCHOOL SCIENCE | 439 | 6 | | | 68 | 68 | 100% |
| **Other Content Areas** | | | | | | | |
| TECHNOLOGY EDUCATION | 050 | 4 | | | 10 | 10 | 100% |
| FAMILY AND CONSUMER SCIENCES | 120 | 3 | | | 19 | 19 | 100% |
| HEALTH EDUCATION | 550 | 2 | | | 49 | 47 | 96% |
| AGRICULTURE | 700 | 5 | | | 37 | 35 | 95% |
| **Teaching Special Populations** | | | | | | | |
| ED OF DEAF & HARD OF HEARING | 271 | | | | 7 | | |
| SE STUDENTS W/MENTAL RETARDATION | 321 | 3 | | | 15 | 15 | 100% |

[1] The number of program completers found, matched and used in the passing rate calculation will not equal the sum of the column labeled "Number Taking Assessment" since a completer can take more than one assessment.

## Single-Assessment Institution Level Pass-Rate Data: Regular Teacher Preparation Program

ETS Educational Testing Service

**HEA - Title II**
**2004-2005 Academic Year**

| | |
|---|---|
| Institution Name | MOREHEAD STATE UNIVERSITY |
| Institution Code | 1487 |
| State | Kentucky |
| Number of Program Completers Submitted | 235 |
| Number of Program Completers found, matched, and used in passing rate Calculations[1] | 234 |

*January 17, 2006*

| | | | | | Statewide | | |
|---|---|---|---|---|---|---|---|
| *Type of Assessment* | *Assessment Code Number* | *Number Taking Assessment* | *Number Passing Assessment* | *Institutional Pass Rate* | *Number Taking Assessment* | *Number Passing Assessment* | *Statewide Pass Rate* |
| SPEECH-LANGUAGE PATHOLOGY | 330 | | | | 36 | 35 | 97% |
| SE APPLIC OF CORE PRINCIPLES ACROSS | 352 | 23 | 22 | 96% | 191 | 177 | 93% |
| EDUC. EXCEPTIONAL STUDENTS: CK | 353 | 2 | | | 36 | 35 | 97% |
| SE BEHAVIORAL/EMOTIONAL | 371 | 22 | 19 | 86% | 166 | 156 | 94% |
| ED EXCEPT STUDENTS: MILD MODER. DISABIL | 542 | | | | 6 | | |

[1] The number of program completers found, matched and used in the passing rate calculation will not equal the sum of the column labeled "Number Taking Assessment" since a completer can take more than one assessment.

## Aggregate and Summary Institution-Level Pass-Rate Data: Regular Teacher Preparation Program

ETS Educational Testing Service

**HEA - Title II**
**2004-2005 Academic Year**

| | |
|---|---|
| Institution Name | MOREHEAD STATE UNIVERSITY |
| Institution Code | 1487 |
| State | Kentucky |
| Number of Program Completers Submitted | 235 |
| Number of Program Completers found, matched, and used in passing rate Calculations[1] | 234 |

January 17, 2006

| | | | | Statewide | | |
|---|---|---|---|---|---|---|
| *Type of Assessment*[2] | *Number Taking Assessment*[3] | *Number Passing Assessment*[4] | *Institutional Pass Rate* | *Number Taking Assessment*[3] | *Number Passing Assessment*[4] | *Statewide Pass Rate* |
| Aggregate - Basic Skills | | | | | | |
| Aggregate - Professional Knowledge | 224 | 217 | 97% | 2188 | 2140 | 98% |
| Aggregate - Academic Content Areas (Math, English, Biology, etc.) | 227 | 208 | 92% | 2304 | 2219 | 96% |
| Aggregate - Other Content Areas (Career/Technical Education, Health Educations, etc.) | 14 | 13 | 93% | 115 | 111 | 97% |
| Aggregate - Teaching Special Populations (Special Education, ELS, etc.) | 25 | 21 | 84% | 230 | 207 | 90% |
| Aggregate - Performance Assessments | | | | | | |
| **Summary Totals and Pass Rates**[5] | 234 | 211 | 90% | 2363 | 2228 | 94% |

[1] The number of program completers found, matched and used in the passing rate calculation will not equal the sum of the column labeled "Number Taking Assessment" since a completer can take more than one assessment.

[2] Institutions and/or States did not require the assessments within an aggregate where data cells are blank.

[3] Number of completers who took one or more tests in a category and within their area of specialization.

[4] Number who passed all tests they took in a category and within their area of specialization.

[5] Summary Totals and Pass Rate: Number of completers who successfully completed one or more tests across all categories used by the state for licensure and the total passrate.

effect at the time of their application for certification.

Application for the appropriate certificate should be completed in the semester prior to graduation. Application forms may be obtained from the Educational Services Unit, 801 Ginger Hall.

All applicants for initial certification (Statement of Eligibility) in Kentucky shall pass the appropriate PRAXIS Speciality Exams and Principles of Learning and Teaching Test.

## MSU Title II 2002-2003 Institutional Report

In October 1998, Congress voiced its concern for the quality of teacher preparation by enacting Title II of the Higher Education Act (HEA). Title II authorizes new federal grant programs that support the efforts of states, institutions of higher education, and their school district partners to improve the recruitment, preparation and support of new teachers. Title II also includes accountability measures in the form of reporting requirements for institutions and states on teacher preparation and licensing. The data that are provided annually by institutions and states represent one way we can begin to measure the success of TEPs and state efforts to improve teacher quality.

Section 207 of Title II requires the annual preparation and submission of three reports on teacher preparation and licensing: one from institutions to states, a second from states to the Secretary of Education, and third from the Secretary to Congress and the public.

To meet the mandate of this three-stage reporting process, Morehead State University has reported to the Kentucky Professional Standards Board on April 1, 2006) how well individuals who completed our teacher preparation programs during the 2004-2005 academic year performed on initial state licensing and certification PRAXIS assessment requirements in their areas of specialization; and 2) basic concepts of our programs, such as number of students, amount of required supervised practice teaching, and the student-faculty ratio in supervised practice teaching. In considering MSU's PRAXIS assessment pass rates, it must be noted that passing the PRAXIS assessments is not a requirement for program completion at our institution. There are institutions which require passing the assessments prior to program completion and will therefore always have a 100 percent pass rate for all completers. Students are required to take the PRAXIS prior to the professional semester.

To protect the confidentiality of test takers, the Educational Testing Service (ETS) does not report pass rates for individual assessments with fewer than 10 test takers.

Morehead State University welcomes the opportunity to participate in this process that will provide data to all teacher preparation institutions that will ensure improved teacher quality.

## Department of Curriculum and Instruction

James Knoll, Chair
301A Ginger Hall
(606) 783-2598

## Early Childhood, Elementary & Middle Grade

### Faculty

K. Barton, C. Bromagen, B. Collins, M. Decker, D. Haleman, K. Hazler, K. Lafferty, W. Letendre, S. Lindsey, B. McWright, C. Miller, T. Miller, D. Peterson, E. Schack, M. Schack, K. Sharp, M. Shon, C. Walton, A. Wells, M. Willis

## Program Competencies

**Competency is required in the following basic areas in the Interdisciplinary Early Childhood Education Program:**

1. Function as competent early childhood teachers and caregivers for birth to primary programs through an interdisciplinary curriculum that emphasizes goals, research, and best practices relating to children and diversity.
2. Apply knowledge of the physical, psychosocial, and cognitive development of young children.
3. Address special education needs of young children through a diagnostic prescriptive teaching/learning approach.
4. Apply instructional methodology and curriculum content in laboratory experiences.
5. Use the management processes in caring for and teaching young children with and without disabilities from birth to primary programs.
6. Examine legislation and public policy regarding children and families.
7. Communicate as a child and family advocate.

**Based on the New Teacher Standards, students graduating from the P-5 program should:**

1. Demonstrate a knowledge of growth and development of children.
2. Be able to assess developmental and instructional needs of children.
3. Organize an effective classroom environment which will maximize learning.
4. Effectively manage classroom behavior.
5. Develop skills in planning and implementing appropriate instructional programs for children.
6. Demonstrate appropriate interaction and communication with children, parents, and other adults working in schools.
7. Describe information about options for school and home cooperation.
8. Identify appropriate professional development activities.

9. Demonstrate a knowledge of the philosophical, historical, sociological, and psychological basis of early elementary education.
10. Demonstrate a knowledge of the provisions of the Kentucky Education Reform Act.
11. Demonstrate appropriate uses of technology to support classroom instruction.

**Based on the New Teacher Standards, students graduating from the 5-9 program should:**

1. Demonstrate a knowledge of the growth and development of middle grade students.
2. Describe the historical, philosophical, and psychological basis of middle grade and middle school programs.
3. Demonstrate skills in planning and implementation of instruction in several different organizational patterns.
4. Accurately assess the instruction needs of students.
5. Develop an effective system for managing the classroom.
6. Relate planning for teaching to the needs of middle grade students.
7. Identify school and community resources that could be used in instruction.
8. Plan for communication with students, parents, and other school personnel.
9. Establish cooperative relationships with other school personnel and skills in working in teams.
10. Develop a breadth of content knowledge.
11. Demonstrate a knowledge of the provisions of the Kentucky Education Reform Act.
12. Demonstrate appropriate uses of technology to support and enhance instruction.

Assessment Procedures P-5 and P-9

GPA of 2.50
ACT scores
Interview
Field Experience of 100 hours
Writing sample
Portfolio
PRAXIS Exams

## Bachelor of Arts
## Area of Concentration Interdisciplinary Early Childhood Education (IECE)

**Program Requirements . . . . . 48**
HS 253 – Child Growth and Development . . . . . 4
HS 254 – Preschool Administration . . . . . 4
EDF 207 – Foundations of Education . . . . . 3
EDSP 230 – Education of Exceptional Children . . . . . 3
IECE 301 – At-Risk Infants and Toddlers . . . . . 3
EDEE 305 – Learning Theories and Practices in Early Elementary . . . . . 3
IECE 345 – Preschool Programs for Special Needs Children . . . . . 3
EDSP 350 – Characteristics of Individuals with Mental Retardation and Orthopedic Handicaps . . . . . 3
IECE 360 – Role of Families in Early Childhood Education . . . . . 3
IECE 361 – Positive Child Guidance . . . . . 3
EDSP 363 – Assistive Technology . . . . . 3
EDSP 365 – Including Students with Diverse Needs in the classroom . . . . . 3
EDSP 370 – Trans-disciplinary Assessment of Students with Moderate and Severe Disabilities . . 3
EDSP 371 – Trans-disciplinary Assessment of Students with Moderate and Severe Disabilities Field Experiences . . . . . 1
IECE 411 – Role of the Teacher: Creating a Learning Environment for Diverse Groups . . . . . 3
EDEC 526 – Activities and Materials in Early Childhood Education: Infants and Toddlers . . . . . 3
EDEC 528 – Activities and Materials in Early Childhood Education: 3-5 year olds . . . . . 3

**Related Studies . . . . . 16**
MUST 100 – Rudiments of Music . . . . . 2
ART 121 – School Art . . . . . 3
MUSE 221 – Music for Elementary Teachers . . . . . 2
PHED 311 – Movement Exploration . . . . . 3
EDSP 320 – Introduction to Corrective Speech . . . . . 3
EDEE 327 – Literature and Materials for Young Readers . . . . . 3

**Integrated Capstone Component . . . . . 15**
IECE 425 – Clinical Practice . . . . . 12
EDEM 499C – Student Teaching Seminar . . . . . 3

**Approved Electives . . . . . 4**
*(Choose 4 hours, Limit of one PHED class)*
EDSP 367 – Educational Assessment of the Exceptional Child
EDUC 222 – Computing Tools for Educators (if not taken previously)
HS 200 – Family Relations
HS 201 – Principles of Nutrition
HS 257 – Care and Development: Prenatal, Infants and Toddlers
HS 327 – Maternal, Infant and Child Nutrition
HS 328 – Nutrition in the Life Cycle
HS 353 – Program Planning for Infants and Toddlers
HS 363 – Family Economics
PHED 104 – Gymnastics
PHED 105 – Conditioning
PHED/AGR 109 – Elementary Horsemanship
PHED 140 – Aerobics
PHED 120 – Basic Rhythms
PSY 356 – Cognitive Development of the Infant and Child
SWK 315 – Child Welfare Services

**General Education . . . . . 46**
MSU 101 – Understanding Univ. Life . . . . . 1
ENG 100 – Writing I * . . . . . 3
ENG 200 – Writing II * . . . . . 3
CMSP 108 – Fund. of Speech Communications * . . . . 3
Math Reasoning course . . . . . 3
CIS 101 or EDUC 222 – computer course . . . . . 3
BIOL 110 – Biological Science for Elem. Tchrs. . . . . 3
SCI 109 – Physical Science for Elem. Tchrs. . . . . 3
Nat. & Math. Sci.: Choose one not BIOL or SCI . . . . . 3
GEO 100 – Fundamentals of Geography . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
Soc. & Behav. Sci.: Choose one not GEO or PSY . . . . 3
FNA 160 – Understanding the Visual Arts . . . . . 3
Humanities: Choose two NOTE: You may choose only one course from a prefix n this category . . . . . 6
HS 101 – Nutrition and Well-Being . . . . . 3

## Bachelor of Arts
## Area of Concentration
## Early Elementary (P-5)

**Education . . . . . 36**
EDEE 305 – Learning Theories and Practices in Early Elementary . . . . . 3
EDEE 321 – Teaching Math in Early Elementary Grades . . . . . 3
EDEE 322 – Teaching Social Studies in the Early Elementary Grades . . . . . 3
EDEE 323 – Language Arts for Early Elementary . . . . . 3
EDEE 331 – Reading for Early Elementary Teachers . . . . . 3
EDEL 302 – Integrating Technology into the Classroom . . . . . 3
EDEM 330 – Foundations of Reading . . . . . 3
EDF 207 – Foundations of Education . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
EDSP 230 – Education of Exceptional Children . . . . . 3
EDUC 482 – Classroom Management and Assessment . . . . . 3
SCI 490 – Science for the Elementary Teacher . . . . . 3

**Integrated Component (Professional Semester) . . . . . 15**
EDEE 423 – Supervised Student Teaching Practicum . . . . . 12
EDEM 499C – Senior Teaching Seminar . . . . . 3

**Related Studies . . . . . 19**
ART 121 – School Art I . . . . . 3
EDEE 327 – Literature and Materials for Young Readers . . . . . 3
HLTH 301 – Health, Safety and Nutrition for Early Elementary . . . . . 3
MATH 231 – Mathematics for the Elementary Teacher I . . . . . 3
MUST 100 – Rudiments of Music . . . . . 2
MUSE 221 – Music for the Elementary Teacher . . . . . 2
PHED 311 – Movement Exploration . . . . . 3

**General Education . . . . . 45**
CMSP 108 – Fundamentals of Speech Communication . . . . . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
CIS 101 – Computers for Learning, or
EDUC 222 – Computing Tools for Educators . . . . . 3

*Choose three hours from the following math reasoning courses:*
MATH 123 – Introduction to Statistics
MATH 131 – Mathematical Reasoning and Problem Solving
MATH 141 – Plane Trigonometry
MATH 135 – Mathematics for Technical Students
MATH 152 – College Algebra
MATH 174 – Pre-calculus Mathematics . . . . . 3

Area Studies – only one course may be chosen from each prefix in area studies courses.

*Choose nine hours from the following Humanities courses:*
ART 263 – Art History I
ART 264 – Art History II
ART 265 – Art History III
CMEM 210 – Media Literacy
CMSP 350 – Communication, Culture, and Diversity
CMSP 390 – Conflict and Communication
ENG 205 – Language: Culture and Mind
ENG 120 – Approaches to Literature
ENG 293 – Introduction to Creative Writing
FNA 160 – Understanding the Visual Arts
GOVT 180 – Introduction to Political Theory
MUSH 261 – Music Listening
MUSH 361 – History of Music I
MUSH 362 – History of Music II
THEA 110 – Introduction to the Theatre
or foreign language course . . . . . 3
HIS 201 – Global Studies, or
HIS 202 – American Studies . . . . . 3
PHIL 200 – Introduction to Philosophy . . . . . 3

*Natural & Mathematical Sciences*
BIOL 110 – Biological Science for Elementary Teachers . . . . . 3
SCI 109 – Physical Science for Elementary Teacher . . . . . 3
MATH 232 – Math for the Elementary Teacher II . . . . . 3

*Social and Behavioral Sciences*
GEO 100 – Fundamentals of Geography, or
*SOC 305 – Cultural Anthropology, or
*GEO 300 – World Geography . . . . . 3
GOVT 141 – United States Government, or
*GOVT 362 – Current World Problems . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
**Meets the non-western culture course requirement. One non-western culture course must be completed.*

*Practical Living*
HLTH 151 – Wellness: Theory to Action, or
HS 101 – Nutrition and Well Being . . . . . 3

**Other Requirement**
MSU 101 – Discovering University Life . . . . . 1

**Academic component . . . . . 21-23**

The academic component must be chosen from English, Art, Music, Fine Arts-Multidisciplinary, Speech-Theatre, French, Spanish, Mathematics, Science, or Social Studies. See lists of specific courses below. A GPA of 2.5 is required in all components.

**English/Communications . . . . . 21**
CMSP 300 – Oral Communications . . . . . 3
CMSP 100 – Voice and Articulation
CMSP 200 – Oral Interpretation, or
CMSP 210 – Listening
CMSP 230 – Interpersonal Communication
CMSP 383 – Small Group Communication . . . . . 3

ENG 392 – Teaching Writing in Elementary and Middle Schools . . . . . 3
ENG 391 – Advanced Expository Writing, or
ENG 396 – Fiction Writing, or
ENG 395 – Poetry Writing . . . . . 3
ENG 305 – Introduction to Linguistics, or
ENG 315 – Structure of English, or
ENG 394 – Language and Society . . . . . 3
ENG 341 – American Literature to 1865, or
ENG 342 – American Literature since 1865 . . . . . 3
ENG 348 – African-American Literature, or
ENG 360 – Appalachian Literature, or
ENG 365 – Literature of the South, or
ENG 305 – Introduction to Linguistics, or
ENG 315 – Structure of English, or
ENG 341 – American Literature to 1865, or
ENG 342 – American Literature since 1865, or
ENG 394 – Language and Society . . . . . 3

**Fine Arts/Humanities/Art . . . . . 21**
ART 221 – School Art II, or
ART 300 – Elementary Materials and Methods . . . . . 3
ART 245 – Ceramics I, or
ART 310 – Puppetmaking . . . . . 3
ART 101 – Two-Dimensional Foundation . . . . . 3
ART 102 – Three-Dimensional Foundation . . . . . 3
ART 103 – Color Foundation . . . . . 3
*Choose six hours from:*
ART 263 – Introduction to Art History I
ART 264 – Introduction to Art History II
ART 265 – Introduction to Art History III . . . . . 6

**Fine Arts/Humanities/Multidisciplinary . . . . . 22**
ART 221 – School Art II, or
ART 300 – Elementary Materials and Methods . . . . . 3
ART 101 – Two-Dimensional Foundation, or
ART 102 – Three-Dimensional Foundation, or
ART 245 – Ceramics I, or
ART 294 – Sculpture I, or
ART 310 – Puppetmaking . . . . . 3
CMSP 200 – Oral Interpretation . . . . . 3
CMSP 300 – Oral Communications . . . . . 3
FNA 160 – Understanding the Visual Arts . . . . . 3
MUSE 221 – Music for the Elementary Teacher . . . . . 2
MUST 100 – Rudiments of Music . . . . . 2
THEA 375 – Creative Dramatics . . . . . 3

**Fine Arts/Humanities/Music . . . . . 23**
MUSE 221 – Music for the Elementary Teacher . . . . . 2
MUSG 123 – Classical Piano I . . . . . 1
MUSG 124 – Classical Piano II . . . . . 1
MUSH 161 – Literature of Music I . . . . . 2
MUSH 162 – Literature of Music II . . . . . 2
MUST 101 – Introduction to Music Theory . . . . . 2
MUST 102 – Introduction to Music Reading . . . . . 2
MUST 131 – Music Theory I . . . . . 3
MUST 133 – Music Reading I . . . . . 1
Elective-Ensemble . . . . . 2
Elective-Private Lessons . . . . . 5

**Fine Arts/Humanities/Speech-Theatre . . . . . 21**
CMSP 200 – Oral Interpretation . . . . . 3
CMSP 210 – Listening . . . . . 3
CMSP 230 – Interpersonal Communication . . . . . 3
CMSP 300 – Oral Communications . . . . . 3
THEA 110 – Introduction to the Theater . . . . . 3
THEA 375 – Creative Dramatics . . . . . 3
THEA 570 – Children's Theater . . . . . 3

**Foreign Language/French . . . . . 21**
FRN 101 – Beginning French I . . . . . 3
FRN 102 – Beginning French II . . . . . 3
FRN 201 – Intermediate French . . . . . 3
FRN 202 – Conversation and Composition . . . . . 3
FRN 203 – Introduction to France . . . . . 3
FRN 405 – Linguistics and Language Teaching . . . . . 3
Elective – French . . . . . 3

**Foreign Language/Spanish . . . . . 21**
SPA 101 – Spanish Language and Culture I . . . . . 3
SPA 102 – Spanish Language and Culture II . . . . . 3
SPA 201 – Intermediate Spanish I . . . . . 3
SPA 202 – Intermediate Spanish II . . . . . 3
SPA 300 – Grammar and Composition . . . . . 3
SPA 405 – Linguistics and Language Teaching . . . . . 6

**Mathematics . . . . . 21**
CIS 101 – Computers for Learning, or
EDUC 222 – Computing Tools for Educators . . . . . 3
MATH 231 – Mathematics for the Elementary Teacher I . . . 3
MATH 232 – Mathematics for the Elementary Teacher II . . 3
MATH 123 – Introduction to Statistics . . . . . 3
MATH 152 – College Algebra . . . . . 3
MATH 332 – Introduction to Finite Mathematics . . . . . 3
MATH 330 – Geometry for Teachers (P-9) . . . . . 3

**Science . . . . . 21**
SCI 109 – Physical Science for the Elementary Teacher or higher with a lab . . . . . 3
BIOL 110 – Biological Science for Elementary Teachers or higher with a lab . . . . . 3
*Choose 15 hours from the following courses:*
ASTR 111 – Concepts of Astronomy I: Planetary Sciences and the Sky, or
ASTR 112 – Concepts of Astronomy II: Stars, Galaxies, and Cosmology . . . . . 3
BIOL 150 – Introduction to Plant Science . . . . . 3
BIOL 155 – Introduction to Environmental Science . . . . . 3
BIOL 217 – Elementary Medical Microbiology . . . . . 4
BIOL 231 – Human Anatomy . . . . . 3
BIOL 232 – Human Physiology . . . . . 3
BIOL 350 – Heredity and Society . . . . . 3
BIOL 351 – Plant Natural History . . . . . 3
BIOL 352 – Animal Natural History . . . . . 3
BIOL 553 – Environmental Education . . . . . 3
BIOL 580 – History of Science . . . . . 3
BIOL 599 – Selected Workshop Topics . . . . . 3
GEOS 108 – Physical Geology . . . . . 4
GEOS 240 – Oceans . . . . . 3
GEOS 376 – Environmental Geology . . . . . 3
Phys 110 - Concepts in Astronomy . . . . . 3
SCI 571 – Earth Science for Elementary Teachers . . . . . 3

**Social Studies . . . . . 21**
GEO 300 – World Geography, or
GEO 360 – Physical Geography of North America, or
GEO 366 – Political Geography, or
GEO 390 – Weather and Climate . . . . . 3
HIS 323 – History of Kentucky . . . . . 3
PSY 354 – Social Psychology, or
PSY 390 – Psychology of Personality . . . . . 3
SOC 374 – American Minority Relations, or
SOC 515 – Family Dynamics . . . . . 3
ECON 101 – Introduction to Economics, or
ECON 201 – Principles of Macroeconomics, or
ECON 202 – Principles of Microeconomics, or
GOVT 141 – United States Government, or
GOVT 242 – State and Local Government, or
GOVT 362 – Current World Problems, or
HIS 210 – Early World Civilization, or
HIS 201 – Global Studies, or
HIS 220 – Early American History, or
HIS 202 – American Studies . . . . . 9

## Area of Concentration
## Middle Grades (5-9)

**Professional Education . . . . . 33**
EDEL 302 – Integrating Technology into the Classroom . . . 3
EDEM 330 – Foundations of Reading . . . . . 3
EDF 207 – Foundations of Education . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
EDMG 306 – Development and Learning in Middle Grades . . . . . 3
EDMG 332 – Reading Strategies for the Middle Grade Teacher . . . . . 3
EDMG 347 – Literature and Materials for the Preadolescent . . . . . 3
EDSP 230 – Education of Exceptional Children . . . . . 3
EDUC 482 – Classroom Management and Assessment . . . . 3

*Select two that correspond to chosen academic components: . . . . . 6*
EDMG 341 – Teaching Math in Middle Grades
EDMG 342 – Teaching Social Studies in the Middle Grades
EDMG 343 – Language Arts in Middle Grades
SCI 402 – Integrated Biology, Mathematics, and Physical Science Teaching Methods

**Integrated Component (Professional Semester) . . . . . 15**
EDEM 499C – Senior Teaching Seminar . . . . . 3
EDMG 446 – Supervised Student Teaching . . . . . 12

**General Education . . . . . 45**
CMSP 108 – Fundamentals of Speech Communication . . . . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
CIS 101 – Computers for Learning, or
EDUC 222 – Computing Tools for Educators . . . . . 3

*Choose three hours from the following Math Reasoning courses:*
MATH 123 – Introduction to Statistics
MATH 131 – Mathematical Reasoning and Problem Solving
MATH 135 – Mathematics for Technical Students
MATH 141 – Plane Trigonometry
MATH 152 – College Algebra
MATH 174 – Pre-Calculus Mathematics . . . . . 3

Area Studies – only one course may be chosen from each prefix in area studies courses.

*Humanities Elective:*
ART 263 – Art History I
ART 264 – Art History II
ART 265 – Art History III
CMEM 210 – Media Literacy
CMSP 350 – Communication, Culture, and Diversity
CMSP 390 – Conflict and Communication
ENG 205 – Language: Culture and Mind
ENG 120 – Approaches to Literature
ENG 293 – Introduction to Creative Writing
FNA 160 – Understanding the Visual Arts
GOVT 180 – Introduction to Political Theory
MUSH 261 – Music Listening
MUSH 361 – History of Music I
MUSH 362 – History of Music II
THEA 110 – Introduction to the Theatre
or foreign language course . . . . . 3
HIS 201 – Global Studies, or
HIS 202 – American Studies . . . . . .. 3
PHIL 200 – Introduction to Philosophy . . . . . 3

*Select nine hours from the following (only one course may be chosen from each prefix.)*
*Natural & Mathematical Sciences*
ASTR 111 – Concepts in Astronomy I: Planetary Sciences
and the Sky . . . . . 3
ASTR 112 – Concepts in Astronomy II: Stars, Galaxies,
and Cosmology . . . . . 3
BIOL 110 – Biological Science for Elementary Teachers, or
BIOL 155 – Introduction to Environmental Science, or
BIOL 160 – Introduction to Biological Principles . . . . . 3
CHEM 101 – Survey of Chemistry, or
CHEM 111 – Principles of Chemistry I . . . . . 3
GEOS 106 – Introduction to Geology, or
GEOS 108 – Physical Geology . . . . . 3
MATH 232 – Mathematics for the Elementary
Teacher II (prerequisite MATH 231), or
MATH 353 – Statistics . . . . . 3
PHYS 109 – A History of the Universe, or PHYS 110, or
PHYS 231 – Engineering Physics I . . . . . 4
SCI 109 – Physical Science for the Elementary Teacher . . . . 3

*Choose nine hours from the following Social and Behavioral Sciences courses:*
GEO 100 – Fundamentals of Geography, or
*SOC 305 – Cultural Anthropology, or
*GEO 300 – World Geography . . . . . 3
GOVT 141 – United States Government, or
*GOVT 362 – Current World Problems . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
**Meets the non-western culture course requirement. One non-western culture course must be completed.*

*Choose three hours from the following Practical Living courses:*
HLTH 151 – Wellness: Theory to Action, or
HS 101 – Nutrition and Well Being . . . . . 3

**Other Requirement**
MSU 101 – Discovering University Life . . . . . 1

**Academic Components**

Each student must select two academic components requiring a minimum of 24 semester hours each. The two components must be chosen from English, science, social studies, and mathematics.

**5-9 Academic Components**

*A GPA of 2.5 is required in all academic components.*

**English/Communications . . . . . 24**
CMSP 350 – Communication, Culture, and Diversity . . . . . 3
ENG 205 – Language, Culture and Mind, or
ENG 394 – Language and Society . . . . . 3
ENG 211 – Introduction to World Literature I, or
ENG 212 – Introduction to World Literature II . . . . . 3
ENG 293 – Introduction to Creative Writing, or
ENG 390 – Professional Writing, or
ENG 391 – Advanced Expository Writing, or
ENG 395 – Poetry Writing, or
ENG 396 – Fiction Writing . . . . . 3
ENG 392 – Teaching Writing in Elem & Middle Schools . . 3
ENG 305 – Introduction to Linguistics, or
ENG 315 – Structure of English . . . . . 3
ENG 341 – American Literature to 1865, or
ENG 342 – American Literature since 1865, or
ENG 360 – Appalachian Literature . . . . . 3
EDMG 347 – Literature & Materials for the Preadolescent . 3

**Mathematics . . . . . 24**
MATH 141 – Plane Trigonometry, and
MATH 152 – College Algebra, or
MATH 174 – Pre-Calculus Mathematics, and
Elective Math 170 or higher . . . . . 6
MATH 231 – Mathematics for the Elementary Teacher I . . . 3
MATH 232 – Mathematics for the Elementary Teacher II . . 3
MATH 300 – Introduction to Mathematical Proof . . . . . 3
MATH 332 – Introduction to Finite Mathematics . . . . . 3
MATH 330 – Geometry for Teachers (P-9) . . . . . 3
MATH 353 – Statistics, or
MATH 354 – Business Statistics . . . . . 3

**Social Studies . . . . . 24**
ECON 101 – Introduction to Economics, or
ECON 201 – Principles of Macroeconomics . . . . . 3
GEO 241 – United States and Canada . . . . . 3
GEO 300 – World Geography . . . . . 3
GOVT 141 – United States Government . . . . . 3
HIS 201 – Global Studies . . . . . 3
HIS 202 – American Studies . . . . . 3

HIS 210 – Early World Civilization . . . . . 3
HIS 220 – Early American History . . . . . 3

**Science . . . . . 24**
ASTR 111 – Concepts in Astronomy I: Planetary Science and the Sky, or
ASTR 112 – Concepts in Astronomy II: Stars, Galaxies, and Cosmology, or
SCI 109 – Physical Science for the Elementary Teacher . . . . 3
BIOL 110 – Biological Science for Elementary Teachers or higher with a lab . . . . . 3
BIOL 150 – Introduction to Plant Science, or
BIOL 155 – Introduction to Environmental Science, or
BIOL 231 – Human Anatomy, or
BIOL 352 – Animal Natural History, or
BIOL 351 – Plant Natural History . . . . . 6
CHEM 101/101L – Survey of Chemistry . . . . . 4
GEOS 108 – Physical Geology . . . . . 4
PHYS 201/201L – Elementary Physics I . . . . . 4

## Secondary Education
### Faculty
K. Jones, L. Lennex

The primary role of secondary education is to serve various departments of the University by offering a professional education curriculum leading to certification (Statement of Eligibility) of teachers for secondary schools.

Professional education coursework is designed to prepare students to demonstrate competency on Kentucky's New Teacher Standards developed through the Educational Professional Standards Board. Courses include planned opportunities for students to engage in field experiences to learn to provide for differentiated learning experiences in diverse learning environments.

Students wishing to pursue a teaching certificate in Secondary Education will be assigned an advisor in their respective major content area. Students need to be aware that general education requirements may differ by content area. For specific program requirements, students need to obtain an official checksheet from their advisors or the content area department chairs (e.g., Department of English, Foreign Languages, & Philosophy for inquiries about obtaining a secondary teaching certificate in English). General information about the Secondary Education TEPs may be obtained in 801 Ginger Hall in the Education Services Unit (telephone 783-2065) or from the Department of Department of Curriculum and Instruction (telephone 783-2598). Another source of information is the departmental Web pages that contain copies of departmental checksheets for downloading and printing.

### Requirements for Certification in Secondary Education

**Professional Education Courses**
EDF 207 – Foundations of Education . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
EDF 311 – Learning Theories and Assessment in Education . . . . . 3
EDSE 312 – Educational Methods and Technology . . . . 3
EDSE 483 – Classroom Organization and Management for Secondary Teachers . . . . . 3
EDSP 230 – Education of Exceptional Children . . . . . 2
**Professional Semester . . . . . 12**
EDSE 416 – Clinical Practice . . . . . 12

Secondary education students admitted to the teacher education program will be required to demonstrate computer expertise prior to graduation. They may demonstrate this expertise by completing at least one of the following:

1. CIS 101 – Computers for Learning, or EDUC 222 – Computing Tools for Educators
2. CLEP Education (available in the University Testing Center)
3. A computer workshop taken for college credit.

*Important: For information about secondary education certification, see the subject area in which certification is being sought – i.e., English.*

## Special Education
### Faculty
D. Grace, D. Hamblin, J. Knoll,
B. Lester, R. Lester, A. Moriarty

### Program Competencies
**Based on the New Teacher Standards, students graduating from the LBD & MSD program should possess:**

1. An understanding of the varied nature of exceptional children, and of the range of special programs and resources available in the public school and the community.
2. Knowledge and skills in the development of alternative individualized curricula and in the effective teaching of academic skills, including oral and written language and the content areas.
3. An understanding of the principles and techniques of behavior management, and the ability to implement those techniques in the public school classroom.
4. An ability to measure the effectiveness of ongoing special education programs, and to critically evaluate the utility of published materials.
5. An understanding of the roles and responsibilities of special education teachers in various education program settings, including due process for the identification, placement, and continuing evaluation of students in special instructional programs.

6. Knowledge of the curriculum in various areas of child development at the preschool level, together with an understanding of the characteristics of handicapped preschool children and the program modifications that they require.
7. An understanding of career education as an integral part of the P-12 curriculum including knowledge of teaching methods, materials, and outside agencies typically involved in vocational training and independent living.
8. An understanding of fundamental principles of education assessment and the ability to administer a wide range of formal and informal, academic, communication, and behavioral assessment instruments.
9. The ability to interpret formal and informal assessment data in the process of forming conclusions about student needs, implementing and evaluating individualized education programs, and designing appropriate curricula for children with learning, behavioral, or developmental needs.
10. An understanding of KERA and the full inclusion of special education students with non-handicapped students in regular classrooms.
11. Demonstrate appropriate uses of technology to support classroom instruction.

## Assessment Procedures

GPA of 2.5
ACT scores
Interview
Field Experience of 150 hours
Writing Sample
Portfolio
PRAXIS Exams

## Bachelor of Arts
## Special Education

This program provides certification for teaching children who have learning disabilities, behavior disorders, orthopedic handicaps, or who are mildly mentally disabled.

See "Teacher Education Program" and "Professional Experiences" requirements.

This program prepares individuals for professional certification for teaching students with disabilities in grades P-12. Students have the following four options for obtaining LBD certification:

1. Certification for teaching students with Learning and Behavior Disorders (LBD, P-12) and P-5.
2. Certificate for teaching students with Moderate and Severe Disabilities (MSD, P-12) and P-5.
3. Certification for LBD P-12 and 5-9
4. Certification for MSD P-12 and 5-9

**Area of Concentration**
**in Special Education and P-5**

**Total Credit hours: . . . . . 130-31**

**1. Special Education Core . . . . . 21**
EDSP 230 – Education of Exceptional Children . . . . . 3
EDSP 350 – Characteristic of Individuals with Mental Retardation and Orthopedic Handicaps . . 3
EDSP 356 – Applied Behavior Analysis . . . . . 3
EDSP 363 – Assistive Technology. . . . . 3
EDSP 365 – Including Students with Diverse Needs in the Classroom . . . . . 3
EDSP 367 – Educational Assessment of Exceptional Students . . . . . 3
EDSP 372 – Transition to Adult Life. . . . . 3

**2. Area of Specialization**
**Option 1: Learning and Behavior Disorders. . . . . 19**
EDSP 360 – Characteristic of Learning & Behavior Disorders . . . . . 3
EDSP 553 – Language Arts for Students with LBD . . . . 3
EDSP 555 – Teaching Students with LBD . . . . . 3
EDSP 559 – Practicum in Teaching Students with LBD 1
EDSP 557 – Mathematics and Content Area Teaching for Students with LBD . . . . . 3
EDSP 435 Supervised Teaching Practicum . . . . . 6

**Option 2: Moderate and Severe Disabilities . . . . . 18**
EDSP 370 – Transdisciplinary Assessment and Services for Students with MSD. . . . . 3
EDSP 371 – Field Experience in Transdisciplinary Assessment and Services for Students with MSD . . . . 1
EDSP 373 – Curriculum for Students with MSD . . . . . 3
EDSP 374 – Teaching Students with MSD . . . . . 3
EDSP 375 – Practicum in Education of Students with MSD . . . . . 2
EDSP 437 – Student Teaching Practicum MSD . . . . . 6

**3. Professional Education (P-5) . . . . . 39**
EDF 207 – Foundations of Education . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
EDEL 302 – Integrating Technology into the Classroom 3
EDEE 305 – Learning Theories in Early Elementary . . . 3
EDEM 330 – Foundations of Reading . . . . . 3
EDEE 321 – Teaching Math in Early Elementary. . . . . 3
EDEE 322 – Teaching Social Studies in Early Elementary. . . . . 3
EDEE 323 – Language Arts in Early Elementary . . . . . 3
EDEE 331 – Reading in the Early Elementary . . . . . 3
SCI 490 – Science for Elem. Teachers. . . . . 3
EDEM 499C – Capstone . . . . . 3
EDEE 423 – Supervised Student Teaching Practicum. . . 6

**4. Related Studies . . . . . 6**
EDEE 327 – Literature and Materials for Young Readers . . . . . 3
MATH 231 – Mathematics for Early Elementary Teachers I . . . . . 3
**Total general education credit hours required: . . . . 46**

MSU 101 – Discovering University Life . . . . . 1
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
CMSP 108 – Fundamentals of Speech Communication . 3
Math Reasoning: MATH 123, MATH 131,
MATH 135, MATH 141,
MATH 152, or MATH 174 . . . . . 3
Computer Competency: CIS 101 or EDUC 222 . . . . . 3
Humanities Elective: FNA 160; ART 263, 264; 265;
CMEM 210, 350, 390;
ENG 205, 120, 293; GOVT 180; MUST 261, 361,362;
THEA 110; or a Foreign Language . . . . . 3
HIS 201 – Global Studies, or
HIS 202 – American Studies . . . . . 3
PHIL 200 – Introduction to Philosophy . . . . . 3
BIOL 110 – Biological Sciences for
Elementary Teachers . . . . . 3
SCI 109 – Physical Science for the Elementary Teacher. 3
MATH 232 – Mathematics for
Early Elementary Teachers II . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
GOVT 141 – United States Government; or
*GOVT 362 – Current World Problems . . . . . 3
GEO 100 – Fundamentals of Geography;
*SOC 305 – Cultural Anthropology; or
*GEO 300 – World Geography . . . . . 3
HLTH 151 – Wellness: Theory in Action or
HS 101 Nutrition and Well being . . . . . 3

**Area of Concentration in LBD and Middle Grades (5-9)**

**Special Education . . . . . 37**
EDSP 230 – Education of Exceptional Children . . . . . 3
EDSP 320 – Introduction to Corrective Speech . . . . . 3
EDSP 350 – Characteristics of Individuals with Mental
Retardation and Orthopedic Handicaps . . . . . 3
EDSP 356 – Applied Behavior Analysis . . . . . 3
EDSP 360 – Characteristics of Individuals with
Learning Disabilities and Behavior Disorders . . . . . 3
EDSP 363 – Assistive Technology . . . . . 3
EDSP 365 – Including Students with Diverse
Needs in the Classroom . . . . . 3
EDSP 367 – Educational Assessment of
Exceptional Students . . . . . 3
EDSP 372 – Transition to Adult Life . . . . . 3
EDSP 553 – Language Arts for Students with LBD . . . . 3
EDSP 555 – Teaching Students with LBD . . . . . 3
EDSP 556 – Practicum in Teaching Students with LBD 1
EDSP 557 – Mathematics and Content Area
Teaching for Students with LBD . . . . . 3

**Education . . . . . 33**
EDEL 302 – Integrating Technology into the Classroom 3
EDEM 330 – Foundations of Reading . . . . . 3
EDF 207 – Foundations of Education . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
EDMG 306 – Development and Learning in Middle
Grades . . . . . 3
EDMG 347 – Literature and Materials for the
Preadolescent . . . . . 3
EDMG 332 – Reading Strategies for the Middle
Grade Teacher . . . . . 3
EDMG 341 – Teaching Math in Middle Grades . . . . . 3
EDMG 342 – Teaching Social Studies in the
Middle Grades . . . . . 3
EDMG 343 – Language Arts in Middle Grades . . . . . 3
EDUC 482 – Classroom Management and
Assessment . . . . . 3

**Integrated Component**
**(Professional Semester) . . . . . 15**
EDEM 499C – Senior Teaching Seminar . . . . . 3
EDMG 446 – Supervised Student Teaching . . . . . 6
EDSP 435 – Supervised Teaching Practicum . . . . . 6

**Related Studies . . . . . 6-7**
ART 121 – School Art I (3 hrs.), or
MUST 100 – Rudiments of Music (2 hrs.) and
MUSE 221 – Music for the Elementary
Teacher (2 hrs.) . . . . . 3-4
MATH 231 – Mathematics for the Elementary
Teacher I . . . . . 3

**General Education . . . . . 45**
CMSP 108 – Fundamentals of Speech
Communication . . . . . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
CIS 101 – Computers for Learning, or
EDUC 222 – Computing Tools for Educators . . . . . 3

*Choose three hours from the following math reasoning courses:*
MATH 123 – Introduction to Statistics, or
MATH 131 – Mathematical Reasoning
and Problem Solving, or
MATH 135 – Mathematics for Technical Students, or
MATH 141 – Plane Trigonometry, or
MATH 152 – College Algebra, or
MATH 174 – Pre-Calculus Mathematics . . . . . 3

Area Studies – only one course may be chosen from each prefix in area studies courses.

*Choose nine hours from the following Humanities courses:*
ART 263 – Art History I
ART 264 – Art History II
ART 265 – Art History III
CMEM 210 – Media Literacy
CMSP 350 – Communication, Culture, and Diversity

CMSP 390 – Conflict and Communication
ENG 205 – Language: Culture and Mind
ENG 120 – Approaches to Literature
ENG 293 – Introduction to Creative Writing
FNA 160 – Understanding the Visual Arts
GOVT 180 – Introduction to Political Theory
MUSH 261 – Music Listening
MUSH 361 – History of Music I
MUSH 362 – History of Music II
THEA 110 – Introduction to the Theatre
or foreign language course
HIS 201 – Global Studies
HIS 202 – American Studies
PHIL 200 – Introduction to Philosophy

*Choose nine hours from the following Natural & Mathematical Science courses:*
BIOL 110 – Biological Science for Elementary Teachers . . . . . 3
MATH 232 – Math for the Elementary Teacher II . . . . . 3
SCI 109 – Physical Science for Elementary Teachers . . . . . 3

*Choose nine hours from the following Social and Behavioral Science courses:*
GEO 100 – Fundamentals of Geography, or
*SOC 305 – Cultural Anthropology, or
*GEO 300 – World Geography . . . . . 3
GOVT 141 – United States Government, or
*GOVT 362 – Current World Problems . . . . . 3
PSY 154 – Introduction to Psychology, or
EDF 211 – Human Growth and Development . . . . . 3
**Meets the non-western culture course requirement. One non-western culture course must be completed.*

*Choose three hours from the following Practical Living courses:*
HLTH 151 – Wellness: Theory to Action, or
HS 101 – Nutrition and Well Being . . . . . 3

**Other Requirement**
MSU 101 – Discovering University Life . . . . . 1

**Middle Grades Academic Component (minimum) . . . . . 24**

The component must be chosen from English, science, social studies, and mathematics (see Middle Grades Program for list of specific courses in each component).

**Area of Concentration in MSD and Middle Grades (5-9)**

**Special Education . . . . . 36**
EDSP 230 – Education of Exceptional Children . . . . . 3
EDSP 320 – Introduction to Corrective Speech . . . . . 3
EDSP 350 – Characteristics of Individuals with Mental Retardation and Orthopedic Handicaps . . . . . 3

**EDSP 356 – Applied Behavior Analysis . . . . . 3**
EDSP 363 – Assistive Technology . . . . . 3
EDSP 365 – Including Students with Diverse Needs in the Classroom . . . . . 3
EDSP 367 – Educational Assessment of Exceptional Students . . . . . 3
*EDSP 370 – Transdisciplinary Assessment of Students with MSD . . . . . 3*
*EDSP 371 – Field Experience in Transdisciplinary Assessment and Services for Students with MSD Disabilities . . . . . 1*
EDSP 372 – Transition to Adult Life . . . . . 3
**EDSP 373 – Curriculum for Students with MSD . . . . 3**
**EDSP 374 – Teaching Students with MSD . . . . . 3**
**EDSP 375 – Practicum in Education of Students with MSD . . . . . 2**
*Courses in italic are to be taken concurrently.*
**Courses in bold are part of the MSD block to be taken concurrently during the fall semester preceding student teaching.**

**Education . . . . . 33**
EDEL 302 – Integrating Technology into the Classroom . . . . . 3
EDEM 330 – Foundations of Reading . . . . . 3
EDF 207 – Foundations of Education . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
EDMG 306 – Development and Learning in Middle Grades . . . . . 3
EDMG 332 – Reading Strategies for the Middle Grade Teacher . . . . . 3
EDMG 341 – Teaching Math in Middle Grades . . . . . 3
EDMG 342 – Teaching Social Studies in the Middle Grades . . . . . 3
EDMG 343 – Language Arts in Middle Grades . . . . . 3
EDMG 347 – Literature and Materials for the Preadolescent . . . . . 3
EDUC 482 – Classroom Management and Assessment . . 3

**Integrated Component (Professional Semester) . . . . . 15**
EDEM 499C – Senior Teaching Seminar . . . . . 3
EDMG 446 – Supervised Student Teaching . . . . . 6
EDSP 437 – Student Teaching Practicum in Education of Students with Moderate and Severe Disabilities . . . . . 6

**Related Studies . . . . . 6-7**
ART 121 – School Art I, or
MATH 231 – Mathematics for the Elementary Teachers I . . . . . 3
MUST 100 – Rudiments of Music, and
MUSE 221 – Music for Elementary Teachers . . . . . 3-4

**General Education . . . . . 45**
CMSP 108 – Fundamentals of Speech Communication . . . . . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
CIS 101 – Computers for Learning, or
EDUC 222 – Computing Tools for Educators . . . . . 3

*Choose three hours from the following Math Reasoning courses:*
MATH 123 – Introduction to Statistics, or
MATH 131 – Mathematical Reasoning and Problem Solving, or
MATH 135 – Mathematics for Technical Students, or
MATH 141 – Plane Trigonometry, or
MATH 152 – College Algebra, or
MATH 174 – Pre-Calculus Mathematics . . . . . 3

Area Studies – only one course may be chosen from each prefix in area studies courses.

*Choose nine hours from the following Humanities courses:*
ART 263 – Art History I
ART 264 – Art History II
ART 265 – Art History III
CMEM 210 – Media Literacy
CMSP 350 – Communication, Culture, and Diversity
CMSP 390 – Conflict and Communication
ENG 205 – Language: Culture and Mind
ENG 120 – Approaches to Literature
ENG 293 – Introduction to Creative Writing
FNA 160 – Understanding the Visual Arts
GOVT 180 – Introduction to Political Theory
MUSH 261 – Music Listening
MUSH 361 – History of Music I
MUSH 362 – History of Music II
THEA 110 – Introduction to the Theatre or foreign language course
HIS 201 – Global Studies
HIS 202 – American Studies
PHIL 200 – Introduction to Philosophy
*Choose nine hours from the following Natural & Mathematical Science courses:*
BIOL 110 – Biological Science for Elementary Teachers . . . . . 3
MATH 232 – Math for the Elementary Teacher II . . . . . 3
SCI 109 – Physical Science for Elementary Teachers . . 3

*Choose nine hours from the following Social and Behavioral Science courses:*
GEO 100 – Fundamentals of Geography, or
GOVT 141 – United States Government, or
*GOVT 362 – Current World Problems . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
*SOC 305 – Cultural Anthropology, or
*GEO 300 – World Geography . . . . . 3
**Meets the non-western culture course requirement. One non-western culture course must be completed.*

*Choose three hours from the following Practical Living courses:*
HLTH 151 – Wellness: Theory to Action, or
HS 101 – Nutrition and Well Being . . . . . 3

**Other Requirement**
MSU 101 – Discovering University Life . . . . . 1

**Middle Grades**
**Academic Component (minimum) . . . . . 24**
The academic component must be chosen from English, science, math, or social studies (see Middle Grades Program for list of specific courses required in each component).

*The student's program must include one of the indicated nonwestern courses.

## Non-Teaching Major and Minor

The department offers a non-teaching major and minor for students who would like to study special education but do not desire teacher certification. The major or minor is often taken in connection with majors or minors (for example, recreation or psychology) which prepare individuals to work with adults or children in non-public school settings.

**Major (Non-Teaching)**
CMSP 320 – Introduction to Corrective Speech, or
EDSP 320 – Introduction to Corrective Speech . . . . . 3
EDEM 330 – Foundations of Reading . . . . . 3
EDSP 230 – Education of Exceptional Children . . . . . 3
EDSP 350 – Characteristics of Individuals with Mental Retardation and Orthopedic Handicaps. . . . . 3
EDSP 356 – Applied Behavior Analysis . . . . . 3
EDSP 360 – Characteristics of Individuals with Learning Disabilities and Behavior Disorders . . . . . 3
EDSP 367 – Educational Assessment of Exceptional Students, or
Advisor approved course from MSD Program . . . . . 3
EDSP 555 – Teaching Students with LBD, or
Advisor approved course from MSD Program . . . . . 3
Electives (approved by advisor) . . . . . 6
EDSP 435 – Laboratory Experience . . . . . 4
**Total . . . . . 34**

**Minor (Non-Teaching)**
EDEM 330 – Foundations of Reading . . . . . 3
EDSP 230 – Education of Exceptional Children . . . . . 3
EDSP 350 – Characteristics of Individuals with Mental Retardation and Orthopedic Handicaps . . . . . 3

EDSP 356 – Applied Behavior Analysis . . . . . 3
EDSP 360 – Characteristics of Individuals with Learning Disabilities and Behavior Disorders . . . . . 3
EDSP 367 – Educational Assessment of Exceptional Students, or
Advisor approved course from MSD Program . . . . . 3
EDSP 555 – Teaching Students with LBD, or
Advisor approved course from MSD Program . . . . . 3
EDSP 435 – Supervised Teaching Practicum . . . . . 4
**Total . . . . . 25**

### Child Development Associate (CDA) Program

The Child Development Associate (CDA) Program is a training program which offers nine hours of University approved course work. These nine hours (three–three hour courses) fulfill the mandatory 120 clock hours of training needed to apply for the CDA credential. After training is completed students go through an assessment process designed and implemented by the National Council for Early Childhood Professional Recognition to determine their competence in working with young children. If they successfully complete the process, a CDA credential is awarded. The CDA credential may be obtained in a center based setting with a preschool school (3 to 5 years old) and/or infant/toddler (birth to 3) endorsement, or a family child care (birth through age 5) setting by the National Council for Early Childhood Professional Recognition (NCEEPR).

The three Child Development Associate classes are: EDEC 125, EDEC 150, and EDEL 250.

## Department of Health, Physical Education, & Sport Sciences

Lynne Fitzgerald, Chair
201 Laughlin Health Building
(606) 783-2180

The Department of Health, Physical Education, & Sport Sciences offers general education courses, majors, areas of concentration in exercise science and sport management and minors in health promotion, a major in physical education and minors in health promotion and coaching. The general education courses are for all students.

Students selecting a major in health, physical education or sport sciences will be required to complete admissions assessments as well as exit examinations covering knowledge and competencies of their programs. Results of these assessments are used for individual guidance and program development. Students should check with their advisors to be certain that they comply with all requirements.

## Coaching

### Faculty

S. Chen, L. Fitzgerald, M. Miller

### Minor

PHED 201 – Introduction to Coaching . . . . . 3
PHED 220 – Athletic Training I . . . . . 3
PHED 330 – Scientific Bases of Coaching, or
PHED 432 – Physiology of Exercise . . . . . 3
PHED 332 – Principles of Strength and Conditioning . . . . . 3
PHED 350 – Coaching of Sport *(select two)*
a. Baseball . . . . . 2
b. Basketball . . . . . 2
c. Cross Country, Track & Field . . . . . 2
d. Football . . . . . 2
e. Golf . . . . . 2
f. Soccer . . . . . 2
g. Softball . . . . . 2
h. Swimming . . . . . 2
i. Tennis . . . . . 2
j. Volleyball . . . . . 2
k. Wrestling . . . . . 2
PHED 420 – Administration of School Athletic Programs, or
SPMT 200 – Management of Sport and Physical Activity Programs . . . . . 3
PHED 336 – Foundations of Sport Psychology, or
PHED 430 – The Psychosocial Dimensions of Sport and Physical Activity . . . . . 3
PHED 477 – Coaching Internship . . . . . 3
**Total . . . . . 25**

*Note: A physical education major (P-12) must have an additional minor for an AB degree in education if selecting a coaching minor.*

## Health

### Faculty

J. Dearden, T. Hardman,
W. Kerr, M. Miller

### Program Competencies

**Students completing the program are:**

1. To be familiar with the components of and function of each facet of a comprehensive school health or health promotion program.
2. To communicate effectively, including the ability to write objectives which address the three domains of education (cognitive, affective, and psychomotor).
3. To be able to effectively plan, implement, and evaluate teaching units including various teaching strategies and/or methodologies which address the 75 defined learner outcomes identified in the Kentucky Educational Reform Act.

4. To be cognizant of the various types of learners, and the learning strategies/methodologies which will address the needs to each learner classification.
5. To develop educational units that encourage cross disciplinary integration.
6. To develop critical thinking and problem solving skills.
7. To serve as a facilitator, health advocate, and resource professional for current and future issues in the profession of health for students, teacher, administrators, and the community.
8. To identify and effectively utilize appropriate resources pertaining to health.
9. To be familiar with professional organizations, current trends, and issues relevant to health.
10. To develop classroom skills that will be conducive to the successful accumulation of knowledge and illustrate the applicability to real world situations.
11. To successfully develop measurement and evaluation instruments which will assess the health needs of the student as well as effectiveness of instruction.
12. To effectively disseminate objective, non-biased health information and activities which will provide the student the opportunity to formulate personal values concerning health-related issues.
13. To become familiar with and develop the skills identified within the competencies/responsibilities of an entry level health educator.

**Assessment Procedures**

Portfolios
Certification examination
Employment data
External evaluation practicum/field experiences
PRAXIS Content Area Exams
PRAXIS PLT Exam
Dispositions Assessment

## Bachelor of Arts

The health major and minor programs prepare individuals for positions in any of the five recognized work settings for health educators – school, community, college/university, work-site, or medical. The programs are broken down into two classifications: Health Promotion and Health Education (P-12). Specific general education requirements for the Health Promotion Major are: BIO 231, CIS 101, PSY 154, HLTH 151, HLTH 203, and HLTH 499C.

**Major (Health Promotion)**

HPE 160 – Foundations of Health and Physical Education . . . . . 3
HLTH 205 – Psychological Health . . . . . 3
HLTH 206 – Principles of Nutrition . . . . . 3
HLTH 230 – Community Health . . . . . 3
HLTH 310 – Health and Wellness Promotion . . . . . 3
HLTH 360 – Family Health . . . . . 3
HLTH 425 – Planning, Managing and Evaluating Health/Wellness Programs . . . . . 3
HLTH 430 – Consumer Health . . . . . 3
HLTH 435 – Health Counseling . . . . . 3
HLTH 470 – Practicum in Health Promotions . . . . . 15
HLTH 499C – Senior Seminar in Health Promotion . . . . . 3
HLTH 508 – General School Safety . . . . . 3
HLTH 514 – Principles of Epidemiology . . . . . 3
HLTH 518 – Use and Abuse of Drugs . . . . . 3
**Approved 300-500 level electives . . . . . 6**
**Total . . . . . 60**

Approved 300-500 Level Electives for Health Promotion Major (other electives as approved by advisor)
SOC 540 – Gerontology
SOC 545 – Death and Dying
CMSP 350 – Communication, Culture, and Diversity
CMSP 383 – Small Group Communication
HLTH 475 – The School Health Program
HLTH 599 – Workshop in Health

**Total Program Requirements:**
**Major Core . . . . . 60**
**General Education . . . . . 48**
**Minor (minimum) . . . . . 21**
**Total Program Hours . . . . . 129**

## Minor (Health Promotion)

HPE 160 – Foundations of Hlth & Physical Education . 3
HLTH 205 – Psychological Health . . . . . 3
HLTH 230 – Community Health . . . . . 3
HLTH 310 – Health and Wellness Promotion . . . . . 3
HLTH 360 – Family Health . . . . . 3
HLTH 430 – Consumer Health . . . . . 3
HLTH 435 – Health Counseling . . . . . 3
HLTH 477 – Field Experience in Health . . . . . 3
HLTH 518 – Use and Abuse of Drugs . . . . . 3
**Total . . . . . 27**

## Suggested Course Sequence Health Promotion Major

**Freshmen Year**

**First Semester**

CMSP 108 – Fund. Of Speech Communication . . . . . 3
ENG 100 – Writing I . . . . . 3
CIS 101 – Intro to Computers or EDUC 222 – Computing Tools for Educators . . . . . 3
HLTH 151 – Wellness: Theory to Action . . . . . 3
HLTH 203 – Safety and First Aid . . . . . 3
MSU 101 – Discovering University Life . . . . . 1
**Total . . . . . 16**

**Second Semester**

General Education Core . . . . . 6
PSY 154 – Psychology . . . . . 3
ENG 200 – Writing I . . . . . 3

HPE 160 – Foundations of Hlth and Physical Ed . . . . . 3
HLTH 206 – Nutrition . . . . . 3
**Total . . . . . 18**

**Sophomore Year**

**First Semester**
General Education Core . . . . . 6
BIOL 231– Human Anatomy . . . . . 3
HLTH 230 – Community Health . . . . . 3
Minor . . . . . 6
**Total . . . . . 18**

**Second Semester**
General Education Core . . . . . 6
HLTH 360 – Family Health . . . . . 3
HLTH 205 – Psychological Health . . . . . 3
Minor . . . . . 6
**Total . . . . . 18**

**Junior Year**

**First Semester**
300-500 electives . . . . . 6
HLTH 310 – Health and Wellness Promotion . . . . . 3
General Education Core . . . . . 6
Minor . . . . . 3
**Total . . . . . 18**

**Second Semester**
General Education Core . . . . . 3
HLTH 425 – Planning and Managing HP programs. . . . 3
HLTH 430 – Consumer Health . . . . . 3
HLTH 508 – General School Safety . . . . . 3
Minor . . . . . 3
**Total . . . . . 15**

**Summer Intercession**
HLTH 435 – Health Counseling. . . . . 3
Credit Hours . . . . . 3

**Senior Year**

**First Semester**
HLTH 499C – Senior Seminar in HP . . . . . 3
HLTH 518 – Use and Abuse of Drugs . . . . . 3
HLTH 514 – Principles of Epidemiology . . . . . 3
Minor . . . . . 6
**Total . . . . . 15**

**Second Semester**
Professional Semester: HLTH 470 Practicum . . . . . 15
**Total . . . . . 15**

# Bachelor of Arts

## Faculty

L. Fitzgerald, T. Hardman, M. Magner,
M. Miller, T. Newsome

## Program Competencies

**Students will demonstrate:**

1. An understanding of and working knowledge of discipline specific content.
2. An understanding of general knowledge from other disciplines which can be applied to the discipline.
3. Experiences and opportunities to develop the skills and techniques (including technology) needed to ensure the effective delivery of content to students in developmentally appropriate ways.
4. Knowledge and activities designed to promote sensitivity to and accountability for diverse learner populations.
5. An understanding of and experience using the skills needed for effective classroom management.
6. The skills needed to design, implement, and evaluate student assessments.
7. Knowledge and skills to participate in an interdisciplinary approach to education.
8. Knowledge and skills needed to effectively select and utilize a variety of technical and human resources to augment the learning process.
9. Opportunities to implement Kentucky Education Reform Act initiatives and to be assessed in regard to the effective delivery (KTIP guidelines) of the same in a variety of preservice practice teaching activities.

## Assessment Procedures

Portfolios
On demand tasks
PRAXIS Content Area Exam(s)
PRAXIS PLT Exam
Disposition assessment

The physical education curriculum emphasizes the study of the art and science of teaching human motion in sport, dance, and exercise. The major entails 39 hours, including 21 hours of major core and 18 hours of teacher certification course work. Candidates are required to take 24 hours of professional education courses as well. A minor is not offered.

## Area of Concentration in Health and Physical Education P-12 Teaching

Specific general education requirements for Health and Physical Education are: BIOL 231, CIS 101 or EDUC 222, EDF 211, PSY 154, SOC 101 or SOC 354, HLTH 151, HLTH 203, HPE 499C.

**Major Core courses:**

HLTH 205 – Psychological Health . . . . . 3
HLTH 206 – Principles of Nutrition . . . . . 3
HLTH 230 – Community Health . . . . . 3
HLTH 360 – Family Health . . . . . 3
HLTH 430 – Consumer Health . . . . . 3
HLTH 518 – Use and Abuse of Drugs . . . . . 3
HPE 160 – Foundations of Hlth & Physical Education . 3
HPE 301 – Classroom Assess. in Hlth & Physical Ed . . 3
PHED 205 – Lifetime Fitness . . . . . 3
PHED 306 – Functional Anatomy/Biomechanics . . . . . 3
PHED 315 – Motor Development & Motor Learning . . 3
PHED 430 – Psychosocial Dimensions of Sport & Physical Activity . . . . . 3
PHED 432 – Physiology of Exercise . . . . . 3
**Total . . . . . 39**

**Teacher Certification (P-12) Courses**

Methods of Teaching:
HLTH 475 – School Health Program . . . . . 3
HPE 300 – Methods of Health and Physical Education to Elementary School Students . . . . . 6

HPE 303 – Health and Physical Education in the Secondary School . . . . . 6
(Health Module 3 hrs.; Physical Education Module 3 hrs.)
PHED 212 – Games and Rhythms for Elementary Teachers . . . . . 3
PHED 213 – Individual Sports . . . . . 1
PHED 214 – Racket Sports . . . . . 1
PHED 215 – Team Sports . . . . . 1
PHED 216 – Lifetime Sports . . . . . 1
PHED 217 – Gymnastics and the Martial Arts . . . . . 1
PHED 218 – Dance . . . . . 1
PHED 475 – Adapted Physical Education . . . . . 3
**Total. . . . . 27**

**Professional Education Courses**

EDF 207 – Foundations of Education . . . . . 3
EDF 311 – Learning Theories and Assessment in Education . . . . . 3
EDSE 312 – Educational Methods and Technology . . . . 3
EDSE 416 – Clinical Practice . . . . . 12
EDSE 483 – Classroom Organization and Management for Secondary Teachers . . . . . 3
**Total . . . . . 24**

**Major Core . . . . . 39**
**Teacher Certification . . . . . 27**
**Professional Education . . . . . 24**
**General Education . . . . . 48**
**Total Program Hours . . . . . 138**

**Freshman Year**

**First Semester**

CMSP 108 – Fund. Of Speech Communication . . . . . 3
ENG 100 – Writing I . . . . . 3
CIS 101 – Intro to Computers or
EDUC 222 – Computing Tools for Educators . . . . . 3
HLTH 151 – Wellness: Theory to Action. . . . . 3
HLTH 203 – Safety and First Aid . . . . . 3
MSU 101 – Discovering University Life. . . . . 1
PHED 216 – Methods lifetime sports . . . . . 1
**Total . . . . . 17**

**Second Semester**

General Education Core . . . . . 3
EDF 207 – Foundations of Education . . . . . 3
HPE 160 – Found. of Hlth, Physical Ed & Sport Sciences3
PSY 154 – Psychology. . . . . 3
ENG 200 – Writing I . . . . . 3
PHED 217 – Methods gym/martial arts. . . . . 1
PHED 218 – Methods teaching dance . . . . . 1
**Total . . . . . 17**

**Sophomore Year**

**First Semester**

General Education Core . . . . . 3
SOC 101– Into Soc. Or SOC 354 – Ind. & Soc. . . . . 3
HLTH 230 – Community Health . . . . . 3
PHED 212 – Games/Rhythms Elementary . . . . . 3
EDF 211 – Human Growth & Development . . . . . 3
**Total . . . . . 15**

**Second Semester**

General Education Core . . . . . 3
BIOL 231 – Human Anatomy . . . . . 3
HLTH 205 – Psychological Health . . . . . 3
HLTH 206 – Principles of Nutrition . . . . . 3
PHED 205 – Lifetime Fitness . . . . . 3
PHED 214 – Methods Racket Sports. . . . . 1
**Total . . . . . 16**

**Junior Year**

**First Semester**

General Education Core . . . . . 6
PHED 306 – Kinesiology. . . . . 3
HLTH 475 – School Health Program. . . . . 3
HPE 301 – Classroom Assessment in HPE . . . . . 3
PHED 213 – Methods Individual Sports . . . . . 1
PHED 215 – Methods Team Sports . . . . . 1
**Total . . . . . 17**

**Second Semester**

General Education Core . . . . . 3
HLTH 360 – Family Health . . . . . 3
PHED 315 – Motor Learning/Development . . . . . 3

PHED 430 – Psych.Dimensions of Spt & Physical Act . 3
EDF 311 – Learning Theories for Teacher. . . . . 3
**Total . . . . . 15**

**Senior Year**

**First Semester**
PHED 475 – Adapted Physical Ed. . . . . 3
HLTH 518 – Use and Abuse of Drugs . . . . . 3
HPE 300 – Methods Teaching HPE Elem. . . . . 6
EDSE 312 – Ed. Methods and Technology . . . . . 3
**Total . . . . . 15**

**Second Semester**
PHED 432 – Exercise Physiology . . . . . 3
HLTH 430 – Consumer Health . . . . . 3
HPE 303 – Hlth and PE in Secondary School . . . . . 6
EDSE 483 – Classroom Organization and Management . 3
**Total . . . . . 15**

**Year 5: Fall**
EDSE 416 – Student teaching . . . . . 12
HPE 499C – Senior Seminar. . . . . 3
**Total . . . . . 15**

## Bachelor of Arts
## Health Education Teaching P-12

Specific general education requirements for Health Education programs are BIOL 231, CIS 101 (or) EDUC 222, EDF 211, HLTH 151, HPE 499C, PSY 154.

**Supplemental Requirement**
HLTH 203 – Safety and First Aid . . . . . 3

**P-12 Health Major**
HLTH 205 – Psychological Health . . . . . 3
HLTH 206 – Principles of Nutrition . . . . . 3
HLTH 230 – Community Health . . . . . 3
HLTH 360 – Family Health . . . . . 3
HLTH 430 – Consumer Health . . . . . 3
HLTH 518 – Use and Abuse of Drugs . . . . . 3
HPE 301 – Class. Assessment in Health & Physical Ed 3
HPE 160 – Foundations of Hlth & Physical Education . 3
**Total . . . . . 24**

**Teacher Certification (P-12) Courses**
HLTH 475 – School Health Program . . . . . 3
HPE 300 – Methods of Teaching Health and Physical Education Elementary Students (Health Module only) . . . . . 3
HPE 303 – Health and Physical Education in the Secondary School (Health Module only) . . . . . 3
**Total . . . . . 9**

**Professional Education Courses**
EDF 207 – Foundations of Education . . . . . 3
EDF 311 – Learning Theories and Assessment in Education . . . . . 3
EDSE 312 – Educational Methods and Technology . . . . 3
EDSP 332 – Teaching the Exceptional Student . . . . . 2
EDSE 416 – Clinical Practice . . . . . 12
EDSE 483 – Classroom Organization and Management for Secondary Teachers . . . . . 3
Major Core . . . . . 24
Teacher Certification . . . . . 9
Professional Education . . . . . 26
General Education . . . . . 48
Minor (21 minimum) . . . . . 21
**Total Program hours . . . . . 128**

## Bachelor of Arts
## Physical Education Teaching P-12

Specific general education courses required as part of the Physical Education Major include BIOL 231, EDF 211, CIS 101 or EDUC 222, HLTH 151, HLTH 203, HPE 499C, SOC 101 or SOC 354, and PSY 154.

**Major Core Courses**
HPE 160 – Foundations of Health and Physical Education . . . . . 3
HPE 301 – Classroom Assessment in Health and Physical Education . . . . . 3
PHED 205 – Lifetime Fitness (A Scientific Approach) . . . . . 3
PHED 315 – Motor Development and Motor Learning . . . . . 3
PHED 306 – Functional Anatomy/Biomechanics . . . . . 3
PHED 430 – The Psychosocial Dimensions of Sport and Physical Activity . . . . . 3
PHED 432 – Physiology of Exercise . . . . . 3
**Total . . . . . 21**

### Teacher Certification Program Requirements (P-12)

Refer to "Teacher Education Program" and "Professional Experiences" on page 61 for further course and grade requirements. The Teacher Education Program requires minimum grades of "C" in both HPE 160 and PHED 205. Students who have not scored 21 or better on the ACT will retake the test within the first semester after declaring a teaching major. Students who do not score 21 or better within one year will take the ACT preparation course.

**Complete each of the following**
HPE 300 – Methods of Teaching Health and Physical Education to Elementary Students (Physical Education Module) . . . . . 3

HPE 303 – Health and Physical Education in the Secondary School (Physical Education Module) . . . . . 3
PHED 212 – Games and Rhythms for Elementary Teachers . . . . . 3
PHED 213 – Methods of Teaching Individual Sports . . 1
PHED 214 – Methods of Teaching Racket Sports . . . . . 1
PHED 215 – Methods of Teaching Team Sports . . . . . 1
PHED 216 – Methods of Teaching Lifetime Sports . . . . 1
PHED 217 – Methods of Teaching Gymnastics and the Martial Arts . . . . . 1
PHED 218 – Methods of Teaching Dance . . . . . 1
PHED 475 – Adapted Physical Education . . . . . 3
**Subtotal . . . . . 18**

**Professional Education**
EDF 207 – Foundations of Education . . . . . 3
EDF 311 – Learning Theories and Assessment in Education, or
EDSE 312 – Educational Methods and Technology . . . . 3
EDSE 483 – Classroom Organization and Management for Secondary Teachers . . . . . 3
EDSE 416 – Clinical Practice . . . . . 12
**Total . . . . . 24**
**General Education . . . . . 48**
**Minor (Minimum) . . . . . 21**
**Program Major Total . . . . . 132**

## Suggested Sequence of Courses for Teaching P-12 Physical Education Major

**Refer to HPE suggested sequence.**

# Exercise Science

### Faculty

G. Blunt, K. Tessmer, M. Probst

## Bachelor of Science Program Competencies

**Students will demonstrate:**

1. Knowledge and understanding of the biological and applied sciences which lay the foundation for this area of study.
2. Knowledge of and ability to measure and assess physical wellness.
3. Ability to design, support, and evaluate individuals in fulfilling programs designed to promote improved wellness.
4. Ability to develop, teach and assess exercise skills and activities.
5. Ability to develop, promote, administer and evaluate a variety of wellness programs.
6. Knowledge of wellness programs for all populations.

## Assessment Procedures

Portfolios
ACSM HFI Exam
Employment data
Internship Data

## Exercise Science Area of Concentration (60 hours)

*Area = Exercise Science Core + one of two options*

**General Education Requirements:**
BIOL 231 – Human Anatomy . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4
CIS 101 – Computers for Learning . . . . . 3
HLTH 151 – Wellness: Theory to Action . . . . . 3
MATH 123 – Introduction to Statistics, or
MATH 135 – Mathematics for Technical Students, or
MATH 152 – College Algebra . . . . . 3
PHED 499D – Senior Capstone . . . . . 3
PHIL 203 – Social Ethics, or
PHIL 306 – Introduction to Logic . . . . . 3
PHYS 201 – Elementary Physics I, or
SCI 103 – Introduction to Physical Sciences . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
SOC 101 – General Sociology . . . . . 3

**Program Requirements – Core**
BIOL 231 – Human Anatomy . . . . . 3
BIOL 232 – Human Physiology . . . . . 3
HLTH 203 – Safety and First Aid . . . . . 3
HLTH 206 – Principles of Nutrition . . . . . 3
HLTH 310 – Health and Wellness Promotion . . . . . 3
HPE 160 – Foundations of Hlth & Physical Education . 3
PHED 205 – Lifetime Fitness (A Scientific Approach) . 3
PHED 220 – Athletic Training I . . . . . 3
PHED 301 – Evaluation in Exercise Science . . . . . 3
PHED 306 – Functional Anatomy/Biomechanics . . . . . 3
PHED 315 – Motor Development & Motor Learning . . 3
PHED 326 – Exercise Program Leadership . . . . . 3
PHED 332 – Principles of Strength & Conditioning . . . 3
PHED 423 – Exercise Mgnt: Special Populations . . . . . 3
PHED 432 – Physiology of Exercise . . . . . 3
**Total . . . . . 45**

**Option 1: Corporate Wellness/Clinical**
PHED 424 – Principles and Practice of Kinesiotherapy, or . . . . . 4
PHED 475 – Adapted Physical Education . . . . . 3
PHED 550 – Planning & Managing Exercise Prog . . . . 3
PHED 551 – Exercise Testing and Prescription . . . . . 3
PHED 553A – Corporate Practicum . . . . . 3
PHED 553B – Clinical Practicum . . . . . 3
**Total . . . . . 15-16**

**Option 2: Kinesiotherapy**

PHED 424 – Principles and Practice of Kinesiotherapy . . . . . 4
PHED 475 – Adapted Physical Education . . . . . 3

PHED 550 – Planning and Managing Exercise Programs, or
PHED 551 – Exercise Testing and Prescription . . . . . 3
PHED 553B – Clinical Practicum . . . . . 3
PHED 553C – Clinical Internship in Kinesiotherapy . . . . . 3
**Total . . . . . 16**

**Freshman Year**

**First Semester**
ENG 100 – Writing I
CIS 101 – Computer for Learning
MATH – 123, or 135, or 152
HPE 160 – Foundations of Health and PE
CMSP 108 – Fundamentals of Speech
**Total . . . . . 15**

**Second Semester**
BIO 231 – Human Anatomy
CHEM 101 – Survey of General Chemistry
HLTH 151 – Wellness Theory to Action
PHED 205 – Lifetime Fitness
SCI 103 – Phys Sci or PHYS 201 – Elem Phys
**Total . . . . . 16**

**Sophomore Year**

**First Semester**
General Education Elective
PHIL 203 – Soc Ethics or PHIL 306 Intro to Logic
PHED 220 – Athletic Training
HLTH 203 – Safety and First Aid
ENG 200 – Writing II
General Education Elective
**Total . . . . . 18**

**Second Semester**
General Education Elective
PSY 154 – General Psychology
SOC 101 – General Sociology
BIO 232 – Human Physiology
HLTH 206 – Principles of Nutrition
**Total . . . . . 15**

**Junior Year**

**First Semester**
HLTH 310 – Health and Wellness Promotion
PHED 301 – Evaluations in Physical Education
PHED 315 – Motor Development/Motor Learning
PHED 332 – Prin of Strength and Conditioning
PHED 306 – Functional Anatomy/Biomechanics
**Total . . . . . 15**

**Second Semester**
PHED 326 – Exercise Program Leadership
PHED 424 – Prin and Pract of Kinesiotherapy
PHED 432 – Physiology of Exercise
Select 2 Electives
**Total . . . . . 16**

**Senior Year**

**First Semester**
PHED 423 – Exercise Management of Special Populations
PHED 551 – Exercise Testing and Prescription or - 1 elective
PHED 475 – Adapted Physical Education
Select 2 electives
**Total . . . . . 15**

**Second Semester**
PHED 550 – Planning and Managing Exercise Programs or - 1 elective
PHED 553B – Clinical Internship
PHED 553C – Kinesiotherapy Internship
Select 2 electives
**Total . . . . . 15**

**Summer I**

PHED 499D Senior Capstone
**Total** . . . . . 3
**Total Hours . . . . . 128**

# Sport Management

## Faculty

S. Chen, J. Hypes, M. Hypes, W. Kerr

## Program Competencies

**The student will demonstrate competencies in the following areas:**

1. Socio-culture context of sport.
2. Management and leadership in sport.
3. Ethics in sport management.
4. Marketing in sport.
5. Public relations in sport.
6. Financial management in sport.
7. Legal aspects in sport.
8. Research in sport.
9. Economics in sport.
10. Governance in sport.
11. Communication in sport.
12. Field experience in sport management.

## Assessment Procedures

Senior capstone course

## Sport Management Area of Concentration
## General Education Core Requirements

**Required Core**

CMSP 108 – Fundamentals of Speech Communication . . . . . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
Math Reasoning Course . . . . . 3
Computer Competency . . . . . 3

Area Studies **-** *Only one course may be chosen from each prefix in Area Studies courses.*

Humanities . . . . . 9
Natural and Mathematical Sciences . . . . . 9
Social and Behavioral Sciences . . . . . 9
Practical Living . . . . . 3
Integrative Component (SPMT 499C) . . . . . 3
**Total . . . . . 48**

**Core Electives**

Students will select twenty-one hours from the following list based on their interests and career objectives. Prerequisites for

electives are in italics below the course title.

ACCT 281 – Principles of Financial Accounting . . . . . 3
BIS 321 – Business Communications . . . . . 3
CIS 311 – Management Information Systems . . . . . 3
CMAP 382 – Principles of Public Relations . . . . . 3
CMAP 383 – Principles of Advertising . . . . . 3
CMEM 459 – Electronic Media Law & Regulations . . . 3
CMSP 390 – Conflict and Communication . . . . . 3
CMJN 492 – Law and Ethics of the Press . . . . . 3
ECON 202 – Principles of Microeconomics . . . . . 3
MKT 304 – Marketing . . . . . 3
MKT 454 – Integrated Marketing Communication . . . . 3
MNGT 261 – The Legal Envir. of Business Org. . . . . 3
MNGT 301 – Principles of Management . . . . . 3
MNGT 311 – Human Resource Management . . . . . 3
**Total . . . . . 21**

**Area of Concentration**

SPMT 100 – Introduction to Sport Management . . . . . 3
SPMT 102 – Diversity in Sport and Physical Activity . . . . . 3
SPMT 200 – Management of Sport and Physical Activity Programs . . . . . 3
SPMT 204 – Sport Finance . . . . . 3
SPMT 206 – Ethics in Sport and Physical Activity . . . . 3
SPMT 304 – Sport Economics . . . . . 3
SPMT 307 – Sport Marketing . . . . . 3
SPMT 309 – Risk Management in Sport and Physical Activity . . . . . 3
SPMT 310 – Governance in Sport . . . . . 3
SPMT 380 – Sport Media Relations . . . . . 3
SPMT 402 – Planning, Designing and Managing Sport and Physical Activity Facilities . . . . . 3
PHED 430 – Psychosocial Dimensions of Sport and Physical Activity . . . . . 3
SPMT 450 – Field Experience Preparation . . . . . 2
SPMT 471 – Sport Management Internship . . . . . 15
SPMT 480 – Legal Aspects of Sport and Physical Activity . . . . . 3
SPMT 481 – Employee Service Management in Sport and Physical Activity Settings . . . . . 3
**Total . . . . . 59**

**Total Program . . . . . 128**

*Depending on the core electives chosen, the student may exceed the 128 hours.

## Suggested course sequence for Sport Management Concentration

**Freshman Year**

**First Semester**

ENG 100 – Writing I . . . . . 3
Computer Competency. . . . . 3
Humanities . . . . . 3
Social & Behavioral Sciences . . . . . 3
SPMT 100 – Introduction to Sport Management. . . . . 3
MSU 101 . . . . . 1
**Total . . . . . 16**

**Second Semester**

CMSP 108 – Fundamentals of Speech Communication . 3
Humanities . . . . . 3
Natural and Mathematical Sciences. . . . . 3
Social and Behavioral Sciences . . . . . 3
SPMT 102 – Diversity in Sport and Physical Activity . . 3
**Total . . . . . 15**

**Sophomore Year**

**First Semester**

Core Elective . . . . . 3
ENG 200 – Writing II . . . . . 3
Natural and Mathematical Science . . . . . 3
Practical Living . . . . . 3
SPMT 200 – Mgt of Sport & Phy. Activity Programs. . . 3
**Total . . . . . 15**

**Second Semester**

Humanities . . . . . 3
Natural and Mathematical Science. . . . . 3
Social & Behavioral Science . . . . . 3
SPMT 204 – Sport Finance . . . . . 3
SPMT 206 – Ethics in Sport & Physical Act. . . . . 3
**Total . . . . . 15**

**Junior Year**

**First Semester**

Core Electives . . . . . 6
Natural & Mathematical Science . . . . . 3
SPMT 304 – Sport Economics. . . . . 3
SPMT 380 – Sport Media Relations . . . . . 3
**Total . . . . . 15**

**Second Semester**

Core Electives. . . . . 3
SPMT 307 – Sport Marketing . . . . . 3
SPMT 309 – Risk Mgt in Sport & Physical Activity . . . 3
SPMT 310 – Governance in Sport . . . . . 3
**Total . . . . . 12**

**Senior Year**

**First Semester**

Core Electives. . . . . 3
SPMT 402 – Plan., Designing, & Managing Spt Fac . . . 3
SPMT 480 – Legal Aspects of Sport & Physical Act . . . 3
SPMT 481 – Employee Svc Mgt in Sport & Physical Act3
**Total . . . . . 12**

**Second Semester**

Core Electives. . . . . 6
PHED 430 – Psychosocial Dimensions of Sport . . . . . 3
SPMT 499C – Senior Capstone . . . . . 3
SPMT 450 – Field Experience Preparation . . . . . 2
**Total . . . . . 14**

**Summer Semester**

SPMT 471-Sport Management
Internship** . . . . . 15
**Total . . . . . 15**

## Department of Professional Programs in Education

Faculty

L. Aagard, D. Abell, V. Ballestero, K. Baker, D. Barnett, K. Bartosz, R. Cleveland, J. Canipe, B. Klecker, D. Owen, J. Peregoy, E. Renfro-Michel, T. Simpson, R. Skidmore, P. Stevens, W. Willis (Chair), S. Wright

MOREHEAD STATE UNIVERSITY

# Caudill College of Humanities

## Caudill College of Humanities at a Glance

**J. Michael Seelig, Dean**
212 Rader Hall
(606) 783-2650
E-mail: m.seelig@moreheadstate.edu

### Department of Art
BA - Art

### Department of Communication & Theatre
BA - Communication with options:
Advertising/Public Relations
Journalism
Organizational & Interpersonal Communication
Production
BA - Theatre
BA - Theatre, Teacher Certification

### Department of English, Foreign Languages & Philosophy
BA - English
BA - French
BA - Spanish
BA - Philosophy

### Department of Geography, Government & History
BA - Geography with options
BA - Government with options
BA - History
BA - Paralegal Studies
BA - Social Studies

### Department of Music
BME - Music Education
BM - Music Performance
BM - Performance in Jazz Studies
BA - Music

### Department of Military Science

### Department of Sociology, Social Work, & Criminology
BA - Sociology
BA - Sociology with an Emphasis in Criminology
BA - Area of Concentration in Criminology
BSW - Area of Concentration in Social Work

## Department of Art

Robert Franzini, Chair
211 Claypool-Young Art Building
(606) 783-2193

### Faculty

D. Bartlett, R. Campbell, D. Ferrell, B. Frieder, R. Franzini, J. Gawne, D. Golding, J. Gritton, E. Mesa-Gaido, G. Mesa-Gaido, G. Penner, E. Perkins, S. Tirone

### Competencies Required in the Program

**Students will be able to:**

1. Understand and skillfully apply various media, techniques, and technology in the production and presentation of art work.
2. Use knowledge of characteristics of visual art to effectively convey ideas.
3. Effectively choose a range of subject matter, symbols, and ideas as content for works of art.
4. Understand the visual arts in relation to history and cultures.
5. Reflect upon and assess the characteristics and merits of their work and the work of others.
6. Make connections between the visual arts and other disciplines.
7. Communicate about art effectively in written and oral form.

### Assessment Procedures

Senior art history written assignment evaluated by faculty
Senior exhibit of four to six works evaluated by faculty
PRAXIS exam for Art Teacher Certification students
Graduating Student Survey completed within the Senior Capstone course
Alumni survey

### Bachelor of Arts

The Department of Art offers programs in art education, art history, and studio art. Courses in the beginning, intermediate, and advanced levels are available in art education, art history, ceramics, computer art, drawing, graphic design, painting, photography, printmaking, and sculpture.

### Program Requirements

A 2.50 cumulative GPA in art courses at end of sophomore year.
A 2.75 cumulative GPA in art courses at graduation.
Sophomore exhibit of four to six works with Faculty Review.
Senior exhibit of four to six works.
Senior resumes and slide portfolio.
Viewing of art exhibitions outside the Morehead area.
Transfer students must comply with the intent of these requirements on an individually evaluated basis.

**General Education Requirements ..... 48**

*See general education requirements for the University.* The following courses are required General Education courses for students in the Area of Concentration and the Major in Art:

ART 109 – Introduction to the Computer in the Visual Arts . . . . . 3
ART 499C – Visual Art Capstone . . . . . 3

### Art Major

ART 101 – Two-Dimensional Foundation . . . . . 3
ART 102 – Three-Dimensional Foundation . . . . . 3
ART 103 – Color Foundation . . . . . 3
ART 204 – Drawing . . . . . 3
ART 214 – Painting Techniques I . . . . . 3
*Choose two of three* . . . . . 6
ART 263 – Art History I
ART 264 – Art History II
ART 265 – Art History III
*Choose one of two* . . . . . 3
ART 245 – Ceramics I
ART 294 – Sculpture I
*Choose one of three* . . . . . 3
ART 351 – Intaglio Printmaking
ART 352 – Lithographic Printmaking
ART 373 – Basic Black and White Photography
ART History (300 or higher elective) . . . . . 3
ART electives . . . . . 6
**Art Major (minimum) credits . . . . . 36**

**Area of Concentration beyond the Major**

ART 304 – Drawing II . . . . . 3
ART History 300 or above . . . . . 3
Four additional elective art courses (could include all Studio, Graphic Design, Art History, Art Education, Internship Courses as choices) . . . . . 12
**Art Concentration (minimum) credits . . . . . 54**

**Art Area with Graphic Design Emphasis-Recommended Elective Courses**

ART 205 – Graphic Design I
ART 302 – Typography
ART 305 – Graphic Design II
ART 306 – Graphic Design for the Web
ART 309 – Computer Art
ART 320 – Survey of Graphic Design
ART 405 – Graphic Design III
ART 406 – Graphic Design IV
ART 410 – Computer Animation

**General Education courses required by the program for P-12 Teacher Education**

ART 109 – Introduction to the Computer in the Visual Arts . . . . . 3
ART 499C – Visual Art Capstone . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3

**Art Major with Teacher Certification for Grades P-12**

ART 101 – Two-Dimensional Foundation . . . . . 3
ART 102 – Three-Dimensional Foundation . . . . . 3
ART 103 – Color Foundation . . . . . 3
ART 204 – Drawing I . . . . . 3
ART 214 – Painting Techniques I . . . . . 3
*Choose two of three* . . . . . 6
ART 263 – Art History I
ART 264 – Art History II
ART 265 – Art History III
*Choose one of two* . . . . . 3
ART 245 – Ceramics I
ART 294 – Sculpture I
*Choose one of three* . . . . . 3
ART 351 – Intaglio Printmaking
ART 352 – Lithographic Printmaking
ART 373 – Basic Black and White Photography
ART History (300 or higher elective) . . . . . 3
ART 300 – Elementary Materials and Methods . . . . . 3
ART 321 – Materials and Methods for Secondary Art . . 3
**Art Major (minimum) credits . . . . . 36**

**Additional Requirements for an Area of Concentration beyond the Major with Teacher Certification grades P-12**

ART 304 – Drawing II . . . . . 3
ART History 300 or above . . . . . 3
Four additional elective art courses (could include all Studio, Commercial Art, Art History, Art Education, Internship courses as choices) . . . . . 12
**Art Concentration (minimum) credits . . . . . 54**

**Required Courses for Certification from the College of Education**

ART 301 – Field Experience in Art Education . . . . . 3
EDF 207 – Foundations of Education . . . . . 3
EDF 311 – Learning Theories and Assessment in Education . . . . . 3
EDSE 312 – Educational Methods and Technology . . . . 3
EDSP 332 – Teaching the Exceptional Student . . . . . 2
EDSE 416 – Clinical Practice . . . . . 12
EDSE 483 – Classroom Organization and Management for Secondary Teachers . . . . . 3
**Total . . . . . 29**

## Visual Art Minor

ART 101 – Two-Dimensional Foundation . . . . . 3
ART 103 – Color Foundation . . . . . 3
ART 109 – Introduction to Computers in the Visual Arts . . . . . 3
ART 205 – Graphic Design I . . . . . 3
ART 302 – Typography . . . . . 3
*Electives (choose three courses)* . . . . . 9
ART 305 – Graphic Design II
ART 306 – Graphic Design for the Web
ART 309 – Computer Art
ART 320 – Survey of Graphic Design
ART 373 – Basic Black and White Photography
ART 410 – Computer Animation
**Visual Art Minor (minimum) credits . . . . . 24**

## Studio Art Minor

ART 101 – Two-Dimension Foundation . . . . . 3
ART 102 – Three-Dimensional Foundation . . . . . 3
ART 103 – Color Foundation . . . . . 3
*Choose two of three* . . . . . 6
ART 263 – Art History I
ART 264 – Art History II
ART 265 – Art History III
*Choose one of two* . . . . . 3
ART 245 – Ceramics I
ART 294 – Sculpture I
*Choose one of three* . . . . . 3
ART 351 – Intaglio Printmaking
ART 352 – Lithographic Printmaking
ART 373 – Basic Black and White Photography
ART elective . . . . . 3
**Studio Art Minor (minimum) credits . . . . . 24**

## Art History Minor

ART 101 – Two-Dimensional Foundation . . . . . 3
ART 103 – Color Foundation . . . . . 3
ART 263 – Art History I . . . . . 3
ART 264 – Art History II . . . . . 3
ART 265 – Art History III . . . . . 3
ART History 300 or above . . . . . 6
**Art History Minor (minimum) credits . . . . . 21**

# Department of Communication & Theatre

R. Willenbrink, Chair
111 Breckinridge Hall
(606) 783-2134

The Department of Communication & Theatre prepares students for professional, business, and educational careers in advertising-public relations, electronic media, journalism, speech, organizational communication, applied communication, and theatre. Recognition of the literary, artistic, psychological, and rhetorical elements of these studies enhances the student's appreciation of expressive achievements and the impact of the mass media and communications on society.

# Communication

## Faculty

L. Albert, J. Atkins, M. Biel, N. Earl, T. Farwell, R. Frank, D. Greer, J. Hill, J. Kenney, G. LaFleur, C. Lindell, J. McCoy, J. Modaff, D. Plum, K. Sexton, C. Thomas

## Bachelor of Arts in Communication Program Competencies

**Students will demonstrate:**

1. Understanding of communication theories.
2. Understanding and application of various techniques and technology in effective message production and delivery.
3. Knowledge of the characteristics and capabilities of various media to convey effectively ideas and messages.
4. Understanding of the impact of communication and related media on history, society, and culture.
5. The ability to interpret and analyze critically the characteristics and merits of individual communication artifacts.
6. The ability to research, develop, and deliver cogent messages via various media.
7. The ability to apply legal and ethical standards to the communication process.
8. The ability to communicate effectively in written and oral form.

## Assessment Procedures

Capstone Course

The Major in Communication with one of the four options will require a total of 42 semester hours including the Integrative Component but not including any required general education class. The four options are: Advertising and Public Relations, Journalism, Organizational and Interpersonal Communication, and Production.

*All students majoring in Communication will take the following core courses:*

COMM 110 – History of Communications Media
COMM 220 – Introduction to Communication Theory

## Advertising/Public Relations Option

**Required Courses . . . . . 24**
CMJN 201 – News Writing and Reporting . . . . . 3
CMAP 177, 277, 377, 477 – Advertising/Public Relations Practicum . . . . . 3
– At least one hour at three different levels
CMAP 366 – Desktop Publishing II . . . . . 3
CMAP 382 – Principles of PR . . . . . 3
CMAP 383 – Principles of Ad . . . . . 3
CMAP 384 – Ad Copywriting . . . . . 3
CMAP 385 – PR Research and Techniques . . . . . 3
CMAP 499C – Senior Seminar . . . . . 3

**Elective Courses . . . . . 12**
Select 2 courses from the following:
CMEM 390 – Electronic Media Web Layout and Design . . . . . 3
CMJN 492 – Media Law and Ethics . . . . . 3
CMAP 483 – Advertising Design. . . . . 3

Select 1 course from the following:
CMAP 482 – PR Case Studies . . . . . 3
Elective . . . . . 3

Select 1 course from the following:
CMSP 383 – Small Group Comm.. . . . . 3
CMSP 385 – Persuasion . . . . . 3
CMSP 309 – Public Speaking . . . . . 3
CMSP 367 – Organizational Communication . . . . . 3
CMSP 371 – Prof. Comm. Practices and Standards . . . . 3
CMSP 401 – Communication and Leadership. . . . . 3
CMSP 405 – Communication Issue Management . . . . . 3
COMM 320 – Introduction to Research Methods in Communication . . . . . 3
COMM 565 – Public Opinion and News Media . . . . . 3

In addition to the above courses, all Advertising/Public Relations majors must complete an internship (with or without credit) to meet program requirements.

Students must provide evidence of the completion of successful internship prior to receiving full credit in 499C. Completion forms are available in the departmental internship application.

## Organizational and Interpersonal Communication Option

**Required Courses . . . . . 24**
CMSP 230 – Interpersonal Communication . . . . . 3
CMSP 177, 277, 377, 477 – Organizational and Interpersonal Practicum . . . . . 3
– At least one hour at three different levels
CMSP 385 – Persuasion . . . . . 3
CMSP 367 – Intro to Organizational Communication. . . 3
CMSP 371 – Professional Communication Practices and Standards . . . . . 3
CMSP 383 – Small Group Communication. . . . . 3
CMSP 567 – Advanced Organizational Communication . . . . . 3
CMSP 499C – Senior Seminar. . . . . 3

**Elective Courses . . . . . 12**
CMSP 210 – Listening . . . . . 3
CMSP 309 – Public Speaking . . . . . 3
CMSP 350 – Communication, Culture & Diversity . . . . 3
CMSP 382 – Argumentation & Debate . . . . . 3
CMSP 390 – Conflict & Communication . . . . . 3
CMSP 400 – Interviewing . . . . . 3
CMSP 401 – Communication & Leadership . . . . . 3
CMSP 405 – Communication Issue Management . . . . . 3

COMM 510 – Advanced Public Speaking . . . . . 3
COMM 583 – Advanced Small Group Communication . . . . . 3

## Journalism Option

**Required Courses . . . . . 18**
CMJN 201 – News Writing & Reporting I . . . . . 3
CMJN 300 – Newsgathering . . . . . 3
CMJN 492 – Media Law & Ethics . . . . . 3
CMJN 301 – Advanced News Writing & Reporting . . . . 3
CMJN 177, 277, 377, 477 – Journalism Practicum . . . . . 3
– At least one hour at three different levels
CMJN 499C – Journalism Senior Seminar . . . . . 3

**Elective Courses . . . . . 18**
Select 3 courses from the following:
CMJN 358 – Sports Writing . . . . . 3
CMJN 364 – Feature Writing . . . . . 3
CMJN 465 – Editorial Writing . . . . . 3
CMEM 341 – Writing for Electronic Media . . . . . 3
CMEM 420 – Feature & Documentary Writing . . . . . 3
CMEM 444 – Electronic Newsgathering . . . . . 3

Select 1 course from the following:
CMJN 204 – Copyreading & Editing . . . . . 3
CMEM 101 – Elements of Production I . . . . . 3

Select 1 course from the following:
CMAP 306 – News Graphics & Production . . . . . 3
CMAP 366 – Desktop Publishing II . . . . . 3
CMEM 390 – Elec. Med. Web Layout & Design . . . . . 3

Select 1 course from the following:
COMM 565 – Public Opinion & the News Media . . . . . 3
COMM 562 – Media Criticism . . . . . 3

In addition to the above courses, all Journalism majors must complete an internship (with or without credit) to meet program requirements.

Students must provide evidence of the completion of successful internship prior to receiving full credit in 499C. Completion forms are available in the departmental internship application.

## Production Option

**Required Courses . . . . . 24**
CMEM 101 – Elements of Production I . . . . . 3
CMEM 201 – Elements of Production II . . . . . 3
CMEM 341 – Writing for the Electronic Media . . . . . 3
CMEM 390 – Electronic Media Web Layout & Design I . . . . . 3
CMEM 450 – Electronic Media Management . . . . . 3
CMEM 459 – Media Law & Ethics . . . . . 3
CMEM 177, 277, 377, 477 – Electronic Media Practicum . . . . . 3
– At least one hour at three different levels
CMEM 499C – Electronic Media Senior Seminar . . . . . 3

**Elective Courses . . . . . 12**
Select 4 courses from the following:
CMEM: 320, 338, 340, 350, 357, 358 (cross listed with CMJN 358), 379, 399 (up to 9 hours), 420, 440, 444, 451, 550, 560
CMJN: 201, 204, 285, 300, 301, 358, 364
COMM: 339, 347, 439, 447, 476 (up to 6), 562, 582
CMAP: 366, 382, 383
CMSP: 100, 200, 210, 230, 309, 367

In addition to the above courses, all Production majors must complete an internship (with or without credit) to meet program requirements.

Students must provide evidence of the completion of successful internship prior to receiving full credit in 499C. Completion forms are available in the departmental internship application.

All Communication majors must complete a minor in a degree program other than Communication. Students who major in Communication with an option in Advertising/Public relations, Organizational and Interpersonal Communication, Journalism or Production MAY NOT minor in Advertising, Electronic Media Journalism, Electronic Media Production, Organizational/ Interpersonal Communication, Print Journalism, Print Media Production, or Public Relations

## Minors

### Advertising

CMAP 166 – Desktop Publishing and Publications Techniques I . . . . . 3
CMAP 366 – Desktop Publishing and Publication Techniques II . . . . . 3
CMAP 383 – Principles of Advertising . . . . . 3
CMAP 483 – Advertising . . . . . 3
CMEM 390 – Web Layout and Design I . . . . . 3
Elective . . . . . 3
**Total . . . . . 21**

### Electronic Media Journalism

CMEM 101 – Elements of Production I . . . . . 3
CMEM 444 – Electronic News Gathering . . . . . 3
CMJN 201 – News Writing and Reporting I . . . . . 3
CMJN 300 – News Gathering . . . . . 3
CMJN 492 – Law and Ethics of the Press . . . . . 3
Electives . . . . . 6
**Total . . . . . 21**

### Electronic Media Production

CMEM 101 – Elements of Production I . . . . . 3
CMEM 201 – Elements of Production II . . . . . 3
CMEM 340 – Video Production and Direction I . . . . . 3
CMEM 341 – Writing for the Electronic Media . . . . . 3

CMEM 350 – Audio Production and Direction . . . . . 3
CMEM 390 – Web Layout and Design I . . . . . 3
Elective . . . . . 3
**Total . . . . . 21**

## Organizational/Interpersonal Communication

COMM 220 – Introduction to Communication Theory . . . . . 3
CMSP 230 – Interpersonal Communication . . . . . 3
CMSP 367 – Introduction to Organizational Communication . . . . . 3
CMSP 383 – Small Group Communication . . . . . 3
CMSP 385 – Persuasion . . . . . 3
COMM 567 – Organizational Communication . . . . . 3
Electives . . . . . 3
**Total . . . . . 21**

## Print Journalism

CMJN 201 – News Writing and Reporting I . . . . . 3
CMJN 204 – Copyreading and Editing II . . . . . 3
CMJN 285 – Introduction to Photojournalism . . . . . 3
CMJN 300 – News Gathering . . . . . 3
CMJN 301 – Advanced News Writing and Reporting II . . . . . 3
CMJN 364 – Feature Writing, or
CMJN 465 – Editorial Writing . . . . . 3
CMJN 492 – Law and Ethics of the Press . . . . . 3
**Total . . . . . 21**

## Print Media Production

CMAP 166 – Desktop Publishing and Publication Techniques I . . . . . 3
CMAP 366 – Desktop Publishing and Publication Techniques II . . . . . 3
CMEM 390 – Web Layout and Design I . . . . . 3
CMJN 201 – News Writing and Reporting I . . . . . 3
CMJN 204 – Copyreading and Editing II . . . . . 3
CMJN 285 – Introduction to Photojournalism . . . . . 3
Electives . . . . . 3
**Total . . . . . 21**

## Public Relations

CMAP 166 – Desktop Publishing and Publications Techniques I . . . . . 3
CMAP 382 – Principles of Public Relations . . . . . 3
CMAP 385 – Public Relations Techniques . . . . . 3
CMAP 482 – Public Relations Campaigns . . . . . 3
CMSP 367 – Introduction to Organizational Communication . . . . . 3
Electives . . . . . 6
**Total . . . . . 21**

# Theatre

## Faculty

P. Denayer, E. McClain-Bishop, A. Suttlar,
D. Watkins, R. Willenbrink,

## Program Competencies

**Students will demonstrate:**

1. A general familiarity with all aspects of theatre.
2. A proficiency in at least two specific areas of theatre production such as acting, directing, set design and construction, costume design and construction, lighting, properties, makeup, publicity, sound design, and stage movement.
3. Familiarity with significant periods and styles of dramatic literature.
4. Basic knowledge of the chronological history of theatre.

## Assessment Procedures

Capstone Course

## Bachelor of Arts
## Theatre Major

The theatre major will require 45 credit hours in Theatre courses. These courses are as follows:

**Core Courses . . . . . 27**
THEA 100 – Fundamentals of the Theatre . . . . . 3
CMSP 100 – Voice and Articulation . . . . . 3
THEA 177, 277, 377, 477 – Practicum . . . . . 3
– At least one hour at three different levels
THEA 200 – Introduction to Dramatic Literature . . . . . 3
THEA 210 – Technical Production . . . . . 3
THEA 225 – Introduction to Design . . . . . 3
THEA 284 – Acting Techniques . . . . . 3
THEA 380 – Play Directing . . . . . 3
THEA 499C – Senior Seminar in Theatre . . . . . 3
**Required Courses . . . . . 6**
THEA 354 – Theatre History I. . . . . 3
THEA 355 – Theatre History II . . . . . 3

Choose two of the following for a total of six (6) hours:
THEA 321 – Stage Lighting . . . . . 3
THEA 322 – Scene Design . . . . . 3
THEA 326 – Stage Costume Design . . . . . 3

Choose two of the following for a total of six (6) hours
THEA 208 – Beginning Ballet . . . . . 3
THEA 308 – Intermediate Ballet . . . . . 3
THEA 309 – Tap Dancing . . . . . 3
THEA 310 – Stage Movement . . . . . 3
THEA 315 – Stage Makeup . . . . . 3
THEA 316 – Stage Properties . . . . . 3
THEA 317 – Scene Painting . . . . . 3
THEA 321 – Stage Lighting. . . . . 3
THEA 322 – Scene Design . . . . . 3
THEA 325 – Stage Costume History . . . . . 3

THEA 326 – Stage Costume Design . . . . . 3
THEA 327 – Creative Sewing for the Theatre I . . . . . 3
THEA 328 – Creative Sewing for the Theatre II. . . . . 3
THEA 375 – Creative Dramatics . . . . . 3
THEA 408 – Advanced Ballet . . . . . 3
THEA 484 – Styles of Acting . . . . . 3
THEA 512 – Playwriting . . . . . 3
THEA 513 – Advanced Play Direction . . . . . 3
THEA 530 – Summer Theatre III . . . . . 1-4
THEA 552 – Early Dramatic Literature. . . . . 3
THEA 553 – Modern Dramatic Literature. . . . . 3
THEA 555 – Dramatic Criticism . . . . . 3
THEA 562 – Advanced Acting. . . . . 3
THEA 563 – Advanced Costuming . . . . . 3
THEA 564 – Advanced Scene Design . . . . . 3
THEA 565 – Advanced Stage Lighting . . . . . 3
THEA 570 – Children's Theatre . . . . . 3
**Total . . . . . 45**

**Additional Requirements:**
Annual Progress Meeting with the Faculty

## Theatre Minor

The revised theatre minor will require 21 credit hours in Theatre courses. The courses required are as follows:
THEA 100 – Fundamentals of the Theatre . . . . . 3
THEA 284 – Acting Techniques . . . . . 3
THEA 200 – Introduction to Dramatic Literature . . . . . 3
THEA 210 – Technical Production . . . . . 3
THEA 225 – Introduction to Design . . . . . 3
THEA 380 – Play Directing . . . . . 3

Choose one of the following for a total of three (3) credit hours:
THEA 321 – Lighting . . . . . 3
THEA 322 – Scene Design . . . . . 3
THEA 326 – Stage Costume Design . . . . . 3
**Total . . . . . 21**

**Additional Requirements:**
Annual Progress Meeting with the faculty

### Major in Theatre with Teaching Certification

The Theatre Major with a Teaching Certification Option requires a total of 67 hours. Thirty-six of these hours are theatre course requirements, and 31 are courses from the professional Education Core. They are as follows:

**Core Courses. . . . . 27**
THEA 100 – Fundamentals of Theatre. . . . . 3
CMSP 100 – Voice & Articulation. . . . . 3
THEA 177, 277, 377, 477 – Practicum . . . . . 3
– At least one hour at three different levels
THEA 200 – Introduction to Dramatic Literature . . . . . 3
THEA 210 – Technical Production . . . . . 3
THEA 225 – Introduction to Design . . . . . 3
THEA 284 – Acting Techniques. . . . . 3
THEA 380 – Play Directing. . . . . 3
THEA 499C – Senior Seminar in Theatre . . . . . 3

**Required Courses . . . . . 12**
THEA 354 – Theatre History I . . . . . 3
or,
THEA 355 – Theatre History II . . . . . 3
THEA 375 – Creative Dramatics . . . . . 3
THEA 570 – Children's Theatre . . . . . 3
CMSP 495 – Teaching Methods Course . . . . . 3

Choose of any two of the following courses for six (6) credit hours:
THEA 321 – Stage Lighting. . . . . 3
THEA 326 – Costume Design . . . . . 3
THEA 322 – Scene Design . . . . . 3
**Total . . . . . 45**

**Professional Education Core**
EDF 207 – Foundations of Education . . . . . 3
EDF 211 – Human Growth & Development . . . . . 3

Choose one of the following for three (3) credit hours:
EDF 311 – Learning Theories & Assessment in Education . . . . . 3
EDEE 305 – Learning Theories & Practices in Early Elementary . . . . . 3
Choose one of the following for three (3) credit hours:
EDSE 312 – Educational Methods & Technology. . . . . 3
EDEL 302 – Media Strategies . . . . . 3

Choose one of the following for three (3) credit hours:
EDSP 230 – Education of Exceptional Children . . . . . 3
EDSP 322 – Teaching for Exceptional Student . . . . . 2

**Required Courses:**
EDSE 483 – Class Organ & Mgt for Second Teachers . . 3
EDSE 499C – Teacher in Today's Schools . . . . . 2
EDSE 416 – Student Teaching. . . . . 12

## Department of English, Foreign Languages, & Philosophy

Philip Krummrich, Chair
103 Combs Building
(606) 783-2185

## English

### Faculty

A. Adams, K. Carlson, G. Colburn, G. Eklund, M. Graves, F. Helphinstine, S. Henneberg, C. Holbrook, T. Irons, P. Krummrich, K. Mincey, R. Morrison, S. Morrison, L. Neeper, N. Peterson, R. Royar, C. Wilkinson

### Program Competencies

**Students will develop:**

1. Knowledge of major periods in American and British literature as well as major works and authors in those literary periods.
2. Knowledge of the various genres (e.g., short story, drama, novel, poem, essay) and their historical development.
3. Ability to write and think critically, leading to a proficiency in various linguistic, rhetorical, and critical discourses.
4. Ability to locate and select electronic and print materials appropriate to scholarship in English studies.
5. Knowledge of various linguistic, rhetorical, and/or critical approaches to literary texts.
6. Knowledge of culturally diverse literature.
7. Knowledge of the history and structure of English.

Additional Competency for Teaching Majors/Areas:
Knowledge of contemporary pedagogy in English studies.

### Assessment Procedures

Exit examinations
Survey of graduates

*Additional Assessments for Teaching Area of Concentration:*
Praxis II
Student teaching semester, including teaching portfolio
Survey of graduates

### Bachelor of Arts

The English curriculum has a two-fold purpose. It seeks to make a contribution to the general education of all students by providing them with the study of writing so they can use their language as effectively and precisely as possible and by introducing them to the sympathetic understanding of literature so their personal lives will be enriched by literary art. The English degree prepares students for such vocations as teaching, publishing, business, and public relations as well as for further professional studies.

Students seeking secondary certification should elect the area of concentration.

**Area of Concentration in English with Secondary (8-12) Certification**

**General Education**
ENG 211 or 212 . . . . . 3
ENG 499C – Senior Seminar in English . . . . . 3

ENG 300 – Introduction to Literary Studies in English . 3

**Literature Surveys**
ENG 331 – British Literature to 1750 . . . . . 3
ENG 332 – British Literature since 1750 . . . . . 3
ENG 341 – American Literature to 1865 . . . . . 3
ENG 342 – American Literature since 1865 . . . . . 3

**Linguistics . . . . . 6**
*Select one course from the following:*
ENG 305 – Introduction to Linguistics
ENG 315 – Structure of English
ENG 505 – Linguistics: Grammar
*Select one course from the following:*
ENG 393 – History of English Language
ENG 394 – Language and Society
ENG 405 – Introduction to Old English
ENG 501 – General Semantics

**Writing . . . . . 6**
*Select one course from the following:*
ENG 390 – Professional Writing
ENG 391 – Advanced Expository Writing
CMJN 301 – Advanced News Writing and Reporting II
CMJN 465 – Editorial Writing
CMJN 560 – Reviews and Criticism
*Select one course from the following:*
ENG 395 – Poetry Writing, or
ENG 583 – Advanced Poetry Writing
ENG 396 – Fiction Writing, or
ENG 584 – Advanced Fiction Writing

ENG 397 – Writing Creative Non-Fiction
CMJN 358 – Sports Writing
CMJN 364 – Feature Writing

**English Language Arts Pedagogy . . . . . 12**
ENG 280 – Intro to Teaching Secondary Language Arts
ENG 381 – Teaching Literature in Secondary Schools
ENG 382 – Teaching Writing in Secondary School (3 hrs.)
ENG 500 – Studies in English for Teachers (3 hrs.)

**Electives . . . . . 12**
*Select one cultural diversity course from the following:*
ENG 311 – Global English Literature
ENG 320 – Women Writers and Feminist Perspectives
ENG 325 – Religious Literatures of the World
ENG 348 – African-American Literature
ENG 360 – Appalachian Literature

ENG 365 – Literature of the South
ENG 398 – Lesbian and Gay Literature
*Select one literary period course from the following:*
ENG 422 – Studies in American Literature to 1900
ENG 423 – Studies in American Literature, 1900-1965
ENG 424 – Studies in Contemporary American Literature
ENG 436 – The English Renaissance
ENG 441 – Restoration and Eighteenth Century British Lit.
ENG 442 – Romantic Writers
ENG 443 – Victorian Writers
ENG 444 – Twentieth Century British Literature
ENG 545 – Seventeenth Century British Literature
ENG 561 – Studies in American Literary Periods
*Select one major author course from the following:*
ENG 435 – Shakespeare
ENG 495 – Seminar: Major Writers
ENG 534 – Chaucer
ENG 539 – Milton
*Select one genre course from the following:*
ENG 344 – The Short Story and the Novel
ENG 435 – Shakespeare
ENG 466 – American Poetry
ENG 533 – The English Novel
ENG 552 – Early Dramatic Literature
ENG 553 – Modern Drama
ENG 563 – American Fiction
ENG 570 – Introduction to Film Literature

**Supplementary Requirements**
Foreign Language . . . . . 3
Three semester hours in one foreign, e.g., French, Spanish, German, Italian, Latin, Russian above the first semester level, or ENG 405, Introduction Old English

*Professional Education Courses* . . . . . 17
EDF 207 – Foundations of Education . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
EDF 311 – Learning Theories & Assessment in Ed . . . . 3
EDSE 312 – Educational Methods and Technology . . . . 3
EDSE 483 – Classroom Organ. & Mgt for Sec. Teachers 3
EDSP 332 – Teaching the Exceptional Student . . . . . 2

*Professional Semester*
EDSE 416 – Clinical Practice . . . . . 12
**Total . . . . . 83**

## Major

**General Education requirements . . . . . 48**
*See the general education requirements for the University.*
*The following specific general education requirements must be completed:*
ENG 499C – Senior Seminar in English . . . . . 3

**Semester Hours**
**1. Literature Cornerstone . . . . . 3**
ENG 300 – Introduction to Literary Studies in English . 3

**2. Literature Surveys . . . . . 12**
ENG 331 – British Literature to 1750 . . . . . 3
ENG 332 – British Literature since 1750 . . . . . 3
ENG 341 – American Literature to 1865. . . . . 3
ENG 342 – American Literature since 1865 . . . . . 3

**3. Linguistics . . . . . 3**
**a. Elect one . . . . . 3**
ENG 305 – Introduction to Linguistics
ENG 315 – Structure of English
ENG 393 – History of the English Language
ENG 394 – Language and Society
ENG 405 – Introduction to Old English
ENG 501 – Semantics
ENG 505 – Linguistics: Grammar

**4. Writing . . . . . 6**
**a. Academic and Professional Writing (elect one) . . . 3**
ENG 390 – Professional Writing
ENG 391 – Advanced Expository Writing
ENG 591 – Technical Writing I
**b. Creative Writing (elect one). . . . . 3**
ENG 395 – Poetry Writing
ENG 396 – Fiction Writing
ENG 397 – Creative Non-Fiction
ENG 583 – Advanced Poetry Writing
ENG 584 – Advanced Fiction Writing

**5. Literature Electives . . . . . 12**
**a. Cultural Diversity (elect one). . . . . 3**
ENG 311 – Global English Literature
ENG 320 – Women Writers and Feminist Perspectives
ENG 325 – Religious Literature of the World
ENG 348 – African-American Literature
ENG 360 – Appalachian Literature
ENG 365 – Literature of the South
ENG 398 – Lesbian and Gay Literature
**b. Literary Period (elect one) . . . . . 3**
ENG 422 – Studies in American Literature to 1900
ENG 423 – Studies in American Literature, 1900-1965
ENG 424 – Studies in Contemporary American Literature
ENG 436 – English Renaissance
ENG 441 – Restoration and 18th -Century Literature
ENG 442 – Romantic Writers
ENG 443 – Victorian Writers
ENG 444 – 20th -Century British Literature
ENG 545 – 17th -Century British Literature
ENG 561 – Studies in American Literary Periods
**c. Major Author (elect one) . . . . . 3**
ENG 435 – Shakespeare

ENG 495 – Seminar: Major Writers
ENG 534 – Chaucer
ENG 539 – Milton

**d. Genre (elect one) . . . . . 3**
ENG 344 – Short Story and the Novel
ENG 435 – Shakespeare
ENG 466 – American Poetry
ENG 533 – English Novel
ENG 552 – Early Dramatic Literature
ENG 553 – Modern Drama
ENG 563 – American Fiction
ENG 570 – Introduction to Film Literature

**6. English Elective (elect one) . . . . . 3**
Select any 300-level or higher English course

**7. Supplementary Requirements. . . . . 3**
**a. Foreign Language . . . . . 3**
Three semester hours in a foreign language, e.g., French, Spanish, German, Italian, Latin, Russian above the first-semester level, or ENG 405, Introduction to Old English

**Total . . . . . 42**

## Minor in English

The minor in English does not include the general education requirements in composition (six semester hours).

**American Literature Surveys (select one) . . . . . 3**
ENG 341 – American Literature to 1865
ENG 342 – American Literature since 1865
**British Literature Surveys . . . . . 6**
ENG 331 – British Literature to 1750
ENG 332 – British Literature since 1750
**English Language (select one) . . . . . 3**
ENG 305 – Introduction to Linguistics
ENG 315 – Structure of English
ENG 393 – History of the English Language
ENG 394 – Language and Society
ENG 405 – Introduction to Old English
ENG 501 – General Semantics
ENG 505 – Linguistics: Grammar

**Writing**
**(Choose one from 300-500 level courses) . . . . . 3**
English electives (200-500 level courses), six hours of which must be 300-500 level courses . . . . . 9
**Total . . . . . 24**

## Minor in Linguistics

The purpose of the minor in linguistics is (1) to contribute to students' liberal education by allowing them to investigate the nature, acquisition, and function of human language, especially its history, structure, and role in society; and (2) to prepare them for careers in which language is of central importance, including careers in education, law, communications, foreign language, translation, journalism, technical writing, psychology, anthropology, and speech pathology.

**Linguistics Courses . . . . . 15**
*Select five of the following:*
ENG 205 – Language: Culture and Mind
ENG 305 – Introduction to Linguistics
ENG 315 – Structure of English
ENG 393 – History of the English Language
ENG 394 – Language and Society
ENG 405 – Introduction to Old English
ENG 501 – General Semantics
ENG 505 – Linguistics: Grammar

**Electives . . . . . 6**
*Select any two courses from one or more of the following categories:*
*English*
Any 300-500 level course in ENG
*Foreign Language*
Any 300-500 level course in FRN, GER, ITL, LAT, SPA
*Formal Systems*
CIS 205 – Introduction to Programming–C++
CS/MATH 170 – Introduction to Computer Science
MATH 252 – Boolean Algebra
MATH 260 – FORTRAN Programming
MATH 300 – Introduction to Mathematical Proof
PHIL 306 – Introduction to Logic
PHIL 312 – Symbolic Logic
**Total Hour . . . . . 21**
*The minor in linguistics does not include the general education requirement in composition (six semester hours).*

## Minor in Creative Writing

The minor in creative writing is designed for students who wish to develop their writing skills in a variety of genres.

**Select from the following . . . . . 12**
ENG 391 – Advanced Expository Writing
ENG 395 – Poetry Writing
ENG 396 – Fiction Writing
ENG 397 – Writing Creative Nonfiction
ENG 583 – Advanced Poetry Writing
ENG 584 – Advanced Fiction Writing
THEA 512 – Playwriting

**Literature electives (300-500 level courses) . . . . . 3**
**Additional electives from 300-500 level courses in literature, linguistics, or foreign languages . . . . . 6**
**Total . . . . . 21**
*The minor in creative writing does not include the general education requirements in composition (six semester hours). ENG 293 is required for the minor.*

## Minor in Technical & Professional Writing

The purpose of the minor in Technical and Professional Writing is to prepare students for any career in which effective writing is important and to prepare students to become professional, technical, scientific, or business writers and editors. The Technical & Professional Writing minor is a useful adjunct to a variety of majors, ranging from engineering to marketing.

**Writing Courses**

ENG 390 – Professional Writing . . . . . 3
ENG 391 – Advanced Expository Writing . . . . . 3
ENG 439 – Senior Cooperative Education . . . . . 3
ENG 497 – Technical Editing . . . . . 3

**Technology Course**

CMAP 366 – Desktop Publishing and Publication Techniques II . . . . . 3

**Electives . . . . . 9**

*Select three courses from one of the specific tracks listed below (ART; CIS/BIS; or ITCD); or build a program of any three 200-level or higher across the tracks.*

*ART Track*

ART 109 – Introduction to the Computer in the Visual Arts
ART 205 – Graphic Design I
ART 305 – Graphic Design II
ART 309 – Computer Art
ART 405 – Graphic Design III
ART 406 – Graphic Design IV
ART 410 – Computer Animation

*CIS/BIS Track*

BIS 320 – Web Technologies and Information Architecture
CIS 101 – Computers for Learning
CIS 200 – Logic and Design of Computer Programs
CIS 202 – Introduction to Programming–Visual Basic
CIS 205 – Introduction to Programming–C++
CIS 214 – Introduction to Programming–Java

*Graphics Track*

ITCD 103 – Computer Aided Design and Drafting I
ITCD 203 – Computer Aided Design and Drafting II
ITCG 303 – Computer Imaging and Illustration
ITCD 315 – 3D Design, Modeling and Animation

**English elective for 200-level or higher option**

ENG 315 – Structure of English

**Total . . . . . 24**

*The minor in technical communication does not include the general education requirements in composition (six semester hours).*

## Minor in Literature

**American or British Literature . . . . . 3**

*Select one of the following:*

ENG 331 – British Literature to 1750
ENG 332 – British Literature since 1750
ENG 341 – American Literature to 1865
ENG 342 – American Literature since 1865
ENG 435 – Shakespeare . . . . . 3

**Literature and literary criticism . . . . . 9**

*(electives to be selected from 300-500 level courses)*

**Philosophy . . . . . 3**

*Select one of the following:*

PHIL 200 – Introduction to Philosophy
PHIL 308 – Philosophy of the Arts
PHIL 313 – American Philosophy
PHIL 389 – Honors Seminar in Philosophy
PHIL 355 – Ancient and Medieval Philosophy
PHIL 356 – Modern and Contemporary Philosophy
PHIL 410 – Current Philosophy

**History . . . . . 3**

*Select one of the following courses:*

HIS 202 – American Studies
HIS 220 – Early American History
HIS 313 – Religion in American History
HIS 325 – History of the South
HIS 357 – The Renaissance and Reformation
HIS 351 – England to 1688
HIS 352 – England since 1688

**Total . . . . . 21**

*The minor in literature does not include the general education requirements in composition (six hours).*

# French

### Faculty

E. Hastings, J. Secor, K. Taylor

## Program Competencies

**Students completing the French Major will be expected to have the following competencies:**

1. Proficiency in the four language skills: listening, speaking, reading, and writing.
2. Familiarity with the culture and civilization of France and other Francophone countries.
3. Familiarity with the most significant works of French literature.

**Additional competencies for Teacher Education Students:**

Students who are in addition seeking certification for teaching are expected to possess those competencies determined by the TEP.

## Assessment Procedures

Listening and reading exams will be given at the intermediate level. An exit exam testing the four skills will be administered at the advanced level.

The French curriculum at MSU teaches the language, literature, cinema, and civilization of France in depth, and introduces the culture of the Francophone world. Through the study of French, students will develop an awareness of areas of thought and action different from their own.

A French major or minor can lead to employment opportunities in teaching, business, translating, and interpreting, as well as post-graduate study in law, diplomacy, and the humanities.

First-hand knowledge of the target culture is vital to high achievement in the French major. Through its membership in the Kentucky Institute for International Studies, MSU provides students access to a five-week study abroad program in Paris, France. Credits earned in KIIS automatically transfer to the Morehead State degree.

*Note: French 202 or the equivalent is prerequisite to all courses numbered 300 or above.*

## Bachelor of Arts
## Major

General Education Requirements . . . . . 48
(See the general education requirements for the university)
FRN 101 – Beginning French I . . . . . 3
FRN 102 – Beginning French II . . . . . 3
FRN 201 – Intermediate French . . . . . 3
FRN 202 – Conversation and Composition . . . . . 3
FRN 301 – Advanced Grammar and Composition . . . . . 3
FRN 302 – Advanced Phonetics and Conversation . . . . 3
FRN 303 – Survey of French Literature I . . . . . 3
FRN 304 – Survey of French Literature II . . . . . 3
Electives above FRN 202 . . . . . 6
**Total . . . . . 30**

## Teaching (P-12)

Teaching majors must choose FRN/SPA 505 – Linguistics and Language Teaching (3-6 hours) in addition to the 30 hours of work specified above (36 hours total).

All majors must take the capstone course, FRN 499C, Senior Colloquium in French, in addition to the 30 or 36 hours specified above.

**Requirements for P-12 Certification**

**Professional Education Courses**

EDF 207 – Foundations of Education . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
EDF 311 – Learning Theories and Assessment . . . . . 3
EDSE 312 – Educational Methods and Technology . . . . 3
EDSE 483 – Classroom Organ & Mgt for Sec Teachers . 3
EDSP 332 – Teachingthe Exceptional Student . . . . . 2

**Professional Semester**

EDSE 416 – Clinical Practice . . . . . 12

Students admitted to the teacher education program will be required to demonstrate computer expertise prior to graduation. They may demonstrate computer expertise by completing at least one of the following:

1. CIS 101 – Computers for learning OR
   EDUC 222 – Computing Tools for Educators
2. CLEP education (available in the University testing center)
3. A computer workshop taken for college credit

## Minor

FRN 101 – Beginning French I . . . . . 3
FRN 102 – Beginning French II . . . . . 3
FRN 201 – Intermediate French . . . . . 3
FRN 202 – Conversation and Composition . . . . . 3
FRN 301 – Advanced Grammar and Composition . . . . . 3
*Electives above FRN 202 . . . . . 6
**Total . . . . . 21**

*Students with prior study of French should take the online placement test before enrolling for classes. Those who begin in a more advanced class will have the opportunity to earn credit by examination for the classes they do not need to take. Please consult the department for details.

# Spanish
## Faculty

V. Cano, E. Hastings, P. Krummrich, J. Secor

## Program Competencies

**Students will demonstrate:**

1. Proficiency in the four skills (listening, reading, speaking, and writing).
2. A firm command of Spanish grammatical structures.
3. Familiarity with significant aspects of the culture and civilization of the Hispanic world.
4. Familiarity with the most important works and trends of Spanish and Spanish American literature and, especially, an ability to analyze Hispanic literary passages.

**Additional Competencies for Teacher Education students:**

Students seeking certification in Spanish are expected to possess those competencies determined by the TEP.

## Assessment Procedures

Exit proficiency exams

The Spanish curriculum at MSU teaches the language and the literature of the Hispanic world, whereby students will perceive areas of thought and action different from their own. More specifically, it surveys Hispanic civilization through its history, geography, and fine arts, as well as political and social institutions. For students interested in international business, the curriculum offers the opportunity to acquire proficiency in Spanish for business and commerce.

Students may receive full credit at MSU for courses taken in summer, semester, and year study abroad programs, including those administered by the Kentucky Institute of International Studies (KIIS). Summer study opportunities are offered in Costa Rica, Ecuador, Mexico and Spain. Two semester programs are

also available: one for the fall semester in Morelia, Mexico, and one for the spring semester in Segovia, Spain. Participation is strongly encouraged.

The Spanish program prepares students to enter areas of teaching, interpretation, and translation. Further, the study of Spanish aids students seeking employment in areas where knowledge of a second language is beneficial – business and commerce, tourism, social services, and the like.

*Note: SPA 300 – Grammar and Composition, is a prerequisite for all other 300-and-above numbered courses except SPA 305 – Conversation.*

### Bachelor of Arts

**General Education Requirements . . . . . 48**
*See general education requirements for the University.*

### Major

**Basic Language . . . . . 15**
SPA 101 – Spanish Language and Culture I
SPA 102 – Spanish Language and Culture II
SPA 201 – Intermediate Spanish I
SPA 202 – Intermediate Spanish II
SPA 208 – Spanish Phonetics and Pronunciation

**Advanced Language . . . . . 15**
SPA 300 – Grammar and Composition

**6 hours of Hispanic Literature Electives . . . . . 6**
**Approved 300-500 level electives . . . . . 6**
**Total . . . . . 30**

### Teaching (P-12)

Teaching majors must choose FRN/SPA 505 – Linguistics and Language Teaching (3-6 credit hours) in addition to the 30 semester hours of work specified above (36 hours total). Teaching and non-teaching majors are required to complete SPA 499C-Senior Seminar in Spanish (two credit hours). Teaching majors are also encouraged to participate in the newly developed KIIS summer program in "Spain: A practicum for Teachers" (Segovia/Madrid, Spain).

In addition to the 30 or 36 hours listed above, the teaching and non-teaching majors must complete SPA 499C – Senior Seminar in Spanish (three semester hours) and take the Departmental Spanish Exit Exam. SPA 306 – Latin American Culture and Civilization and/or SPA 304 – Spanish Culture and Civilization are recommended for students who will take the PRAXIS II Exam. All students are encouraged to participate in study abroad programs, especially those sponsored by the Kentucky Institute for International Studies. Please note that the number of hours indicated for the major is a minimum requirement. Students may need to take additional course work to achieve the proper level of competency in the language.

### Minor in Spanish

**Basic Language . . . . . 15**
SPA 101 – Spanish Language and Culture I
SPA 102 – Spanish Language and Culture II
SPA 201 – Intermediate Spanish I
SPA 202 – Intermediate Spanish II
SPA 208 – Spanish Phonetics and Pronunciation

**Advanced Language . . . . . 3**
SPA 300 – Grammar and Composition

**Approved 300-500 level electives . . . . . 3**
**Total . . . . . 21**

Students enrolling at Morehead State University must take a Placement Examination in Spanish if they have studied the language previously and intend to continue their Spanish studies at MSU. The Placement Test is available at any time on the WWW and takes no more than thirty minutes to complete; the score is sent automatically to the student and to the department. We will recommend placement on the basis of the score. ***Those who begin in a more advanced class will have the opportunity to earn credit by examination for the classes they do not need to take. Please consult the department for details.** For questions, please call the department chair, Dr. Philip Krummrich: (606) 783-2726, p.krummrich@moreheadstate.edu. It is strongly recommended that Spanish be started in the freshman year and that the courses be taken without interruption.

## Chinese, German, Italian, Latin

### Faculty

J. Secor

No academic programs in these languages are available. Please refer to the course description section for course offerings.

## Philosophy
## Religious Studies

### Faculty

K. Bardsley, S. Davison, W. O'Brien, J. Weir

### Program Competencies

1. An understanding of the significance of basic assumptions and presuppositions and skill at identifying and evaluating them.
2. An understanding of the major ideas of prominent philosophers – Eastern and Western, past and present – in the areas of epistemology, metaphysics, ethics, and aesthetics.
3. The ability and disposition to think critically and to understand, evaluate, and construct arguments in the context of cultural diversity.
4. An understanding and appreciation of diverse values and perspectives on life and the competence to begin to construct one's own life philosophy.

### Bachelor of Arts - Major
### Options: Philosophy, Religious Studies
### Area of Concentration: Philosophy

*Philosophy Option (30 hours)*
PHIL 200 – Introduction to Philosophy . . . . . 3
PHIL 306 – Introduction to Logic . . . . . 3
PHIL 355 – Ancient and Medieval Philosophy . . . . . 3
PHIL 356 – Modern and Contemporary Philosophy . . . 3
PHIL 499C – Senior Seminar in Philosophy . . . . . 3
Additional credit chosen from group A below. . . . . 15
**Total . . . . . 30**

*Religious Studies Option (33 hours)*
REL 221 – World Religions I . . . . . 3
REL 222 – World Religions II . . . . . 3
PHIL 307 – Philosophy of Religion . . . . . 3
PHIL 306 – Logic. . . . . 3
PHIL 499C – Senior Seminar . . . . . 3
Additional credits chosen from group B below . . . . . 18
**Total . . . . . 33**

*Area of Concentration: Philosophy (48 hours)*
Core Requirements (18 hours):
PHIL 200 – Introduction to Philosophy. . . . . 3
PHIL 203 – Social Ethics. . . . . 3
PHIL 306 – Introduction to Logic . . . . . 3
PHIL 355 – Ancient and Medieval Philosophy . . . . . 3
PHIL 356 – Modern and Contemporary Philosophy . . . . 3
PHIL 499C – Senior Seminar. . . . . 3
Core Requirements total hours. . . . . 18

Area Requirements: choose one of each pair (15 hours)
PHIL 307 – Philosophy of Religion or
PHIL 300 – Philosophy of Science . . . . . 3

PHIL 320 – Eastern Philosophy or
PHIL 321 – The Meaning of Life . . . . . 3

PHIL 333 – Environmental Ethics or
PHIL 403 – Ethical Theory . . . . . 3

PHIL 420 – Metaphysics or
PHIL 430 – Epistemology . . . . . 3

PHIL 308 – Phil of the Arts or
PHIL 312 – Symbolic Logic . . . . . 3
Area Requirements total hours. . . . . 15
Additional credits chosen from group A below . . . . . 15
Total Credits for Area of Concentration in Philosophy . 48

## Minor
## Options: Philosophy, Religious Studies

*Philosophy Option (21 hours)*
PHIL 200 – Introduction to Philosophy. . . . . 3
PHIL 306 – Introduction to Logic . . . . . 3
PHIL 355 – Ancient and Medieval Philosophy . . . . . 3
PHIL 356 – Modern and Contemporary Philosophy . . . . 3
Additional credits chosen from group A below . . . . . 9
Total hours . . . . . 21

*Religious Studies Option (24 hours)*
REL 221 – World Religions I . . . . . 3
REL 222 – World Religions II . . . . . 3
PHIL 307 – Philosophy of Religion . . . . . 3
PHIL 306 – Introduction to Logic . . . . . 3
Additional credits chosen from group B below. . . . . 12
Total hours . . . . . 24

*Group A: Additional Philosophy Option Courses*

PHIL 203, Social Ethics
PHIL 300, Philosophy of Science
PHIL 307, Philosophy of Religion
PHIL 308, Philosophy of the Arts
PHIL 312, Symbolic Logic
PHIL 313, American Philosophy
PHIL 320, Eastern Philosophy
PHIL 321, The Meaning of Life
PHIL 333, Environmental Ethics
PHIL 341, Philosophy and Death
PHIL 351, Philosophy of Love and Sex
PHIL 389, Honors Seminar in Philosophy
PHIL 399, Special Courses
PHIL 403, Ethical Theory
PHIL 410, Current Philosophy
PHIL 420, Metaphysics
PHIL 430, Epistemology
PHIL 476, Special Problems*

*Group B: Additional Religious Studies Option Courses*

ART 263: Art History I
ART 264: Art History II
ART 362: Medieval Art
ART 363: Renaissance Art
ART 467: Native American Art
ENG 325: Religious Literature of the World
ENG 367: Old Testament Literature
ENG 368: New Testament Literature.
GEO 370: Geography of World Religions
HIS 210, Early World Civilizations
HIS 313: Religion in American History
HIS 356: Medieval Europe
HIS 357: The Renaissance and Reformation
HIS 374: The Middle East
HON 102, The Age of Faith
HON 201, The Age of Enlightenment
HUM 203, Introduction to Medieval Culture
PHIL 300, Philosophy of Science
PHIL 321, The Meaning of Life
PHIL 341, Philosophy and Death
PHIL 355, Ancient and Medieval Philosophy

PHIL 356, Modern and Contemporary Philosophy
PHIL 399, Special Courses
PHIL 476, Special Problems*
PHIL 499C, Senior Seminar in Philosophy
REL 321, Early and Medieval Christian Thought
REL 322, Modern Christian Thought
REL 323, Twentieth-Century Christian Thought
REL 476, Special Problems*

* Additional hours earned under PHIL 476 may satisfy other degree requirements, but no more than 3 hours of PHIL 476 can count toward the fulfillment of the requirements for a major or a minor.

## Department of Geography, Government, & History

Yvonne Baldwin, Chair
350 Rader Hall
(606) 783-2655

## Geography

### Faculty

R. Berglee, Z. Bortolot (IRAPP),
V. Craig, J. Holcomb, G. O'Dell, C. McMichael (IRAPP),
S. Parkansky (IRAPP)

The Department of Geography, Government, & History offers a well-balanced undergraduate program in geography, which includes a 33-hour major and a 21-hour minor.

Appropriate educational experiences and training are provided to prepare persons for entry into careers in public and private sector business and industry, government service, planning, and resource management.

Geography – by its very nature – has a global perspective, and most of the courses offered by the department contribute to students' understanding of the diversity of human cultures on the planet.

### Program Competencies

**Students are expected to have:**

1. The technical ability to store, manage, manipulate, and display geographic data in order to answer research questions and solve problems.
2. The ability to perform synthetic regional analyses with a focus on economic development including consideration of factors that contribute to growth and its impact on the physical environment.
3. The ability to perform real world location analyses, which are based on traditional geographic theories and concepts.
4. The ability to recognize and value the varied nature of the human condition across individuals and culture groups through the practice of world regional analysis.
5. The ability to express methods of geographic investigation, to conduct original studies, and to present findings of those investigations in written and oral format.

### Assessment Procedures

Senior capstone course

### Bachelor of Arts

**General Education Requirements . . . . . 48**
*See general education requirements for the University.*

### Major

GEO 100 – Fundamentals of Geography . . . . . 3
GEO 101 – Physical Geography . . . . . 3
GEO 201 – Map Interpretation and Analysis . . . . . 3
GEO 202 – Computer Tech in Reg Analysis . . . . . 3
GEO 241 – United States and Canada . . . . . 3

Three technical hours from the following:
GEO 349 – Introduction to GIS/Cartography I . . . . . 3
GEO 351 – Geographic Information Systems . . . . . 3
GEO 355 – Remote Sensing . . . . . 3
GEO 499C – Senior Seminar in Geography . . . . . 3
Other GEO electives . . . . . 12
**Minimum for a major . . . . . 33**

### Minor

GEO 100 – Fundamentals of Geography . . . . . 3
GEO 101 – Physical Geography . . . . . 3
GEO 201 – Map Interpretation and Analysis . . . . . 3
GEO 241 – United States and Canada . . . . . 3
Other GEO electives . . . . . 9
**Minimum for a minor . . . . . 21**

### Certificate in Geographic Information Science

The Certificate in Geographic Information Science is an interdisciplinary opportunity designed to provide students and professionals with the theoretical, practical and technical skills that are essential for the analysis of map products and the manipulation of spatial data. Students from a wide range of disciplines can benefit from this certificate program by becoming proficient in the use and application of geographic technologies through an appropriate set of courses. This certification program is open to all MSU students. Students in any discipline can complete this certificate program to better advance their educational standing for employement or graduate education.

To receive the 15 credit hour Certificate in Geographic Information Science an individual must successfully complete each of the listed required courses with a grade of C or better.

GEO 201 – Map Interpretation and Analysis. . . . . 3
GEO 349 – Introduction to GIS/Cartography . . . . . 3
GEO 351 – Geographic Information Systems . . . . . 3
GEO 353 – GIS Applications . . . . . 3
GEO 355 – Remote Sensing of the Environment . . . . . 3

Upon completion of the required courses, the Certificate in Geographic Information Science will be issued to the individual by the Department of Geography, Government and History.

## Geography-Regional Analysis Program

The Institute for Regional Analysis & Public Policy, MSU's Program of Distinction, offers a core of courses (18 hours) in regional analysis that can be combined with the following program.

### Program Competencies

**Students are expected to have:**

1. The technical ability to store, manage, manipulate, and display geographic data in order to answer research questions and solve problems.
2. The ability to perform synthetic regional analyses with a focus on economic development, including consideration of factors contributing to growth and its impact on the physical environment.
3. The ability to perform real world location analyses, which are based on traditional geographic theories and concepts.
4. The ability to recognize and value the varied nature of the human condition across individuals and culture groups through the practice of world regional analysis.
5. The ability to express methods of geographic investigation, to conduct original studies, and to present findings of those investigations in written and oral format.
6. The ability to carry out studies in their area of expertise that include a significant analysis of regional resources and issues.
7. The ability to present research and policy reports that are comprehensible to audiences of various public policymakers.
8. The ability to interpret the output of regional resource analysis and their potential use in formulating public policy.

### Assessment Procedures

Capstone course

### Bachelor of Arts

**General Education Requirements . . . . . 48**
*See general education requirements for the University.*

**Major**

GEO 100 – Fundamentals of Geography . . . . . 3
GEO 101 – Physical Geography . . . . . 3
GEO 201 – Map Interpretation and Analysis . . . . . 3
GEO 211 – Economic Geography . . . . . 3
GEO 349 – Introduction to GIS/Cartography I . . . . . 3
GEO 499C – Senior Seminar in Geography . . . . . 3
Other GEO electives . . . . . 12
**Total . . . . . 30**

**Regional Analysis Courses**

RAPP 201 – Society, Nature, & Development . . . . . 3
RAPP 202 – Basic Computer Tech in Regional Analysis 3
RAPP 300 – Seminar in Regional Issues I . . . . . 3
RAPP 350 – Practicing Regional Analysis I . . . . . 3
RAPP 450 – Practicing Regional Analysis II . . . . . 3
RAPP 490 – Seminar in Regional Issues II . . . . . 3
**Total . . . . . 18**

**Supplemental Requirements**

ECON 401 – Environmental Economics, or
GEO 349 – Introduction to GIS/Cartography I . . . . . 3
GOVT 324 – Environmental Law and Policy . . . . . 3
*Electives in systematic geography must be selected with the approval of the student's faculty advisor.*
GEO 100 – Fundamentals of Geography . . . . . 3
GEO 101 – Physical Geography . . . . . 3
GEO 201 – Map Interpretation and Analysis . . . . . 3
GEO 499C – Senior Seminar in Geography . . . . . 3
*One course from two of the following areas:*
Human Geography (311, 315, 366, 370)
Physical Geography (360, 390, 505)
Techniques (349, 351) . . . . . 6
Other GEO electives . . . . . 6
**Minimum for a minor . . . . . 24**

## Government

### Faculty

L. Back, R. S. Brooks (IRAPP), R. Caric, C. Diaz, G. Goldey, W. Green, M. Hail (IRAPP), S. Jones, S. Lange (IRAPP), N. Lee, R. Swain

### Program Competencies

**Students are expected to possess:**

1. The ability to exhibit knowledge of political conditions within the United States including the working of formal and informal institutions and the role of conflict, special interest, power, and inequities in the policy making process.
2. An understanding of the political systems in other countries, the relations between countries, and the functioning of international institutions. This is the basis for comparative study and evaluation of the United States political system.
3. The ability to analyze the impact of government policies on social and economic conditions in the United States and other countries.
4. The ability to recognize and value the varied nature of the human condition across individuals and culture groups through the practice of political analysis.
5. The ability to use methods of political investigation, to conduct original studies, and to present findings from those investigations in written and oral formats.
6. The ability to access and use electronic data-bases, information sites, and various online resources.

### Assessment Procedures

Capstone course
Major Field Achievement Test

Preliminary assessment administered in
GOVT 289 – Methods in Political Inquiry

## Bachelor of Arts

The government major and minor provide students with the opportunity to study political ideas, institutions, and policies. The government faculty offer courses in political thought, American national, state and local government and public law, public administration, comparative government, and international relations. National government internships and seminars are available through the Washington Center. Students who study government usually pursue careers in law, teaching, or government service.

**General Education Requirements . . . . . 48**
*See general education requirements for the University.*

## Major

**Required Introductory Courses**
GOVT 141 – United States Government . . . . . 3
GOVT 180 – Introduction to Political Theory . . . . . 3
GOVT 230 – Introduction to Comparative Politics . . . . 3
GOVT 289 – Methods of Political Inquiry . . . . . 3

**Required Advanced Subfield Courses . . . . . 12**
*Choose one course in each of the four subfields:*
1. American Politics (GOVT 305; 320-328; 340-349; 351-359)
2. Political Theory (GOVT 310-319)
3. Comparative Politics (GOVT 301-304, 329-339)
4. International Politics (GOVT 360-369)

**Required Advanced Courses**
GOVT 499C – Senior Seminar . . . . . 3
GOVT electives (Any 300 or 400 level GOVT course) . . . . . 6
**Total . . . . . 33**

*Government majors must write a senior paper in GOVT 499C. Three members of the Government faculty will read the paper. The student must receive a grade of "C" or better for the paper from two of the three faculty members to pass the course.*

## Government Minor

GOVT 141 – United States Government . . . . . 3
GOVT 180 – Introduction to Political Theory . . . . . 3
GOVT 230 – Introduction to Comparative Politics . . . . 3
GOVT 289 – Methods of Political Inquiry . . . . . 3

**Required Advanced Subfield Courses . . . . . 9**
*Choose one course in three of the four subfields:*
1. American Politics (GOVT 305; 320-328; 340-349; 351-359)
2. Political Theory (GOVT 310-319)
3. Comparative Politics (GOVT 301-304, 329-339)
4. International Politics (GOVT 360-369)

**Required Advances Courses**
GOVT elective . . . . . 3
**Total . . . . . 24**

## Government-Regional Analysis Program

The Institute for Regional Analysis & Public Policy, MSU's Program of Distinction, offers a core of courses (18 hours) in regional analysis that can be combined with the following program.

## Program Competencies

**Students are expected to possess:**

1. The ability to exhibit knowledge of political conditions within the United States, including the working of formal and informal institutions and the role of conflict, special interest, power, and inequities in the policy making process.
2. An understanding of the political systems in other countries, the relations between countries, and the functioning of international institutions. This is the basis for comparative study and evaluation of the United States political system.
3. The ability to analyze the impact of government policies on social and economic conditions in the United States and other countries.
4. The ability to recognize and value the varied nature of the human condition across individuals and culture groups through the practice of political analysis.
5. The ability to use methods of political investigation, to conduct original studies, and to present findings from those investigations in written and oral formats.
6. The ability to carry out studies in their area of expertise that include a significant analysis of regional resources and issues.
7. The ability to present research and policy reports that are comprehensible to audiences of various public policymakers.
8. The ability to interpret the output of regional resource analyses and their potential use in formulating public policymakers.

## Assessment Procedures

Capstone course

## Bachelor of Arts

**General Education Requirements . . . . . 48**
*See general education requirements for the University.*

GOVT 141 – United States Government . . . . . 3
GOVT 180 – Introduction to Political Theory . . . . . 3
GOVT 230 – Introduction to Comparative Politics . . . . 3
GOVT 289 – Methods of Political Inquiry . . . . . 3
**Group I Electives**
*Select three from the following:*
GOVT 344 – Kentucky Government . . . . . 3

GOVT 347 – American Public Policy . . . . . 3
GOVT 351 – Public Administration . . . . . 3
GOVT 364 – International Relations . . . . . 3
GOVT 242 – State and Local Government . . . . . 3
GOVT 329 – North American Politics: United States and Canada . . . . . 3

**Group II Free Electives**

*Any GOVT electives including courses not selected in group I. GOVT 499C – Senior Seminar (recommended).*

**Regional Analysis Courses**

RAPP 201 – Society, Nature, & Development . . . . . 3
RAPP 202 – Basic Computer Tech in Regional Analysis 3
RAPP 300 – Seminar in Regional Issues I . . . . . 3
RAPP 350 – Practicing Regional Analysis I . . . . . 3
RAPP 450 – Practicing Regional Analysis II . . . . . 3
RAPP 490 – Seminar in Regional Issues II . . . . . 3

**Supplemental Requirements**

*To be chosen with the approval of student's advisor:*
ECON 401 – Environmental Economics, or
GEO 349 – Introduction to GIS/Cartography I . . . . . 3
GOVT 324 – Environmental Law and Policy . . . . . 3

# History

## Faculty

Y. Baldwin, J. Dennis, J. Ernst, J. Hennen, T. Kiffmeyer, A. Mandzy, A. Scott, K. Wilson

## Program Competencies

**Students are expected to possess:**

1. A broad understanding of the events, circumstances, and chronology of world history.
2. The analytical ability and critical thinking skills to interpret historical events.
3. The ability to use methods of historical investigation, to conduct original research using primary sources, and to present findings in written and oral formats.
4. The ability to access and use electronic databases, information sites, and various online resources.

## Assessment Procedures

Major Field Achievement Test
Capstone course

## Bachelor of Arts

The major and minor in history provide breadth in area coverage and depth in practicing history research. These characteristics of the program prepare students to enter the teaching profession, to enter an applied field such as heritage work, or to go on for graduate education.

**General Education Requirements . . . . . 48**
*See general education requirements for the University.*

## Major

HIS 201 – Global Studies . . . . . 3
HIS 202 – American Studies . . . . . 3
HIS 210 – Early World Civilization . . . . . 3
HIS 220 – Early American History . . . . . 3
HIS 250 – Practicing History . . . . . 3
HIS 300-329 – Advanced American History . . . . . 3
HIS 350-369 – Advanced European History . . . . . 3
HIS 370-379 – Advanced Non-Western History . . . . . 3
HIS 399 – Selected Topics in History (Junior Seminar) . . . . . 3
HIS 499C – Senior Seminar in History . . . . . 3
Advanced Electives in History . . . . . 3
**Minimum for Major . . . . . 33**

## Minor

HIS 201 – Global Studies . . . . . 3
HIS 202 – American Studies . . . . . 3
HIS 210 – Early World Civilization, or
HIS 220 – Early American History . . . . . 3
HIS 250 – Practicing History . . . . . 3
HIS 300-329 – Advanced American History . . . . . 3
HIS 350-369 – Advanced European History . . . . . 3
HIS 370-379 – Advanced Non-Western History . . . . . 3
Advanced Elective in History . . . . . 3
**Minimum for Minor . . . . . 24**

**Supplemental Requirements of each Major and Minor in History:**

1. Three hours of any foreign language must be included in the humanities component of the general education requirement.
2. All majors and minors are encouraged to seek significant international experiences through travel, opportunities on campus, or use of modern information technologies.

**Additional Constraints:**

Students are permitted to use only one course in the major or minor from each of the following pairs:

1 HIS 322 – Appalachia or HIS 323 – Kentucky
2. HIS 311 – Native American History, or
   HIS 321 – The American Frontier

## Minor in Appalachian Studies

### Faculty

D. Eisenhour, G. Goldey, J. Gritton, J. Hennen, T. Irons, T. Kiffmeyer, S. Parkansky, R. Prindle, B. Reeder, E. Reeves, A. Risk, D. Rigsby, S. Rolland, D. Smith, J. Stafford, S. Tallichet

**Appalachian Studies Core:**

APS 201 – Introduction to Appalachian Studies . . . . . 3

Choose five of the following for a total of fifteen (15) credit hours:

ART 468 – Appalachian Arts . . . . . 3
ENG 360 – Appalachian Literature . . . . . 3
GEO 341 – Appalachia. . . . . 3
HIS 322 – History of Appalachia. . . . . 3
MUST 104 – Traditional Vocal Harmony . . . . . 3
SOC 560 – Appalachian Culture . . . . . 3
**Total . . . . . 18**

**Electives . . . . . 6**

Two 3-credit hour courses (may include courses not already selected above). These courses will be cross-listed in the minor with the APS prefix.

AGR 319 – Herbs. . . . . 3
BIOL 318 – Local Flora. . . . . 3
BIOL 351 – Plant Natural History . . . . . 3
BIOL 352 – Animal Natural History . . . . . 3
ENG 394 – Language and Society. . . . . 3
ENG 395 – Poetry . . . . . 3
GEO 344 – Kentucky. . . . . 3
GEO 345 – Environmental Geography . . . . . 3
GOVT 344 – Kentucky Government . . . . . 3
HS 590 – Creative Foods . . . . . 3
MUSH 261 – Music Listening (folk element). . . . . 3
MUST 103 – Practical Theory for Traditional Music . . . . . 3
RAPP 201 – Intro to Regional Analysis. . . . . 3
RAPP 202 – Basic Computer Tech in Regional Analysis 3
**Total . . . . . 24**

## Paralegal Studies

### Faculty

W. Green, S. Herzog, D. Murphy

### Program Competencies

**Students are expected to possess:**

1. Knowledge of local, state, and national governments with particular emphasis on the American court system and its procedures. Understanding of the role of attorneys and paralegals in the delivery of legal services.
2. The ability to apply the basic principles of law within specialized areas.
3. The ability to function within the context of the modern law office using up-to-date technologies to create legal forms, documents and exhibits, conduct legal research, and assist attorneys in the practice of law.
4. The ability to recognize and value the varied nature of the human condition across individuals and culture groups through paralegal practice.
5. The ability to analyze, recognize, investigate, and coherently summarize legal issues.
6. The skills to use appropriate technology in a professional setting.

### Assessment Procedures

Senior capstone project
Internship evaluations
Employment surveys

### Bachelor of Arts

The paralegal profession is a fast-growing field in which paralegals (also called legal assistants) perform a variety of essential legal tasks under the supervision of lawyers. Some of the many tasks a paralegal might encounter are client interviewing, drafting of legal documents, researching points of law, litigation support, law office management, and representing clients before administrative agencies as allowed by law.

The BA in Paralegal Studies is designed to equip graduates with the appropriate applied and theoretical knowledge of law in order to successfully assist lawyers in providing legal services to clients. The major combines the advantages of a liberal arts education with the development of professional skills necessary to provide legal assistance to attorneys in law offices, corporations, and government agencies.

The Paralegal Studies Program has been approved by the American Bar Association for paralegal training.

*Note: Paralegals are prohibited by law from engaging in the practice of law. Completion of this program or receipt of a BA in Paralegal Studies does not entitle one to practice law or render legal advice except as provided by law. See: Kentucky Supreme Court Rule 3.700 and Kentucky Revised Statutes 524.130.*

**General Education Requirements . . . . . 48**
*See general education requirements for the University.*

### Major

**Program Requirements**

**General Education Prerequisite**

GOVT 141 – United States Government . . . . . 3

**Supplemental Requirement**

CIS 101 – Computers for Learning (or equivalent) . . . . 3

**Required Courses**

PLS 210 – Introduction to Paralegalism . . . . . 3
PLS 321 – Legal Research . . . . . 3

PLS 322 – Legal Writing . . . . . 3
PLS 325 – Civil Litigation for the Paralegal I . . . . . 3
PLS 326 – Civil Litigation for the Paralegal II . . . . . 3
PLS 332 – Property Law . . . . . 3
PLS 334 – Torts, Personal Injury Litigation and Insurance Law . . . . . 3
PLS 335 – Contracts and the Uniform Commercial Code . . . . . 3
PLS 340 – Criminal Law and Procedure . . . . . 3
PLS 490 – Paralegal Internship . . . . . 3
PLS 499C – Senior Paralegal Practice Seminar . . . . . 3
**Required Total . . . . . 33**

**Elective Courses**

*Choose six semester hours from the following approved electives. At least three semester hours must be from courses with a PLS prefix.*

GOVT 303 – Comparative Constitutional Law and Politics . . . . . 3
GOVT 321 – Constitutional Law: Government Powers . 3
GOVT 322 – Courts and Civil Liberties . . . . . 3
GOVT 324 – Environmental Law and Policy . . . . . 3
PLS 333 – Family Law . . . . . 3
PLS 336 – Wills, Trusts, and Estates . . . . . 3
PLS 337 – Corporate Law . . . . . 3
PLS 360 – Paralegal Specialty Course . . . . . 3
PLS 476 – Special Problems in Paralegal Studies . . . . . 3
**Elective total . . . . . 6**
**Total . . . . . 39**

## Minor in Legal Studies

### Faculty

W. Green, S. Herzog, D. Murphy

The Legal Studies minor is available to all MSU students except students majoring in Paralegal Studies. The minor is designed to provide students with basic legal knowledge and skills, and is designed to prepare students interested in attending law school, or who wish to increase their marketability in other career fields. The Legal Studies minor also provides students from a variety of majors the opportunity to study and share a common interest in the law.

Students in the Legal Studies minor learn how to conduct legal research using the internet and other computer based legal reference tools, as well as using the traditional method of legal research in the legal reference section of the library. Students are required to study the basic substantive law areas of torts, property and contract law, as well as civil and criminal law and procedure. In addition, students must complete six semester hours from a wide range of electives on the law.

Students who graduate with a minor in Legal Studies will have a good basic understanding of law and procedure; however, they will not be considered prepared to be employed as a paralegal, and may not practice law or render legal advice except as provided by applicable law.

### Program Requirements

PLS 321 – Legal Research . . . . . 3
PLS 325 – Civil Litigation for the Paralegal I . . . . . 3
PLS 332 – Property Law . . . . . 3
PLS 334 – Torts, Personal Injury Litigation and Insurance Law . . . . . 3
PLS 335 – Contracts and the Uniform Commercial Code . . . . . 3
PLS 340 – Criminal Law and Procedure . . . . . 3
**Sub-total . . . . . 18**

*Plus six semester hours from the following list (at least one elective course must have a PLS prefix):*

GOVT 303 – Comparative Constitutional Law and Politics . . . . . 3
GOVT 321 – Constitutional Law: Government Powers . . . . . 3
GOVT 322 – Courts and Civil Liberties . . . . . 3
GOVT 324 – Environmental Law and Policy . . . . . 3
PLS 333 – Family Law . . . . . 3
PLS 336 – Wills, Trusts, and Estates . . . . . 3
PLS 337 – Corporate Law . . . . . 3
PLS 360 – Paralegal Specialty Course . . . . . 3
**Total for Minor . . . . . 24**

*Specific general education courses required by the program:*

CIS 101 – Computers for Learning . . . . . 3
GOVT 141 – United States Government . . . . . 3
PLS 226 – Law for the Layperson . . . . . 3

## Pre-Law

### Faculty

L. Back, S. Brooks (IRAPP), W. Green, M. Hail (IRAPP), S. Herzog, D. Murphy

The Pre-Law Program does not contain a set of course requirements. MSU adopts the view, endorsed by American law schools, that there should not be a fixed comprehensive pre-law curriculum, because American legal education is not a graduate program of advanced work in a specialized academic discipline that builds upon basic knowledge and techniques acquired in an undergraduate major.

Legal education is professional education which requires students to have developed basic skills prior to law school. These skills include the ability to think, read, write well, and understand human experience, including a knowledge of history, government and political processes, social and cultural patterns, and the ethical and spiritual credos by which people live.

Students develop these skills by majoring in one of many academic disciplines. Once students choose a major, they should take courses which require them to write coherently, speak articulately, and argue persuasively. Law school students have undergraduate majors in wide variety of academic fields, but government is the major most frequently chosen as preparation for law school.

The Government Pre-Law faculty listed are the Law School Admission Council's official Morehead State University Pre-Law advisors. These faculty, three of whom have law degrees, will be able to provide Pre-Law students with information, materials, and advice in developing their Pre-Law programs, taking the LSAT, gaining admission to law school, and pursuing legal careers. Pre-Law students who have questions related to their majors are encouraged to contact both their academic advisors and government Pre-Law advisors.

Pre-Law students have the opportunity to join and practice in Societas Pro Legibus, MSU's pre-law society. Societas Pro Legibus is involved in a variety of law school-related activities: hosting visits by law school admissions officers, supporting student trips to law school conferences, lectures, and open houses, and sponsoring the annual MSU Constitutional Essay and Scholarship Contest.

## Social Studies
### Faculty

L. Back, Y. Baldwin, R. Berglee, R. Caric, V. Craig, J. Dennis, C. Diaz, J. Ernst, G. Goldey, J. Hennen, J. Holcomb, S. Jones, T. Kiffmeyer, N. Lee, A. Mandzy, G. O'Dell, A. Scott, R. Swain, K. Wilson

### Program Competencies

**Students are expected to possess:**

1. The capacity to teach at the secondary level in at least three social studies disciplines, including history.
2. Awareness of the social, political, and economic systems that comprise contemporary societies as well as the growing interdependencies between societies as mediated by a global economy and shared concern for the physical environment.
3. The ability to integrate and synthesize knowledge across disciplinary boundaries in order to accumulate realistic understanding of global, national, and local issues.
4. The ability to recognize and value the varied nature of the human condition across individuals and culture groups through the practice of social/historical analysis.
5. The ability to express methods of social science investigation, conduct original studies, and present findings of those investigations in written and oral format.
6. The ability to assess and use electronic data bases, information sites, and various online resources, and to use various instructional and presentation programs.

### Assessment Procedures

National Teachers Examination (PRAXIS)
Performance during professional semester
Capstone course

### Bachelor of Arts

The Area of Concentration in Social Studies prepares students for teacher certification at the secondary level (grades 8 through 12) in at least four social studies teaching fields. There is no non-teaching program. This program aligns with trends in teacher certification that foster streamlining of certification requirements and procedures. A minimum of nine semester hours in a teaching field is required for certification in Kentucky. This program consists of 60 hours of credit in history and related social sciences. Students should work closely with an advisor to receive approval for the exact content of their program of study in this area of concentration.

### Area of Concentration in Social Studies

**General Education Requirements . . . . . 48**
*See general education requirements for the University.*

**History Component . . . . . 27**
HIS 201 – Global Studies . . . . . 3
HIS 202 – American Studies . . . . . 3
HIS 210 – Early World Civilization . . . . . 3
HIS 220 – Early American History . . . . . 3
*HIS 250 – Practicing History . . . . . 3
HIS 301, 306 or HIS 308 . . . . . 3
HIS 310, 311, 312, 317, or 318 . . . . . 3
HIS 351-361 . . . . . 3
HIS 370-379 . . . . . 3

**Geography, Government, and Economics**
*The student must complete the three clusters listed.*

**Geography . . . . . 15**
GEO 101 – Physical Geography . . . . . 3
GEO 201 – Map Interpretation and Analysis . . . . . 3
GEO 300 – World Geography . . . . . 3
*Electives from GEO* . . . . . 6

**Government . . . . . 12**
GOVT 141 – United States Government . . . . . 3
GOVT 242 – State and Local Government or
GOVT 230 – Introduction to Comparative Politics . . . . 3
GOVT 300-349, 330-337 . . . . . 3
GOVT 360-368 . . . . . 3

**Economics . . . . . 6**
ECON 101 – Introduction to Economics . . . . . 3
ECON 201 – Principles of Macroeconomics or
ECON 202 – Principles of Microeconomics . . . . . 3

**Content Methods Component . . . . . 6**
**HIS 499D – Teaching Social Studies . . . . . 3
**HIS 451 – Curriculum and Instruction for
Social Studies . . . . . 3

**Offered fall semesters only; must be completed prior to professional semester.

**HIS 250 will satisfy the GOVT 289 prerequisite for advanced courses in government (applies to social studies students only).*

**Additional Constraints:**

Students are permitted to use only one course in the major or minor from each of the following pairs:

1 HIS 322 – Appalachia or HIS 323 – Kentucky
2. HIS 311 – Native American History, or
HIS 321 – The American Frontier

## Department of Military Science

Lieutenant Colonel Bonnie Noyes
Button Auditorium
(606) 783-5225

### Faculty

Sergeant First Class C. Bogdan,
Master Sergeant (Ret) M. Campbell,
Major H. Isham, Master Sergeant R. Phillips,
Captain D. Sundys

### Program Competencies

1. Medically qualified men and women must meet the pre-commissioning requirements as established by Headquarters, Department of the Army. Those personnel completing the program will receive a commission as a Second Lieutenant in the U.S. Army, U.S. Army Reserves (USAR), or the National Guard (NG).
2. Baccalaureate degrees will vary among graduates, but all personnel must meet Military Science requirements and those of their academic major.

### Assessment Procedures

Military Qualifications Standard I

### Army ROTC

Army ROTC is a program that provides college-trained officers for the U.S. Army, the Army NG, and the USAR. Army ROTC is traditionally a four-year program consisting of basic and advanced courses.

However, a two-year program is offered that enables junior and community college students and others who missed ROTC during their first two years at MSU to qualify for a commission.

The four-year program is divided into two phases, the basic course and the advanced course.

The basic course begins the leadership development process. It is designed to acquaint students with the Army and introduce fundamental individual skills. Training is intended to attract students and build commitment toward a lifetime of officer service.

Students must be of high moral character and meet required medical, aptitude, and GPA requirements before enrollment in the advanced course. In addition, they must sign an agreement to fulfill a military service requirement in either the Reserves or active Army.

All advanced course ROTC students are paid $450-$500 per month, tax-free, during the school year. Students qualifying for the advanced course may belong to a USAR or NG unit under the Simultaneous Membership Program (SMP) and receive pay for both ROTC and their unit. Additional drill pay under this program is no less than Sergeant, E-5 pay.

All advanced course students attend a four-week leadership practicum the summer between their last two years of ROTC and are paid half the pay of a second lieutenant, plus an additional $475.00 summer vacation pay.

Those students who desire to enter active duty are obligated to serve for three years, except scholarship students and regular Army selectees who must serve for four years.

Students choosing a reserve component option must request a Guaranteed Reserve Forces Duty (GRFD) contract upon entering the advanced ROTC program. Students selecting this option serve on active duty for approximately three months, followed by eight years with a USAR or NG unit. Students who have taken junior ROTC or have active/reserve duty experience may receive credit for all or part of the basic course.

### Two-Year Program

The two-year program is designed for transfer students and MSU students who wish to earn a commission as an Army officer but did not participate in the four-year program. Students desiring to participate in the two-year program must gain credit for basic military science courses. Qualified veterans and USAR and NG personnel can be given up to four hours of credit, thereby qualifying for immediate placement in the advanced course. College freshmen and sophomores, or other students with at least two years remaining in college, may gain credit for basic military science courses by completing a five-week ROTC leadership practicum at Fort Knox, Ky., conducted during the summer.

### Scholarships

Two-, three-, and four-year scholarships are available which cover tuition, fees and laboratory expenses and includes $450.00 per semester for books and supplies. A $300-$500 per-month, tax-free, subsistence allowance is also paid to each scholarship student during the regular school year.

Students must apply for four-year scholarships prior to Nov. 15 of their senior year of high school. Students at Morehead State may apply for a two or three-year scholarship. For more information on scholarships, contact the Department of Military Science.

Army ROTC instruction increases the opportunities for college students by expanding their experiences while in college and by giving them options and potential for either a civilian or military career. Additional information on Army ROTC may be obtained from the Military Science Department, Morehead State University, 306, Button Auditorium, or by calling (606) 783-2050.

Additionally, students working to obtain a commission must complete a Professional Military Educational Requirement. Approved courses to complete this requirement are listed below. One course from each of the following categories must be completed with a “C” or above.

**Communications - 3 hours from:**
CMEM 210 – Media Literacy
CMEM 390 – Electronic Media Web Layout and Design I
CMJN 492 – Media Law and Ethics
CMSP 300 – Oral Communication

CMSP 309 – Public Speaking
CMSP 350 – Communication, Culture, & Diversity
CMSP 367 – Introduction to Organizational Communications
CMSP 371 – Professional Comm. Practices & Standards
CMSP 382 – Argumentation and Debate
CMSP 383 – Small Group Communication
CMSP 385 – Persuasion

**Military History - 3 hours from:**
HIS 306 – The United States, 1939 - Present
HIS 307 – Vietnam and Watergate
HIS 317 – United States Foreign Relations
HIS 318 – American Military History
HIS 354 – Russia since 1917
HIS 355 – Modern Germany
HIS 359 – Nineteenth Century Europe
HIS 361 – Twentieth Century Europe
HIS 370 – African History
HIS 371 – Traditional China
HIS 372 – Modern China
HIS 373 – Japanese Civilization
HIS 374 – The Middle East
HIS 376 – Ancient History
HIS 377 – Twentieth Century Asian Wars
HIS 379 – Latin American History
GEO/GOVT 372 - Political Geography

**Computer Literacy - 3 hours from:**
CIS 101 – Computers for Learning . . . . . 3
CIS 202 – Introduction to Programming–Visual Basic . . . . . 3
CIS 203 – PC Productivity Tools . . . . . 3
CIS 211 – Advanced Microcomputer Applications . . . . 3
CIS 215 – Introduction to Programming – COBOL . . . . 3
CIS 315 – Advanced Programming – COBOL . . . . . 3

## Minor

*Six to eight credit hours from the following MS courses denoted by an asterisk (*). All other MS courses are required.

*MS 101 – Introduction to Military Science, and
MS 101A – Leadership Laboratory . . . . . 3
*MS 102 – Introduction to Leadership; and
MS 102A – Leadership Laboratory . . . . . 3
*MS 201 – Self/Team Development; and
MS 201A – Leadership Laboratory . . . . . 3
*MS 202 – Individual/Team Military Tactics; and
MS 202A – Leadership Laboratory . . . . . 3
MS 301 – Leading Small Organizations I; and
MS 301A – Advanced Leadership Laboratory . . . . . 3
MS 302 – Leading Small Organizations II; and
MS 302A – Advanced Leadership Laboratory . . . . . 3
MS 401 – Leadership Challenges and Goal Setting; and
MS 401A – Advanced Leadership Laboratory . . . . . 3
MS 402 – Transition to Lieutenant; and
MS 402A – Advanced Leadership Laboratory . . . . . 3
**MS 339 – Cooperative Education in Military Leadership (required to commision as a 2nd Lieutenant)

Electives of particular interest and value to military science as approved by military science advisor (300 level courses or above) . . . . . 6

**Minimum for minor . . . . . 24**

*Placement credit for these courses may be given to veterans, graduates of college level ROTC summer programs, and participants in high school level ROTC programs.

**The following criteria must be met by all students in order to minor in military science:**

1. Acceptance into the advanced course.
2. A cumulative GPA of 2.0 or better.
3. A GPA of 2.0 or better in the major field or area of concentration.
4. A GPA of 3.0 or better in military science.

The above standards may be waived, providing the cadet has a cumulative GPA of 2.25 or better, with the approval of a board consisting of the Professor of Military Science, the Dean of the Caudill College of Humanities, and an MS IV cadet who has the rank of cadet major or above.

# Department of Music

M. Scott McBride, Chair
106 Baird Music Hall
(606) 783-2473

## Faculty

M. Acord, S. Baker, S. Blair, S. Creasap, G. Detweiler, J. Freeman, G. Ginn, J. Grice, C. Hammond, C. Hsieh, L. Keenan, J. Lee, R. Little, B. Mason, S. McBride, R. Miles, N.Nabb, F. Oddis, D. Oyen, R. Prindle, R. Pritchard, S. Snyder, P. Taylor, G. Towell, J. Viton, G. Wing

The Department of Music has a distinguished history in the education of musicians. The music faculty represents all major performance areas, music education, jazz studies, theory, composition, and history. The members of the faculty hold advanced degrees from many of the nation's most highly regarded schools of music. Many are active in solo and chamber music performance. The department also has been widely recognized for the excellence of its student performing groups. A full schedule of recitals, concerts, clinics, and other special events is maintained each year. The MSU Department of Music has been an accredited institutional member of the National Association of Schools of Music since 1965.

## Opportunities in Music

The Department of Music offers the Bachelor of Music degree in Music Education, Jazz Studies, and Performance, and the Bachelor of Arts degree in Music. The Master of Music degree is offered in Music Education and Performance. The department

also offers a Minor in Music, Minor in Traditional Music Studies, and Music Teachers National Association (MTNA) Certificate Program.

Music performance opportunities for all Morehead State University students are virtually unlimited. Regardless of the major area of study, students may continue to make music at MSU by becoming active in one of the department's many large and small ensembles. Some of the groups available include the MSU Marching Band, Symphony Band, Concert Band and Jazz Ensembles I & II, Concert Choir, University Chorus, Chamber Singers, OperaWorks, Black Gospel Ensemble, Traditional Music Ensemble, and numerous other small ensembles. All departmental ensembles and private lessons are scheduled classes that earn university credit.

## Entrance Auditions and Placement Assessment

All new and transfer students planning to major or minor in music must audition before the music faculty on their principal performing instrument or voice prior to enrollment. The audition process is used to determine the student's readiness for entry into a music degree program. A scholarship audition may serve as a student's admission audition.

Placement examinations are given in music theory and piano prior to enrollment. The results are used for advisement as to course and program enrollment. Credit by examination for certain courses in the Music Theory and Class Piano sequences must be validated by the faculty and processed through the Department of Music Office and the Office of the Registrar.

## Transfer Student Admission

The music major entering the Department of Music by transfer must submit an official transcript of all previous college work. The applicant should be prepared to validate achievements in the area of applied music, music theory, ear training and sight singing, keyboard proficiency, and the history and literature of music. Resolution of any deficiency must be initiated during the first registration period.

## Advising and Program of Study

Students who are approved for entry into a music major or minor degree program must declare their intended program of study. A student who is not ready for entry into a music program may enroll in the prescribed music courses on a probationary basis until performance standards are met. These performance standards must be met by the end of the first academic year of enrollment. Students receive their initial program advising by the Chair of the Department of Music and thereafter by their private applied instructor. Students wishing to choose a different music degree program or principal applied area of study must receive departmental approval. The appropriate members of the music faculty, in consultation with the department chair, determine the student's eligibility and suitability for the change and which previously earned credits, if any, apply to the new program of study.

## Music Scholarships

Music scholarship awards are available to qualified students as determined through a scholarship audition. These awards serve numerous students annually. All awards are contingent upon admission to the University.

The Music Scholarship Committee considers many criteria before recommending a candidate for a scholarship award including the candidate's performance ability, potential for academic success, anticipated contribution to the program and the needs within the department. Music scholarship awards are renewable for up to four years provided that the student meets the expectations of the scholarship agreement.

## Program Competencies for the Bachelor of Music and Bachelor of Music Education Degree

As an accredited institutional member of the National Association of Schools of Music (NASM), Morehead State University adheres to and complies with the standards of the association. NASM "Competencies Common to All Professional Baccalaureate Degrees in Music and to All Undergraduate Degrees Leading to Teacher Certification" (NASM Handbook) define the program competencies for the Bachelor of Music Education and Bachelor of Music degree programs at MSU.

### A. Performance

**Students must acquire:**

1. Technical skills requisite for artistic self-expression in a least one major performance area at a level appropriate for the particular music concentration.
2. An overview understanding of the repertory in their major performance area and the ability to perform from a cross-section of that repertory.
3. The ability to read music at sight with fluency.
4. Knowledge and skills sufficient to work as a leader and in collaboration on matters of musical interpretation. Rehearsal and conducting skills are required as appropriate to the particular music concentration.
5. Keyboard competency. Experiences in secondary performance areas are recommended.
6. Growth in artistry, technical skills, collaborative competence, and knowledge of repertory through regular ensemble experiences. Ensembles should be varied both in size and nature.
7. Performance study and ensemble experiences that normally continue throughout the baccalaureate program.

### B. Aural Skills and Analysis

**Students must acquire:**

1. An understanding of the common elements and organizational patterns of music and their interaction, and the ability to employ this understanding in aural, verbal, and visual analyses.

2. Sufficient understanding of musical forms, processes, and structures to use this knowledge in compositional, performance, scholarly, pedagogical, and historical contexts, according to the requisites of their specialization.
3. The ability to place music in historical, cultural, and stylistic contexts.

### C. Composition and Improvisation

**Students must acquire:**

1. Rudimentary capacity to create derivative or original music both extemporaneously and in written form.
2. The ability to compose, improvise, or both at a basic level in one or more musical languages; for example, the imitation of various musical styles, improvisation on pre-existing materials, the creation of original compositions, experimentation with various sound sources, and manipulating the common elements in non-traditional ways.

### D. History and Repertory

**Students must acquire:**

1. A basic knowledge of music history through the present time.
2. An acquaintance with repertories beyond the area of specialization. All students must be exposed to a large and varied body of music through study and attendance at recitals, concerts, opera and musical theatre productions, and other performances.

### E. Technology

**Students must acquire:**

1. A basic overview understanding of how technology serves the field of music as a whole.
2. Working knowledge of the technological developments applicable to their area of specialization.

### F. Synthesis

**While synthesis is a lifetime process, by the end of undergraduate study students should be:**

1. Working independently on a variety of musical problems by combining their capabilities in performance; aural, verbal, and visual analysis; composition and improvisation; and history and repertory.
2. Forming and defending value judgments about music.
3. Acquiring the tools to work with a comprehensive repertory, including music from various cultures of the world and music of their own time.
4. Understanding basic interrelationships and interdependencies among the various professions and activities that constitute the musical enterprise.

## Assessment Procedures

Survey of Graduates
Performance Recitals
Exit Interview
Senior Capstone Course

## Program Competencies for the Bachelor of Arts Degree in Music

As an accredited institutional member of the National Association of Schools of Music (NASM), Morehead State University adheres to and complies with the standards of the association. NASM "Standards for the Liberal Arts Degree with a Major in Music" (NASM Handbook) define the program competencies for the Bachelor of Arts degree in Music at MSU.

### A. General Education

**The principal goals of general education in undergraduate liberal arts programs with a major in music are:**

1. The ability to think, speak, and write clearly and effectively. Students who earn liberal arts degrees must be able to communicate with precision, cogency, and force.
2. An informed acquaintance with the mathematical and experimental methods of the physical and biological sciences; with the main forms of analysis and the historical and quantitative techniques needed for investigating the workings and developments of modern society.
3. An ability to address culture and history from a variety of perspectives.
4. Understanding of, and experience in thinking about, moral and ethical problems.
5. The ability to respect, understand, and evaluate work in a variety of disciplines.
6. The capacity to explain and defend one's views effectively and rationally.
7. Understanding of and experience in arts forms other than music.

### B. Musicianship

**Musicianship studies appropriate to the liberal arts degree must produce:**

1. The ability to hear, identify, and work conceptually with the elements of music-rhythm, melody, harmony, and structure.
2. An understanding of compositional processes, aesthetic properties of style, and the ways these shape and are shaped by artistic and cultural forces.
3. An acquaintance with a wide selection of musical literature, the principal eras, genres, and cultural sources.
4. The ability to develop and defend musical judgments.

### C. Performance and Music Electives

Instruction in the performing medium, participation in large and small ensembles, and experience in solo performance develop these competencies.

**Performance studies appropriate to the liberal arts degree should produce:**

1. Ability in performing areas appropriate to the student's needs and interests.
2. Ability to sight-read music.

3. An understanding for procedures for realizing a variety of musical styles.

## Assessment Procedures

Survey of Graduates,
Performance Recitals, and
Exit Interview

## General Requirements and Advisories

### Recital Attendance

Attending concerts and recitals is an essential ingredient of a professional musician's training. Attending live performances ensures that all music majors and minors are exposed to a large and varied body of music and provides opportunities to enhance musical learning. Therefore, students are expected to attend concerts and recitals presented on campus as part of the overall study of music at MSU.

Each faculty member who teaches Private Applied music has a grading policy that reflects this attitude and has established expectations for recital attendance. In addition, music students are required to complete MUSM 200/400 Student Recital for the prescribed number of semesters with a passing grade (MUSM 200/400 is a pass-fail course). Regular attendance at the student recital hour is expected of all music students. The Chair of the Department of Music maintains attendance records and issues grades.

### Piano Proficiency

All candidates for the Bachelor of Music Education, Bachelor of Music, and Bachelor of Arts degree with principal applied areas other than keyboard instruments are required to complete the four-semester sequence of Class Piano (MUSG 123, 124, 223, 224). Non-keyboard major students with previous keyboard experience may qualify for advanced placement in the Class Piano sequence. Exemption from the Class Piano sequence requires successful completion of the Piano Proficiency Examination.

Students pursuing the Bachelor of Music Education degree who achieve advanced placement or exemption from the Class Piano sequence may substitute music electives to fulfill the exempted Class Piano credit requirements or receive credit for the exempted course(s) by application to the Registrar. Students pursuing the Bachelor of Music or Bachelor of Arts in Music degree who achieve advanced placement or exemption from the Class Piano sequence prior to the completion of MUSG 224 – Class Piano IV must fulfill the remaining required credit hours in the piano/keyboard area as specified in the program of study.

### Ensembles

All students are required to enroll each semester in residence in the ensemble course appropriate to the program of study, results of a placement audition, Private Applied instrument area, and class standing. Students who are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed in the program requirements. These ensemble enrollment requirements are considered the minimum for music-major students; all music students are encouraged to participate in additional large and small ensembles, including chamber and jazz ensembles, in order to receive a more extensive performance experience and professional preparation.

### Private Applied Music

Music majors and minors are required to designate a principal area of Private Applied music study and enroll each semester in residence for credit in this area as required by the program of study. Students who are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed in the program requirements. Credit may also be earned in secondary applied areas with permission of the instructor. Private Applied in principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester, except as excused by the Private Applied instructor after recital appearances. In addition, music major and minor students must register for MUSP 200/400 – Performance Class concurrently with Private Applied lessons in the principal applied area. Performance Class receives no credit and is graded pass/fail, but attendance and performance in this course may affect the student's grade in Private Applied lessons.

Credit hours for Private Applied music are variable. Normally, students enroll for two-three hours of credit depending on the requirements of the degree program and the advice of the Private Applied instructor. Students studying a secondary applied instrument normally enroll for one credit hour. Students are expected to practice at least one hour per day for each credit hour earned in Private Applied lessons.

One credit = .5 hour lesson per week (intended for approved non-music majors), one hour practice daily
Two credits = .5 hour lesson per week and concurrent enrollment in MUSP 200/400, two hour practice daily
Three credits = 1 hour lesson per week and concurrent enrollment in MUSP 200/400, three hours practice daily
Four credits = 1.5 hour lesson per week and concurrent enrollment in MUSP 200/400, four hours practice daily

### Degree Recitals and Hearings

Students seeking the Bachelor of Music Education or Bachelor of Music degree must complete the Senior Recital on their principal performing instrument. Successful completion of the Senior Recital satisfies the integrative component in the General Education curriculum as the capstone course for the degree.

Music Education majors complete MUSP 499C – Senior Recital, a three-credit hour course that requires a formal recital with an accompanying research paper and oral presentation covering the works and composers to be performed. Students in the Bachelor of Music program complete MUSP 360 – Junior Recital, a two-credit hour course that requires a formal recital, and MUSP 499C – Senior Recital, a three-credit hour course that requires a formal recital. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.

Prior to scheduling a recital, the proposed program must be presented for approval by a committee of applied faculty. Students receive approval by successfully completing a recital hearing.

### Music Fees

Private Applied: $30 per credit hour
Recital Fee: $30 per credit hour
MUSP 360 – Junior Recital (two credit hours): $60
MUSP 498C – Senior Recital (two credit hours): $60
MUSP 660 – Graduate Recital (two credit hours): $60
MUSP 499C – Senior Recital (three credit hours): $90
MUSP 470 Composition Recital (three credit hours): $90
Instrument Rental Fee: $15 - $20 per semester
Locker Rental:
One locker per semester or summer session: $10
One locker per academic year $20

### Upper and Lower Division Enrollment

Lower division (100 and 200-level) Performance Class, Student Recital, Ensemble, and Private Applied lesson courses are appropriate for students with Freshman and Sophomore standing; upper division (300 and 400-level) Performance Class, Student Recital and Ensemble courses are appropriate for students with Junior or Senior standing.

Music majors and minors must successfully complete the Applied Music Upper Division Assessment before enrolling in 400-level Private Applied courses. The Upper Division Assessment includes an academic component and a performance component. To complete the academic component, students must successfully pass MUSG 124, MUST 233, MUST 236, 4 semesters each of MUSP 200 and MUSM 200 with passing grade of 'K", and two of the following: MUSH 161, MUSH 162, MUSH 361, MUSH 362. MUSE 230 (BME majors only), 8 credits of 200-level Private Applied in principal instrument with grade of "C" or better (BME and BA in Music majors only), 12 credits of 200-level Private Applied in principal instrument with grade of "C" or better (BM majors only). To complete the performance component, students must meet the criteria set for their primary applied area during their end of semester jury performances.

### General Education

All undergraduate students must complete a required core of General Education courses. Please refer to the General Education catalog section for a detailed listing of the 48-credit hours of General Education courses common to all baccalaureate programs. Certain requirements in the General Education curriculum are met through courses required in the music major program of study. A framework of the General Education curriculum and the courses that satisfy General Education and major program requirements appear below.

**I. Required General Education Core (15 credit hours)**

CMSP 108 – Fundamentals of Speech Communication* . . . . . 3
ENG 100 – Writing I* . . . . . 3
ENG 200 – Writing II* . . . . . 3
MUSE 215 – Microcomputers and Music*. . . . . 0-3
Math Reasoning . . . . . 3

**II. Required General Education Area Studies (30 credit hours)**

*(May choose no more than one from the same course prefix)*

A. Humanities . . . . . 6-9
(Must include: MUSH 361 – History of Music I, or MUSH 362 – History of Music II)+
B. Natural and Mathematical Sciences . . . . . 9
C. Social and Behavioral Sciences (may include: EDF 211 for BME students)+ . . . . . 9
D. Practical Living . . . . . 3
(FIN 264 – Personal Finance required General Education course for BM in Jazz Studies)+

**III. Integrative Component (Three credit hours)**

MUSP 499C – Senior Recital (capstone course)+ . . . . . 3

**Total . . . . . 48**

*Successful completion prerequisite for admission to Teacher Education Program (TEP)
** The balance of the three hours of required credits in GE must be earned in upper-division Private Applied.
+ Denotes courses that also fulfill music major requirements.

### MSU 101 Discovering University Life

MSU 101 is a one-credit-hour course required in the first semester of enrollment of all new freshman and transfer students with less than 24 earned credit hours. This course is designed to orient students to MSU. The music faculty teaches special course sections specifically for music-major students. Course credit for MSU 101 is not calculated into total required hours for program.

## Bachelor of Music Education (BME)

### Common Program Requirements

This program is designed for students who are planning for careers as music teachers in the public schools. The BME program meets the requirements for the Integrated Music P-12 initial certificate. The Integrated Music P-12 certificate is the Kentucky license to teach general, instrumental, and vocal music, primary through 12th grade levels.

### Teacher Certification

In order to fulfill State of Kentucky Certification guidelines, the student must complete the departmental and University education requirements. A minimum of 68-70 semester hours in the area of Music and 28 hours in professional education must be completed. Also, specific standards must be met for admission to the Teacher Education Program (TEP).

IMPORTANT: Consult the TEP section of the Undergraduate Catalog for additional specific information about the requirements for entry into the TEP and completion of the teacher certification program.

**Professional Education Requirements**

EDF 207 – Foundations of Education . . . . . 3
EDF 211 – Human Growth and Development* . . . . . 3
EDF 311 – Learning Theories and Assessment** . . . . . 3
EDSE 312 – Educational Methods and Technology** . . . . . 3
EDSP 332 – Teaching the Exceptional Student** . . . . . 2
EDSE 416 – Clinical Practice*** . . . . . 12
EDSE 483 – Classroom Organization and Management**+ . . . . . 3
**Total . . . . . 29**

*Successful completion prerequisite for admission to Teacher Education Program (TEP)
**Admission to TEP is required to enroll in these courses.
***Application for Clinical Practice submitted one semester in advance to Educational Services Unit.
+Required of Music Education majors who have been admitted to the TEP from the 2003-04 academic year onward. Those students admitted to the TEP before 2003-04 are not required to take this course.

## Core Music Requirements

**Music Theory (16 credit hours)**

MUST 131 – Music Theory I . . . . . 3
MUST 132 – Music Theory II . . . . . 3
MUST 236 – Music Theory III . . . . . 2
MUST 237 – Music Theory IV . . . . . 2
MUST 133 – Music Reading I . . . . . 1
MUST 135 – Music Reading II . . . . . 2
MUST 233 – Music Reading III . . . . . 3

**Class Applied (Four credit hours)**

MUSG 123 – Class Piano I* . . . . . 1
MUSG 124 – Class Piano II* . . . . . 1
MUSG 223 – Class Piano III* . . . . . 1
MUSG 224 – Class Piano IV* . . . . . 1

**Music History and Literature (Seven-10 credit hours)**

MUSH 161 – Literature of Music I . . . . . 2
MUSH 162 – Literature of Music II . . . . . 2
MUSH 361 – Literature of Music I** . . . . . 3
MUSH 362 – Literature of Music II** . . . . . 3

**Total . . . . . 27-30**

* Students may exempt these courses by examination.
**Denotes courses that also fulfill General Education requirements.

## Area of Specialization Requirements
## BME: Woodwind, Brasswind, Percussion

Woodwind, brasswind, and percussion Music Education majors are required to enroll in and participate in all activities of the Marching Band each fall semester and in the Concert or Symphony Band each spring semester (enrollment in a concert band is determined by audition). Those students who perform in the Marching Band on an instrument other than their principal applied instrument must also participate in the Concert or Symphony Band on their principal applied instrument each fall semester. In addition, woodwind, brasswind, and percussion music education majors are required to take two semesters of a choral ensemble (University Chorus, Concert Choir, or Chamber Singers).

**Private Applied (14-16 credit hours)**

MUSP 2XX – Private Applied Area (principal instrument course number) . . . . . 8
MUSP 4XX – Private Applied Area (principal instrument course number)+ . . . . . 6
MUSP 200, 400 Performance Class (principal instrument section number)+ . . . . . 0
MUSM 200, 400 Student Recital (complete seven semesters with a grade of K) . . . . . 0
MUSP 499C – Senior Recital# . . . . . 0-3

**Ensembles (Nine credit hours)**

MUSM 170 – Concert Band, or MUSM 171 Symphony Band+ . . . . . 2
MUSM 172 – Marching Band+ . . . . . 2
MUSM 370 – Concert Band, or MUSM 371 – Symphony Band+ . . . . . 1
MUSM 372 – Marching Band+ . . . . . 2
MUSM 191/391 – University Chorus,
MUSM 192/392 – Concert Choir, or MUSM 193/393 – Chamber Singers . . . . . 2

**Class Applied (Six credit hours)**

MUSG 239 – Class Voice (instrumental section) . . . . . 1
MUSG 211 – Class Woodwinds* . . . . . 0-1
MUSG 213 – Class Brasswinds* . . . . . 0-1
MUSG 217 – Class Percussion* . . . . . 0-1
MUSG 226 – Class Strings . . . . . 1
MUSG 212 – Advanced Woodwinds Techniques . . . . . 1
MUSG 214 – Advanced Brasswinds Techniques . . . . . 1

**Conducting (Four credit hours)**

MUSC 271 – Basic Conducting . . . . . 2
MUSC 472 – Instrumental Conducting (*taken concurrently with* MUSE 376 – Instrumentals Materials and Methods and University Band) . . . . . 2

**Music Education and Technology (Seven-10 credit hours)**

MUSE 215 – Microcomputers and Music** . . . . . 0-3

MUSE 230 – Introduction to Music Education . . . . . 1
MUSE 325 – Materials and Methods for Elementary Grades . . . . . 3
MUSE 376 – Instrumental Methods and Materials (*taken concurrently with* MUSC 472 – Instrumental Conducting and University Band) . . . . . 2
MUSE 335 – Field Experience . . . . . 1

**Total . . . . . 40-45**

*+Enroll each semester in residence (except the semester of Clinical Practice) in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Students who are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*

*#Successful completion of MUSP 499C – Senior Recital satisfies the integrative component in General Education curriculum as the capstone course for the BME degree. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*

**Students are exempt from these courses if in their major instrument family or by examination.*

***Fulfills General Education and Professional Education technology requirement.*

## BME: Voice

Vocal Music Education majors are required, upon successful audition, to enroll in and participate in all activities of the Concert Choir. Students with an unsuccessful audition for Concert Choir enroll in the University Chorus.

**Private Applied (14-16 credit hours)**
MUSP 240 – Private Applied Voice+ . . . . . 8
MUSP 200, 400 – Performance Class+ . . . . . 0
MUSM 200, 400 – Student Recital (complete seven semesters with a grade of K) . . . . . 0
MUSP 440 – Private Applied Voice+ . . . . . 6
MUSP 499C – Senior Recital#. . . . . 0-3

**Ensemble (Seven Credit Hours)**
MUSM 191 – University Chorus, or
MUSM 192 – Concert Choir+ . . . . . 4
MUSM 391 – University Chorus, or
MUSM 392 – Concert Choir+ . . . . . 3

**Class Applied (Six credit hours)**
MUSG 135 – Class Guitar I . . . . . 1
MUSG 211 – Class Woodwinds* . . . . . 1
MUSG 213 – Class Brasswinds* . . . . . 1
MUSG 217 – Class Percussion* . . . . . 1
MUSG 226 – Class Strings . . . . . 1
MUSG 239 – Class Voice (Diction section for voice majors) . . . . . 1

**Conducting (Four credit hours)**
MUSC 271 – Basic Conducting . . . . . 2
MUSC 471 – Choral Conducting (*taken concurrently with* MUSE 375 – Vocal Materials & Methods) . . . . . 2

**Music Education and Technology (Seven-10 credit hours)**
MUSE 215 – Microcomputers and Music** . . . . . 0-3
MUSE 230 – Introduction to Music Education . . . . . 1
MUSE 325 – Elementary Methods and Materials . . . . . 3
MUSE 335 – Field Experience . . . . . 1
MUSE 375 – Vocal Materials and Methods *(taken concurrently with* MUSC 471 – Choral Conducting) . . . . . 2

**Total . . . . . 38-43**

*+Enroll each semester in residence (except the semester of Clinical Practice) in the course appropriate to the results of the placement audition, Private Applied area, upper-division assessment and class standing. Students who are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*

*#Successful completion of MUSP 499C – Senior Recital satisfies the integrative component in General Education curriculum as the capstone course for the BME degree. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*

**Students are exempt from these courses if in their major instrument family or by examination.*

***Fulfills General Education and Professional Education technology requirement.*

## BME: Keyboard and Guitar

Keyboard and guitar Music Education majors are required to enroll in and participate in all activities of the University Chorus, Concert Choir, Concert Band, Symphony Band, or Marching Band (enrollment in a concert band or choral ensemble is determined by audition).

**Private Applied (14-16 credit hours)**
MUSP 243 – Private Applied Piano, or
MUSP 236 – Private Applied Guitar+ . . . . . 8
MUSP 443 – Private Applied Piano, or
MUSP 436 – Private Applied Guitar + . . . . . 6
MUSP 200, 400 – Performance Class+ . . . . . 0
MUSM 200, 400 – Student Recital (complete seven semesters with a grade of K) . . . . . 0
MUSP 499C – Senior Recital# . . . . . 0-3

**Ensemble (Seven credit hours)**
MUSM 170 – Concert Band
MUSM 171 – Symphony Band
MUSM 172 – Marching Band
MUSM 191 – University Chorus
MUSM 192 – Concert Choir+ . . . . . 4
MUSM 370 – Concert Band
MUSM 371 – Symphony Band
MUSM 372 – Marching Band
MUSM 391 – University Chorus
MUSM 392 – Concert Choir+ . . . . . 3

**Class Applied (Six credit hours)**
MUSG 135 – Class Guitar I* . . . . . 1
MUSG 211 – Class Woodwinds* . . . . . 1
MUSG 213 – Class Brasswinds* . . . . . 1
MUSG 217 – Class Percussion* . . . . . 1
MUSG 226 – Class Strings . . . . . 1
MUSG 239 – Class Voice (instrumental section) . . . . . 1

**Conducting (Four credit hours)**
MUSC 271 – Basic Conducting . . . . . 2
MUSC 471 – Choral Conducting (*taken concurrently with* MUSE 375 – Vocal Methods & Materials) or
MUSC 472 – Instrumental Conducting (*taken concurrently with* MUSE 376 – Instrumental Methods & Materials and University Band) . . . . . 2

**Music Education and Technology (Seven-10 credit hours)**
MUSE 215 – Microcomputers and Music** . . . . . 0-3
MUSE 230 – Introduction to Music Education . . . . . 1
MUSE 325 – Elementary Methods and Materials . . . . . 3
MUSE 335 – Field Experience . . . . . 1
MUSE 375 – Vocal Materials and Methods (*taken concurrently with MUSC 471* – Choral Conducting), or
MUSE 376 – Instrumental Materials and Methods (*taken concurrently with* MUSC 472 – Instrumental Conducting and University Band) . . . . . 2
**Total . . . . . 38-43**

*+Enroll each semester in residence (except the semester of Clinical Practice) in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Students who are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*
*#Successful completion of MUSP 499C satisfies the integrative component in General Education curriculum as the capstone course for the BME degree. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*
**Students are exempt from these courses if in their major instrument family or by examination.*
***Fulfills General Education and Professional Education technology requirement.*

## BME: Orchestral Strings

Orchestral String Music Education majors are required to enroll in and participate in all activities of the Orchestra. In addition, orchestral string Music Education majors are required to take two semesters of a choral ensemble (University Chorus, Concert Choir, or Chamber Singers).

**Private Applied (14-16 credit hours)**
MUSP 2XX – Private Applied Area (principal instrument course number)+ . . . . . 8
MUSP 4XX – Private Applied Area (principal instrument course number)+ . . . . . 6
MUSP 200, 400 – Performance Class (principal instrument section number)+ . . . . . 0
MUSM 200, 400 – Student Recital (complete seven semesters with a grade of K) . . . . . 0
MUSP 499C – Senior Recital# . . . . . 0-3

**Ensemble (Nine credit hours)**
MUSM 178 – String Ensemble, or
MUSM 179 – Orchestra+ . . . . . 4
MUSM 378 – String Ensemble, or
MUSM 379 – Orchestra+ . . . . . 3

MUSM 191/391 – University Chorus,
MUSM 192/392 – Concert Choir, or
MUSM 193/393 – Chamber Singers . . . . . 2

**Class Applied (Six credit hours)**
MUSG 211 – Class Woodwinds* . . . . . 1
MUSG 212 – Advanced Woodwinds Techniques . . . . . 1
MUSG 213 – Class Brasswinds* . . . . . 1
MUSG 214 – Advanced BrasswindsTechniques . . . . . 1
MUSG 217 – Class Percussion* . . . . . 1
MUSG 226 – Class Strings* . . . . . 0-1
MUSG 239 – Class Voice (instrumental section) . . . . . 1

**Conducting (Four credit hours)**
MUSC 271 – Basic Conducting . . . . . 2
MUSC 472 – Instrumental Conducting (*taken concurrently with* MUSE 376 – Instrumental Materials and Methods and University Band) . . . . . 2

**Music Education and Technology (Seven-10 credit hours)**
MUSE 215 – Microcomputers and Music** . . . . . 0-3
MUSE 230 – Introduction to Music Education . . . . . 1
MUSE 325 – Materials and Methods for Elementary Grades. . . . . 3

MUSE 335 – Field Experience . . . . . 1
MUSE 376 – Instrumental Methods and Materials *(taken concurrently with* MUSC 472 – Instrumental Conducting and University Band) . . . . . 2
**Total . . . . . 40-45**

*+Enroll each semester in residence (except the semester of Clinical Practice) in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Students who are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*
*#Successful completion of MUSP 499C satisfies the integrative component in General Education curriculum as the capstone course for the BME degree. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*
**Students are exempt from these courses if in their major instrument family or by examination.*
***Fulfills General Education and Professional Education technology requirement.*

## Bachelor of Music (BM)

### Core Music Requirements

**Music Theory (18 credit hours)**
MUST 131 – Music Theory I . . . . . 3
MUST 132 – Music Theory II . . . . . 3
MUST 236 – Music Theory III . . . . . 2
MUST 237 – Music Theory IV . . . . . 2
MUST 133 – Music Reading I . . . . . 1
MUST 135 – Music Reading II . . . . . 2
MUST 233 – Music Reading III . . . . . 3
MUST 465 – Form and Analysis . . . . . 2

**Music History and Literature (Seven-10 credit hours)**
MUSH 161 – Literature of Music I . . . . . 2
MUSH 162 – Literature of Music II . . . . . 2
MUSH 361 – History of Music I* . . . . . 0-3
MUSH 362 – History of Music II* . . . . . 0-3

**Conducting (Two credit hours)**
MUSC 271 – Basic Conducting . . . . . 2

**Technology (Zero-Three credit hours)**
MUSE 215 – Microcomputers and Music* . . . . . 3
**Total . . . . . 29-35**

** Denotes courses that also fulfill General Education requirements.*

## Area of Specialization Requirements
## BM: Woodwind, Brasswind, Percussion

Woodwind, brasswind, and percussion majors are required to enroll in and participate in all activities of the Concert Band, Symphony Band, or Marching Band. Those students who perform in the Marching Band on an instrument other than their principal applied instrument must also participate in the Concert or Symphony Band on their principal applied instrument each fall semester (enrollment in a concert band is determined by audition).

**Private and Class Applied (27-33 credit hours)**
MUSG 123 – Class Piano I, or
MUSG 124 – Class Piano II, or
MUSG 223 – Class Piano III, or
MUSG 224 – Class Piano IV, and/or
MUSP 243/443 – Private Piano . . . . . 7
MUSG 239—Class Voice (instrumental section) . . . . . 1
MUSM 200, 400 – Student Recital
(complete eight semesters with a grade of K) . . . . . 0
MUSP 2XX – Private Applied Area
(principal instrument course number)+ . . . . . 12
MUSP 4XX – Private Applied Area
(principal instrument course number)+ . . . . . 7
MUSP 200, 400 – Performance Class+ . . . . . 0
MUSP 360 – Junior Recital# . . . . . 2
MUSP 499C – Senior Recital# . . . . . 3

**Ensemble (Eight credit hours)**
MUSM 170 – Concert Band,
MUSM 171 – Symphony Band, or
MUSM 172 – Marching Band+ . . . . . 4
MUSM 370 – Concert Band,
MUSM 371 – Symphony Band, or
MUSM 372 – Marching Band+ . . . . . 4

**Conducting (Two credit hours)**
MUSC 472 – Instrumental Conducting . . . . . 2

**Arranging (Four credit hours)**
MUST 531 – Arranging . . . . . 2
MUST 532 – Advanced Arranging . . . . . 2

**Electives in Music (Six credit hours)****
MUSC, MUSE, MUSG, MUSH, MUSM,
MUSP, MUST, or MUSW . . . . . 6
**Electives (Four credit hours)** . . . . . 4**

**Total . . . . . 53-56**

*+Enroll each semester in residence in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Students who that are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private*

*Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*
*#MUSP 360 – Junior Recital requires a formal recital and MUSP 499C – Senior Recital requires a formal recital. Successful completion of MUSP 499C satisfies the integrative component in General Education curriculum as the capstone course for the BM degree and satisfies three credit hours of upper-division Private Applied. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*
***Credit hours must be at the upper-division level (300-level courses or above).*

## BM: Voice

Voice majors are required, upon successful audition, to enroll in and participate in all activities of the Concert Choir. Students with an unsuccessful audition for Concert Choir enroll in the University Chorus.

**Private and Class Applied (25-28 credit hours)**
MUSG 123 – Class Piano I, or
MUSG 124 – Class Piano II, or
MUSG 223 – Class Piano III, or
MUSG 224 – Class Piano IV, or
MUSP 241/441 – Private Harpsichord, or
MUSP 242/442 – Private Organ, and/or
MUSP 243/443 – Private Piano . . . . . 6
MUSM 200, 400 – Student Recital
(complete seven semesters with a grade of K) . . . . . 0
MUSG 239 – Class Voice (Diction section for voice majors) . . . . . 1
MUSP 200, 400 – Performance Class+ . . . . . 0
MUSP 240 – Private Voice+ . . . . . 12
MUSP 360 – Junior Recital# . . . . . 2
MUSP 440 – Private Voice+ . . . . . 4
MUSP 499C – Senior Recital# . . . . . 0-3

**Ensemble (Eight credit hours)**
MUSM 191 – University Chorus, or
MUSM 192 – Concert Choir+ . . . . . 4
MUSM 391 – University Chorus, or
MUSM 392 – Concert Choir+ . . . . . 4
**Conducting (Two credit hours)**
MUSC 471 – Choral Conducting . . . . . 2

**Foreign Language (Nine-12 credit hours)**
FRN 101 – Beginning French I . . . . . 3
FRN 102 – Beginning French II . . . . . 3
GER 101 – Beginning German I . . . . . 3
GER 102 – Beginning German II . . . . . 3

**Electives in Music (Seven credit hours)****
MUSC, MUSE, MUSG, MUSH, MUSM, MUSP, MUST, or MUSW . . . . . 7

**Total . . . . . 53-56**

*+Enroll each semester in residence in the course appropriate to the results of the placement audition, Private Applied instrument area, and class standing. Students who are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*
*#MUSP 360 – Junior Recital requires a half-hour recital and MUSP 499C – Senior Recital requires an hour-long recital. Successful completion of MUSP 499C satisfies the integrative component in General Education curriculum as the capstone course for the BM degree and satisfies three credit hours of upper-division Private Applied. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*
***Credit hours must be at the upper-division level (300-level courses or above).*

## BM: Piano

Piano majors are required to enroll in collaborative and ensemble keyboard courses.

**Private and Class Applied (29-32 credit hours)**
MUSG 239 – Class Voice (instrumental section) . . . . . 1
MUSM 200, 400 – Student Recital
(complete eight semesters with a grade of K) . . . . . 0
MUSP 200, 400 – Performance Class+ . . . . . 0
MUSP 243 – Private Piano+ . . . . . 12
MUSP 241/441 – Private Harpsichord, or
MUSP 242/442 – Private Organ, and/or
MUSP 243/443 – Private Piano . . . . . 7
MUSP 443 – Private Piano+ . . . . . 7
MUSP 360 – Junior Recital# . . . . . 2
MUSP 499C – Senior Recital# . . . . . 0-3

**Ensemble (Eight credit hours)**
MUSM 187 – Piano Sight Reading I,
MUSM 188 – Piano Sight Reading II,
MUSM 189 – Piano Ensemble,
MUSM 387 – Accompanying I,
MUSM 388 – Accompanying II,
MUSM 487 – Recital Accompanying I, or
MUSM 488 – Recital Accompanying II+ . . . . . 8

**Conducting (Two credit hours)**
MUSC 471 – Choral Conducting . . . . . 2

**Literature and Pedagogy (Six credit hours)**
MUSE 378 – Piano Pedagogy . . . . . 3
MUSH 581 – Literature of the Piano . . . . . 3
**Electives in Music (Five credit hours)****
MUSC, MUSE, MUSG, MUSH, MUSM, MUSP,
MUST, or MUSW . . . . . 5
**Electives (Three credit hours)**** . . . . . **3**

**Total . . . . . 53-56**

*+Enroll each semester in residence in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Students who are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*
*#MUSP 360 – Junior Recital requires a formal recital and MUSP 499C – Senior Recital requires a formal recital. Successful completion of MUSP 499C satisfies the integrative component in General Education curriculum as the capstone course for the BM degree and satisfies three credit hours of upper-division Private Applied. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*
***Credit hours must be at the upper-division level (300-level courses or above).*

## BM: Organ or Harpsichord

Organ or Harpsichord majors are required to enroll in collaborative and ensemble keyboard courses.

**Private and Class Applied (29-32 credit hours)**
MUSP 241 – Private Harpsichord, or
MUSP 242 – Private Organ+ . . . . . 12
MUSP 360 – Junior Recital# . . . . . 2
MUSP 441 – Private Harpsichord, or
MUSP 442 – Private Organ+ . . . . . 7
MUSP 200, 400 – Performance Class+ . . . . . 0
MUSM 200, 400 – Student Recital
(complete eight semesters with a grade of K) . . . . . 0
MUSP 499C – Senior Recital# . . . . . 0-3
MUSG 123 – Class Piano I,
MUSG 124 – Class Piano II,
MUSG 223 – Class Piano III,
MUSG 224 – Class Piano IV, and/or
MUSP 243/443 – Private Piano . . . . . 7
MUSG 239 – Class Voice (instrumental section) . . . . . 1

**Ensemble (Eight credit hours)**
MUSM 187 – Piano Sight Reading I,
MUSM 188 – Piano Sight Reading II,
MUSM 189 – Piano Ensemble,
MUSM 387 – Accompanying I,
MUSM 388 – Accompanying II,
MUSM 487 – Recital Accompanying I,
MUSM 488 – Recital Accompanying II+ . . . . . 8
**Conducting (Two credit hours)**
MUSC 471 – Choral Conducting . . . . . 2

**Area Studies (Six credit hours)**
MUSE 378 – Piano Pedagogy . . . . . 3
MUSH 581 – Literature of the Piano . . . . . 3

**Electives in Music (Five credit hours)****
MUSC, MUSE, MUSG, MUSH, MUSM, MUSP,
MUST, or MUSW . . . . . 5

**Electives (Three credit hours)**** . . . . . **3**
**Total . . . . . 53-56**
*+Enroll each semester in residence in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Students who are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*
*#MUSP 360 – Junior Recital requires a half-hour recital and MUSP 499C – Senior Recital requires an hour-long recital. Successful completion of MUSP 499C satisfies the integrative component in General Education curriculum as the capstone course for the BM degree and satisfies three credit hours of upper-division Private Applied. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*

## BM: Orchestral Strings

Orchestral string majors are required to enroll in and participate in all activities of the Orchestra.

**Private and Class Applied (29-32 credit hours)**
MUSP 2XX – Private Applied Area
(principal instrument course number)+ . . . . . 12
MUSP 4XX – Private Applied Area
(principal instrument course number)+ . . . . . 7
MUSM 200, 400 – Student Recital
(complete 8 semesters with a grade of K) . . . . . 0
MUSP 200, 400 – Performance Class+ . . . . . 0
MUSP 360 – Junior Recital# . . . . . 2
MUSP 499C – Senior Recital# . . . . . 0-3
MUSG 123 – Class Piano I,
MUSG 124 – Class Piano II,
MUSG 223 – Class Piano III,
MUSG 224 – Class Piano IV, and/or
MUSP 243/443 – Private Piano . . . . . 7
MUSG 239 – Class Voice (instrumental section) . . . . . 1

**Ensemble (Eight credit hours)**
MUSM 178 – String Ensemble, or
MUSM 179 – Orchestra+ . . . . . 4

MUSM 378 – String Ensemble, or
MUSM 379 – Orchestra+ . . . . . 4

**Conducting (Two credit hours)**
MUSC 472 – Instrumental Conducting . . . . . 2
**Electives in Music (Ten credit hours)**
MUSC, MUSE, MUSG, MUSH, MUSM, MUSP,
MUST, or MUSW . . . . . 10

**Electives (Four credit hours)** . . . . . 4

**Total . . . . . 53-56**

*+Enroll each semester in residence in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Students who are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*
*#MUSP 360 – Junior Recital requires a formal recital and MUSP 499C – Senior Recital requires a formal recital. Successful completion of MUSP 499C satisfies the integrative component in General Education curriculum as the capstone course for the BM degree and satisfies three credit hours of upper-division Private Applied. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*
***Credit hours must be at the upper-division level (300-level courses or above).*

## BM: Guitar

Guitar majors are required to enroll in and participate in all activities of the Guitar Ensemble.

**Private and Class Applied (29-32 credit hours)**
MUSP 435 – Private Classical Guitar+ . . . . . 7
MUSP 235 – Private Classical Guitar+ . . . . . 12
MUSP 200, 400 – Performance Class+ . . . . . 0
MUSM 200, 400 – Student Recital
(complete eight semesters with a grade of K) . . . . . 0
MUSP 360 – Junior Recital# . . . . . 2
MUSP 499C – Senior Recital# . . . . . 3
MUSG 123 – Class Piano I,
MUSG 124 – Class Piano II,
MUSG 223 – Class Piano III,
MUSG 224 – Class Piano IV, and/or
MUSP 243/443 – Private Piano . . . . . 7
MUSG 239 – Class Voice (instrumental section) . . . . . 1

**Ensemble (Eight credit hours)**
MUSM 184 – Guitar Ensemble+ . . . . . 4
MUSM 384 – Guitar Ensemble+ . . . . . 4

**Conducting (Two credit hours)**
MUSC 471 – Choral Conducting, or
MUSC 472 – Instrumental Conducting . . . . . 2

**Electives in Music (Ten credit hours)**
MUSC, MUSE, MUSG, MUSH, MUSM, MUSP,
MUST, or MUSW . . . . . 10

**Electives (Four credit hours)** . . . . . 4

**Total . . . . . 51-54**

*+Enroll each semester in residence in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Students that are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*
*#MUSP 360 – Junior Recital requires a formal recital and MUSP 499C – Senior Recital requires a formal recital. Successful completion of MUSP 499C satisfies the integrative component in General Education curriculum as the capstone course for the BM degree and satisfies three credit hours of upper-division Private Applied. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*
***Credit hours must be at the upper-division level (300-level courses or above).*

## BM: Jazz Studies

Jazz Studies majors are required to enroll in and participate in all activities of the Jazz and/or Guitar Ensembles (enrollment in a jazz ensembles is determined by audition).

**Private and Class Applied (25-28 credit hours)**
MUSP 2XX – Private Applied Area
(principal instrument course number)+ . . . . . 8
MUSP 4XX – Private Applied Area
(principal instrument course number)+ . . . . . 4
MUSP 200, 400 – Performance Class+ . . . . . 0
MUSM 200, 400 – Student Recital
(complete eight semesters with a grade of K) . . . . . 0
MUSP 360 – Junior Recital# . . . . . 2
MUSP 499C – Senior Recital# . . . . . 0-3
MUSG 245 – Jazz Keyboard I and
MUSG 246 – Jazz Keyboard II . . . . . 2
MUSG 123 – Class Piano I,
MUSG 124 – Class Piano II,

MUSG 223 – Class Piano III,
MUSG 224 – Class Piano IV,
MUSG 345 – Jazz Keyboard III, and/or
MUSG 346 – Jazz Keyboard IV
(Students with Piano as the Private Applied instrument take Jazz Keyboard III and IV) . . . . . 2
MUSG 183/383 – Studio Improvisation . . . . . 7

**Ensemble (Eight credit hours)**
MUSM 181 – Jazz Ensemble, or
MUSM 184 – Guitar Ensemble+ . . . . . 4
MUSM 381 – Jazz Ensemble, or
MUSM 384 – Guitar Ensemble+ . . . . . 4

**Conducting (Two credit hours)**
MUSC 473 – Rehearsal Techniques for Jazz Ensemble . . . . . 2

**History and Literature (Three credit hours)**
MUSH 365 – Jazz History and Literature . . . . . 3

**Arranging (Four credit hours)**
MUST 433 – Arranging for Jazz Ensembles I . . . . . 2
MUST 434 – Arranging for Jazz Ensembles II . . . . . 2

**Supportive Courses (Three-six credit hours)**
FIN 264 – Personal Finance* . . . . . 3
SOC 374 – American Minority Relations . . . . . 3

**Electives in Music (Six credit hours)****
MUSC, MUSE, MUSG, MUSH, MUSM, MUSP, MUST, or MUSW . . . . . 6

**Electives (Two credit hours)** . . . . . 2**

**Total . . . . . 51-57**

*+Enroll each semester in residence in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Students that are in residence for more than four full academic years are required to enroll for additional credit hours beyond those listed. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*
*#MUSP 360 – Junior Recital requires a formal recital and MUSP 499C – Senior Recital requires a formal recital. Successful completion of MUSP 499C satisfies the integrative component in General Education curriculum as the capstone course for the BM degree and satisfies 3 credit hours of upper-division Private Applied. The Senior Recital also requires an accompanying research paper and oral presentation covering the works and composers to be performed.*
**Denotes courses that also fulfill General Education requirements.*
***Credit hours must be at the upper-division level (300-level courses or above).*

## Bachelor of Arts in Music (BA in Music)
### Program Requirements

The Bachelor of Arts degree in Music provides for the study of music within a liberal arts curriculum. The program is suitable for preparing for careers in music other than performance and certified teaching in the schools.

BA music majors are required to enroll in and participate in all activities of the University Chorus, Concert Choir, Concert Band, Symphony Band, or Marching Band (enrollment in a concert band or choral ensemble is determined by audition).

**Private and Class Applied (18 credit hours)**
MUSP 2XX – Private Applied Area (principal instrument course number)+ . . . . . 8
MUSP 4XX – Private Applied Area (principal instrument course number)+ . . . . . 6
MUSP 200, 400 – Performance Class (principal instrument section number)+ . . . . . 0
MUSM 200, 400 – Student Recital (complete seven semesters with a grade of K) . . . . . 0
MUSG 123 – Class Piano I,
MUSG 124 – Class Piano II,
MUSG 223 – Class Piano III,
MUSG 224 – Class Piano IV, and/or
MUSP 243/443 – Private Piano . . . . . 4

**Ensembles (Four credit hours)**
MUSM 170/370 – Concert Band,
MUSM 171/371 – Symphony Band,
MUSM 172/372 – Marching Band,
MUSM 191/391 – University Chorus,
MUSM – 192/392 Concert Choir, or
MUSM 193/393 – Chamber Singers+ . . . . . 4

**Music Theory (16 credit hours)**
MUST 131 – Music Theory I . . . . . 3
MUST 132 – Music Theory II . . . . . 3
MUST 236 – Music Theory III . . . . . 2
MUST 237 – Music Theory IV . . . . . 2
MUST 133 – Music Reading I . . . . . 1
MUST 135 – Music Reading II . . . . . 2
MUST 233 – Music Reading III . . . . . 3

**Music History and Literature (Seven-10 credit hours)**
MUSH 161 – Literature of Music I . . . . . 2
MUSH 162 – Literature of Music II . . . . . 2
MUSH 361 – History of Music I* . . . . . 0-3
MUSH 362 – History of Music II* . . . . . 0-3

**Minor (21 credit hours)** . . . . . 21**

**Electives (14 credit hours)** ** . . . . . 14**

**Total . . . . . 80-83**

*+Enroll in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*

**Denotes courses that also fulfill General Education requirements.*

***Credit hours must be at the upper-division level (300-level courses or above)*

## Minor in Music
## Program Requirements

**Private Applied (Eight credit hours)**

MUSP 2XX – Private Applied Area
(principal instrument course number)+ . . . . . 8
MUSP 200, 400 – Performance Class
(principal instrument section number)+ . . . . . 0
MUSM 200, 400 – Student Recital
(complete seven semesters with a grade of K) . . . . . 0

**Ensembles (Four credit hours)**

MUSM 170/370 – Concert Band,
MUSM 171/371 – Symphony Band,
MUSM 172/372 – Marching Band,
MUSM 191/391 – University Chorus,
MUSM 192/392 – Concert Choir, or
MUSM 193/393 – Chamber Singers+, or . . . . . 4
MUSM 191/391 – University Chorus,
MUSM 192/392 – Concert Choir, or
MUSM 193/393 – Chamber Singers+, or . . . . . 4
MUSM 183/383 – Traditional Music Ensemble, or
MUSM 184/384 – Guitar Ensemble+, or . . . . . 4
MUSM 178/378 – String Ensemble, or
MUSM 179/379 – Orchestra+ . . . . . 4

**Class Applied (Two credit hours)**

MUSG 123 – Class Piano I,
MUSG 124 – Class Piano II,
MUSG 223 – Class Piano III
MUSG 224 – Class Piano IV . . . . . 2

**Music Theory (Nine credit hours)**

MUST 131 – Music Theory I . . . . . 3
MUST 132 – Music Theory II . . . . . 3
MUST 133 – Music Reading I . . . . . 1
MUST 135 – Music Reading II . . . . . 2

**Music History and Literature (Four credit hours)**

MUSH 161 – Music Literature I . . . . . 2
MUSH 162 – Music Literature II . . . . . 2

**Total . . . . . 27**

*+Enroll in the course appropriate to the results of the placement audition, Private Applied instrument area, and class standing. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*

## Minor in Traditional Music Studies
### Program Requirements

The Minor in Traditional Music Studies program renders to the University community an intellectual experience as related to the creative cultural interaction in Appalachia that has produced a wealth of distinctive styles of music. Of particular focus is the dynamic exchange between Celtic and other European aesthetics that have affected everything from the blues to Bluegrass music. The Traditional Music Studies program address issues of community, style, commercialism, and revival. Some of the regionally affected genres that are examined are: 1) string band music, 2) Bluegrass, 3) blues, 4) shape-note singing, and 5) gospel. No formal musical background is necessary for enrollment in this program.

**Private Applied (10 credit hours)**

MUSP 2XX – Private Applied Area . . . . . 10

**Ensembles (Four credit hours)**

MUSM 2XX/4XX – Ensembles . . . . . 4

**Music Theory (Four credit hours)**

MUST 103 – Practical Theory for Traditional Music . . . 2
MUST 104 – Traditional Vocal Harmony . . . . . 2

**Music History and Literature (Three credit hours)**

MUSH 261 – Music Listening
(Folk and Country Music section) . . . . . 3

**Total . . . . . 21**

## Music Teachers National Association
## Program Requirements

In order to provide specialized musical instruction to individuals pursuing a career as full- or part-time studio teachers, MSU offers course work leading to the Music Teachers National Association (MTNA) Certificate at two levels: Associate and Professional. By offering courses in this curriculum, MSU endorses and supports a major MTNA mandate "that professional studio teaching is a worthwhile career, and as such, deserves to be accountable by a regulatory agency."

After completing the program, the candidate must present a teaching and performing demonstration before a jury chosen by the MTNA National Certificate chairperson. This program leads to

MTNA professional certification. No credential is granted by MSU.

### MTNA Associate Certificate

| | |
|---|---|
| MUSP 2XX/4XX – Private Applied Area+ | 12 |
| MUST 131 – Music Theory I | 3 |
| MUST 132 – Music Theory II | 3 |
| MUST 133 – Music Reading I | 1 |
| MUST 135 – Music Reading II | 2 |
| MUSH 161 – Literature of Music I | 2 |
| MUSH 162 – Literature of Music II | 2 |
| MUSE 378 – Piano Pedagogy | 2 |
| MUST 476 – Special Problems in Music | 2 |
| **Total** | **29** |

*+Enroll in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*

### MTNA Professional Certificate

| | |
|---|---|
| MUSP 2XX/4XX – Private Applied Area+ | 24 |
| MUST 131 – Music Theory I | 3 |
| MUST 132 – Music Theory II | 3 |
| MUST 236 – Music Theory III | 2 |
| MUST 237 – Music Theory IV | 2 |
| MUST 133 – Music Reading I | 1 |
| MUST 135 – Music Reading II | 2 |
| MUST 233 – Music Reading III | 3 |
| MUSH 161 – Literature of Music I | 2 |
| MUSH 162 – Literature of Music II | 2 |
| MUSH 361 – History of Music I | 3 |
| MUSH 362 – History of Music II | 3 |
| MUSE 378 – Piano Pedagogy | 2 |
| MUST 476 – Special Problems in Music | 2 |
| **Total** | **54** |

*+Enroll in the course appropriate to the results of the placement audition, Private Applied instrument area, upper-division assessment and class standing. Private Applied in the principal instrument requires a performance examination before a jury of faculty members in their principal applied area at the end of each semester.*

## Department of Sociology, Social Work, & Criminology

Robert Bylund, Interim Chair
347 Rader Hall
(606) 783-2656

## Social Work

### Faculty

M. Abdel-Meguid, E. Bishop, C. Faulkner, S. Faulkner, L. Hesterberg, M. Just, N. Preston, S. Rolland (Director), M. Seelig, J. Stafford, E. Swank

### Program Competencies

The purpose of the social work program competencies is to guide student development as beginning professional social workers in generalist practice, from knowledge acquisition, comprehension and application of knowledge, to analysis, synthesis, and evaluation of generalist social work practice.

**Students will:**

1. Apply critical thinking skills within the context of professional social work practice.
2. Understand the value base of the profession and its ethical standards and principles, and practice accordingly.
3. Practice without discrimination and with respect, knowledge, and skills related to clients' age, class, color, culture, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, and sexual orientation.
4. Understand the forms and mechanisms of oppression and discrimination and apply strategies of advocacy and social change that advance social and economic justice.
5. Understand and interpret the history of the social work profession and its contemporary structures and issues.
6. Apply the knowledge and skills of generalist social work practice with systems of all sizes.
7. Use theoretical frameworks supported by empirical evidence to understand individual development and behavior across the life span and the interactions among individuals and between individuals and families, groups, organizations, and communities.
8. Analyze, formulate, and influence social policies.
9. Evaluate research studies, apply research findings to practice, and evaluate their own practice interventions.
10. Use communication skills differentially across client populations, colleagues, and communities.
11. Use supervision and consultation appropriate to social work practice.
12. Function within the structure of organizations and service delivery systems and seek necessary organizational change.

## Assessment Procedures

Surveys of graduates
Employer Survey

## Bachelor of Social Work (BSW)

Social work is a human service profession that assists the needs of society in several areas, including gerontology, health care, mental retardation, child welfare, correctional rehabilitation, mental health, income maintenance, home health, hospice, domestic violence, homelessness, and alcoholism/substance abuse. The BSW Program is fully accredited by the Council on Social Work Education and prepares students as generalist practitioners for entry-level professional practice with individuals, marital couples, families, small groups, organizations, practitioners, and entire communities.

## Admission Requirements and Procedures

The BSW Program has a selective admission procedure. Enrollment in the program is limited.

## Application Procedure

1. Be unconditionally admitted to MSU through the University's Office of Admissions.
2. Declare social work as an area of concentration.
   a. Meet with assigned faculty advisor.
   b. While enrolled in SWK 320 and 324, obtain and complete the application and checksheet and obtain two references: one from a social work faculty member other than the student's advisor, and one from a non-social work faculty member.
   c. File the application, transcript, checksheet, and autobiographical sketch with advisor one week prior to the interview with the faculty advisor.
3. Social Work Faculty Committee will meet to discuss each application, after all material has been handed in and the screen-in interview with the advisor is completed.

## Admission Criteria

The BSW Program has a limited enrollment. Applicants to the BSW Program are selected based upon the following criteria:

1. Completion of 64 credit hours of the required pre-social work courses as listed on the curriculum sequence;
2. Completion of, or enrollment in SWK 210 – Orientation to Social Work, SWK 230 – Social Welfare History and Ethics, SWK 320 – Human Behavior in the Social Environment, Conception to Young Adulthood, and SWK 324 – Social Work Research; and
3. Achievement of an overall GPA of 2.5 and grade of "C" or above in all Social Work Core courses.

## Program Requirements

BIOL 105 – Introduction to Biological Sciences, or
BIOL 155 – Introduction to Environmental Science . . . 3
ENG 390 – Professional Writing . . . . . 3
GOVT 141 – United States Government, or HIS 202, or
HIS 220 . . . . . 3
GOVT 322 – Courts and Civil Liberties, or
SWK 345 – Law and Social Work . . . . . 3
MATH 123, or higher . . . . . 3
PHIL 200 – Introduction to Philosophy, or
PHIL 203 – Social Ethics . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
PSY 300 or above . . . . . 3
SOC 101 – General Sociology . . . . . 3
SOC 203 – Contemporary Social Problems . . . . . 3
SOC 374 – American Minority Relations . . . . . 3
SWK 210 – Orientation to Social Work . . . . . 4
SWK 230 – Social Welfare History and Ethics . . . . . 3
SWK 320 – Human Behavior in the Social Environment-Conception to Young Adulthood . . . . . 3
SWK 321 – Human Behavior in the Social Environment-Middle Adulthood to Death . . . . . 3
SWK 324 – Social Work Research . . . . . 3
SWK 325 – Generalist Social Work Practice . . . . . 3
SWK 424 – Social Work Micro Practice . . . . . 3
SWK 426 – Social Work Mezzo Skills . . . . . 3
SWK 430 – Social Policy and Planning . . . . . 3
SWK 451 – Social Science Data Analysis . . . . . 3
SWK 497 – Practicum in Social Work . . . . . 8
SWK 498 – Social Work Macro Practice . . . . . 3
SWK 499C – Senior Seminar . . . . . 1
Social Work Electives (only courses taught by someone with SWK degree will be accepted) . . . . . 6
General Electives . . . . . 11

## Recommended Course Sequence

### Freshman Year

**First Semester**
ENG 100 – Writing I . . . . . 3
*PSY 154 – Introduction to Psychology . . . . . 3
*SOC 101 – General Sociology . . . . . 3
Practical Living Course . . . . . 3
Natural & Mathematical Science Course . . . . . 3
MSU 101 – Discovering University Life . . . . . 1
**Semester Total . . . . . 16**

**Second Semester**
*BIOL 105 – Introduction to Biological Sciences, or
BIOL 155 – Introduction to Environmental Science . . . . . 3
CIS 101 – Computers for Learning . . . . . 3
GOVT 141 – United States Government, or
HIS 202 - American Studies. . . . . 3
MATH 123 – Introduction to Statistics or higher . . . . . 3
PHIL 200 – Introduction to Philosophy, or
PHIL 203 – Social Ethics . . . . . 3
**Semester Total . . . . . 15**

### Sophomore Year

**First Semester**
ENG 200 – Writing II . . . . . 3

SOC 203 – Contemporary Social Problems . . . . . 3
**SWK 210 – Orientation to Social Work . . . . . 4
General Education (Humanities) . . . . . 3
General Electives . . . . . 3
**Semester Total . . . . . 16**

**Second Semester**
CMSP 108 – Fundamentals of Speech Communication . . . . . 3
SOC 374 – American Minority Relations . . . . . 3
**SWK 230 – Social Welfare History and Ethics . . . . . 3
Natural & Mathematical Science . . . . . 3
General Education (Humanities) . . . . . 3
General Electives . . . . . 3
**Semester Total . . . . . 18**

**Junior Year**

**First Semester**
PSY 300 or higher . . . . . 3
GOVT 322 – Courts and Civil Liberties, or
SWK 345 - Law and Social Work . . . . . 3
**SWK 320 – Human Behavior in the Social Environment-Conception to Young Adulthood . . . . . 3
**SWK 324 – Social Work Research . . . . . 3
General Electives . . . . . 6
**Semester Total . . . . . 18**

**Second Semester**
ENG 390 – Professional Writing . . . . . 3
**SWK 321 – Human Behavior in the Social Environment-Middle Adulthood to Death . . . . . 3
**SWK 325 – Generalist Social Work Practice . . . . . 3
**SWK 451 – Social Science Data Analysis . . . . . 3
General Elective . . . . . 3
Social Work Electives . . . . . 3
**Semester Total . . . . . 18**

**Senior Year**

**First Semester**
**SWK 424 – Social Work Micro Practice . . . . . 3
**SWK 426 – Social Work Mezzo Skills . . . . . 3
**SWK 430 – Social Policy and Planning . . . . . 3
SWK Electives . . . . . 3
General Electives . . . . . 4
**Semester Total . . . . . 16**

**Second Semester**
**SWK 497 – Practicum in Social Work . . . . . 8
**SWK 498 – Social Work Macro Practice . . . . . 3
**SWK 499C – Senior Seminar . . . . . 1
**Semester Total . . . . . 12**
**Total for Degree . . . . . 128**

**Denotes Specific General Education Requirements mandated for BSW Students.*

***Denotes Core Social Work Course requiring a grade of "C" or higher.*

## Certification in Public Child Welfare

All BSW students are trained in the generalist approach, but if students select their electives carefully and are admitted into the PCWCP, they can also earn Certification in Public Child Welfare. This is a statewide certification created in collaboration with eight other universities and the Commonwealth Cabinet for Families and Children.

## Public Child Welfare Certification Program

SWK 345 - Law and Social Work
SWK 358 – Child Abuse and Neglect
SWK 458 – Child Abuse and Neglect Practice Skills
SWK 497 – Practicum in Social Work (must be done in Community Based Service Office-Protective Services)

## Emphasis in Regional Analysis

If a BSW student is interested in macro policy and planning, in addition to the BSW the student may select an emphasis in IRAPP (Institute for Regional Analysis and Public Policy). Acceptance into IRAPP requires a minimum ACT composite of 20.

## Social Work-Regional Analysis Program

The Institute for Regional Analysis & Public Policy, MSU's Program of Distinction, offers a core of courses (18 hours) in regional analysis that can be combined with the Social Work Program.

## Program Competencies

**Students will:**

1. Apply critical thinking skills within the context of professional social work practice.
2. Understand the value base of the profession and its ethical standards and principles, and practice accordingly.
3. Practice without discrimination and with respect, knowledge, and skills related to clients' age, class, color, culture, disability, ethnicity, family structure, gender, martial status, national origin, race, religion, sex, and sexual orientation.
4. Understand the forms and mechanisms of oppression and discrimination and apply strategies of advocacy and social change that advance social and economic justice.
5. Understand and interpret the history of the social work profession and its contemporary structures and issues.
6. Apply the knowledge and skills of generalist social work practice with systems of all sizes.
7. Use theoretical frameworks supported by empirical evidence to understand individual development and behavior across the life span and the interactions among individuals and between individuals and families, groups, organizations, and communities.
8. Analyze, formulate, and influence social policies.
9. Evaluate research studies, apply research findings to practice, and evaluate their own practice interventions.

10. Use communication skills differentially across client populations, colleagues, and communities.
11. Use supervision and consultation appropriate to social work practice.
12. Function within the structure of organizations and service delivery systems and seek necessary organizational change.

### Assessment Procedures

Surveys of graduates

### Program Requirements

ENG 390 – Professional Writing . . . . . 3
GOVT 322 – Courts and Civil Liberties . . . . . 3
PSY 300 or higher . . . . . 3
RAPP 201 – Society, Nature, & Development . . . . . 3
RAPP 202 – Basic Computer Tech in Regional Analysis 3
RAPP 300 – Seminar in Regional Issues I . . . . . 3
RAPP 350 – Practicing Regional Analysis I . . . . . 3
RAPP 490 – Seminar in Regional Issues II . . . . . 3
SOC 101 – General Sociology . . . . . 3
SOC 203 – Contemporary Social Problems . . . . . 3
SOC 374 – American Minority Relations . . . . . 3
SOC 560 – Appalachian Culture . . . . . 3
SWK 210 – Orientation to Social Work . . . . . 4
SWK 230 – Social Welfare History and Ethics . . . . . 3
SWK 320 – Human Behavior in the Social Environment-Conception to Young Adulthood . . . . . 3
SWK 321 – Human Behavior in the Social Environment-Middle Adulthood to Death . . . . . 3
SWK 324 – Social Work Research . . . . . 3
SWK 325 – Generalist Social Work Practice . . . . . 3
SWK 424 – Social Work Micro Practice . . . . . 3
SWK 426 – Social Work Mezzo Skills . . . . . 3
SWK 430 – Social Policy and Planning . . . . . 3
SWK 451 – Social Science Data Analysis . . . . . 3
SWK 497 – Practicum in Social Work . . . . . 8
SWK 498 – Social Work Macro Practice . . . . . 3
SWK 499C – Senior Seminar . . . . . 1
Social Work Electives (only courses taught by someone with SWK degree will be accepted) . . . . . 6

### Supplemental Requirements

ECON 401 – Environmental Economics, or
GEO 349 – Introduction to CIS/Cartography I . . . . . 3
GOVT 324 – Environmental Law and Policy . . . . . 3

### Minor

The Minor in Social Work provides majors in related fields an understanding of the social work profession, an introduction to basic practice skills, and an opportunity to gain actual experience in a field setting. Students must earn a "C" or higher in all of the courses listed in order to earn a Minor in Social Work.

SWK 210 – Orientation to Social Work . . . . . 4
SWK 230 – Social Welfare History and Ethics . . . . . 3
SWK 310 – Field Experience in Social Work . . . . . 3
SWK 333 – Beginning Skills for Human Service Professionals, or
SWK 360 – Crisis Intervention . . . . . 3
SWK Electives . . . . . 9

## Sociology & Criminology

### Faculty

B. Barton, E. Breschel, R. Bylund, R. Hall, C. Hardesty, R. Katz, S. Nash, C. Phillips, E. Reeves (IRAPP), D. Rudy (IRAPP), P. Steele (IRAPP), S. Tallichet

### Program Competencies

**Students will develop:**

1. A working knowledge of the general concepts of sociological analysis, including exposure to selected substantive areas of sociology.
2. Skills in sociological research, including research design, data analysis, report writing, and computer literacy.
3. Reasoning skills and writing abilities so that they can apply sociological principles to their occupational roles.
4. The ability to understand themselves and their society from a general liberal arts tradition.

### Assessment Procedures

Exit examination required of all majors
Survey of graduates
Senior seminar

The sociology program provides students with broad critical and analytical skills that can be applied on the individual, organizational, and societal levels. Combined with other skills and courses, a sociology major can prepare for careers in human service, planning, personnel, public relations, college teaching, and more.

Sociology majors seeking teacher certification must also complete a teaching minor. See "Teacher Education Program" and "Professional Experiences" requirements.

### Program Standards

Students must earn a grade of "C" or higher in all required core courses in the Sociology, Sociology with an Area of Concentration in Criminology, and Sociology with an Emphasis in Criminology majors and in the Sociology and Criminology minors.

In order to successfully complete the Sociology and Sociology (Criminology) majors as well as the Sociology and Criminology minors students must earn a cumulative GPA of 2.25 in all courses included in these respective programs.

## Bachelor of Arts in Sociology
## Major in Sociology

SOC 101 – General Sociology . . . . . 3
SOC 305 – Cultural Anthropology . . . . . 3
Choose two of the following: SOC 300, SOC 350, SOC 374 . . . . . 6
SOC 405 – Sociological Theory . . . . . 3
SOC 450 – Research Methodology . . . . . 3
SOC 451 – Social Science Data Analysis . . . . . 3
SOC 499C – Senior Seminar . . . . . 3
SOC – electives of which nine hours must be at the 300 level or above . . . . . 12
**Total Hours . . . . . 36**

## Minor in Sociology

SOC 101 – General Sociology . . . . . 3
SOC 203 – Contemporary Social Problems . . . . . 3
SOC 405 – Sociological Theory . . . . . 3
SOC 450 – Research Methodology . . . . . 3
SOC – electives 300 level or above . . . . . 12
**Total Hours . . . . . 24**

## Sociology with an Area of Concentration in Criminology
## Program Competencies

**Students will develop:**

1. Knowledge of the criminal justice system, basic skills in working with the offenders, familiarity with more complex theoretical explanations of crime and delinquency, the ability to read and understand criminological research methods and findings of such research, and to understand the effects of social institutions, social policies and social and economic inequality on crime and criminal justice. International crime will also be introduced to students.
2. A working knowledge of the general concepts of sociological analysis, including exposure to selected substantive areas of sociology.
3. Skills in sociological research and reasoning, including research design, data analysis, report writing, and computer literacy.
4. Reading skills and writing abilities so that they can apply sociological principles to criminal justice roles and explanations of criminal behavior.
5. Applied skills through practicum experiences.

The Criminology Program, including Sociology with a Criminology concentration, prepares students for a wide range of career opportunities in local, state, and federal criminal justice agencies. Specific examples include correctional officer, probation and parole officer, counselor, case manager, police officer, youth officer, and others.

## Program Requirements

CRIM/SOC 210 – The Sociology of Deviance . . . . . 3
CRIM 250 – Introduction to the Criminal Justice System . . . . . 3
CRIM 300 – The Criminogenic Family . . . . . 3

CRIM/SOC 306 – Juvenile Delinquency, or
CRIM/SOC 401 – Criminology . . . . . 3
CRIM 380 – Race, Class, Gender, and Crime . . . . . 3
CRIM 490 – Practicum in Criminology (Prerequisite nine hours of Criminology) . . . . . 5
CRIM 491 – Senior Seminar (to be taken with CRIM 490) . . . . . 1
CRIM 499C – Senior Criminology Capstone . . . . . 3
*(Prerequisites for 499C include CRIM 306 or CRIM 401, SOC 450, SOC 451, six additional hours of Criminology, and senior standing or consent of instructor.)*
CRIM 516 – Working With Offenders . . . . . 3
SOC 101 – General Sociology . . . . . 3
SOC 405 – Sociological Theory . . . . . 3
SOC 450 – Research Methodology . . . . . 3
SOC 451 – Social Science Data Analysis . . . . . 3
**Required Hours . . . . . 39**
**Elective Hours . . . . . 9**
**Total Hours . . . . . 48**

*Criminology Electives (select three courses from any of the following):*

CRIM/SOC 315 – White Collar Crime . . . . . 3
CRIM/SOC 388 – Sociology of Punishment . . . . . 3
CRIM 388 – Sociology of Punishment . . . . . 3
CRIM/SOC 333 – Sociology of Gender Violence . . . . . 3
CRIM/SOC 561 – Sociology of the Law . . . . . 3
CRIM 345 – Correctional Institutions . . . . . 3

## Sociology with an Emphasis in Criminology
## Program Competencies

**Students will develop:**

1. A working knowledge of the general concepts of sociological analysis, including exposure to selected substantive areas of sociology.
2. Skills in sociological research and reasoning including research design, data analysis, report writing, and computer literacy.
3. Knowledge of the criminal justice system, familiarity with theoretical explanations of crime and delinquency, the ability to read and be familiar with theoretical explanations of crime and delinquency, to read and understand criminological research methods and findings of such research, and to understand the effects of social institutions, social policies and social and economic inequality on crime and criminal justice. International crime will also be introduced to students.

4. Reading skills and writing abilities so that they can apply sociological principles to criminal justice roles and explanations of criminal behavior.
5. Applied skills through practicum experiences.

### Program Requirements

CRIM/SOC 210 – The Sociology of Deviance . . . . . 3
CRIM 250 – Introduction to the Criminal Justice System . . . . . 3
CRIM 300 – The Criminogenic Family . . . . . 3
CRIM 380 – Race, Class, Gender and Crime . . . . . 3
CRIM/SOC 401 – Criminology or
CRIM/SOC 306 – Juvenile Delinquency . . . . . 3
CRIM 490 – Practicum in Criminology (Prerequisite nine hours of Criminology) . . . . . 5
CRIM 491 – Senior Seminar (to be taken with CRIM 490) . . . . . 1
CRIM 499C – Senior Criminology Capstone . . . . . 3
*(Prerequisites for 499C include CRIM 306 or CRIM 401, SOC 450, SOC 451, six additional hours of Criminology and senior standing or consent of instructor)*
SOC 101 – General Sociology . . . . . 3
SOC 405 – Sociological Theory . . . . . 3
SOC 450 – Research Methodology . . . . . 3
SOC 451 – Social Science Data Analysis . . . . . 3
**Required Hours . . . . . 36**
**Elective Hours . . . . . 3**
**Total Hours . . . . . 39**

*Criminology Electives (select one from any of the following courses):*

CRIM/SOC 315 – White Collar Crime . . . . . 3
CRIM/SOC 388 – Sociology of Punishment . . . . . 3
CRIM/SOC 333 – Sociology of Gender Violence . . . . . 3
CRIM 516 – Working with Offenders . . . . . 3
CRIM/SOC 561 – Sociology of the Law . . . . . 3

### Minor in Criminology

CRIM/SOC 210 – The Sociology of Deviance . . . . . 3
CRIM 250 – Introduction to the Criminal Justice System . . . . . 3
CRIM/SOC 306 – Juvenile Delinquency, or
CRIM/SOC 401 – Criminology . . . . . 3
Advanced electives for minor . . . . . 15
**Total Hours . . . . . 24**

### Sociology-Regional Analysis Emphasis Program Program Competencies

**Students will:**

1. Develop a working knowledge of the general concepts of sociological analysis, including exposure to selected substantive areas of Sociology.
2. Learn skills in sociological research including research design, data analysis, report writing, and computer literacy.
3. Establish reasoning skills and writing abilities so that they can apply sociological principles to their occupational roles.
4. Develop the ability to understand themselves and their society from a general liberal tradition.
5. Develop applied skills through practicum experiences.
6. Have the ability to carry out studies in their areas of expertise that include a significant analysis of regional resources and issues.
7. Possess the ability to present research and policy reports that are comprehensible to audiences of various public policymakers.
8. Demonstrate the ability to interpret the output of regional resource analysis and their potential uses in formulating public policy.

### Program Requirements

RAPP 201 – Society, Nature, & Development . . . . . 3
RAPP 202 – Basic Computer Tech in Regional Analysis 3
RAPP 300 – Seminar in Regional Issues I . . . . . 3
RAPP 350 – Practicing Regional Analysis I . . . . . 3
RAPP 450 – Practicing Regional Analysis II . . . . . 3
RAPP 490 – Seminar in Regional Issues II . . . . . 3
SOC 101 – General Sociology . . . . . 3
SOC 300 – Social Stratification . . . . . 3
SOC 305 – Cultural Anthropology . . . . . 3
SOC 350 – The Human Experience of Sex and Gender, or
SOC 374 – American Minority Relations . . . . . 3
SOC 405 – Sociological Theory . . . . . 3
SOC 450 – Research Methodology . . . . . 3
SOC 451 – Social Science Data Analysis . . . . . 3
SOC 499C – Senior Seminar . . . . . 3
SOC – electives of which nine hours must be on the 300 level or above . . . . . 6
**Total Hours . . . . . 48**

**Supplemental Requirements**

ECON 401 – Environmental Economics, or
GEO 349 – Introduction to GIS/Cartography I . . . . . 3
GOVT 324 – Environmental Law and Policy . . . . . 3

## Interdisciplinary Programs

The purpose of the Women's Studies Minor is to provide students with an understanding of how gender, particularly in terms of women, is constructed and employed in educational, historical, aesthetic, sociological, and political contexts. The intention is to equip students with the knowledge and analytical abilities needed to recognize and transform gender inequality in their own lives and in the world at large.

## Interdisciplinary Women's Studies Minor

Sylvia Henneberg, Coordinator
CB 421B
(606) 783-5288

### Program Competencies

**The purpose of the program is:**

1. To inform students of the diversity of women's contributions across academic disciplines in a multicultural and global society.
2. To increase students' knowledge of the varied contributions of women throughout history.
3. To challenge students to use a variety of critical thinking and problem solving skills to recognize and contend with gender inequality at the individual and social level.
4. To expand students' knowledge, skills, and consciousness regarding their choices in families, politics, work, and leisure.

### Required Courses

WST 273 – Introduction to Women's Studies . . . . . 3
WST 490 – Integrative Capstone in Women's Studies . . 3

### Electives

Additional courses cross listed in Women's Studies . . . . . 15

Some courses currently approved to be cross listed in the minor are:

WST 120/ENG 120 – Approaches to Literature
WST 210/GOVT 180 – Introduction to Political Theory
WST/SWK 230 – Social Welfare, History, and Ethics
WST 302/CRIM 300 – Criminogenic Family
WST 303/SWK 301 – Comparative Family Violence
WST/SOC 305 – Cultural Anthropology
WST/HIS 312 – Women in American History
WST/GOVT 317 – Feminist Political Thought
WST/ENG 320 – Women Writers and Feminist Perspectives
WST/EDF 322 – Gender and Education
WST/SOC 333 – Sociology of Gender Violence
WST/SOC 335 – The Family
WST/SWK 340 – Community Mental Health
WST/SOC 350 – Human Experience of Sex and Gender
WST/PHIL 351– Philosophy of Love and Sex
WST/SOC 354 – The Individual and Society
WST/GOVT 355 – Women and Politics
WST/SOC 363 – Cross Cultural Perspectives on the Sex Industry
WST/SOC 374 – American Minority Relations
WST 375/HIS 374 – History of the Middle East
WST/HIS 377 – 20th Century Asian Wars
WST/CRIM 380 – Race, Class, Gender & Crime
WST 397/SOC 300 – Social Stratification
WST/HS 457 – Parenting
WST 474/NAHS 303 – Women's Health Care
WST/CMEM 550 – Problems in Contemporary Broadcasting
WST/COMM 582 – American Popular Culture & Com. Tech.

New courses and special topics will be approved for cross listing on an individual basis.

For additional information on the Interdisciplinary Women's Studies Program (IWSP), contact the IWSP Coordinator at (606) 783-5288. You may also contact or visit the Women's Studies Office at 204 Rader Hall, Morehead, KY 40351 or by telephone at (606) 783-5414.

## Interdisciplinary International Studies Minor

Robert Frank, Director
BR 003B
(606) 783-9369

The purpose of the International Studies (IST) minor is to provide students with an understanding of the complex relationships that exist in the world today between nation-states and non-governmental organizations. The IST minor will allow students to investigate international issues through an interdisciplinary approach in which they will combine theory with practice. Students may select courses that will provide them with a concentration in a specific nation (i.e., German, Canadian, or Chinese studies) or in a region/continent (i.e., Southeast Asian, South American, or sub-Saharan African). Students may also choose a general approach to international studies. The intention is to equip students to live and work in a world with understanding and respect of other peoples.

### Program Competencies

**Upon completion of this program the students will:**

1. Demonstrate elementary competence in at least one modern language beyond their native tongue.
2. Develop an international context that will develop their personal and professional lives.
3. Develop appreciation for the culture and civilization of other countries.
4. Explain the implications of international issues to their major and/or profession.
5. Navigate successfully in a foreign country.

The senior seminar class will provide the opportunity to analyze and synthesize material from the program.

The IST minor requires 22 hours. These hours are distributed in the following way:

**Required Courses**

IST 101 – Introduction to International Studies . . . . . 3
IST 301 – International Studies Study Abroad . . . . . 1
IST 401 – Seminar in International Studies . . . . . 3

**Electives**

Additional courses cross listed in International Studies . . . . . 9

*Courses currently approved to be cross-listed in the minor include:*

IST/HIS 201 – Global Studies . . . . . 3
IST/AGR 204 – World Food . . . . . 3
IST/FRN 205 – French Culture and Civilization . . . . . 3
IST 206/FRN 206 - Business French . . . . . 3
IST/ENG 211– Introduction to World Literature I. . . . . 3
IST/ENG 212 – Introduction to World Literature II . . . . 3
IST/REL 221 – World Religions I . . . . . 3
IST/REL 222 – World Religions II . . . . . 3
IST 241/GEO 241 - United States and Canada . . . . . 3
IST/ART 263 – Art History I . . . . . 3
IST/ART 264 – Art History II . . . . . 3
IST/ART 265 – Art History III. . . . . 3
IST/GEO 300 – World Geography . . . . . 3
IST 302/GOVT 331 – Politics of the Middle East and North Africa . . . . . 3
IST 303/GOVT 332 – Politics of Latin America and the Caribbean . . . . . 3
IST 304/GOVT 333 – Politics of Sub-Saharan Africa. . . 3
IST/SOC 305 – Cultural Anthropology . . . . . 3
IST 306/GOVT 364 – International Relations. . . . . 3
IST 307/GOVT 367 – Politics of Intern Econ Relations . 3
IST/GEO 310 – Australia. . . . . 3
IST/GEO 311 – Geography of the Global Economy. . . . 3
IST 321/PHIL 320 – Eastern Philosophy. . . . . 3
IST 324/GEO 370 – Geography of World Religions. . . . 3
IST/ENG 325 – Religious Literature of the World . . . . . 3
IST/GEO 328 – Africa . . . . . 3
IST/GOVT 329 – North Amer Politics: US & Canada . . 3
IST 330 – Perspectives on Canada. . . . . 3
IST 331/HIS 336 – History of Canada. . . . . 3
IST 332 – First Nations of Canada . . . . . 3
IST 333 – Govt & Politics of Britian and Canada. . . . . 3
IST 334/GOVT 303 – Comp Const Law & Politics. . . . 3
IST 335 – Political Econ & Envir Policy in Canada . . . . 3
IST 336 – Politics of the North American Auto Industry 3
IST/GOVT 337 – Politics of Asia . . . . . 3
IST 338/GOVT 334 – Russia and East European Govt. . 3
IST 340/SPAN 304 – Spanish Culture and Civilization . 3
IST 341/SPAN 306 – Latin American Cult & Civil . . . . 3
IST/NAHS 345 – Global Health . . . . . 3
IST/CMSP 350 – Comm, Culture, & Diversity . . . . . 3
IST/HIS 351 – England to 1688. . . . . 3
IST/HIS 352 – England since 1688 . . . . . 3
IST/HIS 353 – Russia to 1917 . . . . . 3
IST/HIS 354 – Russia since 1917 . . . . . 3
IST/HIS 355 – Modern Germany. . . . . 3
IST/HIS 358 – Revolutionary Europe . . . . . 3
IST/HIS 359 – Nineteenth Century Europe. . . . . 3
IST/GOVT 360 – United Nations and World Organ . . . 3
IST/HIS 361 – Twentieth Century Europe. . . . . 3
IST/GOVT 362 – Current World Problems . . . . . 3
IST/GOVT 368 – Human Rights and Global Justice . . . 3
IST/HIS 370 – African History . . . . . 3
IST/HIS 371 – Traditional China. . . . . 3
IST/HIS 372 – Modern China . . . . . 3
IST/HIS 373 – Japanese Civilization. . . . . 3
IST/HIS 374 – The Middle East . . . . . 3
IST/HIS 379 – Latin American History. . . . . 3
IST/GEO 383 – Asia . . . . . 3
IST 399 – Selected Topics in International Studies. . . . . 3
IST/MNGT 409 – International Management . . . . . 3
IST 430 – Canadian Parliament Internship . . . . . 3
IST/ECON 447 – International Economics . . . . . 3
IST/MKT 469 – International Marketing . . . . . 3
IST/ART 481 – German Art of the 20th Century . . . . . 3
IST/ART 482 – Contemporary World Art . . . . . 3
Special topics will be approved for cross listing on an ind ividual basis.

**Foreign Language Competency . . . . . 6**

Six hours of study in one foreign language or its equivalent as approved by the Associate Dean for International Education.

*For additional information on the interdisciplinary minor in International Studies, contact the Coordinator at (606) 783-2134.*

## Study Abroad

Morehead State University offers undergraduate students a variety of study abroad opportunities in various countries around the world. The majority of these programs grant academic credit upon successful completion of the program. For any study abroad program that awards academic credit, the student may apply for any student loans or grants for which they would normally be eligible.

As a member of the Cooperative Center for Study Abroad consortium, the University is able to send faculty and students to England, Scotland, Ireland, New Zealand, Australia, Barbados, and Kenya for educational offerings in a variety of subject areas. Programs are scheduled during the December/January interim, summer sessions or the spring semester. Internships are also available each spring in Dublin and London. Students can earn from three to six credit hours depending upon the length of the program in which they are enrolled.

MSU is a participant in the Kentucky Institute for International Studies, a consortium allowing University faculty and students to travel to study centers around the world, including France, Austria, Italy, Greece, Spain, Brazil, Cameroon, China, Costa Rica, Denmark, Ecuador, Germany, Japan, Mexico, Thailand, Myanmar (Burma), and Turkey. Courses are offered during the summer sessions and focus on languages, the humanities, social sciences, business, education, and environmental sciences. Full semester programs are also available in Germany, France, Mexico, and Spain.

The newest consortium to which Morehead State University belongs is the Magellan Exchange. While focusing in the past on business courses, the Exchange has begun to broaden its offerings. Students participate in semester or year-long exchanges in

European member institutions. Paying tuition to Morehead State University, US students take courses offered in English. Countries included in the Magellan Exchange are Germany, France, Belgium, The Netherlands, Finland, Spain, and Austria. Opportunities to have Internships while attending classes are also available.

Additional information about any study abroad opportunity may be obtained by accessing the international education Web page (www.moreheadstate.edu/oie), contacting the Director of International Education, 330 Allie Young, Morehead State University, Morehead, KY 40351 or by calling (606) 783-2096.

## International Studies Minor
## Canadian Studies Emphasis

**Required Courses . . . . . 13**
FRN 101 – Beginning French I . . . . . 3
FRN 102 – Beginning French II . . . . . 3
IST 101 – Introduction to International Studies . . . . . 3
IST 301 – Study Abroad-Internship . . . . . 1
IST 401 – Senior Seminar . . . . . 3

*Note: Canadian-related studies may include IST 301 for a two week period of study in Canada and IST 401 for a Canada-related seminar subject in comparative and international perspective.*

**Canadian Studies Required Courses . . . . . 3**
IST 330 – Perspectives on Canada . . . . . 3

**Canadian Studies Electives . . . . . 6**
IST 231 – Geography of the United States and Canada
IST 329 – North American Politics: United States and Canada
IST 331 – History of Canada
IST 332 – First Nations of Canada
IST 333 – Government and Politics of Britain and Canada
IST 334 – Comparative Constitutional Law and Politics
IST 335 – Political Economy and Environmental Policy in Canada
IST 336 – Politics of the North American Auto Industry
IST 339 – Selected Topics in Canadian Studies

**Study in Canada Elective . . . . . 3**
IST 430 – Canadian Parliament Internship Program

**Total . . . . . 22**

# College of Science & Technology

## College of Science & Technology at a Glance

**Gerald DeMoss, Dean**
246 Reed Hall
(606) 783-2023
E-mail: g.demoss@moreheadstate.edu

**Department of Agricultural & Human Sciences**
BS - Agricultural Science with options
AAS - Agricultural Technology with options
Pre-Forestry
Pre-Veterinary Medicine
AAS - Veterinary Technology
BS - Child Development
AAS - Child Development

**Department of Biological & Environmental Sciences**
BS - Biology with options
BS - Biological Science Teaching
Pre-Chiropractic
Pre-Dentistry
Pre-Medical Technology
Pre-Medicine
Pre-Pharmacy
Pre-Physical Therapy
Pre-Physician Assistant
Pre-Podiatric Medicine

**Department of Imaging Sciences**
AAS - Radiologic Science
BS - Imaging Sciences with Options

**Department of Industrial & Engineering Technology**
BS - Engineering Technology
AAS - Industrial Technology with options
BS - Industrial Technology with options
BS - Industrial Education with options
BS - Technology Management

**Department of Mathematics & Computer Science**
BS - Mathematics
BS - Computer Science

**Department of Nursing**
AAS - Associate Degree Nursing
BSN - Baccalaureate Nursing
AAS - Respiratory Care

**Department of Physical Sciences**
BS - Chemistry
BS - Geology
BS - Physics
Pre-Engineering
Pre-Medicine
Pre-Optometry
Pre-Pharmacy

**Department of Psychology**
BS - Psychology

**Space Science Center**
BS - Space Science

## Department of Agricultural & Human Sciences

Lane Cowsert, Chair
r.cowser@moreheadstate.edu
325 Reed Hall
(606) 783-2662

## Agricultural Sciences Degrees

### Faculty

L. Cowsert, D. Johnson, E. LeCompt, B. Lewis, A. Kantrovich, K. Peterson, P. Prater, B. Rogers, S. Rundell, J. Willard, T. Wistuba

### Program Competencies

**Students graduating from the Bachelor of Science degree program should possess the following:**

1. Written, oral, and interpersonal communication skills; and basic math skills that will allow the individual to collect, analyze, interpret, and present information that is used within the agricultural industry.
2. An understanding of the basic concepts of the physical and biological sciences and how these sciences are applicable to the field of agriculture.
3. An understanding of the importance of the arts, humanities, social and behavioral sciences, and health sciences to humankind.
4. An understanding and literacy of all disciplines of agriculture especially to include the disciplines of animal science, agronomy, soils, horticulture, agricultural mechanics, pest management, agricultural economics, and farm management.

### Additional Competencies for Specific Options

### Agribusiness Option

An understanding of the principles of accounting and how they are used in agribusiness.

### Agricultural Economics Option

An understanding of the principles of economics and how they are used in agricultural economics.

### Agricultural Education Option

1. The ability to use effective planning in course organization in agricultural education.
2. The ability to plan daily instructional programs in agricultural education.
3. An understanding of occupational experience programs and their role in agricultural education.
4. An understanding of FFA and its role in agricultural education.
5. An understanding of effective management of instructional programs in agricultural education.

### Agronomy Option

An understanding and the ability to apply the principles of soil conservation and weed science to crop production and also an understanding of how certain crops are utilized by farm animals.

### Animal Science Option

The ability to demonstrate techniques used in the evaluation and feeding of farm livestock.

### Golf Course Management Option

1. An understanding of the selection, establishment, and maintenance of plants used on the golf course.
2. An understanding of the business, horticultural, and recreational aspects of golf course management.

### Horticulture Option

An understanding of the basic principles involved in the production and propagation of horticultural plants.

### Assessment Procedures

Exit examination

Surveys of graduating students, alumni, advisory groups, and employers

Teacher certification examination for Agricultural Education

### Bachelor of Science

General Education Requirements . . . . . 48
*See general education requirements for the University.*

### Area of Concentration

To complete an area of concentration in Agricultural Sciences, the student must complete the Agricultural Sciences core requirements plus one of the following options: Agricultural Education, Agribusiness, Agricultural Economics, Agronomy, Animal Science, General Agriculture, Golf Course Management, Horticulture, Veterinary Science, or Veterinary Technology. General course electives may also be taken in agriculture and related fields by students wishing greater depth in an agricultural field.

**Agricultural Sciences Core Requirements**

AGR 101 – Orientation to Agriculture . . . . . 1
AGR 102 – Agricultural Experience . . . . . 2
AGR 133 – Introduction to Animal Science . . . . . 3
AGR 180 – Introduction to Field Crops, or
AGR 143 – Anatomy & Physiology of Livestock, or
VET 108 – Veterinary Clinical Anatomy . . . . . 3
AGR 211 – Soils . . . . . 3
AGR 215 – Horticultural Science, or
AGR 233 – Animal Diseases and Parasites . . . . . 3
AGR 251 – Introduction to Agricultural Mechanics, or
AGR 243 – Equine Health and Disease . . . . . 3

AGR 300 – Pest Management, or
AGR 316 – Feeds and Feeding . . . . . 3
AGR 301 – Farm Management . . . . . 3
*AGR 402 – Advanced Agricultural Experience *(or approved cooperative education),* or
VET 363 – Veterinary Preceptorship . . . . . 2
AGR 499C – Senior Seminar in Agriculture . . . . . 3
CHEM 201 – Survey of Organic Chemistry, or
CHEM 112 – Principles of Chemistry II . . . . . 4

*Students may apply no more than a maximum of 11 credit hours from AGR 235, 402, 476, or cooperative education courses that will count as credit toward a degree.

The specified course requirements must be taken in one of the following Agricultural Sciences options:

## Agribusiness Option

Students who select this option must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of requirements and electives, with advisor's approval.

**General Education Requirements**

The following specific General Education Courses must be completed:

AGR 204 – World Food . . . . . 3
AGR 261 – Information Acquisition and Analysis . . . . . 3
BIOL 150 – Introduction to Plant Science . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4
MATH 131 – Mathematical Reasoning and Problem Solving, or
MATH 135 – Mathematics for Technical Students (or higher) . . . . . 3

**Core Requirements . . . . . 33**

For the Agribusiness option, the student must complete the Agricultural Sciences core. Where choices exist, the following core courses must be taken:

AGR 180 – Introduction to Field Crops, or
AGR 143 – Anatomy and Physiology of Livestock . . . . 3
*AGR 402 – Advanced Agricultural Experience, or Approved Cooperative Education . . . . . 2
CHEM 201 – Survey of Organic Chemistry . . . . . 4

**Agribusiness Required Courses . . . . . 24**

ACCT 281 – Principles of Financial Accounting . . . . . 3

**An additional 21 hours from the following groups, with courses from at least three groups, must be completed:**

**Group A**
AGR 302 – Agriculture Finance . . . . . 3
FIN 252 – Mathematics of Finance . . . . . 3
FIN 264 – Personal Finance . . . . . 3
FIN 342 – Money and Banking . . . . . 3
FIN 420 – Financial Markets and Institutions . . . . . 3

**Group B**
MNGT 301 – Principles of Management . . . . . 3
MNGT 311 – Human Resource Management . . . . . 3

**Group C**
AGR 305 – Marketing of Farm Products . . . . . 3
MKT 304 – Marketing . . . . . 3
MKT 350 – Personal Selling . . . . . 3
MKT 354 – Consumer Behavior . . . . . 3
MKT 453 – Marketing Planning and Strategies . . . . . 3

**Group D**
MNGT 261 – The Legal Environment of Business Organizations . . . . . 3
MNGT 362 – The Legal Environment and Business Practices . . . . . 3

**Group E**
ACCT 282 – Principles of Managerial Accounting . . . . 3
ACCT 387 – Income Tax . . . . . 3
AGR 303 – Land Economics . . . . . 3

## Agriculture Economics Option

Students who select this option must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of requirements and electives in agriculture and economics. Requirements and electives are listed below.

**General Education Requirements**

The following specific general education courses must be completed:

AGR 204 – World Food . . . . . 3
AGR 261 – Information Acquisition and Analysis . . . . . 3
BIOL 150 – Introduction to Plant Science . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4
MATH 131 – Mathematical Reasoning and Problem Solving, or
MATH 135 – Mathematics for Technical Students (or higher) . . . . . 3

**Core Requirements . . . . . 33**

For the Agribusiness option, the student must complete the Agricultural Sciences core. Where choices exist, the following core courses must be taken:

AGR 180 – Introduction to Field Crops, or
AGR 143 – Anatomy and Physiology of Livestock . . . . 3
*AGR 402 – Advanced Agricultural Experience, or Approved Cooperative Education . . . . . 2
CHEM 201 – Survey of Organic Chemistry . . . . . 4

**Agriculture Economics Required courses . . . . . 9**

ECON 202 – Principles of Microeconomics . . . . . 3
ECON 350 – Intermediate Microeconomics . . . . . 3
ECON 351 – Intermediate Macroeconomics . . . . . 3

*An additional 15 semester hours must be completed from the following courses, with approval of advisor:*

AGR 302 – Agriculture Finance . . . . . 3

AGR 303 – Land Economics . . . . . 3
AGR 386 – Introduction to Agricultural Policy . . . . . 3
ECON 410 – History of Economic Thought . . . . . 3
ECON 447 – International Economics . . . . . 3
FIN 342 – Money and Banking . . . . . 3
FIN 373 – Investments . . . . . 3
MATH 354 – Business Statistics . . . . . 3

## Agriculture Education Option

This area of concentration is designed and approved for students who wish to teach agriculture education in the public schools in Kentucky.

Students must complete the required core courses in the area of concentration in agricultural science and 44 semester hours of requirements and electives, with advisor's approval.

**General Education Requirements**

The following specific general education courses must be completed:

AGR 204 – World Food . . . . . 3
AGR 261 – Information Acquisition and Analysis . . . . . 3
BIOL 150 – Introduction to Plant Science . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4
MATH 131 – Mathematical Reasoning and Problem Solving, or
MATH 135 – Mathematics for Technical Students (or higher) . . . . . 3

**Core Requirements . . . . . 33**

For the Agricultural Education option, the student must complete the Agricultural Sciences core. Where choices exist, the following core courses must be taken.

AGR 180 – Introduction to Field Crops . . . . . 3
AGR 215 – Horticultural Science . . . . . 3
AGR 251 – Introduction to Agricultural Mechanics . . . . . 3
AGR 300 – Pest Management . . . . . 3
*AGR 402 – Advanced Agricultural Experience or Approved Cooperative Education . . . . . 2
CHEM 201 – Survey of Organic Chemistry . . . . . 4

**Option Requirements of Agricultural Education**

**Agriculture Courses:**

Approved Agricultural Mechanics Elective . . . . . 3
Approved Animal Science Elective . . . . . 3
Approved Soil Science . . . . . 3
Approved Agricultural Electives . . . . . 6
Total . . . . . 15

**Professional Education Courses:**

CTE 207 – Foundations of Vocational Education . . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
EDSP 332 – Teaching the Exceptional Student . . . . . 2
AGR 388 – Methods of Curriculum Development . . . . . 3
AGR 392 – Methods of Instructional Technology . . . . . 3
AGR 470 – Methods of Instruction . . . . . 3
AGR 478 – Student Teaching Practicum . . . . . 12
Total . . . . . 29

## Teacher Certification

Students seeking teacher certification must apply for and be admitted to the TEP. Students must have an overall GPA standing of 2.5 in area of concentration courses before they will be permitted to take agricultural education courses. Students must be approved by the agricultural staff and recommended for certification.

## Agronomy Option

Students must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of requirements and electives, with advisor's approval.

**General Education Requirements**

The following specific general education courses must be completed:

AGR 204 – World Food . . . . . 3
AGR 261 – Information Acquisition and Analysis . . . . . 3
BIOL 150 – Introduction to Plant Science . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4
MATH 131 – Mathematical Reasoning and Problem Solving, or
MATH 135 – Mathematics for Technical Students (or higher) . . . . . 3

**Core Requirements . . . . . 33**

For the agronomy option, the student must complete the Agricultural Science core, where choices exist, the following core courses must be taken:

AGR 180 – Introduction to Field Crops . . . . . 3
AGR 215 – Horticultural Science . . . . . 3
AGR 251 – Introduction to Agricultural Mechanics . . . 3
AGR 300 – Pest Management . . . . . 3
*AGR 402 – Advanced Agricultural Experience, or Approved Cooperative Education . . . . . 2
CHEM 201 – Survey of Organic Chemistry . . . . . 4

**Agronomy Required Courses . . . . . 9**

AGR 308 – Weed Science . . . . . 3
AGR 311 – Soil Conservation . . . . . 3
AGR 316 – Feeds and Feeding . . . . . 3

*An additional fifteen semester hours must be completed from the following courses, with approval of advisor:*

AGR 205 – Farm Records . . . . . 3
AGR 303 – Land Economics . . . . . 3
AGR 312 – Soil Fertility and Fertilizers . . . . . 3
AGR 314 – Plant Propagation . . . . . 3
AGR 319 – Herbs . . . . . 3
AGR 320 – Principles of Vegetable Production . . . . . 3
AGR 325 – Turf Management . . . . . 3

AGR 350 – Farm Power and Machinery Management . . 3
AGR 384 – Forage Crops . . . . . 3
BIOL 215 – General Botany . . . . . 4
BIOL 334 – Entomology . . . . . 3
BIOL 426 – Plant Physiology . . . . . 3
BIOL 514 – Plant Pathology . . . . . 3
BIOL 550 – Plant Anatomy . . . . . 3
CHEM 326 – Organic Chemistry I . . . . . 3

## Animal Science Option

The Animal Science Option is designed to prepare the graduate for a career in the animal agriculture industry and/or admission to a graduate program in Animal Science. As the admission requirements for each graduate program varies, it is essential to work closely with an animal science advisor to assure that the appropriate courses are taken. Completion of this degree option does not guarantee admission to a graduate program.

**Summary of degree requirements:**
General Education . . . . . 46
Agricultural Science Core . . . . . 33
Animal Science Option . . . . . 24
Supplemental Courses . . . . . 26
Total Hours . . . . . 129

**General Education . . . . . 46**

*Note: Since AGR 499C is counted in the core hours, it is not included in the general education total hours.*

The following general education courses are required by the Animal Science option.

Required General Education hours (Seven hours)
AGR 204 – World Food . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4

**Elective General Education hours . . . . . 39**

An additional 39 hours of approved courses are needed to complete MSU's General Education program. These should be selected in consultation with an Animal Science Advisor.

**Core Requirements . . . . . 33**

For the Animal Science option, the student must complete the Agricultural Sciences core. Where choices exist, the following core courses must be taken:

AGR 143 – Anatomy and Physiology of Livestock . . . . 3
AGR 233 – Animal Diseases and Parasites . . . . . 3
AGR 243 – Equine Health and Disease . . . . . 3
AGR 316 – Feeds and Feeding . . . . . 3
AGR 402 – Advanced Agricultural Experience, or
Approved Cooperative Education . . . . . 2
CHEM 201 – Survey of Organic Chemistry . . . . . 4

**Animal Science Option Requirements . . . . . 24**

For the Animal Science option, the student must complete 12 hours of option requirements and 12 hours of option electives.

**Option Requirements . . . . . 12**
AGR 180 – Introduction to Field Crops . . . . . 3
AGR 222 – Livestock Evaluation . . . . . 3
AGR 330 – Livestock Improvement . . . . . 3
AGR 384 – Forage Crops . . . . . 3

**Option Electives . . . . . 12**
AGR 336 – Dairy Production . . . . . 3
AGR 337 – Poultry Production . . . . . 3
AGR 338 – Livestock Judging . . . . . 3
AGR 342 – Horse Production . . . . . 3
AGR 343 – Beef Production . . . . . 3
AGR 344 – Swine Production . . . . . 3
AGR 345 – Sheep Production . . . . . 3
AGR 380 – Equine Management . . . . . 3
AGR 480 – Equine Breeding and Reproduction . . . . . 3
AGR 515 – Animal Nutrition . . . . . 3

**Animal Science Supplemental Courses . . . . . 26**

For the Animal Science Option, the student must complete 26 hours of supplemental courses in consultation with their Animal Science advisor.

## Equine Science Option

The Equine Science Option is designed to prepare the graduate for a career in the equine industry and/or admission to a graduate program in Equine Science. As the admission requirements for each graduate program varies, it is essential to work closely with an Equine Science advisor to assure that the appropriate courses are taken. Completion of this degree option does not guarantee admission to a graduate program.

**Summary of degree requirements:**
General Education . . . . . 46
Agricultural Science Core . . . . . 33
Equine Science Option . . . . . 24
Supplemental Courses . . . . . 26
Total Hours . . . . . 129

**General Education . . . . . 46**

*Note: Since AGR 499C is counted in the core hours, it is not included in the general education total hours.*

The following general education courses are required by the Equine Science option.

Required General Education hours (Seven hours)
AGR 204 – World Food . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4

**Elective General Education hours . . . . . 39**

An additional 39 hours of approved courses are needed to complete MSU's General Education program. These should be selected in consultation with an Equine Science Advisor.

**Core Requirements . . . . . 33**

For the Equine Science option, the student must complete the Agricultural Sciences core. Where choices exist, the following core courses must be taken:

AGR 143 – Anatomy and Physiology of Livestock, or
VET 108 – Veterinary Clinical Anatomy . . . . . 3
AGR 233 – Animal Diseases and Parasites . . . . . 3
AGR 243 – Equine Health and Disease . . . . . 3
AGR 316 – Feeds and Feeding . . . . . 3
CHEM 201 – Survey of Organic Chemistry . . . . . 4

**Equine Science Option Requirements . . . . . 24**

For the Equine Science option, the student must complete six hours of option requirements, and 18 hours of option electives.

**Option Requirements . . . . . 6**
AGR 222 – Livestock Evaluation . . . . . 3
AGR 342 – Horse Production . . . . . 3

**Option Electives . . . . . 18**
AGR 245 – Horseshoeing . . . . . 3
AGR 329 – Advanced Stockseat Horsemanship . . . . . 3
AGR 330 – Livestock Improvement . . . . . 3
AGR 332 – Advanced Saddleseat Horsemanship . . . . . 3
AGR 333 – Advanced Huntseat Horsemanship . . . . . 3
AGR 335 – Equitation Teaching . . . . . 3
AGR 338 – Livestock Judging . . . . . 3
AGR 380 – Equine Management . . . . . 3
AGR 480 – Equine Breeding and Reproduction . . . . . 3
AGR 515 – Animal Nutrition . . . . . 3

**Equine Science Supplemental Courses . . . . . 26**

For the Equine Science Option, the student must complete 26 hours of supplemental courses in consultation with their Equine Science Advisor.

## General Agriculture Option

Students must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of approved electives from the general agriculture option.

**General Education Requirements**

The following specific general education courses must be completed:

AGR 204 – World Food . . . . . 3
AGR 261 – Information Acquisition and Analysis . . . . . 3
BIOL 150 – Introduction to Plant Science . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4
MATH 131 – Mathematical Reasoning and Problem Solving, or
MATH 135 – Mathematics for Technical Students (or higher) . . . . . 3

**Core Requirements . . . . . 33**

For the General Agriculture option, the student must compete the Agricultural Sciences core. Where choices exist, the following core courses must be taken:

AGR 180 – Introduction to Field Crops . . . . . 3
AGR 215 – Horticultural Science . . . . . 3
AGR 251 – Introduction to Agricultural Mechanics . . . 3
AGR 300 – Pest Management . . . . . 3
AGR 402 – Advanced Agricultural Experience, or Approved Cooperative Education . . . . . 2
CHEM 201 – Survey of Organic Chemistry . . . . . 4

**General Agriculture Requirements. . . . . 24**

The minimum number of semester hours for each of the following six fields must be completed:

**Agriculture economics . . . . . 3**
AGR 205 – Farm Records . . . . . 3
AGR 302 – Agriculture Finance . . . . . 3
AGR 303 – Land Economics . . . . . 3
AGR 305 – Marketing of Farm Products . . . . . 3
AGR 386 – Introduction to Agricultural Policy . . . . . 3

**Agricultural Mechanics . . . . . 3**
AGR 350 – Farm Power and Machinery Management . . . . . 3

**Animal Science . . . . . 6**
AGR 222 – Livestock Evaluation . . . . . 3
AGR 243 – Equine Health and Disease . . . . . 3
AGR 336 – Dairy Production . . . . . 3
AGR 337 – Poultry Production . . . . . 3
AGR 338 – Livestock Judging . . . . . 3
AGR 342 – Horse Production . . . . . 3
AGR 343 – Beef Production . . . . . 3
AGR 344 – Swine Production . . . . . 3
AGR 515 – Animal Nutrition . . . . . 3

**Plant Science . . . . . 6**
AGR 212 – Landscape Plants . . . . . 3
AGR 213 – Landscape Design . . . . . 3
AGR 224 – Greenhouse Operations . . . . . 3
AGR 308 – Weed Science . . . . . 3
AGR 314 – Plant Propagation . . . . . 3
AGR 315 – Fruit Production . . . . . 3
AGR 317 – Floral Design . . . . . 3
AGR 318 – Landscape Maintenance . . . . . 3
AGR 319 – Herbs . . . . . 3
AGR 320 – Principles of Vegetable Production . . . . . 3
AGR 323 – Interior Landscaping . . . . . 3
AGR 324 – Greenhouse Structures . . . . . 3
AGR 325 – Turf Management . . . . . 3
AGR 326 – Nursery Management . . . . . 3

AGR 327 – Advanced Landscape Design . . . . . 3
AGR 328 – Floral Crop Production . . . . . 3
AGR 384 – Forage Crops . . . . . 3

**Soil Science . . . . . 3**
AGR 311 – Soil Conservation . . . . . 3
AGR 312 – Soil Fertility and Fertilizers . . . . . 3

**Approved Agricultural Electives . . . . . 3**

## Golf Course Management Option

Students who select this option must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of requirements, with advisor's approval.

**General Education Requirements**

The following specific general education courses must be completed:

AGR 204 – World Food . . . . . 3
AGR 261 – Information Acquisition and Analysis . . . . . 3
BIOL 150 – Introduction to Plant Science . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4
MATH 131 – Mathematical Reasoning and Problem Solving, or
MATH 135 – Mathematics for Technical Students (or higher) . . . . . 3

**Core Requirements . . . . . 33**

For the Golf Course Management option, the student must complete the Agricultural Sciences core. Where choices exist, the following core courses must be taken:

AGR 180 – Introduction to Field Crops . . . . . 3
AGR 215 – Horticultural Science . . . . . 3
AGR 251 – Introduction to Agricultural Mechanics . . . . . 3
AGR 300 – Pest Management . . . . . 3
AGR 402 – Advanced Agricultural Experience, or Approved Cooperative Education . . . . . 2
CHEM 201 – Survey of Organic Chemistry . . . . . 4

**Golf Course Management Required Courses**

**Required Courses**

AGR 212 – Landscape Plants . . . . . 3
AGR 308 – Weed Science . . . . . 3
AGR 318 – Landscape Maintenance . . . . . 3
AGR 325 – Turf Management . . . . . 3
MNGT 301 – Principles of Management . . . . . 3
MKT 304 – Marketing, or
MKT 354 – Consumer Behavior . . . . . 3
PHED 100 – Golf . . . . . 1
SPMT 307 – Sport Marketing . . . . . 3
SPMT 402 – Planning, Designing, and Managing Sport and Physical Activity Facilities . . . . . 3

## Horticulture Option

Students must complete the required core courses in the area of concentration in agricultural and 24 semester hours of requirements and electives.

**General Education Requirements**

The following specific general education courses must be completed:

AGR 204 – World Food . . . . . 3
AGR 261 – Information Acquisition and Analysis . . . . . 3
BIOL 150 – Introduction to Plant Science . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4
MATH 131 – Mathematical Reasoning and Problem Solving, or
MATH 135 – Mathematics for Technical Students (or higher) . . . . . 3

**Core Requirements . . . . . 33**

For the Horticulture option, the student must complete the Agricultural Sciences core. Where choices exist, the following core courses must be taken.

AGR 180 – Introduction to Field Crops . . . . . 3
AGR 215 – Horticultural Science . . . . . 3
AGR 251 – Introduction to Agricultural Mechanics . . . . . 3
AGR 300 – Pest Management . . . . . 3
AGR 402 – Advanced Agricultural Experience, or Approved Cooperative Education . . . . . 2
CHEM 201 – Survey of Organic Chemistry . . . . . 4

**Horticulture Required Courses . . . . . 24**

AGR 314 – Plant Propagation . . . . . 3

*An additional twenty-one semester hours must be selected from the following courses, with approval of advisor:*

AGR 212 – Landscape Plants . . . . . 3
AGR 213 – Landscape Design . . . . . 3
AGR 224 – Greenhouse Operations . . . . . 3
AGR 308 – Weed Science . . . . . 3
AGR 315 – Fruit Production . . . . . 3
AGR 317 – Floral Design . . . . . 3
AGR 318 – Landscape Maintenance . . . . . 3
AGR 319 – Herbs . . . . . 3
AGR 320 – Principles of Vegetable Production . . . . . 3
AGR 323 – Interior Landscaping . . . . . 3
AGR 324 – Greenhouse Structures . . . . . 3
AGR 325 – Turf Management . . . . . 3
AGR 326 – Nursery Management . . . . . 3
AGR 327 – Advanced Landscape Design . . . . . 3
AGR 328 – Floral Crop Production . . . . . 3
BIOL 318 – Local Flora . . . . . 3

## Veterinary Science Option

The Veterinary Science Option is designed to prepare the candidate for admission to a College of Veterinary Medicine (CVM). As the admission requirements for CVMs vary, it is essential to work closely with a pre-veterinary advisor to assure that the appropriate courses are taken. Completion of this degree option does not guarantee admission to a CVM.

There are no special admission requirements for this degree option. It is not restricted to pre-veterinary students, but is open to anyone interested in pursuing an Agricultural Sciences degree option in Veterinary Science. However, a prospective applicant to a CVM must earn excellent grades to be a competitive candidate. It is therefore recommended that pre-veterinary students possess above-average academic skills (ACT composite and math scores of 22, or higher) and a strong aptitude for science courses.

**Summary of degree requirements:**

General Education . . . . . 48
Agricultural Science Core . . . . . 33
Veterinary Science Option . . . . . 18
Supplemental Courses . . . . . 31
Total Hours . . . . . 130
**General Education . . . . . 48**

Note: Since AGR 499C is counted in the core hours, it is not included in the general education total hours.

The following general education courses are required by the Veterinary Science option.

**Required General Education hours. . . . . 18**
AGR 204 – World Food . . . . . 3
BIOL 171 – Principles of Biology . . . . . 4
CHEM 111 – Principles of Chemistry I . . . . . 4
*MATH 152 – College Algebra (or higher) . . . . . 3
PHYS 201 – Elementary Physics I . . . . . 3
PHYS 201A – Elementary Physics I Lab . . . . . 1

*Applicants to Auburn CVM must take Pre-Calculus Mathematics (MATH 174) unless they have a Bachelor's degree prior to matriculation.

**Elective General Education hours . . . . . 30**

An additional 30 hours of approved courses are needed to complete MSU's General Education program. These should be selected in consultation with a pre-veterinary advisor on the basis of the CVM's to which applicant may apply. For example, Auburn University specifically requires fine arts, history and literature; whereas Ohio State University does not require specific social science and humanities courses. It is important to recognize that Auburn University considers history to be social science, not a humanities subject.

**Core Requirements (33)**

For the Veterinary Science option, the student must complete the Agricultural Sciences core. Where choices exist, the following core courses must be taken:

AGR 143 – Anatomy & Physiology of Livestock, or
VET 108 – Veterinary Clinical Anatomy . . . . . 3
AGR 233 – Animal Diseases and Parasites . . . . . 3
AGR 243 – Equine Health and Disease . . . . . 3
AGR 316 – Feeds and Feeding . . . . . 3
CHEM 112 – Principles of Chemistry II . . . . . 4

**Veterinary Science Option Requirements (18)**

For the Veterinary Science option, the student must complete six hours of option requirements, plus 12 hours of option electives.

**Option Requirements (six hours)**

AGR 480 – Equine Breeding and Reproduction . . . . . 3
AGR 515 – Animal Nutrition . . . . . 3

**Option Electives (12)**

AGR 245 – Horseshoeing . . . . . 3
AGR 336 – Dairy Production . . . . . 3
AGR 337 – Poultry Production . . . . . 3
AGR 338 – Livestock Judging . . . . . 3
AGR 342 – Horse Production . . . . . 3
AGR 343 – Beef Production . . . . . 3
AGR 344 – Swine Production . . . . . 3
AGR 345 – Sheep Production . . . . . 3
AGR 380 – Equine Management . . . . . 3
VET 355 – Large Animal Clinics II . . . . . 6
VET 356 – Small Animal Clinics II . . . . . 6
VET 370 – Veterinary Infectious Diseases . . . . . 3

**Veterinary Science Supplemental Courses (31)**

For the Veterinary Science option, the student must complete 16 hours of supplemental requirements, plus 15 hours of supplemental electives.

**Required Supplemental hours (16)**

BIOL 210 – General Zoology . . . . . 4
CHEM 326 – Organic Chemistry I . . . . . 4
CHEM 327 – Organic Chemistry II . . . . . 4
PHYS 202 – Elementary Physics II . . . . . 3
PHYS 202A – Elementary Physics II
Laboratory . . . . . 1

**Elective Supplemental hours (15)**

An additional 15 hours of supplemental electives (300 level or higher science courses) approved by the student's pre-veterinary advisor are required. These should be selected on the basis of the CVM's to which the applicant may apply. Suggested choices include, but are not limited to:

*BIOL 301 – Fundamentals of Biochemistry . . . . . 4
*BIOL 304 – Genetics . . . . . 3
*BIOL 317 – Principles of Microbiology . . . . . 4
BIOL 337 – Comparative Anatomy . . . . . 3
BIOL 338 – Developmental Biology . . . . . 3
BIOL 380 – Cell Biology . . . . . 3

BIOL 519 – Immunology . . . . . 3
BIOL 425 – Animal Physiology . . . . . 3
CHEM 360 – Analytical Chemistry . . . . . 3
*Required by Ohio State University, CVM

## Veterinary Technology Option

The Veterinary Technology option is designed to prepare the candidate for a career as a Veterinary Technologist. Students in this option must be admitted to the Veterinary Technology Program.

**Summary of degree requirements:**
General Education . . . . . 46
Agricultural Science Core . . . . . 33
Veterinary Technology Option . . . . . 24
Supplemental Courses . . . . . 29
Total Hours . . . . . 132

**General Education . . . . . 46**

Note: Since AGR 499C is counted in the core hours, it is not included in the general Education total hours.

The following general education courses are required by the Veterinary Technology option.

**Required General Education hours . . . . . 13**
AGR 204 – World Food . . . . . 3
BIOL 160 – Introduction to Biological Principles or higher . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4
MATH 131 – Mathematical Reasoning and Problem Solving, or
MATH 135 – Mathematics for Technical Students or higher . . . . . 3

**Elective General Education hours . . . . . 33**

An additional 33 hours of approved courses are needed to complete MSU's General Education program. These should be selected in consultation with the student's Veterinary Technology advisor.

**Core Requirements . . . . . 33**

For the Veterinary Technology option, the student must complete the Agricultural Sciences core. Where choices exist, the following core courses must be taken:

AGR 316 – Feeds and Feeding . . . . . 3
AGR 233 – Animal Diseases and Parasites . . . . . 3
AGR 243 – Equine Health and Disease . . . . . 3
CHEM 201 – Survey of Organic Chemistry . . . . . 4
VET 108 – Veterinary Clinical Anatomy . . . . . 3
VET 363 – Veterinary Preceptorship (1 hr.), and
AGR 402 – Advanced Agricultural Experience, or approved cooperative education (1 hr.) . . . . . 2

**Veterinary Technology Option Requirements (24)**

For the Veterinary Technology option, the student must complete 24 hours of option requirements.

**Option Requirements . . . . . 24**
VET 255 – Large Animal Clinics I . . . . . 6
VET 256 – Small Animal Clinics I . . . . . 6
VET 355 – Large Animal Clinics II . . . . . 6
VET 356 – Small Animal Clinics II . . . . . 6

**Veterinary Technology Supplemental Courses . . . . . 29**

For the Veterinary Technology option, the student must complete 20 hours of supplemental requirements, plus nine hours of supplemental electives.

**Required Supplemental Courses (20 hours)**
BIOL 213 – Introduction to Veterinary Microbiology . . . . . 4
VET 110 – Animal Care Techniques I . . . . . 2
VET 111 – Animal Care Techniques II . . . . . 2
VET 211 – Animal Care Techniques III . . . . . 2
VET 212 – Veterinary Surgical Nursing . . . . . 2
VET 216 – Veterinary Clinical Pathology I . . . . . 2
VET 217 – Veterinary Clinical Pathology II . . . . . 2
VET 233 – Veterinary Physiology and Pharmacology I . . . . . 2
VET 234 – Veterinary Physiology and Pharmacology II . . . . . 2

**Elective supplemental courses (9)**

An additional nine hours of supplemental electives from the following list.

AGR 221 – Equitation . . . . . 3
AGR 222 – Livestock Evaluation . . . . . 3
AGR 245 – Horseshoeing . . . . . 3
AGR 330 – Livestock Improvement . . . . . 3
AGR 336 – Dairy Production . . . . . 3
AGR 338 – Livestock Judging . . . . . 3
AGR 342 – Horse Production . . . . . 3
AGR 343 – Beef Production . . . . . 3
AGR 344 – Swine Production . . . . . 3
AGR 345 – Sheep Production . . . . . 3
AGR 380 – Equine Management . . . . . 3
AGR 480 – Equine Breeding and Reproduction . . . . . 3
AGR 515 – Animal Nutrition . . . . . 3
VET 370 – Veterinary Infectious Diseases . . . . . 3

## Major in Agriculture

The student must complete the core course requirements listed under the area of concentration in agricultural science, six additional semester hours of approved agriculture electives, and a major or minor selected in another field. General course electives may also be taken in agriculture and related areas by students wishing greater depth in an agriculture field.

## Minor in Agriculture

The student must complete the following agriculture course plus five semester hours of approved agriculture courses, and a

major selected in another field. General course electives may also be taken in agriculture and related areas by students wishing greater depth in agriculture.

**Required courses in Agriculture . . . . . 21**
AGR 101 – Orientation to Agriculture . . . . . 1
AGR 133 – Introduction to Animal Science . . . . . 3
AGR 180 – Introduction to Field Crops . . . . . 3
AGR 204 – World Food . . . . . 3
AGR 211 – Soils . . . . . 3
AGR 215 – Horticultural Science . . . . . 3
Approved AGR courses . . . . . 5

# Agricultural Technology

## Faculty

L. Cowsert, D. Johnson, A. Kantrovich, E. LeCompt, B. Rogers, J. Willard, T. Wistuba

## Program Competencies

Students graduating in Agriculture with an Associate degree should possess the following:

1. Written, oral, and interpersonal communication skills; and basic math skills that will allow the individual to collect, analyze, interpret, and present information that is used within the agricultural industry.
2. An understanding of the basic concepts of the physical and biological sciences and how these sciences are applicable to the field of agriculture.
3. An understanding and literacy of all disciplines of agriculture especially to include the disciplines of animal science, agronomy, soils, horticulture, agricultural mechanics, and pest management.

## Additional Competencies for Specific Options

### Agribusiness Option

An understanding of the principles of economics and management and how they are used in agribusiness.

### Equine Technology Option

An understanding of the current principles of equine production.

### Ornamental Horticulture Option

1. An understanding of the basic principles involved in the production of ornamental crops.
2. The ability to utilize ornamental crops for the benefit of society.

## Assessment Procedures

Exit examination
Surveys of graduating students, alumni, advisory groups, and employers

## Associate of Applied Science
**(Two-Year Program)**

**General Education Requirements . . . . . 21**
*See general education requirements for the University.*

The following specific general education requirements must be completed:

AGR 204 – World Food . . . . . 3
AGR 261 – Information Acquisition and Analysis . . . . . 3
MATH 131 – Mathematical Reasoning and Problem Solving, or
MATH 135 – Mathematics for Technical Students . . . . . 3

The student must complete a minimum of 51 semester hours in the area of agricultural technology. Thirty-three semester hours are the following core requirements and 18 semester hours are approved electives, selected from within one of the following four options:

### Core Requirements

**Required Courses**
AGR 101 – Orientation to Agriculture . . . . . 1
AGR 102 – Agricultural Experience . . . . . 2
AGR 133 – Introduction to Animal Science . . . . . 3
AGR 180 – Introduction to Field Crops . . . . . 3
AGR 205 – Farm Records . . . . . 3
AGR 211 – Soils . . . . . 3
AGR 215 – Horticultural Science . . . . . 3
*AGR 235 – Supervised Work Experience . . . . . 2
AGR 251 – Introduction to Agricultural Mechanics . . . 3
AGR 300 – Pest Management . . . . . 3
BIOL 150 – Introduction to Plant Science . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4

*Students may apply no more than a maximum of 11 hours credit from AGR 235, 402, 476, or cooperative education courses that will count as credit toward a degree.

*Eighteen semester hours must be taken in one of the options listed:*

### Agribusiness Option

The student must complete the core courses in agricultural technology and required and elective courses.

**Required Courses**
AGR 301 – Farm Management . . . . . 3
ECON 101 – Introduction to Economics . . . . . 3

*Twelve hours must be selected from the following courses, with approval of advisor.*
ACCT 281 – Principles of Financial Accounting . . . . . 3
ACCT 282 – Principles of Managerial Accounting . . . . 3
AGR 302 – Agricultural Finance . . . . . 3
AGR 305 – Marketing of Farm Products . . . . . 3
CIS 211 – Advanced Microcomputers Applications . . . . 3
ECON 201 – Principles of Macroeconomics . . . . . 3
ECON 202 – Principles of Microeconomics . . . . . 3

MNGT 261 – The Legal Environment of Business Organizations . . . . . 3
MKT 350 – Personal Selling . . . . . 3

## Agricultural Production Option

(Agronomy and/or Animal Science)

This option is designed for students interested in agronomy or animal science. Both areas are included in the Agricultural Production Option because they are interrelated.

The student must complete the core courses in agricultural technology and select 18 hours from the following courses with at least one course from each group, with approval of advisor:

**Group A**

AGR 308 – Weed Science . . . . . 3
AGR 311 – Soil Conservation . . . . . 3
AGR 312 – Soil Fertility and Fertilizers . . . . . 3
AGR 314 – Plant Propagation . . . . . 3
AGR 325 – Turf Management . . . . . 3
AGR 384 – Forage Crops . . . . . 3
BIOL 215 – General Botany . . . . . 4
BIOL 318 – Local Flora . . . . . 3

**Group B**

AGR 301 – Farm Management . . . . . 3
AGR 302 – Agriculture Finance . . . . . 3
AGR 305 – Marketing of Farm Products . . . . . 3
ACCT 281 – Principles of Financial Accounting . . . . . 3

**Group C**

AGR 222 – Livestock Evaluation . . . . . 3
AGR 243 – Equine Health and Disease . . . . . 3
AGR 316 – Feeds and Feeding . . . . . 3
AGR 330 – Livestock Improvement . . . . . 3
AGR 336 – Dairy Production . . . . . 3
AGR 337 – Poultry Production . . . . . 3
AGR 338 – Livestock Judging . . . . . 3
AGR 343 – Beef Production . . . . . 3
AGR 344 – Swine Production . . . . . 3
AGR 345 – Sheep Production . . . . . 3

## Equine Technology Option

The student must complete the core courses in agricultural technology and the following required and elective courses.

**Required Courses**

AGR 243 – Equine Health and Disease . . . . . 3
AGR 342 – Horse Production . . . . . 3
AGR 380 – Equine Management . . . . . 3

*Nine semester hours must be selected from the following courses, with approval of advisor:*

AGR 221 – Equitation . . . . . 3
AGR 222 – Livestock Evaluation . . . . . 3
AGR 245 – Horseshoeing . . . . . 3
AGR 329 – Advanced Stockseat Horsemanship . . . . . 3
AGR 332 – Advanced Saddleseat Horsemanship . . . . . 3
AGR 333 – Advanced Huntseat Horsemanship . . . . . 3
AGR 335 – Equitation Teaching . . . . . 3
AGR 338 – Livestock Judging . . . . . 3
AGR 384 – Forage Crops . . . . . 3

*A maximum of three hours as AGR 329, 332 or 333 may be applied to the option.*

## Ornamental Horticulture Option

The student must complete core courses in agricultural technology and required and elected courses as follows:

**Required Course**

AGR 314 – Plant Propagation . . . . . 3

*Fifteen semester hours must be selected from the following courses, with approval of advisor:*

AGR 212 – Landscape Plants . . . . . 3
AGR 213 – Landscape Design . . . . . 3
AGR 224 – Greenhouse Operations . . . . . 3
AGR 308 – Weed Science . . . . . 3
AGR 315 – Fruit Production . . . . . 3
AGR 317 – Floral Design . . . . . 3
AGR 318 – Landscape Maintenance . . . . . 3
AGR 319 – Herbs . . . . . 3
AGR 320 – Principles of Vegetable Production . . . . . 3
AGR 323 – Interior Landscaping . . . . . 3
AGR 324 – Greenhouse Structures . . . . . 3
AGR 325 – Turf Management . . . . . 3
AGR 326 – Nursery Management . . . . . 3
AGR 327 – Advanced Landscape Design . . . . . 3
AGR 328 – Floral Crop Production . . . . . 3

# Horsemanship

### Faculty

E. LeCompt, J. Willard

## Minor

The student must complete a minimum of 21 semester hours of agriculture courses in the following list and a major selected in another field. General course electives may also be taken in horsemanship, agriculture, and related areas by students wishing greater depth in horsemanship.

**Course Requirements**

AGR 221 – Equitation . . . . . 3
AGR 243 – Equine Health and Disease . . . . . 3
AGR 335 – Equitation Teaching . . . . . 3
AGR 342 – Horse Production . . . . . 3

**Approved Electives . . . . . 3**

*Students must select six hours from the following:*

AGR 329 – Advanced Stockseat Horsemanship . . . . . 3
AGR 332 – Advanced Saddleseat Horsemanship . . . . . 3
AGR 333 – Advanced Huntseat Horsemanship . . . . . 3

## Pre-Forestry
### Faculty
B. Rogers

Students interested in forestry may take their first two years of course work at MSU and then complete their studies at accredited schools of forestry. If at the end of two years a student does not secure admission to an accredited school of forestry, most of the credits earned may be applied toward a degree at MSU. The program may be modified to meet entrance requirements at any institution offering a forestry program.

**Required Course Sequence**

**First Semester . . . . . 17**
BIOL 150 – Introduction to Plant Science . . . . . 3
CHEM 101 – Survey of Chemistry . . . . . 4
ENG 100 – Writing I . . . . . 3
MATH 175 – Calculus I . . . . . 4
PHED – activity course . . . . . 1
General elective . . . . . 2

**Second Semester . . . . . 16**
AGR 180 – Introduction to Field Crops . . . . . 3
CHEM 201 – Survey of Organic Chemistry . . . . . 4
ENG 200 – Writing II . . . . . 3
MATH 353 – Statistics . . . . . 3
PHED – activity course . . . . . 1
General elective . . . . . 2

**Third Semester . . . . . 17**
AGR 211 – Soils . . . . . 3
BIOL 215 – General Botany . . . . . 4
*ITCM 310 – Principles of Surveying . . . . . 3
PHYS 201, 201A – Elementary Physics I and Laboratory . . . . . 4
SOC 170 – Rural Sociology . . . . . 3

**Fourth Semester . . . . . 15**
CMSP 108 – Fundamentals of Speech Communication . 3
ECON 201 – Principles of Macroeconomics . . . . . 3
ENG – Literature elective . . . . . 3
HIS 202 – American Studies . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
* Prerequisite required

**Total . . . . . 65**

## Pre-Veterinary Medicine
### Faculty
K. Peterson, P. Prater, S. Rundell, J. Willard

The Pre-Veterinary Medicine Program is a pre-professional program designed to prepare students for admission to a College of Veterinary Medicine to earn the Doctor of Veterinary Medicine (DVM) degree. Completion of the pre-veterinary requirements takes three-four years; then veterinary college takes another four years of study.

Since each veterinary college has its own specific admission requirements, it is essential that students work closely with a pre-veterinary advisor throughout the pre-veterinary process.

Admission to veterinary college is very state oriented. States that have veterinary colleges give priority to their own residents but may contract with states that do not have veterinary colleges to accept a certain number of non-resident students each year. In addition, a limited number of out-of-state, non-contract positions may be available. In-state and contract applicants have approximately one in three chance of acceptance; while out-of-state, non-contract applicants have about a one in ten chance of acceptance.

The Commonwealth of Kentucky is a participating member in the Southern Regional Education Board Contract Program under which legal Kentucky residents may attend veterinary college at Auburn University or Tuskegee University in Alabama. Students accepted to veterinary college under this contract program pay only the in-state tuition of that university.

Residents of states other than Kentucky may complete the pre-veterinary requirements for the veterinary college of their state at Morehead State University. West Virginia residents may apply under contract to Ohio State University, University of Georgia, and Tuskegee University. The transfer of courses to satisfy the specific requirements of a particular college must be negotiated in advance to assure acceptance. Students must work closely with the pre-veterinary advisor in making the appropriate contacts.

Although a degree is not required for admission to veterinary college, it is advisable to work toward a degree in conjunction with the pre-veterinary requirements. All applicants are not accepted and one must have a suitable degree to build an alternate career. Suitable degree programs include veterinary science, veterinary technology, and biology. The Veterinary Science degree program is specifically designed to address the needs of pre-veterinary students. See the Agricultural Sciences, Veterinary Science Option. For further information contact:

Pre-Veterinary Advisor
25 MSU Farm Drive
Morehead, KY 40351
(606) 783-2326

## Veterinary Technology
### Faculty
B. Lewis, K. Peterson, P. Prater,
S. Rundell (Coordinator)

## Program Competencies

Students receiving an Associate of Applied Sciences Degree in Veterinary Technology should possess competencies in the following areas as defined by the American Veterinary Medical Association:

1. General Competencies:
   - A. Written, oral and interpersonal communication skills.
   - B. Applied mathematical skills applicable to the field of veterinary technology.
   - C. An awareness of the physical and biological concepts applicable to the field of veterinary technology.
   - D. An appreciation of the liberal arts.
2. Specific Competencies:
   - A. Anesthesia, including induction, monitoring, and instrumentation.
   - B. Animal husbandry, including restraint, behavior, species and breed identification, reproduction, sex determination, and human-animal bonding.
   - C. Diseases, preventive medicine (including dentistry), and nursing of companion animals, food-production animals, horses, and laboratory animals.
   - D. Economics of veterinary practice
   - E. Ethics, professionalism, and legal applications in veterinary medicine.
   - F. Humane animal care and management.
   - G. Basic laboratory animal technology.
   - H. Medical terminology.
   - I. Necropsy techniques.
   - J. Nutrition and principles of feeding.
   - K. Orientation to the vocation of veterinary technology.
   - L. Pharmacology for veterinary technicians.
   - M. Principles of imaging, including radiography and ultrasonography.
   - N. Professional organizations and continuing education for graduate technicians.
   - O. Surgical nursing and assisting, including instrumentation.
   - P. Technician utilization and team concepts of health care delivery.
   - Q. Veterinary anatomy and physiology.
   - R. Veterinary clinical pathology and parasitology.
   - S. Veterinary microbiology and immunology.
   - T. Veterinary office management.
   - U. Elementary computer skills pertaining to veterinary technology.
   - V. Zoonoses, occupational health hazards, and waste disposal.
3. In addition, students should have the skills necessary to assume responsibility for self-development and lifelong learning in the field of veterinary technology.

**Assessment Procedures**

Advisory Board consultation
Evaluation by accrediting organization (AVMA)
Exit examination
Survey of employers
Survey of graduates
Graduate performance on state board examinations

## Associate of Applied Science

(Five-Semester Program)

The MSU Veterinary Technology Associate Degree Program is approved by the Kentucky Veterinary Medical Association and accredited by the American Veterinary Medical Association. Graduates are eligible to write the National Board Examination for state licensure as a Registered Veterinary Technician or Technologist.

The Veterinary Technology Program has a selective admission policy, which is separate from and in addition to the University's admission procedures. Admission to the University does not guarantee admission to the Veterinary Technology Program.

In addition to acceptance by the University, applicants must apply for admission to the Veterinary Technology Associate Degree Program and meet the following criteria:

**Special Admission Requirements**

1. Admission to Morehead State University. Full admission to Morehead State University without conditions. Students who are admitted as provisional or are required to take developmental courses must complete those requirements with acceptable grades prior to admission to the program.
2. Admission to Veterinary Technology Program.
   - A. First-time Freshmen:
     - I. High school diploma or GED.
     - II. Minimum high school GPA of 2.8 on 4.0 scale.
     - III. ACT Composite Score of at least 20.
     - IV. ACT subscores which permit enrollment in courses required by the program.
   - B. College Students:
     - I. At least 12 hours of approved college course work.
     - II. Minimum GPA of 2.5 on 4.0 scale in approved college course work.
     - III. Approved course work may include:
       - a. General education courses applicable to the Veterinary Technology Associate Degree Program;
       - b. Animal science, biology, chemistry, mathematics, computer skills, medical terminology, office management, or ethics.
   - C. All applicants:
     - I. Significant work experience with a veterinarian.
     - II. Written recommendation from the above veterinarian.
     - III. Health, Physical Capability, and Risk Assessment (HPCR) Requirements.

a. Purpose Veterinary Technology students must possess the health, physical capability, and risk assessment compatible with working with live animals in a veterinary medical context. The HPCR requirements are designed to assure adequate ability to work with live animals, perform the required tasks, and avoid undue risk of injury or disease.

b. Confidentiality of HPCR Status: It is not required that any student divulge confidential medical information to the program faculty. They must only verify, through their physician, that they meet the HPCR requirements.

c. Physical capabilities:
   i. Vision capabilities:
      1. Normal or corrected refraction within the ranges of 20/20 to 20/190.
      2. Be able to distinguish color shade changes.
   ii. Auditory capabilities:
      Possess normal or corrected hearing ability with in 0 to 45 decibel range.
   iii. Tactile capabilities:
      Possess in at least one hand the ability to perceive temperature change and pulsations and to differentiate between various textures and structures.
   iv. Language capabilities:
      Possess the ability to verbally communicate.
   v. Motor capabilities:
      Possess four functional limbs (normal or artificial) which allow the following actions:
      1. Grasp securely with at least one hand;
      2. Stand for long periods of time;
      3. Walk unassisted.

d. Health requirements:
   i. Mental Health
      Possess the ability to adapt to environment, function in everyday activities, and cope with stressors.
   ii. Immunization requirements:
      Current immunization against the following:
      1. Rabies
      2. Tetanus

e. Risk Assessment:
   i. Bites and scratches:
      Prior to handling any animals, students must verify that they are not subject to any undue risk from animal bites and scratches.
   ii. Radiation risk assessment:
      Prior to beginning the second year of the VET sequence, students must verify that they are not subject to any undue risk from assisting with diagnostic radiography procedures on animals.

f. Verification and Maintenance of HPCR Requirements:
   i. Applicants must provide verification of the HPCR requirements by completion of the Veterinary Technology HPCR Form by a licensed physician(s) upon completion of a thorough physical examination.
   ii. The HPCR requirements must be maintained throughout the student's enrollment in the program.
      1. At the discretion of the program faculty, students may be requested to have their HPCR requirements re-evaluated at any point in the program.
      2. Students in the program are required to notify their physician of any significant change in their HPCR status that may place them at increased risk (e.g., pregnancy) and submit a new HPCR Form signed by the physician.

**Required Course Sequence**

General Education Requirements: Students must complete the general education requirements for an Associate of Applied Sciences degree. Any course approved by the University for each of the following categories may be taken, unless otherwise specified:

CMSP 108 – Fundamentals of Speech Communication . . . . . 3
CIS 101 – Computers for Learning, or
SCI 110 – Introduction to Scientific Computing, or
AGR 261 – Information Acquisition and Analysis Social/ Behavioral Sciences . . . . . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
Humanities . . . . . 3
MATH 135 – Mathematics for Technical Students, (or higher) . . . . . 3
**Total . . . . . 21**

**Program Core Requirements**

AGR 133 – Introduction to Animal Science . . . . . 3
BIOL 213 – Introduction to Veterinary Microbiology . . 4
CHEM 101 – Survey of Chemistry . . . . . 4
VET 108 – Veterinary Clinical Anatomy . . . . . 3
VET 110 – Animal Care Techniques I . . . . . 2
VET 111 – Animal Care Techniques II . . . . . 2
VET 211 – Animal Care Techniques III . . . . . 2
VET 212 – Veterinary Surgical Nursing . . . . . 2
VET 216 – Veterinary Clinical Pathology I . . . . . 2
VET 217 – Veterinary Clinical Pathology II . . . . . 2
VET 233 – Veterinary Physiology and Pharmacology I . . . . . 2

VET 234 – Veterinary Physiology and Pharmacology II . . . . . 2
VET 255 – Large Animal Clinics I . . . . . 6
VET 256 – Small Animal Clinics I . . . . . 6
VET 355 – Large Animal Clinics II . . . . . 6
VET 356 – Small Animal Clinics II . . . . . 6
VET 363 – Veterinary Preceptorship (off-campus) . . . . 1
**Total Program Core . . . . . 55**

Freshmen: First-time freshmen may enter the Vet Tech program and complete the general education requirements concurrently with the Vet Tech sequence. However, it will be necessary to take some summer courses to finish within two years.

Transfer Students: The Vet Tech core sequence takes four semesters and one summer term to complete even if the general education requirements have been previously completed.

Pre-Vet Students: Students completing both Vet Tech and Pre-Vet should make appropriate course substitutions. See advisor for details.

### Academic Progress Statement

Once admitted to the program, students must demonstrate adequate academic progress by earning a grade of "C" or better in all required VET courses.

Any required VET course in which a grade less than "C" is earned must be repeated with a grade of "C" or better prior to advancing in the program.

Dismissal from the program:

A student will be dismissed from the program for any of the following situations:

1. Earning a grade less than "C" in any required VET course more than once;
2. Earning a grade less than "C" in more than one required VET course;
3. Inability to complete the program within four academic years of beginning the program.

### Reinstatement to the program

Once dismissed from the program, a student must reapply to the program and be readmitted. Readmitted students must complete all courses in the VET sequence as if starting for the first time.

## Human Sciences

### Faculty

M. Murphy, M. Sampley

### Bachelor of Science degree with a concentration in Child Development.

### Program Competencies

**Child Development students will demonstrate ability to:**

1. Evaluate the physical, intellectual, emotional, moral, personality and social development of the individual.
2. Assess and administer models of early childhood development programs for young children.
3. Evaluate prenatal care, child care and guidance techniques which meet the needs of children and contribute to optimal development.
4. Evaluate the process of parenting, problems, issues, early intervention and family center relationships.
5. Evaluate skills necessary for developmentally appropriate instruction and care of preschool children.

### Assessment Procedures

Exit examination
Alumni surveys
Survey of employers

The following requirements must be completed for the Bachelor of Science Degree with a Concentration in Child Development.

**General Education Requirements . . . . . 48**
CIS 101 – Computers for Learning . . . . . 3
HS 101 – Nutrition and Well Being . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
MATH 131 or Higher . . . . . 3
Additional requirements . . . . . 36

**Program Requirements . . . . . 75**
CTE 207 or EDF 207– Foundation of Education . . . . . 3
EDSP 230 – Education for Exceptional Children . . . . . 3
EDSP 350 – Disabilities & Behavior . . . . . 3
HS 130 – Elementary Foods . . . . . **3**
HS 251 – Behavioral Problems of Children . . . . . 3
HS 253 – Child Growth & Development . . . . . 4
HS 254 – Preschool Administration . . . . . 3
HS 257 – Care & Dev: Prenatal, Infants and Toddlers . . 3
HS 259 – Parent Involvement . . . . . 3
HS 327 – Child Nutrition . . . . . 3
HS 332 – Field Experience . . . . . 4
HS 353 – Program Planning . . . . . 3
HS 354 – Preschool Program & Environment . . . . . 3
HS 358 – Public Policy for Children and Family . . . . . 3
HS 363 – Family economics . . . . . 3
HS 457 – Parenting . . . . . 3
HS 467 – Trends and Issues in Early Child Dev . . . . . 3
HS 477 – Child Development Practicum . . . . . 4
HS 490 – Special Topics in Human Science . . . . . 3
HS 499C – Senior Seminar . . . . . 3
IECE 301 – At Risk Infant & toddler . . . . . 3
MNGT 261 – Legal Environment . . . . . 3
MNGT 310 – Small Business Organization . . . . . 3
SWK 315 – Child Welfare Services . . . . . 3

*****Suggested Electives*****

ART 121 – School Art I . . . . . 3
ART 221 – School Art II . . . . . 3
HS 200 – Family Relation . . . . . 3
HS 231 – Meal Management . . . . . 3

HS 329 – Quantity Food Preparation . . . . . 4
HS 330 – Food Purchasing . . . . . 3
HS 331 – Food Production . . . . . 4
HS 336 – Institutional Organizational Management 3
MNGT 301 – Principles of Management . . . . . 3

## Associate of Applied Science
### Faculty
M. Murphy, M. Sampley

An Associate of Applied Science Degree with a Concentration in Child Development is available. The following requirements must be completed.

### Program Competencies
**Child Development students will be able to:**

1. Explore the suitability for child development as related to employment and potential for the community.
2. Demonstrate specific skills, abilities and behaviors regarding occupational adjustment.
3. Know the care and guidance techniques which meet the basic needs of the child and contribute to their optimal development.
4. Evaluate the physical, intellectual, emotional, moral, personality and social development of individuals.

### Preschool Administration
**students will demonstrate ability to:**

1. Assess and administer models of early childhood education programs for young children.
2. Analyze career and job opportunities.

### Assessment Procedures
Alumni surveys
Survey of employers

*The following requirements must be completed for the Associate of Applied Science Degree in Child Development.*

**General Education Requirements . . . . . 22**
CIS 101 – Computers for Learning . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
MATH 131 or Higher . . . . . 3
Additional requirements . . . . . 13

**Program Requirements . . . . . 51**

CTE 207 or EDF 207 . . . . . 3
EDSP 230 – Education. For Exceptional Children . . . . . 3
HS 101 – Nutrition & Well Being . . . . . 3
HS 130 – Elementary Foods . . . . . 3
HS 251 – Behavioral Problems of Children . . . . . 3
HS 253 – Child Growth & Development . . . . . 4
HS 254 – Preschool Administration . . . . . 4
HS 257 – Care & Dev: Prenatal, Infants and Toddlers . . 3
HS 259 – Parent Involvement . . . . . 3
HS 327 – Child Nutrition . . . . . 3
HS 332 – Field Experience . . . . . 4
HS 353 – Program Planning . . . . . 3
HS 354 – Preschool Programs & Environment . . . . . 3
IECE 301 – At Risk Infant & Toddler . . . . . 3
MNGT 261 – Legal Environment . . . . . 3
MNGT 310 – Small Business Org . . . . . 3
**Total . . . . . 73**

## Department of Biological & Environmental Sciences

**David Magrane, Chair**
d.magrane@moreheadstate.edu
103 Lappin Hall
(606) 783-2944

### Faculty
D. DeMoss, G. DeMoss, D. Eisenhour, M. Fultz
G. Gearner, J. Hare, D. Magrane, S. O'Keefe,
D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon,
D. Smith, C. Tuerk, S. Welter, C. Wymer

The Department of Biological & Environmental Sciences offers a Bachelor of Science, Area of Concentration in Biological Sciences with three options: Option 1, Biology Non-teaching; Option 2, Biological Science-Teaching; Option 3, Environmental Science. Pre-professional programs in pre-chiropractic, pre-dentistry, pre-medical technology, pre-medicine, pre-pharmacy, pre-physician assistant, pre-physical therapy and pre-podiatry. The department also provides specific courses to support the academic programs of other departments. The biological and environmental science programs are designed to provide strong foundations for the development of professionals in the specific areas outlined. The student must work closely with his/her advisor to assure that proper course sequences are followed.

## Bachelor of Science
**Area of Concentration in Biological Sciences**

### Program Competencies
**Students graduating with the Bachelor of Science degree in Biology should possess the following:**

1. Written, oral and interpersonal communication skills in the sciences that will allow the graduate to collect, analyze, interpret, utilize and present information that is contemporary in the biological sciences.
2. An awareness of the basic concepts of the physical and biological sciences and how these concepts are applicable in the profession.
3. An awareness of the importance of the arts, humanities, social and behavioral sciences, health sciences as well as the biological and physical sciences to the human community.

4. A basic understanding of literacy of all disciplines of biology, from molecular to cellular to organismal to population levels that unite organismal, continuity, diversity and unity of life.
5. A general competency in basic inorganic and organic chemistry as well as in introductory physics, mathematics and statistics.

## Assessment Procedures

Exit examinations
Employer feedback
Graduate feedback
Performance of graduates on entrance examinations to post-baccalaureate programs

**CORE**

BIOL 171 – Principles of Biology . . . . . 4
BIOL 210 – General Zoology . . . . . 4
BIOL 215 – General Botany . . . . . 4
BIOL 317 – Principles of Microbiology . . . . . 4
BIOL 461 – Ecology . . . . . 3
BIOL 499C or BIOL 499D . . . . . 3
MATH 353 – Statistics . . . . . 3
**Total for Biology Core . . . . . 25**

**OPTION 1 - Biology Non-Teaching**

BIOL 304 – Genetics . . . . . 3
BIOL 380 – Cell Biology . . . . . 3
BIOL 425 or BIOL 426 . . . . . 3

**Advanced Biology Electives. . . . . 9-12**
(Students must complete any three of the following courses)
BIOL 318, BIOL 334, BIOL 336, BIOL 337, BIOL 338, BIOL 425, BIOL 426, BIOL 437, BIOL 446, BIOL 450, BIOL 505, BIOL 510, BIOL 514, BIOL 517, BIOL 518, BIOL 519, BIOL 520, BIOL 530, BIOL 531, BIOL 535, BIOL 540, BIOL 544, BIOL 550, BIOL 555, or BIOL 590

**Supplemental Requirements . . . . . 27-30**
CHEM 111 – Principles of Chemistry I . . . . . 4
CHEM 112 – Principles of Chemistry II. . . . . 4
BIOL/CHEM 301 – Fundamentals of Biochemistry . . . . . 4
CHEM 326 – Organic Chemistry I . . . . . 4
PHYS 201 – Elementary Physics I . . . . . 3
PHYS 201A – Elementary Physics I Laboratory . . . . . 1
PHYS 202 – Elementary Physics II . . . . . 3
PHYS 202A – Elementary Physics II Laboratory. . . . . 1
MATH 152 and MATH 141 or
MATH 174 or Equivalent . . . . . 6
**Total Option 1 Hours . . . . . 70-76**

**OPTION 2 - Biological Science Teaching**

BIOL 231 – Human Anatomy . . . . . 3
BIOL 232 – Human Physiology . . . . . 3
BIOL 304 – Genetics. . . . . 3
BIOL 380 – Cell Biology . . . . . 3
BIOL 402 – Integrated Biology, Mathematics, Physical Science, Field Experiences in Teaching . . . . . 3
BIOL 403 – Integrated Biology, Mathematics, Physical Science, Field Experiences in Teaching . . . . . 3
**Option Requirement Total . . . . . 18**

**Advanced Biology Elective . . . . . 3**
(Students must complete one of the following courses)
BIOL 318, BIOL 334, BIOL 437, BIOL 450, BIOL 505, BIOL 510, BIOL 530, BIOL 531, or BIOL 535

**Supplemental Requirements**
Chemistry (select one sequence)
***Sequence I***
CHEM 101 – Survey of Chemistry. . . . . 4
CHEM 201 – Survey of Organic Chemistry. . . . . 4
BIOL/CHEM 301 – Fundamentals of Biochemistry . . . . . 4

***Sequence II***
CHEM 111 – Principles of Chemistry I . . . . . 4
CHEM 112 – Principles of Chemistry II. . . . . 4
BIOL/CHEM 301 – Fundamentals of Biochemistry . . . . . 4

GEOS 108 – Physical Geology . . . . . 4
PHYS 201 – Elementary Physics I . . . . . 3
PHYS 201A – Elementary Physics ILaboratory . . . . . 1
MATH 152 and MATH 141 or
MATH 174 or Equivalent . . . . . 6
**Supplemental Hours Total . . . . . 23-26**

**Teacher Education Program - Secondary Education Requirements**
EDF 207 – Foundations of Education. . . . . 3
EDF 211 – Human Growth and Development . . . . . 3
EDSP 230 – Education of Exceptional Children . . . . . 3
EDF 311 – Learning Theories and Assessment in Education. 3
EDSE312 – Educational Methods and Technology . . . . . 3
EDSE 483 – Classroom Organiz and Mgt for Sec Teachers. . 3
EDSE 416 – Clinical Practice . . . . . 12
**TEP Total . . . . . 30**

**Total Option 2 Hours . . . . . 99-102**

## Program Competencies

Students completing Option 2 are expected to demonstrate competencies in basic and supplemental performance areas that include:

1. Demonstration of mastery of the subject matter of basic biological science and the basic pedagogy skills to grow and develop as a professional in secondary education. Biological science areas of specific course work cover organismal biology, genetics, cell biology, physiology, ecology and evolution.

2. Performance in authentic teaching situations using a knowledge base of academic content coupled with the skills and processes required to be an effective teacher.
3. Successful integration of supplemental science areas (chemistry, physical sciences), mathematics and technology with the subject matter of biological science to plan effective instructional strategies and to obtain the necessary materials and supplies required for classroom and laboratory management.
4. Synthesis of the content oriented biological, mathematical, and physical science courses with secondary education courses to develop the professional attitudes required by contemporary standards of knowledge on professional issues required to fulfill Kentucky's New Teaching Standards.

## Assessment Procedures

Exit examinations
Teacher Education PRAXIS Exam
Employer feedback

**OPTION 3 - Environmental Science**

BIOL 155 – Introduction to Environmental Science . . . . . 3
BIOL 356 – Environmental Biology . . . . . 3
BIOL 357 – Environmental Testing Methods . . . . . 3
BIOL 510 – Limnology . . . . . 3
**Option Requirement Total . . . . . 12**

**Advanced Biology Electives . . . . . 9**
(Student must complete any three of the following courses)
BIOL 318, BIOL 334, BIOL 437, BIOL 450, BIOL 530, BIOL 531, BIOL 535 or
MSCI Approved Gulf Coast Laboratory Elective
(Maximum of three hours transferable)

**Supplemental Requirements**
Chemistry (select one sequence)
***Sequence I***
CHEM 111 – Principles of Chemistry I . . . . . 4
CHEM 112 – Principles of Chemistry II. . . . . 4
CHEM 326 or CHEM 360. . . . . 4

***Sequence II***
CHEM 101 – Survey of Chemistry . . . . . 4
CHEM 201 – Survey of Organic Chemistry . . . . . 4
BIOL/CHEM 301 – Fundamentals of Biochemistry . . . . . 4
AGR 211 – Soils . . . . . 3
ECON 401 or GEOS 351 . . . . . 3
GEOS 108 – Physical Geology . . . . . 4
GEOS 376 – Environmental Geology . . . . . 3
GEOS 425 or ITCM 307 . . . . . 3
GOVT 324 – Environmental Law and Policy . . . . . 3
MATH 152 – College Algebra, or higher . . . . . 3
PHIL 333 – Environmental Ethics . . . . . 3
**Supplemental Hours Total . . . . . 37**
**Total Option 3 Hours. . . . . 83**

**Emphasis in Environmental Science and Regional Analysis**
In addition to the requirements fulfilling the Area of Concentration in Biological Sciences, Environmental Science (Option 3), the following courses are required:
RAPP 201 – Society, Nature, and Development . . . . . 3
RAPP 202 – Basic Computer Tech in Regional Analysis . . . 3
RAPP 300 – Seminar in Regional Issues I. . . . . 3
RAPP 350 – Practicing Regional Analysis I . . . . . 3
RAPP 450 – Practicing Regional Analysis II . . . . . 3
RAPP 490 – Seminar in Regional Issues II . . . . . 3
IRAPP Requirement Total . . . . . 18

**Total Option 3 (IRAPP Emphais Hours . . . . . 101**

## Program Competencies

**Students successfully completing Option 3 in Environmental Science should possess the following:**

1. Written, oral, and interpersonal communication skills in the basic sciences that will allow the graduate to utilize information relevant to the area of environmental and ecological sciences.
2. An awareness of the basic scientific concepts in the physical and biological sciences and the application of such concepts to the field of environmental science.
3. An awareness of the importance of the arts, humanities, social and behavioral sciences as well as environmental science to the society comprising humans and nature.
4. A basic understanding of the literature of population, resources, biological principles, hydrological and limnological sciences, physical geology, environmental testing as well as the environmental aspects of ethics, governmental laws and policies.
5. A general competency in basic inorganic and organic chemistry as well as mathematics, statistics and introductory soil science.

## Assessment Procedures

Exit examinations
Employer feedback
Graduate feedback

## Program Competencies

**Graduates of the program will possess the following:**

1. Written, oral, and interpersonal communication skills in the basic sciences that will allow the graduate to use information relevant to the area of environmental and ecological sciences.
2. An awareness of the basic scientific concepts in the physical, biological, and social sciences and the application of such concepts to the field of environmental science.
3. An awareness of the importance of the arts, humanities, social and behavioral sciences as well as environmental science to the society comprising humans and nature.

4. A basic understanding of the literature of population, resources, biological principles, hydrological and limnological sciences, physical geology, environmental testing as well as the environmental aspects of ethics, environmental testing as well as the environmental aspects of ethics, governmental laws and policies.
5. A general competency in basic inorganic chemistry as well as mathematics, statistics and introductory soil science.
6. The ability to carry out studies in their area of expertise that include a significant analysis of regional resources and issues.
7. The ability to present research and policy reports that are comprehensible to audiences of various public policymakers.
8. The ability to interpret the output of regional resource analyses and their potential use in formulating public policy.

### Pre-Professional and Introductory Training Programs

The departmental organization of the various pre-professional programs is to provide maximum flexibility and contemporary course work and scientific background to allow the student to be competitive in the quest of being admitted to the professional school and program desired.

## Pre-Chiropractic

**Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, M. Fultz, G. Gearner, J. Hare, D. Magrane, S. O'Keefe, D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith, C. Tuerk, S. Welter, C. Wymer

Admission requirements for schools and colleges of chiropractic medicine emphasize a strong background in science and the humanities. Pre-chiropractic majors are encouraged to fulfill the requirements and complete their 90 semester hours with additional courses in the biological sciences. An emphasis on courses in the basic sciences, particularly biology, will prepare the student for success in chiropractic medicine.

### Requirements

Most schools or colleges of chiropractic medicine require the following pre-professional education for admission to the Doctor of Chiropractic degree programs:

1. Ninety semester hours leading to a baccalaureate degree in a college or university program with a minimum GPA of 2.5 on a 4.0 scale.
2. Six semester hours of biology with laboratory.
3. Six semester hours of general chemistry with laboratory.
4. Six semester hours of organic chemistry with laboratory.
5. Six semester hours of physics with laboratory.
6. Six semester hours of English and/or communication skills.
7. Three semester hours of psychology.
8. Fifteen semester hours of social sciences and/or humanities.
9. It is recommended that biology courses be elected from principles of biology, cell biology, general zoology, or principles of microbiology.

For purposes of course scheduling and complete preparation for chiropractic schools, all pre-chiropractic students should work closely with their assigned advisor.

MSU has an articulation agreement (3+3) with Logan College of Chiropractic which allows students to enter professional school after three years and still be able to receive a BS degree from MSU.

## Pre-Dentistry

**Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, M. Fultz, G. Gearner, J. Hare, D. Magrane, S. O'Keefe, D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith, C. Tuerk, S. Welter, C. Wymer

Dental schools' selection of applicants is based on science GPA, overall grades, Dental Admission Scores (DAT) and demonstration of superior qualifications in personal maturity, academic competence and demonstrated motivation for pursuing a career in dentistry. The DAT and application process should be completed by the fall one year prior to desired entry into dental school. Preparation for the DAT requires completion of a suggested curriculum emphasizing the biological and physical sciences. Due to increasingly competitive applicant pools, it is strongly recommended that students be very near to completion of a bachelor's degree at the expected time of entry into dental school. Pre-dental students generally follow a curriculum designed for the biology major with an integrated science or chemistry minor. However, certain complementary and specific elective and general education courses are recommended. A more detailed suggested curriculum is available from the pre-dental advisor.

## Pre-Medical Technology/Clinical Laboratory Science Program

**Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, M. Fultz, G. Gearner, J. Hare, D. Magrane, S. O'Keefe, D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith, C. Tuerk, S. Welter, C. Wymer

The field of medical technology or clinical laboratory science involves the medical application of the basic sciences. Principles from cellular and molecular biology, organic and biochemistry, microbiology, immunology, genetics and physiology are applied to laboratory testing.

In the clinical laboratory, samples from the body are tested to determine the presence, absence, extent or cause of disease. The accurate performance of these complex tests requires advanced education in all areas of clinical laboratory sciences, including chemistry, toxicology, immunohematology, hematology, urinaly-

sis, and microbiology. Medical Technology is an exciting career choice for people who like biology and chemistry, enjoy laboratory work, and desire to help others.

The continued growth of the health care industry is accompanied by an increasing demand for clinical laboratory settings. Graduates acquire positions in research laboratories, medical industry and sales, forensic medicine, law enforcement, state health departments, veterinary laboratories, educational programs, physician offices and large clinical laboratories.

After several years experience, medical technologists may choose to move up the career ladder into educational, supervisory, and managerial roles. Others obtain advanced education in management, business, or the computer sciences. Graduates of this program have excelled in all of these areas.

MSU is affiliated with the following accredited hospital schools of medical technology:

1. St. Elizabeth Medical Center, Covington, Ky.
2. Owensboro Mercy Health System, Owensboro, Ky.
3. Bellarmine University, Louisville, Ky.

Students pursuing a Bachelor of Science degree with a Major in Biology and Minor in Chemistry or integrated science, with the assistance of their medical technology coordinator, usually begin to make applications to medical technology schools at the beginning of their senior year. Acceptance by an accredited school of medical technology for a clinical year of study is competitive and is generally based on the applicant's academic record (minimum of 2.8 GPA and a minimum science GPA of 2.5), personal interviews, and letter of recommendation. The final decision for admittance into the program is made by the appropriate school of medical technology. MSU makes every effort to secure each student a position at one of the hospital-based schools of medical technology.

Affiliated hospitals charge tuition during the clinical year in order to help defray expenses incurred in providing the students laboratory experience. The hospitals provide the medical technology coordinator with an estimate of expenses, in addition to tuition or fees, the student will likely incur during the clinical training. Grants and/or loans may be available for eligible students.

Affiliated hospital schools do not assume any obligation to accept a maximum or minimum number of students each year from MSU. Selection is based on open competition.

**Clinical Year**

The following courses, equivalents or subject areas must be satisfactorily completed (at least 2.0 average) during the hospital-based clinical year to receive credit: Immunohematology, 58 hours lecture and 106 hours laboratory; Medical Microbiology, 80 hours lecture and 180 hours laboratory; Medical Mycology, 30 hours lecture and 33 hours laboratory; Serology and Immunology, 40 hours lecture and 32 hours laboratory; Routine Analysis, 40 hours lecture and 150 hours laboratory; Clinical Chemistry, 114 hours lecture and 180 hours laboratory; Medical Parasitology, 25 hours lecture and 45 hours laboratory; Hematology, 99 hours lecture and 180 hours laboratory; Medical Technology Seminar, 16 hours lecture; and Special Topics, 91 hours lecture and 33 hours laboratory.

**Certification Examination**

Upon successful completion of the clinical year of training, students are eligible to take a certifying examination in medical technology, such as the American Society of Clinical Pathologist (ASCP), Board of Registry.

For the purpose of scheduling course selection and complete preparation for medical technology school, pre-medical technology students must work closely with their faculty advisors.

For more information on Pre-Medical Technology, important links may be accessed from the Web site given at the beginning of this program description.

## Pre-Medicine

### Faculty

D. DeMoss, G. DeMoss, D. Eisenhour, M. Fultz, G. Gearner, J. Hare, D. Magrane, S. O'Keefe, D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith, C. Tuerk, S. Welter, C. Wymer

Admission requirements vary among medical schools, but all recognize the importance of a strong foundation in the natural sciences (biology, general and organic chemistry, mathematics, and physics), highly developed communication and thinking skills, and a good background in the social sciences and humanities. Competencies in these areas should be developed before taking the required Medical College Admission Test (MCAT). Many pre-medical students major in biology and minor in chemistry. Other options are acceptable and may be completed with the aid of the departmental pre-medical advisors. Certain complementary and specific general education courses are recommended for the pre-medical program of study. Students granted early admission to their medical school of choice may, upon completion of their medical degree, transfer selected medical school courses back to MSU for completion of their bachelor's degree in the sciences.

Since specific requirements do vary among medical schools, it is essential that the student investigate the requirements of the medical school(s) of his/her choice during the first year of the preparatory program.

For purposes of scheduling, course selection, and complete preparation for medical school, the pre-medical student must work closely with the assigned faculty advisor.

## Pre-Pharmacy

### Faculty

D. DeMoss, G. DeMoss, D. Eisenhour, M.Fultz,
G. Gearner, J. Hare, D. Magrane, S. O'Keefe,
D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon,
D. Smith, C. Tuerk, S. Welter, C. Wymer

The suggested program of pre-pharmacy study will meet the requirements for the University of Kentucky College of Pharmacy and most other pharmacy schools. To assure proper course selections and to meet all admission requirements, students must work closely with their faculty advisor. The 70 hours of required pre-pharmacy coursework of most colleges of pharmacy can be completed in two years, although it usually takes three years due to the rigorous nature of the course work. Four additional years are required at pharmacy school. Pre-pharmacy students in the department generally follow the initial curriculum designed for the biology major and chemistry minor. However, certain complementary and specific general education courses are recommended. The pre-pharmacy curriculum includes four semesters of biology, two semesters of general chemistry, two semesters of organic chemistry, two semesters of math, one semester of statistics, two semesters of English and one semester of microeconomics. An academic handbook and suggested curriculum are available from the pre-pharmacy advisor.

## Pre-Physical Therapy

### Faculty

D. DeMoss, G. DeMoss, D. Eisenhour, M. Fultz,
G. Gearner, J. Hare, D. Magrane, S. O'Keefe,
D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon,
D. Smith, C. Tuerk, S. Welter, C. Wymer

Most schools of physical therapy require 60 to 70 hours of selected course work in a pre-physical therapy program. Students who plan to enter the program in physical therapy should consult the catalog of the school they plan to attend to be certain they fulfill specific requirements.

The suggested pre-physical therapy curriculum at MSU will meet the requirements at most physical therapy schools. To assure proper course selection and to meet all admission requirements, students must work closely with their faculty advisor.

Pre-physical therapy students generally follow the curriculum designed for the biology major. However, certain complementary and specific general education courses are recommended. An academic handbook and suggested curriculum are available from the pre-physical therapy advisor.

## Pre-Physician Assistant

### Faculty

D. DeMoss, G. DeMoss, D. Eisenhour, M. Fultz
G. Gearner, J. Hare, D. Magrane, S. O'Keefe,
D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon,
D. Smith, C. Tuerk, S. Welter, C. Wymer

The Pre-Physician Assistant Program at MSU prepares students for admission to the professional school component of the University of Kentucky Physician Assistant Studies Program, either in Lexington or at its satellite campus in Morehead. To satisfy admission prerequisites, the recommended Pre-Physician Assistant curriculum at MSU consists of the completion of a major in biology and a minor in either chemistry or integrated science. In addition, the student must also complete courses in: medical terminology, sociology, general psychology and developmental psychology. MSU offers courses acceptable to meet all of the University of Kentucky prerequisite requirements. To assure proper course selection and to meet all admission requirements to the professional program students must work closely with their assigned faculty advisor.

In order to gain admission into the postgraduate program all students must have completed a bachelor's degree at an accredited institution including specific prerequisite courses. Selection of the applicants is based on cumulative GPA, GRE, personal interview, and recommendation. Due to an increasingly competitive applicant pool, it is strongly recommended that applicants obtain a bachelor's degree in one of the science fields. Completion of the two and a half year professional component in Physician Assistant School leads to a Master of Science in Physician Assistant Studies from the University of Kentucky.

## Pre-Podiatric Medicine

### Faculty

D. DeMoss, G. DeMoss, D. Eisenhour, M. Fultz,
G. Gearner, J. Hare, D. Magrane, S. O'Keefe,
D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon,
D. Smith, C. Tuerk, S. Welter, C. Wymer

Podiatric Medicine is the branch of medical sciences devoted to the study of human movement with primary focus being the ankle and foot. The podiatric physician is a health professional who is involved with examination, prevention, diagnosis, and treatment of foot disorders by physical, medical, and surgical means. A podiatric physician makes independent judgments, utilizes x-rays and laboratory tests for diagnostic purposes, prescribes medications, orders physical therapy, sets fractures, and performs surgery.

Admission to a college of podiatric medicine generally requires completion of a minimum of 90 semester hours of course work at an accredited undergraduate institution. However, due to the competitive applicant pool, it is strongly recommended that students obtain a bachelor's degree prior to entering a college of Podiatric Medicine. All applicants must take the Medical College

Admissions Test (MCAT) prior to admission to their podiatry school of choice. To assure proper course selection and to meet all admission requirements to the professional program, students should work closely with their faculty advisor.

A wide range of opportunities exist for the podiatric medical practitioner in today's healthcare system. Many communities are in critical need of the skills, techniques, and knowledge that a podiatrist can contribute to the team approach of providing comprehensive health care.

## Gulf Coast Research Laboratory

***www.usm.edu/gcr/***

MSU maintains a formal affiliation arrangement with the Gulf Coast Research Laboratory (GCRL) in Ocean Springs, Mississippi. Through this arrangement, our students may take field courses in marine science at GCRL during the summer. Credits for these courses are awarded through the University of Southern Mississippi and will be accepted as transfer credit at Morehead State University. The following is a list of courses taught at GCRL, their level (undergraduate or graduate), and the semester credit hours. Not all courses are offered each year. Most courses have prerequisites of eight to 16 hours of biology.

Marine Science I: Oceanography (U) . . . . . 5
Marine Science II: Marine Biology (U) . . . . . 5
Marine Invertebrate Zoology (U/G) . . . . . 6
Marine Ichthyology (U/G) . . . . . 6
Marine Ecology (U/G) . . . . . 5
Marine Aquaculture (U/G) . . . . . 6
Marine Mammals (U/G) . . . . . 5
Marine Botany (U/G) . . . . . 3
Biotechnology in Marine Biology (U/G) . . . . . 6
Coastal Ecology for Teachers (U/G) . . . . . 4
Special Topic: Beach Fauna (U/G) . . . . . 2
Special Topic: Cetacean Behavior and Cognition (U/G) . . . . . 3
Special Topic: Fauna of Submerged Aquatic Vegetation (U/G) . . . . . 2
Special Problems in Marine Science (U/G) . . . . . 1-6
Special Topics in Marine Science (U/G) . . . . . 1-6

Students may obtain more information about the Gulf Coast Research Laboratory and admission to the summer program by writing:

Office of Student Services
Gulf Coast Research Laboratory
P.O. Box 7000
Ocean Springs, MS 39566-7000
Telephone (228) 872-4200

# Department of Imaging Sciences

Barbara L. Dehner, Chair
b.dehner@moreheadstate.edu
408 Reed Hall
(606) 783-2639 or (606) 783-2641

### Faculty

M. Cooper (Clinical Coordinator), J. Darling, B. Dehner (Chair), L. Donathan, J. Fannin, C. Gibbs, W. Goodpaster (Diagnostic Medical Sonography Coordinator)

Morehead State University's Department of Imaging Sciences offers an Associate of Applied Science Degree in Radiologic Science (AAS) and a Bachelor of Science Degree in Imaging Sciences (BSIS) with areas of concentration in Computed Tomography/Magnetic Resonance and Diagnostic Medical Sonography.

## Associate of Applied Science in Radiologic Science

The Associate Degree Radiologic Science Program has a selective admission process based on completion of 31-32 credit hours of required pre-radiologic sciences courses with a minimum 2.5 grade point average and a minimum grade of "C" in each course.

Students must apply for admission by the 1st Monday in February of each year. Students are officially admitted into the program in the fall semester. The program consists of two years of radiologic science courses. The additional general education requirements for the baccalaureate degree may also be taken in conjunction with the courses of the associate degree.

Upon completion, the students will receive an Associate of Applied Science Degree and may be eligible to apply for the American Registry of Radiologic Technologists (ARRT) National Certification Examination in radiography.

## Program Outcomes

**The associate degree radiologic science program will:**

1. Prepare graduates who will meet entry-level standards.
2. Meet the needs of both graduates and employers.
3. Develop graduates who recognize the need for professional development and life-long learning.

## Assessment Procedures

Survey of graduates
Survey of employers
Monitoring of licensure examinations

## Admission Criteria

A. Unconditional acceptance to Morehead State University through the Office of Admissions. The Admissions Office may be contacted at (606) 783-2000.

B. Completion of the following 31-32 credit hours of required pre-radiologic science courses with a minimum grade of "C". In order to meet the application deadline, entering freshmen are highly encouraged to consider completing BIOL 231: Human Anatomy and nine additional credit hours of pre-radiologic science courses prior to the fall semester.

BIOL 231 – Human Anatomy . . . . . 3
BIOL 232 – Human Physiology. . . . . 3
CIS 101 – Computers for Learning . . . . . 3
CMSP 108 – Funds. of Speech Communication . . . . . 3
ENG 100 – Writing I . . . . . 3
MATH 152 – College Algebra . . . . . 3
*MSU 101 – Discovering University Life. . . . . 1
IMS/NURS 202 – Medical Terminology . . . . . 2
PSY 154 – Introduction to Psychology . . . . . 3
Physical Science Elective (SCI 103, Physics, or Chemistry). . . . . 3-4
*RSCI 110 – Intro to Radiologic Sciences . . . . . 1
**General education area studies or ENG 200 . . . . . 3
**Total . . . . . 31 – 32**

*Consideration may be granted for this course to be completed after admission during the first semester.
**Any area studies course fulfills the requirement for program admission; however, a Humanities Area Studies course also fulfills general education requirements for receipt of an associate degree and is recommended.

C. More than two failures of pre-radiologic science courses within two (2) years of application to the program will result in ineligibility for admission. This includes failure of more than two courses or failures of the same course more than twice. Students with course failure(s) prior to the two (2) year period will be considered for admission if the student has demonstrated satisfactory academic progress ("C" or above in required courses) since the course failure(s).

D. A grade point average of 2.5 or higher (with no rounding) in the required 30-31 pre-radiologic science courses (MSU 101 is not calculated in the GPA) and a cumulative GPA of 2.0 on all college work.

E. Meet the established health and physical capability requirements as listed below.
   1. Vision capabilities:
      a. Normal or corrected refraction within the range of 20/20 to 20/60.
      b. Able to distinguish color shade changes.
   2. Auditory capabilities:
      a. Possess normal or corrected hearing ability within 0 to 45-decibel range.
   3. Tactile capabilities:
      a. Possess in at least one hand the ability to perceive temperature change and pulsation and to differentiate between various textures and structures.
      b. Recognize an object by touching and handling.
   4. Language capabilities:
      a. Possess the ability to verbally communicate.
   5. Minimal motor capabilities:
      a. Grasp securely with two functional upper limbs.
      b. Push and/or pull moveable objects weighing 100-150 lbs.
      c. Lift at least 25 lbs. without assistance.
      d. Stand for long periods of time.
      e. Walk without assistance of canes, crutches, walkers, and/or humans.
      f. Reach above shoulders and below waist.
      g. Twist, bend, stoop/squat, and move quickly.
   6. Mental Health:
      a. Possess the ability to adapt to the environment, function in everyday activities, and cope with stressors.
   7. Freedom from transmittable disease as documented by:
      a. Negative PPD and/or chest x-ray within immediate past 12 months.
      b. Rubella and rubeola antibody test (titer values that indicate immunity) documentation of MMR (Rubella and Rubeola and Mumps) vaccine.
      c. Hepatitis B Vaccine series.
      d. Varicella zoster live-virus vaccine or reliable history of varicella (chicken pox) or serologic evidence of immunity.
      e. Immunization as recommended by the Advisory Committee on Immunization Practices of the U.S. Public Health Service and the Committee on Infectious Disease of the American Academy of Pediatrics.

F. Possess current certification in Basic Life Support for Health Care Providers (CPR) by the American Heart Association.

## Application Procedure

Applications will be accepted beginning in January and must be submitted by the **first Monday in February.**

A. Submit a complete application packet with the following required materials:
   1. Imaging Sciences Admission Application.
   2. Official transcripts from MSU and/or other universities/colleges attended.
   3. Copy of course description(s) if transfer credit is sought.

B. Mail complete application packet to:
Morehead State University
Department of Imaging Sciences
Associate of Applied Science in Radiologic Science
Academic Counseling Coordinators
Reed Hall 218 & 219
Morehead, KY 40351
Phone: (606) 783-2639 or
(606) 783-2641

## Requirements for the Completion of an Associate of Applied Sciences Degree in Radiologic Science

1. Complete a minimum of 81 semester credit hours. These include prescribed and elective general education credits, support courses, and radiologic sciences courses.
2. Earn a minimum cumulative GPA of 2.0 on all work completed at the University.
3. Complete at least 16 semester hours at MSU, including one semester preceding graduation. Extended campus sites satisfy this requirement, however correspondence courses do not.
4. Complete one semester hour of MSU 101 – Discovering University Life during the student's first semester if the student begins as a freshman or transfers to MSU with less than 24 credit hours.

## Fees and Expenses

Fees and expenses specific to the Department of Imaging Sciences Programs are in addition to those required by MSU. These are subject to change without prior notification. The students are responsible for the purchase of white uniforms, white hose (if applicable), white clinical shoes, white lab coat, malpractice insurance, laboratory fees, dosimeter related fees, film marker fees, (if applicable), and all housing and transportation expenses incurred during clinical internship assignments. Students are also responsible for all fees for criminal background checks, drug-testing, certification examinations and all applicable course fees.

**Additional Information**

- Students may be assigned to clinical practicum areas requi ring distant travel or relocation.
- Clinical experience and formal class sessions may be required during various hours of the day, evening, and night.

## Associate Degree Radiologic Science Program

## Curriculum Sequence

**Must have completed the 31-32 credit hours of pre-radiologic science courses and be officially admitted to Program.** All RSCI courses must be taken in sequence as listed.

**First Year**

**Fall Semester**

ENG 200 – Writing II. . . . . 3
RSCI 200 – Patient Care . . . . . 3
RSCI 206 – Radiographic Anat., Positioning and Image Production I. . . . . 5
RSCI 210 – Radiographic Equipment and Imaging I. . . . . 3
**Total . . . . . 14**

**Spring Semester**

RSCI 230 – Radiography Clinical Internship I . . . . . 10
RSCI 330 – Imaging Pathology . . . . . 2
**Total . . . . . 12**

**Summer I or Summer II**

RSCI 310 – Rad. Anat., Positioning, and Image Production II . . . . . 4
**Total . . . . . 4**

**Second Year**

**Fall Semester**

RSCI 300 – Film Critique and Evaluation . . . . . 2
RSCI 320 – Radiography Clinical Internship II . . . . . 10
**Total . . . . . 12**

**Spring Semester**

*Applications for the Baccalaureate Degree Programs due by 1st Monday of April.*

RSCI 335 – Radiation Biology and Protection . . . . . 2
RSCI 340 – Radiographic Equipment and Imaging II. . . . . 3
RSCI 346 – Radiation Physics and Electronics . . . . . 2
RSCI 350 – Seminar in Radiography. . . . . 2
*Elective
Humanities Area Studies Course . . . . . 3
**Total . . . . . 12**

**Required only if a Humanities Area Stuides course was not taken prior to admission into the Program.*

**Total for the AAS Degree in Radiologic Science . . . . . 81-85**

The following additional 18 credit hours of general education area studies courses must be taken if a student wishes to complete the Bachelor of Science Degree in Imaging Sciences at MSU. The courses can be taken in conjunction with the courses listed in the curriculum sequence above.

**Area Studies . . . . . Credit Hours**

2 Humanities. . . . . 6
1 Natural and Mathematical Sciences . . . . . 3
2 Social and Behavioral Sciences . . . . . 6

1 Practical Living . . . . . 3
**Total . . . . . 18**

## Bachelor of Science Degree in Imaging Sciences

The Baccalaureate Degree Imaging Sciences Program is a four-year program of study with areas of concentration in Computed Tomography/Magnetic Resonance (CT/MR) and Diagnostic Medical Sonography (DMS). The programs have a selective admission policy, which is separate and in addition to the University's admission procedure. The number of available clinical positions limits enrollment in the program. Candidates for the programs will be ranked according to grade point average in the general education courses, support courses, and radiography courses.

Students must apply for admission by the 1st Monday in April. Students are officially admitted into the programs in the following Summer II term. The program consists of thirteen months of either Computed Tomography/ Magnetic Resonance or Diagnostic Medical Sonography courses.

Upon completion of the CT/MR Program and the American Registry of Radiologic Technologists (ARRT) clinical requirements, the graduate may be eligible to sit for the ARRT National Certification Examination in Computed Tomography and Magnetic Resonance. Upon completion of the Diagnostic Medical Sonography Program, the graduate may be eligible to sit for the American Registry of Diagnostic Medical Sonography (ARDMS) National Certification Examinations.

### Admission Criteria

A. Unconditional acceptance to Morehead State University through the Office of Admissions. The Admissions Office may be contacted at (606) 783-2000.

B. Completion of the following courses with a minimum grade of "C" (some courses can be transferred from other institutions):

BIOL 231 – Human Anatomy . . . . . 3
BIOL 232 – Human Physiology . . . . . 3
CIS 101 – Computers for Learning . . . . . 3
CMSP 108 – Fundamentals of Speech Communication . . . . . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
MATH 152 – College Algebra . . . . . 3
IMS/NURS 202 – Medical Terminology . . . . . 2
PSY 154 – Introduction to Psychology . . . . . 3
Humanities Electives . . . . . 9
Natural & Mathematical Sciences Elective . . . . . 6
Practical Living Elective . . . . . 6
Social & Behavioral Sciences Electives . . . . . 6
**Total General Education & Support Courses . . . . . 50**

C. More than two failures of required courses within two years of application to the program will result in ineligibility for admission. This includes failure of more than two courses or failures of the same course more than twice. Students with course failure(s) prior to the two year period will be considered for admission if the student has demonstrated satisfactory academic progress (C or above in required courses) since the course failures

D. A GPA of 2.5 or higher for all required college work.

E. Graduate of the Associate Degree Radiologic Science Program at MSU or other radiography program accredited by the Joint Review Committee on Education in Radiologic Technology. Considerations for non-JRCERT program graduates will be considered on an individual or program basis. Graduates of an approved program may receive an equivalent credit block to satisfy the radiography component.

F. Registered and in good standing with the American Registry of Radiologic Technologists in Radiography. Applicants who are not registered must obtain certification prior to the beginning of the fall semester.

G. Meet the established health and physical capability requirements as listed below.
   1. Vision capabilities:
      a. Normal or corrected refraction within the range of 20/20 to 20/60.
      b. Able to distinguish color shade changes.
   2. Auditory capabilities: possess normal or corrected hearing ability within 0 to 45-decibel range.
   3. Tactile capabilities:
      a. Possess in at least one hand the ability to perceive temperature change and pulsation and to differentiate between various textures and structures.
      b. Recognize an object by touching and handling.
   4. Language capabilities: possess the ability to verbally communicate.
   5. Minimal motor capabilities:
      a. Grasp securely with two functional upper limbs.
      b. Push and/or pull moveable objects weighing 100-150 lbs.
      c. Lift at least 25 lbs. without assistance.
      d. Stand for long periods of time.
      e. Walk without assistance of canes, crutches, walkers, and/or humans.
      f. Reach above shoulders and below waist.
      g. Twist, bend, stoop/squat, and move quickly.
   6. Mental Health: possess the ability to adapt to the environment, function in everyday activities, and cope with stressors.
   7. Freedom from transmittable disease as documented by:
      a. Negative PPD and/or chest x-ray within immediate past 12 months.
      b. Rubella and rubeola antibody test (titer values that indicate immunity) documentation of MMR (Rubella and Rubeola and Mumps) vaccine.
      c. Hepatitis B Vaccine series.

d. Varicella zoster live-virus vaccine or reliable history of varicella (chicken pox) or serologic evidence of immunity.
e. Immunization as recommended by the Advisory Committee on Immunization Practices of the U.S. Public Health Service and the Committee on Infectious Disease of the American Academy of Pediatrics.

*Note: The Magnetic Resonance system has a very strong magnetic field that may be hazardous to individuals entering the MR environment if they have certain metallic, electronic, magnetic, or mechanical implants, devices, or objects.*

H. Possess current certification in Basic Life Support for Health Care Providers (CPR) by the American Heart Association.

## Application Procedure

Applications will be accepted beginning in January and must be submitted by the first Monday in April.

A. Submit a complete application packet with the following required materials:
1. Imaging Sciences Admission Application, Bachelor of Science Degree in Imaging Sciences designating the Computed Tomography/ Magnetic Resonance Program or Diagnostic Medical Sonography Program. Applicants applying to both programs must rank the programs into a first and second choice. Entrance will not be granted to both programs.
2. Official transcript(s) documenting all courses required for admission. Students currently enrolled are required to submit spring mid-term grades for consideration. Students attending institutions that do not provide mid-term grades must submit a letter from the radiography program coordinator or individual faculty in general education courses stating the student's letter grade at the current time for each course. All letters must be submitted on official institutional letterhead. Students must complete required courses with a "C" or better and maintain a grade point average of 2.5 or higher.
3. Copy of course description(s) if transfer credit is sought.
4. Copy of the current American Registry of Radiologic Technologists registration card for radiography. Applicants who are not registered must obtain certification prior to the beginning of the fall semester.
5. Copy of the current American Registry of Radiologic Technologists (Computed Tomography and/or Magnetic Resonance) registration card (if applicable).
6. Copy of the current American Registry of Diagnostic Medical Sonographers (ARDMS) registration card (if applicable).

*Note: If applying to both programs, you must rank your choice. Please select which program is your first and second preference. Entrance will not be granted to both programs. Failure to rank your choices (if applying to both programs) will make your application invalid.*

B. Mail complete application packet to:

Morehead State University
Department of Imaging Sciences
Bachelor of Science in Imaging Sciences
Academic Counseling Coordinators
Reed Hall 218 & 219
Morehead, KY 40351
Phone: (606) 783-2639 or
(606) 783-2641

## Requirements for Completion of a Bachelor of Science Degree in Imaging Sciences

A. Complete a minimum of 141-145 credit hours, of which, a minimum of 43 credit hours must be upper division course (numbered 300 or above). The total credit hours include general education, support, radiography, and Computed Tomography/ Magnetic Resonance or Diagnostic Medical Sonography courses.
B. Earn a minimum cumulative GPA of 2.0 on all work completed at the University.
C. Complete at least 32 credit hours at MSU with the last 16 hours preceding graduation earned at MSU. Extended campus sites satisfy this requirement; however, correspondence courses do not.

## Fees and Expenses

Fees and expenses specific to the Department of Imaging Sciences Programs are in addition to those required by MSU. These are subject to change without prior notification. The students are responsible for the purchase of white uniforms, white hose (if applicable), white clinical shoes, white lab coat, malpractice insurance, laboratory fees, dosimeter related fees, film marker fees (if applicable), and all housing and transportation expenses incurred during clinical internship assignments. Students are also responsible for all fees for criminal background checks, drug-testing, certification examinations and all applicable course fees.

### Additional Information

- Students may be assigned to clinical practicum areas requiring distant travel or relocation.
- Clinical experience and formal class sessions may be required during various hours of the day, evening, and night.

## Computed Tomography/Magnetic Resonance Program

## Student Outcomes

**The student will:**

A. Synthesize principles from mathematics, natural sciences, behavioral sciences, and humanities to serve as a foundation for

computed tomography and/or magnetic resonance practice.

B. Demonstrate an understanding of human sectional anatomy, physiology, pathology, pharmacology, and medical terminology

C. Integrate scientific knowledge and technical skills with effective communication methods to provide quality care and useful diagnostic information.

D. Employ professional and ethical judgment and critical thinking in the practice of computed tomography and/or magnetic resonance.

## Assessment Procedures

Survey of graduates
Survey of employers
Monitoring of certification examinations

**Required Computed Tomography/Magnetic Resonance Program Curriculum Sequence**

**Summer II**
CTMR 405 – CT/MR Sectional Anatomy . . . . . 4
CTMR 413 – Advanced Patient Care. . . . . 2
**Total . . . . . 6**

**Fall Semester**
CTMR 403 – Computed Tomographic Physics & Instrumentation . . . . . 3
CTMR 443 – Imaging Procedures in CT. . . . . 4
CTMR 467 – Computed Tomography Practicum I . . . . . 5
CTMR 483 – Seminar in CT. . . . . 2
**Total . . . . . 14**

**Spring Semester**
CTMR 451 – MR Physical Principles of Image Formation . . . . . 4
CTMR 455 – Imaging Procedures in Magnetic Resonance . . . . . 3
CTMR 461 – Magnetic Resonance Practicum I . . . . . 5
CTMR 487 – Seminar in Magnetic Resonance . . . . . 2
RSCI 499C – Senior Seminar in Radiologic Sciences . . 3
**Total . . . . . 17**

**Summer I**
CTMR 477 – Advanced Practicum I . . . . . 4
**Total . . . . . 4**

**Summer II**
CTMR 485 – Advanced Practicum II . . . . . 4
**Total . . . . . 4**

**Total Core Requirement . . . . . 97-101**
**Total CT/MR Program. . . . . 45**
**Total BSIS, CT/MR . . . . . 142-146**

Upon permission, experienced computed tomography/ magnetic resonance practitioners may elect to take 'CLEP" tests for credit in subjects they have mastered. Please refer to the University and department "CLEP" policies for additional information.

# Diagnostic Medical Sonography Program

## Student Outcomes

**The student will:**

A. Synthesize principles from mathematics, natural sciences, social and behavioral sciences, and humanities to serve as a foundation for sonographic practice.

B. Integrate scientific knowledge and technical skills with effective communication methods to provide quality care and useful diagnostic information.

C. Employ critical thinking by practicing as an entry-level sonographer.

D. Demonstrate professional and ethical behavior as a diagnostic medical sonographer.

## Assessment Procedures

Survey of graduates
Survey of employers
Monitoring of certification examinations

**Required Diagnostic Medical Sonography Program Curriculum Sequence**

**Summer II**
DMS 400 – Introduction to Sonography . . . . . 1
DMS 402A – Scanning Techniques I. . . . . 1
DMS 408 – Sonographic Sectional Anatomy . . . . . 2
**Total . . . . . 4**

**Fall Semester**
DMS 410 – Abdominal Sonography . . . . . 2
DMS 412A – Scanning Techniques II . . . . . 1
DMS 416A – Scanning Techniques III . . . . . 1
DMS 418 – Genitourinary Sonography . . . . . 2
DMS 420 – Sonographic Physics and Instrumentation I. 2
DMS 430 – Sonography Internship I. . . . . 6
**Total . . . . . 14**

**Spring Semester**
DMS 426A – Scanning Techniques IV . . . . . 1
DMS 428 – Obstetrical Sonography . . . . . 2
DMS 438 – Selected Topics in Sonography . . . . . 2
DMS 441 – Sonographic Physics and Instrumentation II 2
DMS 442A – Scanning Techniques V . . . . . 1
DMS 450 – Sonography Internship II . . . . . 6
RSCI 499C – Senior Seminar in Radiologic Sciences . . 3
**Total . . . . . 17**

**Summer I**
DMS 470 – Sonography Internship III . . . . . 4
**Total . . . . . 4**

**Summer II**
DMS 480 – Seminar in Sonography . . . . . 2
DMS 490 – Sonography Internship IV . . . . . 3
**Total . . . . . 5**

**Total Core Requirement . . . . . 97-101**
**Total Sonography Option . . . . . 44**
**Total BSIS, DMS . . . . . 141-145**

Upon permission, experienced sonographers may elect to take 'CLEP" tests for credit in subjects they have mastered. Please refer to the University and department "CLEP" policies for additional information.

## Department of Industrial & Engineering Technology

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### Faculty

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### Program Competencies Associate of Applied Science

**Students completing the program should be able to:**

1. Perform entry level technical occupations in business, industry, and service organizations.
2. Understand and apply theory and concepts of related disciplines to solve technical problems.
3. Apply concepts and skills developed in a variety of disciplines to successfully perform as technicians in the workforce.
4. Develop a field of specialization in one of the following areas: Computer Aided Design and Graphic Technology, Construction Management Technology, Electrical/ Electronics Technology, Manufacturing Technology or Telecommunications and Computer Technology.

### Assessment Procedures

Exit Examinations
Survey of graduating students
Randomly administered alumni survey
*Note: Students are required to obtain a grade of "C" in all technical and supplemental courses.*

### Associate of Applied Science in Industrial Technology

**General Education . . . . . 21**
*See general education requirements for the University.*

The following specific general education requirements must be completed:

IET 110 – Fundamentals of Computer Technology . . . . 3
MATH 152 – College Algebra (or higher) . . . . . 6

Students must complete a minimum of 42 semester hours in the area of Industrial Technology, of which 18 semester hours are the following core Industrial Technology course requirements. The other 24 semester hours will be selected from one of the following technical options: Computer-Aided Design and Graphic Technology, Construction Management Technology, Electrical/ Electronics Technology, Manufacturing Technology or Telecommunications and Computer Technology.

**Core Requirements . . . . . 18**
IET 120 – Technology Systems . . . . . 3
IET 320 – Industrial Project Management . . . . . 3
ITCD 103 – Computer Aided Design and Drafting I . . . 3
IET 303 – Materials Science . . . . . 3
ITEC 141 – Direct Current Circuits (DC) . . . . . 3
ITMT 186 – Manufacturing and Fabrication . . . . . 3

**Option 1: Construction Management Technology**
**Core Requirements . . . . . 18**
**Option Requirements . . . . . 24**
ITCM 101 – Introduction to Construction Technology . . . . . 3
ITCM 202 – Structural Design . . . . . 3
ITCM 203 – Construction Methods andEquipment I . . . 3
ITCM 204 – Codes, Contracts, and Specifications . . . . . 3
ITCM 205 – Estimating and Construction Costs . . . . . 3
ITCM 304 – Interpretation of Technical Drawings . . . . 3
ITCM 307 – Hydrology . . . . . 3
ITCM 310 – Principles of Surveying . . . . . 3

**Option 2: Electrical/Electronics Technology**
**Core Requirements . . . . . 18**
**Option Requirements . . . . . 24**
ITEC 215 – Basic Control Systems . . . . . 3
ITEC 240 – Residential Wiring . . . . . 3
ITEC 241 – Alternating Current Circuits (AC) . . . . . 3
ITEC 242 – Principles of Communications . . . . . 3
ITEC 244 – Fiber Optic Theory and Application . . . . . 3
ITEC 245 – Digital Electronics . . . . . 3
ITEC 342 – Electronic Devices and Circuits . . . . . 3
ITEC 346 – Programmable Logic Controllers (PLC) . . . 3

**Option 3: Computer Aided Design & Graphic Technology**
**Core Requirements . . . . . 18**
**Option Requirements . . . . . 24**
*Select from the following list in consultation with advisor:*
ITCD 203 – Computer Aided Design and Drafting II . . 3
ITCD 215 – Introduction to 3D Design and Modeling . . . . . 3
ITCD 301 – Tool and Equipment Design . . . . . 3
ITCD 305 – Residential Architectural Design . . . . . 3

ITCD 315 – 3-D Design, Modeling and Animation . . . . 3
ITCG 102 – Graphic Arts I . . . . . 3
ITCG 202 – Graphic Arts II . . . . . 3
ITCG 302 – Offset Lithography . . . . . 3
ITCG 303 – Computer Imaging and Illustration . . . . . 3
ITCG 350 – Electronic Composition I . . . . . 3

*In addition to the course listed above, students may take six hours of elective credit from ITCM or ITMT areas.*

**Option 4: Manufacturing Technology**

**Core Requirements . . . . . 18**
**Option Requirements . . . . . 24**
IET 260 – Hydraulics and Pneumatics . . . . . 3
ITEC 241 – Alternating Current Circuits (AC) . . . . . 3
ITMT 106 – Thermoplastics Processing . . . . . 3
ITMT 170 – Fundementals of Robotics . . . . . 3
ITMT 270 – Robotic Systems Engineeering . . . . . 3
ITMT 286 – Machine Tool Processes . . . . . 3
ITMT 370 – Robotics Interfacing Engineering . . . . . 3
ITMT 386 – NC-CNC Manufacturing Technology . . . . 3

**Option 5: Telecommunications and Computer Technology**

**Core Requirements . . . . . 18**
**Option Requirements . . . . . 24**
ITEC 144 – Network Fundamentals . . . . . 3
ITEC 241 – Alternating Current Circuits (AC) . . . . . 3
ITEC 242 – Principles of Communications . . . . . 3
ITEC 244 – Fiber Optic Theory and Applications . . . . . 3
ITEC 245 – Digital Electronics . . . . . 3
ITEC 342 – Electronic Devices and Circuits . . . . . 3
ITEC 344 – Wireless Communications . . . . . 3
ITEC 345 – Microprocessor Electronics . . . . . 3

## Bachelor of Science in Engineering Technology

### Program Competencies

**Upon successful completion, the Engineering Technology graduates are expected to:**

1. Apply scientific concepts to the solution of technological problems;
2. Apply theories, concepts, and principles of related disciplines to develop the communication skills required for engineering technologists;
3. Perform as a technical professional in business, industry, education and government;
4. Apply concepts and skills developed in a variety of technical and professional disciplines including computer applications, materials properties, production processes, quality control, industrial design and safety;
5. Plan, facilitate, and integrate technology and problem solving techniques in the economic enterprise;
6. Engage in applied technical research in order to add to the knowledge of the discipline and to solve problems which surface in the workplace.

### Assessment Procedures

With respect to the overall competencies of the program, the IET Department will use senior exit examinations, senior capstone projects, surveys of graduating seniors, surveys of program alumni, and surveys of employers of Engineering Technology graduates. These various measures are meant to assess the degree to which education and training in the program serves the needs of our students, as well as the needs of employers.

## Bachelor of Science Engineering Technology

The program will provide students with the knowledge and understanding of more rigorous and analytical methods for technical problem solving in an industrial setting. The development of such competencies is essential to the preparation of skilled technical professionals who can undertake tasks requiring greater depth and understanding of advanced technology. The Engineering Technology program aims to prepare a group of graduates who will fill advanced engineering technology positions in business and industry. The main objectives of the program are: (1) to develop students with enhanced technological skills; and, (2) to place these students in business, industry, and government as technical problem-solvers.

### Program Requirements

**Specific General Education Courses . . . . . 22**
MATH 353 – Statistics . . . . . 3
PHYS 201/201A – Elementary Physics I/Lab . . . . . 4
ECON 101 – Introduction to Economics
OR ECON 201 – Principles of Macroeconomics . . . . . 3
IET 110 – Fundamentals of Computer Technology . . . . . 3
IET 120 – Technology Systems . . . . . 3
IET 300 – Technology and Society . . . . . 3
IET 499C – Senior Project . . . . . 3

**Mathematics . . . . . 8**
MATH 175* – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4

**Physical Sciences. . . . . 8**
PHYS 202/202A* – Elementary Physics II/Lab . . . . . 4
CHEM 101/101L – Survey of Chemistry/Lab . . . . . 4

**Computer Science. . . . . .**
CS/MATH 170* – Introduction to Computer Science . . . 4
CIS 205 – C/C++ Programming. . . . . 3

**Business/Economics . . . . . 6**
ECON 202 – Principles of Microeconomics . . . . . 3
ACCT 281 – Principles of Financial Accounting . . . . . 3

**IET Core . . . . . 30**
IET 303 – Materials Science . . . . . 3
IET 310 – Engineering Economics Analysis . . . . . 3

IET 319 – Quality Control . . . . . 3
IET 320 – Industrial Project Management . . . . . 3
IET 327 – Applied Industrial Management . . . . . 3
IET 330 – Industrial Design . . . . . 3
IET 419 – Total Quality Improvement . . . . . 3
IET 422 – Industrial Safety Std. and Enforcement . . . . . 3
IET 430 – Facilities Management . . . . . 3
IET 519 – Design of Experiments . . . . . 3

**Area of Specialization from the following list**
*(Choose 27 hours):*
*(15 hours from 300-level or above)*
*In consultation with the academic advisor, select from:*
ITCD 103 – Computer-Aided Drafting and Design . . . . 3
ITCD 215 – Intro. to 3-D Design and Modeling . . . . . 3
ITCD 315 – Parametric Modeling and Animation. . . . . 3
ITCD 403 – Computer Aided Design of Mechanisms. . . 3
ITCM 202 – Structural Design. . . . . 3
IET 317 – Just in Time & Lean Systems . . . . . 3
ITCM 307 – Hydrology . . . . . 3
ITCM 310 – Plane Surveying . . . . . 3
ITEC 141 – Direct Current Circuits. . . . . 3
ITEC 245 – Digital Electronics . . . . . 3
ITEC 355 – Digital and Microcontroller Sys. Design . . . 3
ITEC 345 – Microprocessor Programming . . . . . 3
ITEC 445 – Microprocessor Interfacing . . . . . 3
ITEC 344 – Wireless Communications . . . . . 3
ITEC 480 – Dig. Communications and Networking . . . . 3
ITEC 500 – Digital Signal Processing . . . . . 3
ITMT 170 – Fundamentals of Robotics . . . . . 3
ITMT 270 – Robotics Systems Engineering . . . . . 3
ITMT 370 – Robotics Interfacing . . . . . 3
ITMT 488 – Flexible Manufacturing Systems. . . . . 3

* *Courses to be completed by provisionally admitted students*

## Bachelor of Science in Industrial Technology

### Program Competencies

**Students completing this program should be able to:**

1. Perform technical-management occupations in business, industry, education, and government.
2. Apply theories, concepts, and principles of humanities, social and behavioral sciences, and other disciplines to develop communications skills required for supervisors and technical-managers.
3. Understand and apply concepts of mathematics, physics, statistics, economics, computer fundamentals, and other disciplines to solve technological problems.
4. Apply concepts and skills developed in a variety of technical and related disciplines including total quality management, materials and production processes, supervisory and management principles, and quality control to manage personnel and facilities.
5. Develop a field of specialization in one of the following areas: Construction Management Technology, Electrical/Electronics Technology, Computer Aided Design and Graphic Technology, Manufacturing Technology or Telecommunications and Computer Technology.

### Assessment Procedures

Exit examinations
Capstone project
Survey of graduating students
Randomly administered survey of alumni and employers
*Note: Students are required to obtain a grade of "C" in all technical and supplemental courses.*

**Industrial Technology Area of Concentration**

The student must complete the departmental and University general education requirements and a minimum of 72 semester hours in the area of Industrial Technology, of which 36 semester hours are the Industrial Technology core requirements. The other 36 semester hours will be selected from one of the following technical options: Construction Management Technology, Computer Aided Design and Graphic Technology, Electrical/Electronics Technology, Manufacturing Technology, or Telecommunications and Computer Technology.

*Note: A maximum of 12 academic credits are offered in the BS degree program from Industrial Work Experience through cooperative education study. The courses 239, 339, and 439 within content areas of IET, ITEC, ITCD, ITCG, ITCM and ITMT can be selected following consultation with the student's advisor.*

**General Education Requirements . . . . . 48**
*See general education requirements for the University.*

*The following specific general education requirements must be completed for all Industrial Technology options:*
ECON 101 – Introduction to Economics, or
ECON 201 – Principles of Macroeconomics. . . . . 3
IET 110 – Fundamentals of Computer Technology . . . . 3
IET 120 – Technology Systems . . . . . 3
IET 300 – Technology and Society . . . . . 3
IET 499C – Senior Project . . . . . 3
MATH 152 – College Algebra or higher . . . . . 3
MATH 353 – Statistics . . . . . 3
PHYS 201 – Elementary Physics I . . . . . 3
PHYS 201A – Elementary Physics I Laboratory . . . . . 1

**Core Requirements . . . . . 36**
IET 303 – Materials Science . . . . . 3
IET 317 – Just in Time and Lean Systems . . . . . 3
IET 319 – Quality Control . . . . . 3
IET 320 – Industrial Project Management . . . . . 3
IET 327 – Applied Industrial Management . . . . . 3
IET 330 – Industrial Design . . . . . 3
IET 419 – Total Quality Improvement . . . . . 3

IET 422 – Industrial Safety Standards & Enforcement . 3
ITCD 103 – Computer Aided Design and Drafting I . . . 3
ITCM 101 – Introduction to Construction Technology . 3
ITEC 141 – DC Circuits . . . . . 3
ITMT 186 – Manufacturing and Fabrication . . . . . 3

**Technical Option 1: Construction Management Technology**

**Option Requirements . . . . . 36**

ITCM 202 – Structural Design . . . . . 3
ITCM 203 – Construction Methods and Equipment . . . 3
ITCM 204 – Codes, Contracts, and Specifications . . . . . 3
ITCM 205 – Estimating and Construction Costs . . . . . 3
ITCM 304 – Interpretation of Technical Drawing . . . . . 3
ITCM 307 – Hydrology . . . . . 3
ITCM 310 – Principles of Surveying . . . . . 3
ITCM 403 – Construction Methods & Equipment II . . . 3
ITCM 410 – Construction Surveying . . . . . 3
ITCD 405 – Civil Drafting . . . . . 3

**Technical Option 2: Electrical/Electronics Technology**

**Option Requirements . . . . . 36**

*The student will select 12 courses (36 hours) from a total of 13 (42 hours) listed below:*

ITEC 215 – Basic Control Systems . . . . . 3
ITEC 240 – Residential Wiring . . . . . 3
ITEC 241 – Alternating Current Circuits (AC) . . . . . 3
ITEC 242 – Principles of Communications . . . . . 3
ITEC 245 – Digital Electronics . . . . . 3
ITEC 342 – Electronic Devices and Circuits . . . . . 3
ITEC 344 – Wireless Communications . . . . . 3
ITEC 345 – Microprocessor Electronics . . . . . 3
ITEC 346 – Programmable Logic Controllers (PLC) . . . 3
ITEC 355 – Digital and Microcontroller System Design 3
ITEC 443 – Industrial Electricity . . . . . 3
ITEC 444 – Satellite Communications . . . . . 3
ITEC 445 – Computer Electronics . . . . . 3
ITEC 480 – Digital Communication and Networking . . 3

**Technical Option 3: Computer Aided Design & Graphic Technology**

**Option Requirements . . . . . 36**

*Select from the following list in consultation with advisor:*

ITCD 203 – Computer Aided Design & Drafting II . . . . 3
ITCD 215 – Introduction to 3D Design & Modeling . . . 3
ITCD 301 – Tool and Equipment Design . . . . . 3
ITCD 305 – Residential Architectural Design . . . . . 3
ITCD 315 – 3D Design, Modeling and Animation . . . . . 3
ITCD 403 – Computer Aided Design of Mechanisms . . 3
ITCD 404 – Commercial Architectural Design . . . . . 3
ITCD 405 – Civil Drafting . . . . . 3
ITCG 102 – Graphic Arts I . . . . . 3
ITCG 202 – Graphic Arts II . . . . . 3
ITCG 302 – Offset Lithography . . . . . 3
ITCG 303 – Computer Imaging and Illustration . . . . . 3
ITCG 322 – Electronic Imaging and Photography . . . . . 3
ITCG 350 – Electronic Composition I . . . . . 3
ITCG 351 – Graphic Duplication . . . . . 3
ITCG 450 – Electronic Composition II . . . . . 3
ITCM 202 – Structural Design . . . . . 3

*In addition to the course listed above, students may take six hours of elective credit from ITCM or ITMT areas.*

**Technical Option 4: Manufacturing Technology**

**Option Requirements . . . . . 36**

*Select from the following list in consultation with advisor.*

IET 260 – Hydraulics and Pneumatics . . . . . 3
ITMT 170 – Fundementals of Robotics . . . . . 3
ITMT 270 – Robotic Systems Applications. . . . . 3
ITMT 286 – Machine Tool Processes . . . . . 3
ITMT 370 – Robotics Interfacing Engineering . . . . . 3
ITMT 386 – NC-CNC Manufacturing Technology . . . . 3
ITMT 470 – Robotics Applications Engineering . . . . . 3
ITMT 488 – Flexible Manufacturing Eng Tech . . . . . 3

*Select an additional four classes (12 credit hours) from the following list in consultation with advisor. The student must take at least six of the twelve hours in classes 300 level or higher.*

ITMT 106 - Thermoplastic Processing . . . . . 3
ITMT107 - Thermosetting Plastics and Composites. 3
ITMT 306 - Mold Design and Construction . . . . . 3
ITMT 307 or IET 387. . . . . 3
ITCD 203 - Computer Aided Design and Drafting II . . . 3
ITCD 215 - Introduction to 3D Design and Modeling . . 3
ITCD 301 - Tool and Equipment Design. . . . . 3
ITCD 315 - 3D Design, Modeling and Animation . . . . . 3
ITCD 403 - Computer Aided Design of Mechanisms . . . 3
ITEC 144 - Networking Fundamentals . . . . . 3
ITEC 215 - Basic Control Systems . . . . . 3
ITEC 241 - AC Circuits . . . . . 3
ITEC 346 - Programmable Logic Controllers . . . . . 3
ITEC 443 - Industrial Electricity . . . . . 3

**Technical Option 5: Telecommunications and Computer Technology**

**Option Requirements . . . . . 36**

ITEC 144 – Network Fundamentals . . . . . 3
ITEC 241 – Alternating Current Circuits (AC) . . . . . 3
ITEC 242 – Principles of Communications . . . . . 3
ITEC 244 – Fiber Optic Theory and Appplications . . . . 3
ITEC 245 – Digital Electronics . . . . . 3
ITEC 344 – Wireless Communications . . . . . 3
ITEC 345 – Microprocessor Electronics . . . . . 3
ITEC 355 – Digital and Microcontroller System Design 3
ITEC 444 – Satellite Communications . . . . . 3
ITEC 445 – Computer Electronics . . . . . 3
ITEC 480 – Digital Communication and Networking . . 3
ITEC 500 – Digital Signal Processing I . . . . . 3
ITEC 550 – Digital Signal Processing II . . . . . 3

## Bachelor of Science in Industrial Education

**Upon completion of the program, the new teacher (student) will be able to:**

1. Teach technology courses in one of the following areas: Computer Aided Design and Graphic Technology, Construction Management Technology, Electrical/ Electronics Technology, Manufacturing Technology or Telecommunications and Computer Technology.
2. Demonstrate competence in Kentucky's new teacher standards.
3. Apply new teacher standards in 5-12 technology education or secondary or post-secondary occupational based programs.

### Assessment Procedures

Exit Examinations
Survey of graduating students
Randomly administered alumni survey
Capstone course

*Note: Students are required to obtain a grade of "C" in all technical and supplemental courses.*

**Area of Concentration**

The student must complete the departmental and University general education requirements and a minimum of 39 semester hours of Industrial Education core requirements.

*Note: Industrial Education majors are required to have documented evidence of 2,000 clock hours of work experience for Career and Technical Education option, and 1,000 clock hours of work experience for Technology Education option. This work experience is to be directly related to their teaching areas. If this requirement has not been met prior to entering this degree program, it can be fulfilled by IET – 398: Supervised Work Experience, for three credit hours.*

**Technical Option 1: Technology Education**
**Professional Requirements:**

CTE 207 – Foundations of Career & Technical Ed. . . . . 3
EDF 311 – Learning Theories and Assessment in Ed . . 3
EDEM 330 – Foundations of Reading . . . . . 3
EDSP 332 – Teaching the Exceptional Student # . . . . . 3
CTE 388 – Methods of Curriculum Development # . . . 3
CTE 392 – Methods of Instructional Technology # . . . . 3
CTE 470 – Methods of Instruction # . . . . . 3
CTE 478 – Student Teaching Practicum # . . . . . 12
IET 496 – Organization and Management of the Lab . . 3
IET 499C – Senior Project * . . . . . 3

**Additional Technology Requirements . . . . . 9**
Selected courses from the following technical areas in con sultation with advisor:
ITCM, IET, ITMT

*# Course requires admission into the Teacher Education Program*
** Also applies as general education requirement*

**Technical Option 2: Career and Technical Education**

CTE 207 – Foundations of Career and Technical Ed . . . 3
CTE 185 – MOI Career and Technical Education . . . . . 3
CTE 372 – Technical Media Development . . . . . 3
CTE 364 or CTE 388 . . . . . 3
CTE 393 – Methods in Career and Technical Education 3
CTE 394 – Practicum in Career and Technical Ed. . . . . 8
IET 499C – Senior Project * . . . . . 3

**Specialization Component . . . . . 24**
IET 381 – Related Sci, Math, & Tech in Occupations . . 6
IET 382 – Manipulative Skills in Occupations . . . . . 6
IET 383 – Knowledge of Related Subjects . . . . . 6
Specialization Elective . . . . . 6

** Also applies as General Education Requirement*
*# IET 394 is usually taken for four hours at the Associate level and taken for an additional four hours at the Bachelor level. If the student is only working on the Bachelor degree IET 394 must be taken for eight hours to complete necessary requirements.*

**Minor in Industrial Technology**

**Minor . . . . . 24**
**Core Requirements . . . . . 9**

*Six hours from the following:*
ITCD 103 – Computer Aided Design and Drafting I . . . 3
ITCM 101 – Introduction to Construction Technology . 3
ITEC 141 – Direct Current Circuits (DC) . . . . . 3
ITMT 186 or ITMT 170 . . . . . 3

*Select one course from the following:*
IET 120 – Technology Systems . . . . . 3
IET 300 – Technology and Society . . . . . 3
IET 319 – Quality Control . . . . . 3
IET 320 – Industrial Project Management . . . . . 3
IET 419 – Total Quality Improvement . . . . . 3
**Option Requirements . . . . . 15**
*Chosen in consultation with minor advisor.*
**Choose from the following . . . . . 9**
ITCD, ITCM, ITEC, or ITMT option
**Technical electives . . . . . 6**

## Bachelor of Science in Technology Management

The 2+2 Technology Management program specifically targets Kentucky Community and Technical College System (KCTCS) associate-level graduates from technology-related programs and is intended as a "completer" program for the KCTCS associate degree graduates. Students must have graduated with an associate degree from the KCTCS with a technology-related degree. Such associate-level degree programs include: Computer Aided Drafting, Electrical/Electronics Technology, Machine Tool Technology, Applied Process Technology, Quality Management Systems, Manufacturing Systems Technology, Surveying and Mapping, Industrial Maintenance Technology, Wood

Manufacturing Technology, Industrial Automation Technology, Industrial Chemical Technology, Instrumentation and Process Control, and Civil Engineering Technology. Students with other technology-related degrees not listed here from KCTCS or other community college systems may petition to qualify under this requirement

## Program Competencies

**The student exiting the program in Technology Management will:**

1. Apply scientific and technological concepts to solving technological problems;
2. Apply theories, concepts, and principles of related disciplines to develop the communication skills required for technology managers;
3. Perform as a technical management professional in business, industry, and government;
4. Apply concepts and skills developed in a variety of technical and professional disciplines including computer applications, materials properties, production processes, quality control, industrial design and safety;
5. Plan, facilitate, and integrate technology and problem solving techniques in the economic enterprise; and,
6. Engage in applied technical research in order to add to the knowledge of the discipline and to solve problems which surface in the workplace.

## Assessment Procedures

senior exit examinations
senior capstone projects
surveys of graduating seniors
surveys of program alumni
surveys of employers of Technology Management graduates

**General Education Requirements**

**Mathematics**
MATH 152 - College Algebra (or equivalent) . . . . . 3
MATH 353 - Statistics (or equivalent) . . . . . 3

**Physical Sciences**
PHYS 201 - Elementary Physics I (or equivalent) . . . . . 3
PHYS 201A - Elementary Physics I Lab (or equivalent) . . . 1

**Computer Science**
IET 110 - Fundamentals of Computer Technology (or equivalent) . . . . . 3

**Social and Behavioral Science**
IET 300 - Technology and Society (or equivalent) . . . . . 3

**Practical Living**
IET 120 - Technology Systems (or equivalent) . . . . . 3

**Integrative Component**
IET 499C - Senior Project . . . . . 3

**Required General Education Credits . . . . . 22***

*In addition to the above listed required courses, each student must completely satisfy the general education requirements (or their equivalent) for a bachelor degree at Morehead State University.

**Technology Management Program Requirements**
IET 303 - Materials Science . . . . . 3
IET 310 - Engineering Economics Analysis . . . . . 3
IET 317 - Just in Time and Lean Systems . . . . . 3
IET 319 - Quality Control . . . . . 3
IET 320 - Industrial Project Management . . . . . 3
IET 327 - Applied Industrial Management . . . . . 3
IET 330 - Industrial Design . . . . . 3
IET 371 - Seminar . . . . . 1
IET 419 - Total Quality Improvement . . . . . 3
IET 422 - Industrial Safety Std. and Enforcement . . . . . 3
IET 430 - Facilities Management . . . . . 3
IET 519 - Design of Experiments . . . . . 3
Electives . . . . . 8
**Total Program Requirements . . . . . 64**

# Department of Mathematics and Computer Science

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## Faculty

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## Program Competencies

**The student exiting the programs in the mathematical sciences will:**

1. Analyze and solve problems in the areas of algebra, analysis, statistics, and geometry. The student should be able to work individually and as a member of a team. Depending on the program emphasis, the student should possess the concept comprehension skills mentioned above at a sufficient level of expertise to function successfully as a teacher of mathematics, as a contributing member in business or industry, or as a graduate student pursuing an advanced degree in mathematics, statistics, or computer science.

2. Use technology as an aid in the solution of problems. Specifically, the student should be able to write and effectively use programs for computers and graphing calculators.
3. Develop appropriate learning skills to foster the investigation of mathematical ideas and direct his/her own learning.
4. Communicate the mathematical ideas learned in the program to others. This ability should exist in both written and oral forms of communication.

## Assessment Procedures

Senior capstone
Survey of graduates
Exit interviews
Major Field Achievement Test

## Bachelor of Science

The Department of Mathematics and Computer Science is committed to the education of students who intend (1) to teach mathematics at any level, (2) to apply mathematics or computer science in industry or government, or (3) to use mathematical techniques and concepts in their chosen fields.

### Area of Concentration in Mathematics (Non-Teaching)

CS/MATH 170 – Introduction to Computer Science . . . 4
MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4
MATH 276 – Calculus III . . . . . 4
MATH 300 – Introduction to Mathematical Proof . . . . . 3
MATH 301 – Elementary Linear Algebra . . . . . 3
MATH 312 – Numerical Methods . . . . . 3
MATH 350 – Introduction to Higher Algebra . . . . . 3
MATH 363 – Differential Equations . . . . . 3
MATH 365 – Introduction to Mathematical Statistics . . 3
MATH 410 – Introduction to Real Analysis . . . . . 3
MATH 481 – Mathematics for Engineers and Scientists, or
MATH 355 – Operations Research . . . . . 3
MATH 504 – Topology, or
MATH 586 – Complex Variables . . . . . 3
MATH 499C – Senior Capstone . . . . . 3
PHYS 231 – Engineering Physics I . . . . . 4
PHYS 231A – Engineering Physics I Laboratory . . . . . 1
PHYS 232 – Engineering Physics II . . . . . 4
PHYS 232A – Engineering Physics II Laboratory . . . . . 1
**Total . . . . . 56**

### Area of Concentration in Mathematics (Teaching)

CS/MATH 170 – Introduction to Computer Science . . . 4
MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4
MATH 276 – Analytic Geometry and Calculus III . . . . . 4
MATH 300 – Introduction to Mathematical Proof . . . . . 3
MATH 301 – Elementary Linear Algebra, or
MATH 308 – Discrete Mathematics . . . . . 3
MATH 350 – Introduction to Higher Algebra . . . . . 3
MATH 353 – Statistics . . . . . 3
MATH 365 – Introduction to Mathematical Statistics . . 3
MATH 370 – College Geometry I . . . . . 3
MATH 371 – College Geometry II . . . . . 3
MATH 402 – Integrated Biology, Mathematics, and Physical Science Teaching Methods . . . . . 3
MATH 403 – Integrated Biology, Mathematics, and Science Field Experiences in Teaching . . . . . 3
MATH 410 – Introduction to Real Analysis . . . . . 3
MATH 499C – Senior Capstone . . . . . 3
Electives . . . . . 6
(mathematics courses at or above the 300 level, except for MATH 330 & 332, as approved by the Department Chair.)
**Total . . . . . 58**

**Professional Education Core**

EDF 207 Foundations of Education . . . . . 3
EDSP 230 Education of Exceptional Children . . . . . 3
EDF 211 Human Growth and Development . . . . . 3
EDF 311 Learning Theories and Assessment . . . . . 3
EDSE 312 Education Methods and Technology . . . . . 3
EDSE 483 Classroom Organ. & Mgt for Sec Teachers . . 3
EDSE 416 Clinical Practice . . . . . 12
**Total . . . . . 30**

Additional General Education Required Course:
PSY 154 Intro to Psychology . . . . . 3
Suggested General Education Courses:
PHYS 201 Elementary Physics I or PHYS 231 Engineering Physics I and PHIL 203 Social Ethics

### Major in Mathematics (Non-Teaching)

CS/MATH 170 – Introduction to Computer Science . . . 4
MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4
MATH 276 – Calculus III . . . . . 4
MATH 300 – Introduction to Mathematical Proof . . . . . 3
MATH 301 – Elementary Linear Algebra . . . . . 3
MATH 365 – Introduction to Mathematical Statistics . . 3
MATH 499C – Senior Capstone . . . . . 3
Electives from mathematics courses above 300 level except MATH 330, 332, 353, 354, 402, and 403 as approved by the department chair . . . . . 11
**Total . . . . . 39**

### Minor in Mathematics

CS/MATH 170 – Introduction to Computer Science . . . 4
MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4

Electives from MATH 174, 276, or other mathematics courses at or above the 300 level except MATH 330, 332, 353, 354, 402, and 403 as approved by the department chair . . . . . 13
**Total . . . . . 25**

**Minor in Statistics**

**Option 1: Non-Calculus Option**

Elective in Mathematics, from 152-199 level . . . . . 3
MATH 301 – Elementary Linear Algebra . . . . . 3
MATH 353 – Statistics . . . . . 3
MATH 355 – Operations Research . . . . . 3
MATH 455 – Linear Statistical Models . . . . . 3
MATH 553 – Concepts in the Design of Experiments . . 3
MATH 555 – Nonparametric Statistics . . . . . 3
**Total . . . . . 21**

**Option 2: Calculus Option**

MATH 301 – Elementary Linear Algebra . . . . . 3
MATH 355 – Operations Research . . . . . 3
MATH 365 – Introduction to Mathematical Statistics . . 3
MATH 419 – Probability . . . . . 3
MATH 420 – Mathematical Statistics . . . . . 3
MATH 455 – Linear Statistical Models or
MATH 555 – Nonparametric Statistics . . . . . 3
MATH 553 – Concepts in the Design of Experiments . . 3
**Total . . . . . 21**

# Computer Science

## Faculty

B. Panja, S. Rashad

## Program Competencies

**Students will:**

1. Have a firm understanding of computing from several points of view, such as hardware, functions, software engineering, network management, database management, operating system platforms, algorithm analysis, and programming languages.
2. Have a firm understanding of at least one high-level programming language, as well as experience with other languages and language structures.
3. Be able to function as a productive member of a software development team or in any other computer related capacity.
4. Be qualified to enter graduate studies in Computer Science.

## Assessment Procedures

Senior capstone
Survey of graduates
Exit interviews
Major Field Achievement Test

## Bachelor of Science

The Department of Mathematics and Computer Science is committed to the education of students who intend (1) to apply mathematics and computer science in industry or government, or (2) to use mathematical and computer algorithms in their chosen fields.

**Major in Computer Science (Non-Teaching)**

**Required Core**

CS/MATH 170 – Introduction to Computer Science . . . . 4
CIS 205 – C/C++ Programming I . . . . . 3
CS 303 – Data Structures . . . . . 3
CS 310 – Algorithms and Advanced Data Structures . . . 3
CS 360 – Operating Systems . . . . . 3
CS 380 – Software Engineering . . . . . 3
CS 499C – Senior Capstone . . . . . 3
**Required mathematics courses . . . . . 14**
MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . .4
MATH 308 – Discrete Mathematics . . . . . 3
MATH 353 – Statistics . . . . . 3
**Total . . . . . 22**

**Choose three courses from the following:**
**(at least two of the following 300 or 400 level courses with CS prefix) . . . . . 9**
CS 335 – Theory of Programming Languages . . . . . 3
CS 450 – Computer Graphics . . . . . 3
CS 460 – Scientific and Parallel Computing . . . . . 3
CIS 305 – C/C++Programming II . . . . . 3
CIS 314 – Java Programming . . . . . 3
CIS 405 – Web Dev Strategies and E-Commerce . . . . . 3
CIS 426 – Database Management Systems . . . . . 3
CIS 340 – Telecommunications and Networking . . . . . 3
CIS 442 – Network Administration . . . . . 3
CIS 443 – Advanced Computer Networking Adm. . . . . 3
ITEC 345 – Microprocessor Electronics . . . . . 3
ITEC 445 – Computer Electronics . . . . . 3
ITEC 480 – Digital Communications and Networking . . 3
MATH 301 – Linear Algebra . . . . . 3
MATH 312 – Numerical Methods . . . . . 3
**Total hours . . . . . 45**

**Area of Concentration in Computer Science**

**Mathematics Courses**

MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4
MATH 308 – Discrete Mathematics . . . . . 3
MATH 365 – Intro to MathematicalStatistics . . . . . 3
**Total . . . . . 14**

**Computer Science Courses**

CIS 205 – Introduction to Programming–C++ . . . . . 3
CIS 340 – Telecommunications and Networking . . . . . 3
CIS 426 – Database Management Systems . . . . . 3

CS/MATH 170 – Introduction to Computer Science . . . 4
CS 303 – Data Structures . . . . . 3
CS 310 – Algorithms and Adv Data Structures . . . . . 3
CS 335 – Theory of Programming Languages . . . . . 3
CS 360 – Operating Systems . . . . . 3
CS 380 – Software Engineering . . . . . 3
CS 499C – Senior Capstone . . . . . 3
ITEC 345 – Microprocessor Electronics . . . . . 3

*Nine hours taken from the following. At least two of the three electives must be taken from CS, ITEC, MATH, or PHYS*
CIS 305 – Advanced Programming – C++ . . . . . 3
CIS 314 – Advanced Programming – Java . . . . . 3
CIS 405 – Web Dev Strategies and E-commerce . . . . . 3
CIS 442 – Network Administration . . . . . 3
CIS 443 – Advanced Computer Networking Admin . . . 3
CS 450 – Computer Graphics . . . . . 3
CS 460 – Scientific and Parallel Computing . . . . . 3
CS 476 – Special Problems . . . . . 1-3
ITEC 445 – Computer Electronics . . . . . 3
ITEC 480 – Digital Communication and Networking . . 3
MATH 260 – FORTRAN Programming . . . . . 3
MATH 276 – Calculus III . . . . . 4
MATH 301 – Elementary Linear Algebra . . . . . 3
MATH 312 – Numerical Methods . . . . . 3
PHYS 381 – Computer Solut. to Eng. & Science Prob . 3
**Total . . . . . 43**

**Supplemental Courses**
PHIL 203 – Social Ethics . . . . . 3
PHYS 201 & 201A – Elementary Physics I, or
PHYS 231 & 231A – Engineering Physics I . . . . . 4-5
PHYS 202 & 202A – Elementary Physics II, or
PHYS 232 & 232A – Engineering Physics II . . . . . 4-5
**Total . . . . . 11-13**

**Total for Area . . . . . 68-70**

**Minor in Computer Science**
**Required Courses**
CS/MATH 170 – Introduction to Computer Science . . . 4
CIS 205 – Introduction to Programming–C++ . . . . . 3
CS 303 – Data Structures . . . . . 3
CS 310 – Algorithms and Advanced Data Structures . . . 3
**Total . . . . . 13**

**Elective courses . . . . . 9**
**Choose three courses from the following:**
At least two 300 or 400 level three-hour courses with CS prefix. At most one elective chosen from CS area of Concentration 300 level or above.
**Total for Minor . . . . . 22**

## Department of Nursing

Erla G. Mowbray, Chair
234 Reed Hall
(606) 783-2296
e.mowbray@moreheadstate.edu

### Associate Degree Nursing Program

Donna J. Corley, Coordinator
d.corley@moreheadstate.edu

429 Reed Hall
(606) 783-2438

### Faculty

C. Clevenger, D. Corley, T. Howell, L. Mays, E. Mowbray, M. Walters

## Program Competencies

**The associate degree nursing program graduate will:**

1. Demonstrate professional behaviors by assuming accountability for individual nursing practice and for continuing, personal, professional and educational development.
2 Demonstrate effective communication skills in therapeutic and collaborative roles while maintaining confidentiality.
3. Demonstrate effective assessment skills of individuals and significant others from diverse backgrounds across the lifespan.
4. Utilize effective clinical decision making to ensure accurate and safe care to progress toward meeting patient outcomes.
5. Demonstrate competency in the performance of caring intervention.
6. Demonstrate competency in the development, implementation and evaluation of individualized teaching plans for patients and significant others.
7. Collaborate effectively with patients, significant others, and members of the health care team to progress toward achievement of desired outcomes for patients with complex health care needs.
8. Demonstrate the ability to effectively manage patient care through prioritization, coordination, delegation, and effective utilization of resources in dynamic health care systems.

## Assessment Procedures

Course content and program outcomes are assessed by formative and summative standardized testing, and graduate performance on the National Council Licensure Examination for Registered Nurse (NCLEX-RN). Students complete standardized testing at the completion of each course within the curriculum to evaluate course specific outcomes. Students complete standardized testing during the last week of the program to assess program outcomes. Following graduation each student must complete the NCLEX-RN to gain licensure as a registered nurse.

## Associate of Applied Science
### (Two-Year Program)

The ADNP is a two-year program of study leading to an Associate of Applied Sciences (AAS) Degree with an area of concentration in nursing. The program combines general education studies with nursing theory and clinical education. The Program is designed to prepare graduates for the role of the Registered nurse. Graduates of the Program are eligible to take the National Council Licensure Examination for Registered Nurses. The ADNP is accredited by the National League for Nursing Accrediting Commission, Inc., 61 Broadway, New York, NY 10006.

### Associate Degree Nursing Program
### Admission Requirements and Procedures

The ADNP has selective admission. Enrollment in the program is limited. In the event there are more qualified applicants than positions, students with the highest ACT scores will be accepted.

Application Procedure

1. Be unconditionally admitted to MSU.
2. Submit a completed application packet to the ADNP. Completed admission packets include:
   a. Completed ADNP application.
   b. Official American College Test (ACT) Scores.
   c. Transcript from MSU and Official transcripts from all universities/ colleges attended if courses taken at other institutions are not listed on the MSU transcript.
   d. University undergraduate catalog(s) if transfer credit is sought.
3. Submit the following as applicable:
   a. Licensed practical nurse applicant: in addition to the above materials, must submit verification of current LPN license and official transcript from LPN program.
   b. Nursing transfer student: in addition to the above materials, must submit syllabi from nursing course(s) to be evaluated for transfer credit and a written letter of recommendation from the director/coordinator of the nursing program from which the student is transferring.
4. Student selection process occurs following the posting of mid-term grades of the semester preceding admission.
5. Applicants reapplying to the ADNP must submit new application materials in order to be considered for admission.
6. Students may be officially admitted to the ADNP in the fall or spring semester.
7. Students submitting complete application packets by the following deadlines will receive first consideration for official admission.
   **Fall Admission: March 15th**
   **Spring Admission: October 15th**
   Late applicants will only be considered after all applicants meeting the published deadlines have been reviewed.

Submit applications to:
Student Services Officer
Associate Degree Nursing Program, Reed Hall 225
Department of Nursing & Allied Health Sciences
Morehead State University
Morehead, KY 40351-1689

## Admission Criteria

The ADNP has a limited enrollment. The following criteria will be used to determine conditional acceptance to the ADNP:

1. American College Test (Enhanced ACT) Score with a mandatory minimum composite score of 19. The ACT score may be waived if all required first-year support courses are completed with a minimum grade of "C" in each course and overall GPA in all Support courses of 2.5 on a 4.0 scale. First year support courses include BIOL 231 and 232, CHEM 101 and 101L, computer competency, ENG 100, ENG 200, MATH 135, MSU 101, and PSY 154 and 156. Preference will be given to students who have ACT scores of 19 or above.
2. A. Applicants: Must have a GPA of 2.5 or higher with a minimum grade of "C" in general education and support courses required for the ADNP and a minimum cumulative GPA of 2.0 on all work at MSU.
   B. Students with a grade less than "C" on more than two courses required for the ADNP in the last two years are not eligible for admission.
3. Successful completion of the following prerequisite courses with a grade of "C" or better:
   – BIOL 231 – ENG 100
   – BIOL 232 – MATH 135
   Applicants may be conditionally admitted to the program pending successful completion of prerequisite courses required for admission to the program by the end of the semester prior to admission.
   Preference will be given to students completing pre-requisite courses by the end of the spring or fall semester prior to fall admission or by the end of the fall semester prior to spring admission.
4. LPN applicants who meet the admission criteria may elect to begin at the first semester level or seek advanced placement through successful completion of NURA 110: LPN/ADN Transition Course.
5. Final acceptance will be dependent on maintaining course grades and grade point average as well as meeting requirements for CPR and Health and Physical capabilities by established dates.

*NOTE: Admission criteria and procedures are reviewed on an annual basis. It is the applicant's responsibility to verify current application criteria and procedures prior to the application deadline.*

### Advanced Placement for Licensed Practical Nurses (LPNs)

LPN applicants may qualify for advanced placement into the third semester of the ADNP. LPN applicants seeking advanced placement into NURA 202 (third semester of ADNP) must have completed the first year of required support courses with a minimum grade of "C" in each course and overall GPA in required support courses of at least 2.5 on a 4.0 scale. Support courses required to be completed prior to admission include: BIOL 231 and 232, CHEM 101 and 101L, CMSP 108, computer competency, ENG 100, ENG 200, MATH 135, PSY 154, and 156. Application deadline is April 15 preceding Fall admissionand November 15 preceding spring admission.

LPN applicants who meet admission criteria may seek advance placement into NURA 202 (third semester) through :

Successful completion (grade "C" or better) of NURA 110: LPN/ADN Transition Course and successful completion of an accredited LPN program will result in "K" credit for the first year of NURA courses (NURA 103, NURA 104, and NURA 105). NURA 110 must be completed within two years of admission to ADNP.

*Notes:*

- All ADNP students scoring below the national average on the RN-CAP exams for fundamentals, maternity, mental health, or Child Adult Nursing I are required to take NURA 280.
- All ADNP students must document continued compliance with required immunizations and Technical Performance Standards for the Department of Nursing.
- Admission procedures are reviewed on an annual basis. It is the applicant's responsibility to verify current application criteria and procedures prior to the application deadline. ADNP Application forms are available in the department of Nursing, Reed Hall 219. Application forms are also available on the web at www.moreheadstate.edu. Follow the Academic Programs link to the College of Science and Technology and Department of Nursing.

### Conditions for Enrollment

1. Students may be assigned to clinical practicum areas other than those in the immediate Rowan County area, requiring traveling some distance from campus. Transportation to and from these settings is the responsibility of the student.
2. Clinical experiences and formal lectures may be required during various hours of the day, evening, and night.
3. Students have the responsibility for the cost incurred by enrollment in the ADNP. This cost includes clothing, equipment, malpractice insurance, and academic materials.

### Required Course Sequence for ADNP Students

A total of 69 credit hours is required for the AAS degree which includes 35 credit hours of general education and support courses and 35 credit hours of nursing courses. The student will be required to complete the course sequence approved by the University and in place at the time of admission to the ADN Program. ADN Program policies on challenge examination, transfer credit, academic standards and progression, and criteria for taking the National Council Licensure Examination can be obtained from the Department of Nursing and Allied Health Sciences.

**Prior to Fall semester:**

*BIOL 231 – Human Anatomy . . . . . 3
*BIOL 232 – Human Physiology. . . . . 3
*ENG 100 – Writing I . . . . . 3
*MATH 135 – Mathematics for Technical Students (141, 152, 174, 175 or Equivalent) . . . . . 3
**Total . . . . . 12**

**First Semester**

NURA 103 – Nursing I . . . . . 6
*Computer Competence . . . . . 3
*ENG 200 – Writing II. . . . . 3
*MSU 101 – Introduction to University Life . . . . . 1
*PSY 154 – Introduction to Psychology . . . . . 3
**Total . . . . . 15**

**Second Semester**

NURA 104 – Nursing II . . . . . 4
NURA 105 – Maternal Newborn Nursing . . . . . 4
CMSP 108 – Fundamentals of Speech Comm. . . . . 3
*PSY 156 – Life Span Psychology . . . . . 3
**Total . . . . . 14**
*Completion of BIOL 217 is encouraged prior to Second Level.*

**Third Semester**

NURA 202 – Nursing III . . . . . 4
NURA 205 – Psychiatric Nursing . . . . . 4
BIOL 217 – Elementary Medical Microbiology . . . . . 4
BIOL 217L – Elementary Medical Microbiology Lab . . 0
Humanities Elective . . . . . 3
**Total . . . . . 15**

**Fourth Semester**

NURA 206 – Nursing IV . . . . . 8
NURA 207 – Integrated Practicum . . . . . 4
**Total . . . . . 12**

**Total Program Credits . . . . . 69**

**First-year support course*

### Required Curriculum Sequence for LPN to ADN Students

**General education, nursing and support courses required prior to official admission to the ADNP**

BIOL 231 – Human Anatomy . . . . . 3
BIOL 232 – Human Physiology . . . . . 3

CHEM 101 – Survey of Chemistry I . . . . . 4
CHEM 101L – Survey of Chemistry I Lab . . . . . 0
Computer Competence . . . . . 3
ENG 200 – Writing II . . . . . 3
ENG 100 – Writing I . . . . . 3
MATH 135 – Mathematics for Technical Students (141, 152, 174, 175 or Equivalent) . . . . . 3
MSU 101 – Introduction to University Life . . . . . 1
NURA 110 – LPN to ADN Transition . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
PSY 156 – Life Span Psychology . . . . . 3
**Total . . . . . 32**

Completion of BIOL 217 prior to beginning the first semester is recommended.

**First Semester**
NURA 202 – Nursing III . . . . . 4
NURA 205 – Psychiatric Nursing . . . . . 4
BIOL 217 – Elementary Medical Microbiology . . . . . 4
BIOL 217L – Elementary Medical Microbiology Lab . 0
CMSP 108 – Fundamentals of Speech Communications . . . . . 3
Humanities Elective . . . . . 3
**Semester Total . . . . . 18**
**Second Semester**
NURA 206 – Nursing IV . . . . . 8
NURA 207 – Integrated Practicum . . . . . 4
**Semester Total . . . . . 12**

**Total Program Credits . . . . . 62**

• After official admission to the ADNP, students receive transfer credit for 13 hours of nursing courses.

## Department of Nursing

Erla G. Mowbray, Chair
234 Reed Hall
(606) 783-2296

## Bachelor of Science in Nursing

### Faculty

N. Bush, T. Clark, C. Clevenger, K. Clevenger, D. Corley, J. Gross, S. Johnson, E. Mowbray, M. Shoemaker, B. Wilburn

### Program Competencies

**Upon completion of the Baccalaureate Nursing Program (BNP) the graduate will be able to:**

1. Synthesize principles from mathematics, natural sciences, behavioral sciences, humanities and nursing as a foundation for professional nursing practice.
2. Integrate concepts and theories of caring, life span, human needs, individual, health, environment, and professional nursing for management of nursing care which reflects the worth and dignity of individuals, families, and groups in a dynamic multicultural society.
3. Practice as a generalist in professional nursing within the roles of caregiver, advocate, collaborator, manager, and educator in a variety of health care settings.
4. Employ critical thinking in the practice of professional nursing.
5. Integrate historical, political, social, ethical, economic, technical, and legal components of nursing into professional nursing practice.
6. Integrate concepts of communications, leadership, management, research, and teaching/learning into professional nursing practice.
7. Assume accountability for continuing personal, professional, and educational development to enhance one's practice and to meet the changing health care needs of society.

### Assessment Procedures

Standardized examinations in specific nursing areas
National Council Licensure Examination for Registered Nurses
BNP surveys of graduates and employers

### Bachelor of Science in Nursing

**(**Four-Year Program)

The BNP offers a program of study which combines general education courses with professional nursing theory and clinical education. The program prepares the graduates for the role of the professional nurse and provides a foundation for graduate study. Graduates of the program are eligible to take the National Council Licensure Examination for registered nurses. The BNP also has a Postlicensure (RN Track) component where graduates of associate degree and diploma nursing programs may pursue the baccalaureate degree. The BNP is accredited by the National League for Nursing Accrediting Commission

NLNAC
61 Broadway
New York, NY 10006
1-800-669-1656

and the Commission on Collegiate Nursing Education (CCNE).

One Dupont Circle NW
Suite 530
Washington, DC 20036
1-202-887-6791

**BNP Prelicensure Admission Requirements and Procedures**

The BNP has a selective admission procedure. Enrollment in the program is limited. In the event there are more qualified applicants than available positions, students with the highest GPA will be accepted.

**BNP Prelicensure Application Procedure**

1. Be unconditionally admitted to MSU.
2. Declare nursing as an area of concentration.
   A. Meet with assigned nursing faculty advisor;
   B. Enroll in required pre-nursing courses as outlined in the BNP curriculum sequence.
3. Submit a completed application packet to the Baccalaureate Nursing Program. The application packet includes:
   A. Completed BNP application.
   B. Copy of high school transcript(s).
   C. GED validation if applicable.
   D. Transcript from MSU and a copy of transcripts from all universities and colleges attended, if courses not listed on MSU transcript.
   E. University undergraduate catalog(s) if transfer credit is sought.
   F. Course syllabi for all nursing courses completed if transfer credit is sought.
   G. Copy of midterm grades for spring semester if applicable.
4. Student selection process occurs during the Spring Semester preceding Fall admission.
5. Students transferring from other nursing programs must follow the same admission procedure and meet the same criteria for admission. The student who has completed nursing courses in another program may be eligible for advanced placement. For consideration of placement into a Spring Semester of the curriculum sequence, application materials must be submitted by September 1 of the preceding semester.
6. Students are officially admitted to the BNP in the Fall Semester of the sophomore year of the curriculum sequence.
7. In order to be considered for official admission to the prelicensure component of the BNP, all materials except the Basic Life Support for the Healthcare Provider certification must be submitted to the address below before March 15 preceding Fall admission to the program:

   Student Services Officer
   Baccalaureate Nursing Program, Reed Hall 232
   Department of Nursing
   Morehead State University
   Morehead, Kentucky 40351-1689

Information related to required tuition and fees may be obtained from Morehead State University, Office of Admissions.

**BNP Prelicensure Admission Criteria**

The BNP has a limited enrollment. Applicants to the BNP are selected based upon the following criteria:

1. Completion of the 35 credit hours of the required pre-nursing courses as listed on the curriculum sequence;
2. Minimum grade of a "C" in each of the required pre-nursing courses;
3. A GPA of 2.7 or above (with no rounding) based on the required 35 credits;
4. A minimum grade point average of 2.5 or above for BIOL 231: Anatomy, Biol 232: Physiology and MATH 135: Math for Technical Students.
5. More than two failures of pre-nursing courses within two years of application to the program will result in ineligibility for admission. This includes failure of more than two courses or failure of the same course more than twice. Students with course failures prior to the two-year period will be considered for admission if the student has demonstrated satisfactory academic progress ("C" or above in required courses) since the course failures. Full-time study for two consecutive semesters will be required in order to evaluate academic status. At least two-thirds of these credit hours must be in program required general education or support courses. This policy also applies to transfer students.
6. Applicants who are currently enrolled but have not yet completed the required 18 semester hours of the second semester are eligible for conditional acceptance based on midterm grades. A copy of current midterm grades must be submitted with the application packet. Final acceptance will be dependent on maintaining course grades and GPA as outlined in criteria.
7. Meet the Technical Performance Standards.
8. Current certification by American Heart Association in Basic Life Support for Health Care Providers (CPR).
   * Documentation of CPR requirements is required for final official admission to the BNP
9. Meet immunization requirements.

**BNP-Postlicensure (RN Track) Component Admission Requirements and Procedures**

**Application Procedure**

1. Be unconditionally admitted to MSU.
2. Declare nursing as the area of concentration and meet with assigned nursing faculty advisor.*
3. Submit required materials listed below to the Baccalaureate Nursing Program by March 15 for admission into the Fall Semester or September 1 for admission into the Spring Semester:
   A. Completed BNP application.
   B. Transcripts from MSU and all universities/colleges attended if courses not listed on MSU transcript.
   C. University undergraduate catalog(s) if transfer credit is sought.
   D. Validation of current Kentucky nursing licensure.
   E. Validation of current American Heart Association certification in Basic Life Support for Healthcare Providers (CPR).
   F. Verification of professional malpractice insurance.

Student Services Officer
BNP Postlicensure Track Component
Reed Hall 232
Department of Nursing
Morehead State University
Morehead, KY 40351-1689

*A Regional Academic Counseling Coordinator for the BNP – Postlicensure Component is available at Regional campus sites.

**Admission Criteria BNP**
**Postlicensure (RN Track) Component**
**Applicants must:**

1. Be unconditionally admitted to MSU.
2. Hold a current Kentucky License to practice as a registered nurse.
3. Be a graduate of an Associate Degree Nursing or Diploma program. The diploma graduate must complete Nursing national standardized exams for the RN student.
4. Complete 50 hours of required general education and support courses listed in the curriculum sequence.
5. Hold a minimum cumulative grade point average of 2.5 on all course work required for admission to the postlicensure component of the Baccalaureate Nursing Programs.
6. Hold a minimum grade of "C" in each of the required general education, support and nursing courses.
7. Possess current certification by the American Heart Association (AHA) cardiopulmonary resuscitation (CPR) in Basic Life Support for Healthcare Providers.
8. Possess professional malpractice insurance.
9. Meet Technical Performance Standards.
10 Meet immunization requirements.

**MSU/UK RN/BSN/MSN Cooperative Program**

The MSU and University of Kentucky Cooperative RN/BSN/MSN Program provides a course of study leading to a Bachelor of Science degree in Nursing (BSN) from Morehead State University and a Master of Science degree in Nursing (MSN) from the University of Kentucky. MSN specialty tracks available include adult clinical nurse specialist, nurse management specialist, family nurse practitioner, and public health nurse. Each track combines general education studies with professional nursing theory and clinical education.

Graduates of associate degree and diploma nursing programs may apply for admission to the Cooperative RN/BSN/MSN Program. The program has a selective admission policy which is separate, and in addition to Morehead State University and the University of Kentucky admission procedures. Admission to Morehead State University and/or the University of Kentucky does not guarantee admission to the program.

**Application Procedure**

1. Be unconditionally admitted to MSU.
2. Meet minimum standards for the University of Kentucky Graduate School.
3. Submit a complete application packet to the University of Kentucky Student Affairs Officer by March 1 for admission into the Fall Semester.
   A. Completed application form for RN/BSN/MSN program.
   B. Official transcripts from all universities/colleges attended.
   C. University undergraduate catalog(s) if transfer credit sought.
   D. Course syllabi for all nursing courses completed if transfer credit is sought from another BSN Program.
   E. Validation of current Kentucky nursing licensure.
   F. Verification of health and physical capability.
   G. Validation of current certification by the American Heart Association in Basic Life Support for Health Care Providers (CPR).
   H. Verification of professional malpractice insurance.
   I. Satisfactory GRE scores (400 preferred on each of the two subscales and a minimum of 3.5 on the writing test).
   J. Three letters of reference, two of which should be from nurses.
   K. TOEFL score of 550 for international students.
4. Application packet and checklist available by contacting the University of Kentucky College of Nursing Student Affairs Officer.

University of Kentucky
College of Nursing Student Affairs Officer
Outreach at Morehead State University
Reed Hall 430-440
Morehead, KY 40351
Telephone: (606) 783-2636

**Admission Criteria MSU/UK RN/BSN/MSN Primary Care Nursing Practitioner**
**Cooperative Program**

The MSU/UK RN/BSN/MSN Cooperative Program has a limited enrollment. Applicants are selected based on the following criteria:

**Morehead State University**

1. Meet minimum standards for admission to MSU, University of Kentucky Graduate School, and MSU and UK nursing programs.
2. Hold a current Kentucky license to practice as a registered nurse.
3. Be a graduate of an ADN or diploma program. The diploma graduate must complete nursing standardized exams for the RN student.
4. Possess a current certification by the American Heart Association in Basic Life Support for Health Care Providers.
5. Possess professional malpractice insurance.
6. Meet Technical Performance Standards of MSU's BNP.
7. Meet immunization requirements.

**University of Kentucky**

1. Hold an undergraduate GPA of 3.0 on a 4.0 grading scale, with a minimum grade of "C" in each of the required general education, support, and nursing courses.
2. Completion of at least 90 approved undergraduate credit hours.
3. Satisfactory scores on the GRE (400 preferred on each of the two subscales and a minimum of 3.5 on the writing test).
4. Three references, two of which should be from nurses (one from a faculty member and one from a recent employer).
5. Interview with a UK nursing faculty member.
6. TOEFL score of 550 or greater for international students.
7. Applicants with unique credentials that differ from the preceding requirements will be considered on an individual basis.

*Note: Students may not progress to another course, nor graduate with a grade of "C" or lower in a course with a clinical component.*

**Conditions for Enrollment**

1. Students may be assigned to clinical practicum areas other than those in the immediate Rowan County area, requiring traveling some distance from campus. Transportation to and from these settings is the responsibility of the student.
2. Clinical experiences and formal classes may be required during various hours of the day, evening, and night.
3. Students have the responsibility for the cost incurred by enrollment in the nursing program. This cost includes clothing, equipment, malpractice insurance and academic materials.

**Required Course Sequence for BNP (Prelicensure)**

A total of 134 credit hours is required for the BSN degree which includes 68 credit hours of general education and support courses and 66 credit hours of nursing courses. BNP policies on challenge examination, transfer credit, academic standards and progression, and criteria for taking challenge exams can be obtained from the Department of Nursing.

The student will be required to complete the course sequence approved by the University and in place at the time of admission into the BNP. The generic (prelicensure) sequence follows:

**Freshman Year**

**First Semester**

BIOL 231 – Human Anatomy . . . . . 3
CHEM 101 – Survey of Chemistry & CHEM 101L . . . 4
ENG 100 – Writing I . . . . . 3
MATH 135 – Math for Technical Students, or higher . . 3
MSU 101 – Discovering University Life . . . . . 1
PSY 154 – Introduction to Psychology . . . . . 3
**Semester Total . . . . . 17**

**Second Semester**

BIOL 232 – Human Physiology . . . . . 3
CHEM 201 – Surv of Organic Chem & CHEM 201L . . 4
ENG 200 – Writing II . . . . . 3
NURB 152 – Basic Concepts and Theories . . . . . 2
PSY 156 – Lifespan Developmental Psychology . . . . . 3
SOC 101 – General Sociology . . . . . 3
**Semester Total . . . . . 18**

**Sophomore Year**

**First Semester**

BIOL 217 – Elementary Medical Microbiology . . . . . 4
CMSP 108 – Fundamentals of Speech Communication . 3
NURB 246 – Basic Nursing Concepts I . . . . . 3
NURB 247 – Basic Nursing Skills . . . . . 2
NURB 349 – Pharmacology . . . . . 3
NURB 354 – Health Assessment . . . . . 3
**Semester Total . . . . . 18**

**Second Semester**

BIOL 336 – Pathophysiology . . . . . 4
HS 201 – Principles of Nutrition . . . . . 3
NURB 258 – Basic Nursing Concepts II . . . . . 7
NURB 310 – Community Health Nursing . . . . . 3
**Semester Total . . . . . 17**

**Junior Year**

**First Semester**

**CIS 101 – Computers for Learning . . . . . 3
MATH 353 – Statistics . . . . . 3
NURB 350 – Nursing Care of the Childbearing Family 4
NURB 351 – Nursing Care of Children . . . . . 4
*Practical Living Elective . . . . . 3
**Semester Total . . . . . 17**

**Second Semester**

NURB 361 – Introduction to Nursing Research . . . . . 3
NURB 370 – Adult Nursing I . . . . . 8
NURB 363 – Mental Health Nursing . . . . . 4
*Humanities Elective . . . . . 3
**Semester Total . . . . . 18**

**Senior Year**

**First Semester**

NURB 454 – Adult Nursing II . . . . . 10
*Humanities Elective . . . . . 3
*Social & Behavioral Science Elective . . . . . 3
**Semester Total . . . . . 16**

**Second Semester**

NURB 461 – Nursing Leadership and Management . . . 3
NURB 497 – Nursing Senior Seminar . . . . . 4
NURB 499C – Advanced Nursing Practicum . . . . . 3
*Humanities Elective . . . . . 3
**Semester Total . . . . . 13**
**Total Program Credits . . . . . 134**

*May be taken any semester in the program sequence.

**Recommend completion prior to junior level.

*Notes:*

- *After entry into the BNP Program, all courses must be taken in the semester sequence listed. Exceptions to the curriculum sequence are listed with an asterisk (*) beside the course. NURB 361 may be taken prior to the curriculum sequenced semester. A prerequisite to NURB 361 is MATH 353.*
- *BNP students scoring below the national average on the RN-CAP Examinations for Basic Nursing Concepts II, Nursing Care of the Childbearing Families, Nursing of Children, Mental Health Nursing, or Adult Nursing I and II will be required to take NUR 480—Diagnostic Seminar prior to graduation.*
- *Admissions procedures, curriculum requirements and course sequencing may be changed as part of the process of annual program evaluation. It is the applicant's responsibility to verify that requirements and/or sequencing have not changed.*

### Required Curriculum Sequence for BNP Postlicensure Students

General education, support, and nursing courses required prior to official admission to the Postlicensure Component:

BIOL 217 – Elementary Medical Microbiology . . . . . 4
BIOL 231 – Human Anatomy . . . . . 3
BIOL 232 – Human Physiology . . . . . 3
CHEM 101 – Survey of Chemistry & CHEM 101L . . . 4
CIS 101 – Computers for Learning, or
IET 110 – Fundamentals of Computer Technology . . . . 3
CMSP 108 – Fundamentals of Speech Communication . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
MATH 135 – Mathematics for Technical Students or higher . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
PSY 156 – Lifespan Developmental Psychology . . . . . 3
SOC 101 – General Sociology . . . . . 3
Free elective . . . . . 3
Nine credit hours of the following general education require ments:
Humanities electives (three different prefixes) . . . . . 9
Social and Behavioral Science elective . . . . . 3
Practical Living elective . . . . . 3
**Total . . . . . 50**

#### Junior Year

**First Semester**

BIOL 336 – Pathophysiology . . . . . 4
*NURB 349 – Pharmacology . . . . . 3
NURB 355 – Heath Assessment for the Registered Nurse . . . . . 3
NURB 367 – Transition to Professional Nursing . . . . . 2
NURB 368 – Prof Nursing Concepts and Theories . . . . 3
**Semester Total . . . . . 15**

**Second Semester**

MATH 353 – Statistics . . . . . 3
NURB 310 – Community Health Nursing . . . . . 3
NURB 361 – Introduction to Nursing Research . . . . . 3
NURB 380 – Community Health Nursing Practicum . . 3
General education elective . . . . . 3
**Semester Total . . . . . 15**

**Third Semester**

NURB 461 – Nursing Leadership and Management . . . 3
NURB 497 – Nursing Senior Seminar . . . . . 4
NURB 499C – Advanced Nursing Practicum . . . . . 3
Guided elective (must be 300 or above; for example NAHS 300, 302, 303, 304, 345) . . . . . 3
General education elective . . . . . 3
**Semester Total . . . . . 16**
**Total Program Credits . . . . . 128**

*Notes:*

- *May be taken or challenged prior to official admission to the BNP Program.*
- *After official admission to the BNP the student will receive validation for 32 hours of lower division nursing courses.*
- *NURB 349, 355, 367 &368 may be taken prior to official admission.*
- *Students must complete 43 credit hours of courses numbered 300 and above.*

### Required Curriculum Sequence for MSU/UK RN/BSN/MSN Program

General education, support, and nursing courses required prior to official admission to RN-BSN-MSN Cooperative Program:

BIOL 217 – Elementary Medical Microbiology . . . . . 4
BIOL 231 – Human Anatomy . . . . . 3
BIOL 232 – Human Physiology . . . . . 3
#BIOL 336 – Pathophysiology . . . . . 3
CHEM 101 – Survey of Chemistry & CHEM 101L . . . 4
CIS 101 – Computers for Learning, or
IET 110 – Fundamentals of Computer Technology . . . . 3
CMSP 108 – Fundamentals of Speech Communication . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
MATH 135 – Mathematics for Technical Students or higher . . . . . 3
*NURB 349 – Pharmacology . . . . . 3
PSY 154 – Introduction to Psychology . . . . . 3
PSY 156 – Lifespan Developmental Psychology . . . . . 3
SOC 101 – General Sociology . . . . . 3
**Humanities electives (three different prefixes) . . . . . 9
**Social and Behavioral elective . . . . . 3
**Practical Living elective . . . . . 3
**Free electives . . . . . 9
**Total . . . . . 65**

**Lower division nursing courses accepted from ADN Program (following RN/BSN/MSN program admission) . . . . . 32**
**Total . . . . . 97**

**NURB 349 – Pharmacology may be challenged or taken prior to admission. **In order to obtain the required 43 credit hours of courses numbered 300 and above, students must take at least three of their electives at the 300 or above level. The curriculum requirements and course sequencing may be changed as part of program evaluation. The responsibility for keeping abreast of changes in the curriculum or sequencing is shared by faculty and students.*

*#Graduate Pathophysiology may be substituted.*

## Department of Nursing

Erla G. Mowbray, Chair

## Associate of Applied Sciences in Respiratory Care

Carla Aagaard, Academic Counseling Coordinator
219 Reed Hall
(606) 783-2641

### Faculty

M. Vice, J. Callihan

**Clinical Faculty**

J.Love, A.A.S., R. Broadus, A.A.S.

### Program Competencies

**The graduate will be able to:**

1. Perform cardiopulmonary diagnostic procedures, patient assessment and respiratory care planning.
2. Administer therapeutic and life support procedures in the management of patients with cardiopulmonary impairment.
3. Evaluate appropriateness of prescribed respiratory care and recommend modifications where indicated.
4. Select, assemble, check, correct malfunctions and assure cleanliness and calibration of respiratory care equipment.
5. Maintain an ethical and effective relationship with the health care team.
6. Perform essential elements of patient education.
7. Demonstrate an awareness of organizational and management principles related to respiratory care.

### Assessment Procedures

National Board for Respiratory Care Applied Measurement Professional Self-Assessment Examination, National Board for Respiratory Care

Respiratory Therapy Program Surveys for Graduates and Employers related to educational preparation, graduate performance in the clinical area

Employment

Evaluation by Advisory Committee

## Associate of Applied Sciences in Respiratory Care

The Respiratory Care Program is a consortium between Morehead State University, Maysville Community and Technical College, and Ashland Community and Technical College. Morehead State University students as a part of the consortium complete all general education program requirements on the MSU campus. Respiratory care courses are taught on the Rowan campus of Maysville Community and Technical College.

The Program prepares the graduate to take an active role in the maintenance and/or restoration of cardiopulmonary homeostasis. The curriculum includes intensive course work in the supporting sciences and general education areas. Classroom instruction is supplemented with learning experience in the campus laboratory and area hospitals. Students enrolled in the Respiratory Care Program are required to achieve a minimum grade of "C" in all course required for completion of the AAS in Respiratory Care.

#### Admission Requirements and Procedures

The AAS in Respiratory Care program has a selective admission procedure. Enrollment in the program is limited. In the event there are more qualified applicants than available positions, students with the highest GPA will be accepted.

#### Application Procedure

1. Be unconditionally admitted to MSU.
2. Declare Respiratory Care as an area of concentration.
3. Enroll in required pre-respiratory care courses as outlined in the respiratory care curriculum sequence.
4. Submit a completed application packet to the Associate of Applied Science in Respiratory Care Program. The application packet includes:
   A. Application for admission to Respiratory Care Program.
   B. ACT scores or equivalent.
   C. Official transcripts of all post-secondary course work.
   D. Official high school transcript or GED certificate.
   E. University/undergraduate catalog(s) if transfer credit is sought.
   F. Course syllabi for all respiratory care courses completed if transfer credit is sought.
   G. Verification of health and physical capabilities by completing health form provided by departments.
   H. Prior to admission into the Respiratory Care Program, students are required to complete BIOL 231, CIS 101, ENG 100, MATH 135, and MSU 101.
   I. Documentation of attendance at a preadmission conference or meeting with the program coordinator.
4. Student selection process occurs in the Fall Semester preceding Spring admission.

5. In order to be considered for official admission to the Respiratory Care Program, all materials except the health form must be submitted to the address listed below before November 15 preceding Spring admission:

Academic Counseling Coordinator, AAS in Respiratory Care
Reed Hall 219
Department of Nursing
Morehead State University
Morehead, KY 40351

**Admission Criteria**

Applicants to the Respiratory Care Program are selected based upon the following criteria:

1. American College Test (Enhanced ACT) scores or equivalent.
2. GED validation, if applicable. Preference will be given to a standard score of 50 or above.
3. Past performance in college/university: must have a GPA of 2.5 on a scale of 4.0 for all college level courses completed and a grade of "C" or better on BIOL 231 and MATH 135
4. Health and physical capability requirements are documented by the completion of the required Health Form by a licensed physician(s), a physician assistant or a nurse practitioner upon completion of a thorough physical examination.
4. Respiratory courses will be taken at the Rowan campus on Monday, Wednesday, and Friday.

Admission procedures are reviewed on an annual basis. It is the applicant's responsibility to verify prior to the application deadline that the procedures/criteria have not been revised.

**Conditions for Enrollment**

1. Students may be assigned to clinical practicum areas other than those in the immediate Rowan County area, requiring traveling some distance from campus. Transportation to and from these settings is the responsibility of the student.
2. Clinical experiences and formal lectures may be required during various hours of the day, evening and night.
3. Students have the responsibility for the cost incurred by enrollment in the Associate of Applied Science Degree in Respiratory Care Program. This cost may include clothing, equipment, malpractice insurance and academic materials.
4. Respiratory courses will be taken at the Rowan campus on Monday, Wednesday, and Friday.

**Required Course Sequence for AAS Students**

A total of 76 credit hours is required for the AAS degree that includes 32 credit hours of general education courses. The student will be required to complete the course sequence approved by the University and in place at the time of admission to the Associate Degree Respiratory Care Program. AAS in Respiratory Care program policies on challenge examination, transfer credit, academic standards and progression and criteria for taking the National Board for Respiratory Care examination can be obtained from the Department of Nursing & Allied Health Sciences.

**First Semester (Fall)**
BIOL 231 – Human Anatomy . . . . . 3
CIS 101 – Computers for Learning . . . . . 3
ENG 100 – Writing I . . . . . 3
MATH 135 – Mathematics for Technical Students . . . . . 3
MSU 101 – Discovering University Life . . . . . 1
**Total . . . . . 13**

**Second Semester (Spring)**
BIOL 232 – Human Physiology . . . . . 3
*RCP 110 – Cardiopulmonary Anatomy & Physiology . . . . . 3
*RCP 120 – Theory and Principles of Respiratory Care . . . . . 4
*RCP 130 – Pharmacology . . . . . 3
*RCP 150 – Clinical Practice I . . . . . 2
**Total . . . . . 15**

**Third Semester (Summer)**
BIOL 217 – Elementary Medical Microbiology . . . . . 4

**Fourth Semester (Fall)**
PSY 154, 156, or SOC 101 . . . . . 3
*RCP 125 – Cardiopulmonary Evaluation . . . . . 4
*RCP 175 – Clinical Practice II . . . . . 3
*RCP 180 – Ventilatory Support . . . . . 3
*RCP 228 – Preventive and Long-Term Respiratory Care . . . . . 1
**Total . . . . . 14**

**Fifth Semester (Spring)**
ENG 200 – Writing II . . . . . 3
*RCP 190 – Advanced Ventilatory Support . . . . . 2
*RCP 200 – Clinical Practice III . . . . . 3
*RCP 204 – Emergency & Special Procedures I . . . . . 2
*RCP 212 – Neonatal/Pediatric Respiratory Care . . . . . 3
**Total . . . . . 13**

**Sixth Semester (Summer)**
*Humanities elective . . . . . 3

**Seventh Semester (Fall)**
CMSP 108 – Fundamentals of Speech Communication . . . . . 3
*RCP 214 – Emergency & Special Procedures II . . . . . 2
*RCP 225 – Clinical Practice IV . . . . . 3
*RCP 210 – Cardiopulmonary Pathophysiology . . . . . 3
*RCP 250 – Clinical Practice V . . . . . 3
**Total . . . . . 14**

**Courses offered at campus of Maysville Community and Technical College.*

## Department of Physical Sciences

Antonino Carnevali, Chair
a.carnevali@moreheadstate.edu
123 Lappin Hall
(606) 783-2917

## Chemistry

### Faculty

S.Atim, Z. Barnes, M. Blankenbuehler, N. Coker, H. Hedgecock, A. Macintosh

### Program Competencies

**The student will:**

1. Develop enough learning techniques to adapt to new vocational and educational situations, i.e., be able to self-educate in new applied areas and keep up with progress in the field.
2. Develop enough self confidence, personal independence and understanding of scientific methods to carry out a technical project on one's own with only consultant-style help.
3. Read technical literature with good comprehension.
4. Write technical reports in a clear and logical way.
5. Present oral reports on technical material in a clear and logical way.
6. Be able to retrieve any needed information from the scientific literature.
7. Analyze laboratory data for its correctness and locate probable sources of error, including an understanding of standard statistical tests and the concepts of error and uncertainty, and an understanding of the advantages and limitations of current instrumental and other laboratory techniques.
8. Be able to use the basic principles of chemistry as presented in the first-year class in a wide variety of contexts, especially the relationship of the microscopic physical picture to bulk chemical behavior. Be able to relate scientific principles to observed behavior.
9. Comprehend the major systems of nomenclature used in chemistry and know enough about the basic functional groups of inorganic and organic chemistry to have a primitive vocabulary of basic types of chemical reactions and to be able to use this to make rational chemical predictions.

### Assessment Procedures

Performance of graduates on entrance examinations
Performance of graduates in professional schools
Surveys of graduates
Surveys of employers
Exit Exam

A degree in chemistry opens a wide variety of careers to a graduate. Careers in chemistry involve such diverse areas as the development of new materials, environmental protection, and drug design. A chemistry degree is frequently used as a preparation for entrance into law, medical, dental, veterinary, and pharmacy colleges.

There are two possible degree paths in the chemistry program, an area of concentration and a major. Students completing an area of concentration either continue on to graduate school or enter an industrial position directly upon graduation. Graduates with a major in chemistry may pursue careers in industry in chemical information, technical writing, chemical sales and technical support. The chemistry major may also serve as a basis for further study in biochemistry, medicine, environmental science, pharmaceutical science, physiology or molecular biology. Students may also receive dual degrees through the 3-2 program in chemical engineering. (See the description under Pre-Engineering).

### Bachelor of Science

***Area of Concentration**

*Students who plan to become professional chemists or attend graduate school should complete the following courses:*

**Area of Concentration**

CHEM 111 – Principles of Chemistry I . . . . . 4
CHEM 112 – Principles of Chemistry II, or
CHEM 131 – Environmental Chemistry I . . . . . 4
CHEM 326 – Organic Chemistry I . . . . . 4
CHEM 327 – Organic Chemistry II . . . . . 4
CHEM 340 – Chemical Information . . . . . 2
CHEM 351 – Bioinorganic Chemistry . . . . . 3
CHEM 360 – Analytical Chemistry . . . . . 3
CHEM 441 – Physical Chemistry I . . . . . 3
CHEM 442 – Physical Chemistry II . . . . . 5
CHEM 451 – Advanced Inorganic Chemistry . . . . . 3
CHEM 460 – Analytical Chemistry II . . . . . 5
CHEM 476 – Special Problems or equivalent CHEM 302 or higher lab elective with prior approval of a chemistry advisor . . . . . 1
PHYS 231 – Engineering Physics I . . . . . 4
SCI 498 – Senior Thesis I . . . . . 2
SCI 499C – Senior Thesis II . . . . . 1
**Total . . . . . 48**

**Supplemental Requirements**

BIOL 171 – Principles of Biology . . . . . 4
MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4
MATH 276 – Calculus III, or
MATH 363 – Differential Equations, or
MATH 365 – Introduction to Mathematical Statistics . . 3
PHYS 231A – Engineering Physics I Laboratory . . . . . 1
PHYS 232 – Engineering Physics II . . . . . 4
PHYS 232A – Engineering Physics II Laboratory . . . . . 1
**Total . . . . . 21**

*For students who plan to enter an industrial position directly on graduation, cooperative study is recommended.*

***Major**

This program has three options. Students who wish to work in the chemical industry will follow the general option. This option will be useful for preparation for work in related fields or for professional schools when combined with other courses, minors or majors.

The environmental chemistry option prepares students to work directly in positions in the environmental industry or for graduate study in this field or law.

The chemistry teaching option is solely intended to qualify the student for state certification for secondary school chemistry teaching.

**Core courses for all options**

CHEM 111 – Principles of Chemistry I . . . . . 4
CHEM 112 – Principles of Chemistry II, or
CHEM 131 – Environmental Chemistry I . . . . . 4
CHEM 326 – Organic Chemistry I . . . . . 4
CHEM 351 – Bioinorganic Chemistry . . . . . 3
CHEM 360 – Analytical Chemistry . . . . . 3
CHEM 441 – Physical Chemistry I . . . . . 3
**Total . . . . . 21**

**Supplemental Requirements for all options:**

BIOL 171 – Principles of Biology . . . . . 4
MATH 175 – Calculus I . . . . . 4
PHYS 201 – Elementary Physics I and
PHYS 201A – Elementary Physics I
Laboratory (or equivalent) . . . . . 4
PHYS 202 – Elementary Physics II and
PHYS 202A – Elementary Physics II
Laboratory (or equivalent) . . . . . 4
**Total . . . . . 16**

**Option I: General Chemistry**

CHEM – Electives above 300 or BIOL 590 as approved by chemistry advisor . . . . . 8
SCI 498 – Senior Thesis I . . . . . 2
SCI 499C – Senior Thesis II . . . . . 1
**Total . . . . . 11**

**Option II: Environmental Chemistry**

BIOL 461 – Ecology . . . . . 3
CHEM 332 – Environmental Chemistry II . . . . . 3
*One elective approved by chemistry advisor from:*
BIOL 356 – Environmental Biology . . . . . 3
BIOL 357 – Environmental Testing Methods . . . . . 3
BIOL 510 – Limnology . . . . . 3
CHEM 327 – Organic Chemistry II . . . . . 4
GEOS 376 – Environmental Geology . . . . . 3
GEOS 425 – Hydrogeology . . . . . 3
Either BIOL 499C – Contemporary Environmental Issues, or . . . . . 3
SCI 498 – Senior Thesis I and . . . . . 2
SCI 499C – Senior Thesis II . . . . . 1
**Total . . . . . 12-13**

A minor in Environmental Science is strongly recommended with this option because it also includes the prerequisites for the BIOL/GEOS courses listed above.

Where students take a double major, upper division chemistry electives may be taken to replace SCI 498/499C with the permission of chemistry advisor.

**Option III: Chemistry Teaching**

CHEM – Electives above 300 or BIOL 590 as approved by chemistry advisor . . . . . 8
SCI 402 – Integrated Biology, Mathematics, and Physical Sciences Teaching Methods . . . . . 3
SCI 403 – Integrated Biology, Mathematics, and Physical Sciences Field Experiences in Teaching . . . . . 3
SCI 497C – Senior Seminar in Physical Science Education . . . . . 2
**Total . . . . . 16**

In order to achieve state certification for teaching chemistry, the requirements for a secondary education certificate as listed by the College of Education must be satisfied. Currently, the course requirements are EDF 207, EDF 211, EDF 311, EDSE 312, EDSP 332, EDSE 416, and EDSE 499C. For other requirements for certification, see the College of Education section elsewhere in the catalog and an advisor in the College of Education.

***Minor**

CHEM 111 – Principles of Chemistry I . . . . . 4
CHEM 112 – Principles of Chemistry II or
CHEM 131 – Environmental Chemistry I . . . . . 4
CHEM 326 – Organic Chemistry I . . . . . 4
CHEM 360 – Analytical Chemistry . . . . . 3
CHEM – Electives numbered 302 or higher and approved by chemistry advisor . . . . . 6
**Total . . . . . 21**

*At least 50 percent of the required chemistry coursework in the area of concentration or the major in chemistry must be taken in residency. At least 10 hours of chemistry above CHEM 301 must be taken in residency to complete the chemistry minor.

## Pre-Pharmacy

### Advisors

Z. Barnes, A. Macintosh

The suggested Pre-Pharmacy Program with a chemistry major meets the requirements of most pharmacy schools; electives are tailored to meet the needs of individual students while providing excellent training in chemistry. A core of biology classes is also taken along with some business, social science, physics and math classes.

Pharmacy schools particularly encourage students holding degrees in chemistry and biology to apply for admission. Students may apply for admission to pharmacy school after three years, but a significant number of applicants spend four years at MSU and

complete requirements for a BS degree. Specific courses in pharmacy school may be transferred back upon completion of pharmacy school to finish the chemistry degree at MSU. In making admissions decisions, pharmacy schools consider a student's academic record, standardized exam scores, communication skills, integrity, and maturity. Students in the Pre-Pharmacy Program are encouraged to participate in activities to develop and demonstrate all of these characteristics. Pharmacy schools also strongly advise work experience in a pharmacy. Specific courses may be required for admission to particular pharmacy schools, and pre-pharmacy students should carefully plan their course schedules with their chemistry advisors.

## Pre-Medicine

### Advisor

A. Macintosh

The chemistry major for pre-medical students develops and strengthens communication and thinking skills and gives a good background in chemistry. Additional course work in physics and mathematics helps prepare students for medical school. Most pre-medical students who major in chemistry also minor in biology, though other minors are possible. Recommended general education classes in social and behavioral sciences and humanities round out the student's education.

Medical schools also consider standardized exam scores, communication skills, integrity, maturity and community involvement. Students should pursue activities which demonstrate these characteristics.

Most students finish their degrees at MSU before going to medical school, but students who gain early admission may transfer back specific courses upon completion of medical school to finish the MSU chemistry degree provided other graduation requirements have been met. Specific medical schools may have varying requirements and students should investigate their schools of choice early. Academic advisors work closely with students planning their sequence of courses for degrees.

## Geology

### Faculty

M. Chapman, E. Jerde, C. Mason, S. Reid

### Program Competencies

**Students will be able to:**

1. Identify earth materials (minerals, rocks, fossils, sediments, soils, etc.).
2. Map and correlate bodies of rock, sediment, and soil using surface and subsurface data.
3. Understand the physical processes that shape earth's surface and interior.
4. Apply knowledge of modern geologic processes to interpret the geologic record.
5. Understand methods used to explore for and develop mineral/petroleum/water resources.
6. Assess the suitability of sites for the construction of buildings, roads, dams, landfills, septic systems, waste lagoons, etc.
7. Understand methods used to monitor, reclaim, and remediate sites impacted by mining, improper waste disposal, leaking underground storage tanks, etc.
8. Recognize existing or potential geologic hazards.

### Assessment Procedures

Performance of graduates on discipline-specific exit exam(s)
Survey of alumni regarding employment, acceptance to grad uate school, strengths of MSU's geology program, and wea knesses of the program
Survey of employers or graduate advisors

### Bachelor of Science

**Area of Concentration (Non-Teaching)**

The Area of Concentration is intended for students who desire rigorous, broad-based preparation in most of the subdisciplines within geology. This program is strongly recommended for students who wish to attend graduate school.

BIOL 155 – Population, Resources, and Environment . . 3
CHEM 111 – Principles of Chemistry I. . . . . 4
CHEM 112 – Principles of Chemistry II . . . . . 4
GEOS 108 – Physical Geology . . . . . 4
GEOS 201 – Historical Geology . . . . . 3
GEOS 262 – Mineralogy . . . . . 4
GEOS 300 – Petrology. . . . . 4
GEOS 315 – Sedimentation and Stratigraphy . . . . . 4
GEOS 325 – Structural Geology . . . . . 4
GEOS – 276 or higher level electives . . . . . 12
*Geology Field Camp (six-week field course) . . . . . 6
MATH 175 – Analytic Geometry and Calculus I . . . . . 4
MATH 275 – Analytic Geometry and Calculus II. . . . . 4
SCI 498 – Senior Thesis I . . . . . 2
SCI 499C – Senior Thesis II . . . . . 1

and

**Physics Sequence 1**

PHYS 201 – Elementary Physics I . . . . . 3
PHYS 201A – Elementary Physics I Laboratory . . . . . 1
PHYS 202 – Elementary Physics II. . . . . 3
PHYS 202A – Elementary Physics II Laboratory . . . . . 1

or

**Physics Sequence 2**

PHYS 231 – Engineering Physics I. . . . . 4
PHYS 231A – Engineering Physics I Laboratory . . . . . 1
PHYS 232 – Engineering Physics II. . . . . 4
PHYS 232A – Engineering Physics II Laboratory . . . . . 1
**Total . . . . . 71-73**

* Must be taken off-campus at an accredited university..

**Major**

The geology major provides non-teaching and teaching options. Both require a minor or double major.

Graduates of the non-teaching option will be qualified for entry-level geology and geotechnical positions. The non-teaching option also can be tailored to prepare students for graduate study in geology with careful planning and advising.

The teaching option qualifies graduates to teach earth and space science in the public schools. Students in the teaching option must be admitted to the Teacher Education Program (TEP), and take courses required for a secondary teaching certificate (see the College of Education section elsewhere in the catalog and an advisor in the College of Education.)

**Core**

GEOS 108 – Physical Geology . . . . . 4
GEOS 201 – Historical Geology . . . . . 3
GEOS 315 – Sedimentation and Stratigraphy . . . . . 4
GEOS 325 – Structural Geology . . . . . 4
SCI 498 – Senior Thesis I . . . . . 2
SCI 499C – Senior Thesis II . . . . . 1
**Total . . . . . 18**

**Non-teaching option ****

GEOS 262 – Mineralogy . . . . . 4
GEOS 300 – Petrology. . . . . 4
GEOS 276 or higher level electives. . . . . 6
**Total . . . . . 14**

**Non-teaching option supplemental courses**

CHEM 111 – Principles of Chemistry I. . . . . 4
CHEM 112 – Principles of Chemistry II . . . . . 4
MATH – a minimum of six credit hours from the following:
MATH 141 – Plane Trigonometry
MATH 152 – College Algebra
MATH 174 – Pre-Calculus Mathematics
MATH 175 – Analytic Geometry and Calculus I
MATH 275 – Analytic Geometry and Calculus II
PHYS 201 – Elementary Physics I . . . . . 3
PHYS 201A – Elementary Physics I Laboratory. . . . . 1
PHYS 202 – Elementary Physics II. . . . . 3
PHYS 202A – Elementary Physics II Laboratory . . . . . 1
SCI 110 – Introduction to Scientific Computing . . . . . 3
**Total . . . . . 25-27**

** Students who intend to use the non-teaching option as preparation for graduate school are strongly encouraged to take MATH 175, MATH 275, and summer geology field camp. Students lacking these courses generally are considered deficient by graduate schools.

**Teaching option**

GEOS 240 – Oceans. . . . . 3
GEOS 303 – Planetary Geology, or
SCI 570 – Earth Science . . . . . 3
GEOS 379 – Invert. Paleontology, or
GEOS 410 – Geologic History of Plants and Animals. 3-4
SCI 402 – Integrated Biology, Mathematics, and Physical Sciences Teaching Methods. . . . . 3
SCI 403 – Integrated Biology, Mathematics, and Physical Sciences Field Experiences . . . . . 3
**Total . . . . . 15-16**

**Teaching option supplemental courses**

ASTR 111 – Concepts in Astronomy I: Planetary Science and the Sky, or
ASTR 112 – Concepts in Astronomy II: Stars, Galaxies, and Cosmology. . . . . 3
CHEM 111 – Principles of Chemistry I. . . . . 4
PHYS 201 – Elementary Physics I . . . . . 3
PHYS 201A – Elementary Physics I Laboratory. . . . . 1
SCI 110 – Introduction to Scientific Computing . . . . . 3
**Total . . . . . 14**

Acceptance to the Teacher Education Program (described in the College of Education section of the undergraduate catalog) is required during the sophomore year for students pursuing the teaching option of the major.

**Minor (Non-Teaching)**

GEOS 108 – Physical Geology . . . . . 4
GEOS 201 – Historical Geology . . . . . 3
GEOS – electives approved by advisor . . . . . 14
**Total . . . . . 21**

# Integrated Science

## Faculty

J. Birriel, E. Jerde, A. Macintosh

## Minor (Non-Teaching)*

A total of 24 semester hours in Biological and Physical Sciences including:

BIOL electives at 171 and above, and

Physical Science electives with ASTR, CHEM, GEOS, or PHYS prefixes, with at least two courses at 201 or above.

A minimum of 11 hours must be in eligible Biology electives, and a minimum of 11 hours must be in eligible Physical Science Electives.

# Physics

## Faculty

I. Birriel, J. Birriel, A. Carnevali, K. Price, C. Yess

## Program Competencies

**The student will:**

1. Have an understanding of the core concepts of physics.
2. Develop analytical skills and learning techniques to enable learning new areas of physics.
3. Read and understand technical literature and present oral reports.
4. Be able to function in a laboratory setting to both analyze data and write reports.

5. Be able to apply basic principles of physics in a problem solving situation such as carrying out a technical project.

## Assessment Procedures

Performance of graduates on entrance examinations
Performance of graduates in professional schools
Survey of graduates
Survey of employers
Exit Exam

## Bachelor of Science

Students planning to do graduate work in physics should follow requirements for the major, option I. Students interested in a career in secondary science teaching with a major in physics will find the requirements listed in the catalog under option II of the major.

Students desiring careers as professional physicists in industry, or in eventually pursuing graduate work in engineering or related fields, should follow requirements listed under one of the options under Area of Concentration in Applied Physics.

**Supplemental Requirements for all options in the Major and Area of Concentration**

CHEM 111 – Principles of Chemistry I . . . . . 4
CHEM 112 – Principles of Chemistry II . . . . . 4
MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4
MATH 276 – Calculus III . . . . . 4
MATH 363 – Differential Equations . . . . . 3
SCI 110 – Introduction to Scientific Computing . . . . . 3
**Total . . . . . 26**

***Major Requirements**

**Core Courses for both options:**

PHYS 231 – Engineering Physics I . . . . . 4
PHYS 231A – Engineering Physics I Laboratory . . . . . 1
PHYS 232 – Engineering Physics II . . . . . 4
PHYS 232A – Engineering Physics II Laboratory . . . . . 1
PHYS 332 – Electricity and Magnetism . . . . . 4
PHYS 340 – Experimental Physics . . . . . 3
PHYS 353 – Concepts of Modern Physics . . . . . 4
PHYS 391 – Dynamics . . . . . 3
**Total . . . . . 24**

**Option 1: Physics**

PHYS 493 – Quantum Mechanics . . . . . 3
PHYS electives 300-level or above approved by advisor . . . . . 6
SCI 498 – Senior Thesis I . . . . . 2
SCI 499C – Senior Thesis II . . . . . 1
**Total . . . . . 12**

**Option 2: Physics Teaching**

ASTR 111 – Concepts in Astronomy I: Planetary Science and the Sky, or
ASTR 112 – Concepts in Astronomy II: Stars, Galaxies, and Cosmology . . . . . 3
SCI 402 – Integrated Biology, Mathematics, and Physical Sciences Teaching Methods . . . . . 3
SCI 403 – Integrated Biology, Mathematics, and Physical Sciences Field Experiences in Teaching . . . . . 3
SCI 497C – Senior Seminar in Physical Science Education . . . . . 2
**Total . . . . . 11**

In order to achieve state certification for teaching physics, the requirements for a secondary education certificate as listed by the College of Education must be satisfied. Currently, the course requirements are EDF 207, EDF 211, EDF 311, EDSE 312, EDSP 332, EDSE 416, and EDSE 499C. For other requirements for certification, see the College of Education section elsewhere in the catalog and an advisor in the College of Education.

***Area of Concentration Requirements**

*Core courses for all options:*

PHYS 231 – Engineering Physics I . . . . . 4
PHYS 231A – Engineering Physics I Laboratory . . . . . 1
PHYS 232 – Engineering Physics II . . . . . 4
PHYS 232A – Engineering Physics II Laboratory . . . . . 1
PHYS 353 – Concepts of Modern Physics . . . . . 4
PHYS 340 – Experimental Physics . . . . . 3
PHYS 381 – Computer Solutions to Engineering and Science Problems . . . . . 3
PHYS 481 – Mathematics for Engineers and Scientists . . . . . 3
SCI 498 – Senior Thesis I . . . . . 2
SCI 499C – Senior Thesis II . . . . . 1
**Total . . . . . 26**

**Area of Concentration Options**

**Option 1: Computational Physics**

CIS 200 – Logic and Design of Computer Programs . . . . . 3
CIS 205 – Introduction to Programming–C++ . . . . . 3
CIS 305 – Advanced Programming–C/C++ . . . . . 3
MATH 301 – Elementary Linear Algebra, or
MATH 312 – Numerical Methods . . . . . 3
MATH 303 – Data Structures . . . . . 3
PHYS 391 – Dynamics . . . . . 3
CIS, MATH, or PHYS Electives (Electives should be at 300 level or above or approved by the advisor . . . . . 6
**Total . . . . . 24**

**Option 2: Engineering Physics (Mechanical)**

IET 260 – Hydraulics and Pneumatics . . . . . 3
ITCM 303 – Material Properties and Testing . . . . . 3
MFT 186 – Manufacturing and Fabrication . . . . . 3
PHYS 221 – Statics . . . . . 3
PHYS 391 – Dynamics . . . . . 3

PHYS 411 – Thermodynamics . . . . . 3
Electives 300-level or above approved by the advisor . . . . . 6
**Total . . . . . 24**

**Option 3: Engineering Physics (Electrical)**

ITEC 141 – Direct Current Circuits (DC) . . . . . 3
ITEC 241 – Alternating Current Circuits (AC), or PHYS 211 – Circuits . . . . . 3- 4
ITEC 242 – Principles of Communications . . . . . 3
ITEC 342 – Electronic Devices and Circuits . . . . . 3
ITEC 344 – Wireless Communications . . . . . 3
ITEC 345 – Microprocessor Electronics . . . . . 3
PHYS 332 – Electricity and Magnetism . . . . . 4
PHYS 361 – Fundamentals of Electronics . . . . . 3
ITEC, MATH or PHYS Elective 300 or 400 level approved by the advisor . . . . . 3
**Total . . . . . 28-29**

**Option 4: Astrophysics**

ASTR 311 – Astrophysics I: Stars and Stellar Evolution . . . . . 3
ASTR 312—Astrophysics II: Galaxies and Cosmology . . . . . 3
PHYS 324 – Radio Astronomy . . . . . 3
PHYS 332 – Electricity and Magnetism . . . . . 4
PHYS 412 – Light and Physical Optics . . . . . 3
PHYS 391 – Dynamics . . . . . 3
GEOS 303 – Planetary Geology . . . . . 3
PHYS 493 – Quantum Mechanics . . . . . 3
**Total . . . . . 25**

**Minor in Astronomy**

*Physics Sequence I:*
PHYS 201 – Elementary Physics I . . . . . 3
PHYS 201A – Elementary Physics I Laboratory . . . . . 1
PHYS 202 – Elementary Physics II . . . . . 3
PHYS 202A – Elementary Physics II Laboratory . . . . . 1
or
*Physics Sequence II:*
PHYS 231 – Engineering Physics I . . . . . 4
PHYS 231A – Engineering Physics I Laboratory . . . . . 1
PHYS 232 – Engineering Physics II . . . . . 4
PHYS 232A – Engineering Physics II Laborator . . . . . 1
**Core Physics Requirement . . . . . 8-10**

ASTR 111 – Concepts in Astronomy I: Planetary Science and the Sky . . . . . 3
ASTR 112 – Concepts in Astronomy II: Stars, Galaxies, and Cosmology . . . . . 3
ASTR 311 – Astrophysics I: Stars and Stellar Evolution . . . . . 3
ASTR 312 – Astrophysics II: Galaxies and Cosmology . . . . . 3
**Astronomy and Astrophysics Requirement . . . . . 12**

**Supplemental Requirement (Minimum of one course)***
GEOS 303 – Planetary Geology . . . . . 3
ITEC 444 – Satellite Communications . . . . . 3
PHYS 324 – Radio Astronomy . . . . . 3
PHYS 350 – Nuclear Science . . . . . 3
PHYS 399 – Special Topics in Astrophysics . . . . . 3
PHYS 412 – Light & Physical Optics . . . . . 3
Supplemental Requirement . . . . . 3
*Physics majors will take eight additional hours from the supplemental requirement list to substitute for the physics core required.
**Total Requirement . . . . . 23-25**

***Minor in Physics**

PHYS 231 – Engineering Physics I . . . . . 4
PHYS 231A – Engineering Physics I Laboratory . . . . . 1
PHYS 232 – Engineering Physics II . . . . . 4
PHYS 232A – Engineering Physics II Laboratory . . . . . 1
PHYS 350 – Nuclear Science . . . . . 4
PHYS – electives, approved by advisor . . . . . 7
**Total . . . . . 21**

**At least 50 percent of the course work in the major, area, or minor in physics must be taken in residency.*

# Pre-Engineering

## Faculty

I. Birriel, J. Birriel, A. Carnevali, K. Price, C. Yess

## Two-Two Program (Transfer)

The student spends two years of study in pre-engineering at MSU and then transfers to a college of engineering to complete a Bachelor of Science degree in an engineering field.

**Requirements**

CHEM 111 – Principles of Chemistry I . . . . . 4
CHEM 112 – Principles of Chemistry II . . . . . 4
CMSP 108 – Fundamentals of Speech Communication . . . . . 3
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4
MATH 276 – Calculus III . . . . . 4
MATH 363 – Differential Equations . . . . . 3
PHYS 231 – Engineering Physics I . . . . . 4
PHYS 231A – Engineering Physics I Laboratory . . . . . 1
PHYS 232 – Engineering Physics II . . . . . 4
PHYS 232A – Engineering Physics II Laboratory . . . . . 1
*Elect two courses from the following:*
MATH 260 – FORTRAN Programming . . . . . 3
PHYS 221 – Statics . . . . . 3
PHYS 411 – Thermodynamics . . . . . 3
**Total . . . . . 48**
**General Education Courses . . . . . 16*
**All engineering schools require specific general education*

*courses in the social sciences and humanities. A list of MSU courses which meet UK University Studies requirements is available from the pre-engineering advisor. Students transferring to other engineering schools should contact their advisors before selecting specific courses.*

### Three-Two Program (Dual Degree)

The student completes three years (96 hours), which includes the courses listed in the Two-Two program of study and the MSU bachelor degree requirements before transferring to an engineering college to complete the final two years of specialty. Upon completing work at both schools, the student receives dual degrees: a Bachelor of Science degree from Morehead State University and a Bachelor of Science degree in engineering from the college of engineering. A student must complete an MSU major and minor, and the MSU general education requirements. A student choosing the physics, mathematics or chemistry option has the requirement of at least four additional courses in the chosen option. Advisors can supply additional details. Because colleges of engineering require a substantial background in physics, mathematics, and chemistry, students in the three-two program normally major in one of these areas. Students wishing to major in some other area should work closely with the pre-engineering advisor and an advisor in the selected major to ensure that requirements for both degrees are met.

Many employers of engineers are interested in dual-degree graduates because of their stronger science and mathematics problem-solving skills, their better communication skills, and their broader liberal arts training. Dual degree holders are better prepared to solve unusual engineering problems and to deal with the ethical and social impact of engineering activities.

## Pre-Optometry

### Advisor

M. Blankenbuehler

The Pre-Optometry program is a three year preparatory program designed to meet the entrance requirements of optometry schools. However, optometry school applicants with a four-year bachelor's degree are generally given preferential consideration. Students may complete the bachelor's degree in any area, so long as they include all courses required for admission to the optometry school to which they apply. Optometry school is a four-year program. Before seeking admission to an optometry school, students must take the Optometry Admission Test (OAT). The Commonwealth of Kentucky will pay a portion of the fees for Kentucky residents enrolled at the Southern College of Optometry (Memphis), the University of Alabama School of Optometry, and the Indiana University School of Optometry.

**Core Courses**

BIOL 171 – Principles of Biology . . . . . 4
BIOL 210 – General Zoology . . . . . 4
BIOL 317 – Principles of Microbiology . . . . . 4
BIOL 337 – Comparative Anatomy . . . . . 3
BIOL 425 – Animal Physiology . . . . . 3
CHEM 111 – Principles of Chemistry I . . . . . 4
CHEM 112 – Principles of Chemistry II . . . . . 4
CHEM/BIOL 301 – Fundamentals of Biochemistry . . . 4
CHEM 326 – Organic Chemistry I . . . . . 4
CHEM 327 – Organic Chemistry II . . . . . 4
ENG 100 – Writing I . . . . . 3
ENG 200 – Writing II . . . . . 3
MATH 175 – Calculus I . . . . . 4
MATH 353 – Statistics . . . . . 3
PHYS 201 – Elementary Physics I . . . . . 3
PHYS 201A – Elementary Physics I Laboratory . . . . . 1
PHYS 202 – Elementary Physics II . . . . . 3
PHYS 202A – Elementary Physics II Laboratory . . . . . 1
PSY 154 – Introduction to Psychology . . . . . 3
Social Science electives . . . . . 6
**Total . . . . . 68**

**Additional recommended courses:**

BIOL 231 – Human Anatomy . . . . . 3
BIOL 232 – Human Physiology . . . . . 3
BIOL 304 – Genetics . . . . . 3
BIOL 380 – Cell Biology . . . . . 3

Acceptance into optometry school depends largely upon academic performance. Therefore the student considering this program should have a strong high school background in science and mathematics.

The core courses represent common requirements among schools of optometry. Specific schools have additional requirements.

Students receiving a bachelor's degree from Morehead State University must complete the requirements for graduation found in this catalog. Students should work closely with the pre-optometry advisor and an advisor in their selected major to ensure that requirements for both programs are met.

## Department of Psychology

www.moreheadstate.edu/psych
601 Ginger Hall
(606) 783-2981

### Faculty

L. Couch, C. Feria, L. Haller, S. Kidwell, B. Mattingly, D. Olson, S. Reilley, G. Remillard, I. White, W. White

### Program Competencies

**Students should:**

1. Understand the complexity of human and animal behavior and the influence of psychological, biological, and social factors on behavior.

2. Be competent in psychological research methods including experimental design, data analysis and presentation, report writing, and computer utilization.
3. Understand the methods and knowledge base of six core content areas of psychology.
4. Understand the principle tenets and major theoretical characteristics of major systems in psychology.

**Additional competencies for the Area of Concentration in Psychology include one or more of the following:**

1. Develop additional knowledge of specialized research areas of psychology.
2. Develop additional knowledge and skills in psychological research design and analysis.
3. Develop practical and theoretical competencies in areas of applied psychology.

## Assessment Procedures

Senior capstone course
Exit examination

## Bachelor of Science in Psychology

The purpose of the psychology major is to provide students, within a liberal arts tradition, with a broad base of skills and knowledge of scientific psychology, and its applications. The purpose of the area of concentration in psychology is to extend the foundation provided by the major by allowing students to seek additional training in specialized areas of psychology, and to gain hands-on experience in basic and applied psychology through practicums, cooperative educational experiences, and directed research with faculty.

**Major . . . . . 36**

**Required Core . . . . . 12**
PSY 154 – Introduction to Psychology . . . . . 3
PSY 281 – Experimental Design and Analysis I . . . . . 3
PSY 282 – Experimental Design and Analysis II . . . . . 3
PSY 499C – Systems and Theories . . . . . 3
**Area Requirements . . . . . 18**

**Abnormal and Clinical Psychology . . . . . 3**
PSY 590 – Abnormal Psychology, or
PSY 456 – Introduction to Clinical Psychology, or
PSY 469 – Counseling Psychology

**Adjustment and Development . . . . . 3**
PSY 156 – Lifespan Developmental Psychology, or
PSY 157 – Psychology of Adjustment

**Biopsychology . . . . . 3**
PSY 421 – Physiological Psychology, or
PSY 465 – Drugs and Behavior

**Learning and Motivation . . . . . 3**
PSY 586 – Motivation, or
PSY 589 – Psychology of Learning

**Perception and Cognition . . . . . 3**
PSY 380 – Cognitive Psychology, or
PSY 384 – Sensation & Perception

**Social and Personality . . . . . 3**
PSY 354 – Introduction to Social Psychology, or
PSY 390 – Psychology of Personality

**Electives** (selected from courses not used as required courses or from the following) **. . . . . 6**
PSY 353 – Industrial Psychology . . . . . 3
PSY 356 – Cognitive Development of the Infant and Child . . . . . 3
PSY 358 – Psychological Testing . . . . . 3
PSY 359 – Applied Behavior Analysis . . . . . 3
PSY 399 – Workshop . . . . . 3
PSY 422 – Comparative Psychology . . . . . 3
PSY 452 – Disorders of Childhood . . . . . 3
PSY 471 – Addiction Therapies . . . . . 3
PSY 559 – Behavior Modification . . . . . 3
PSY 575 – Selected Topics . . . . . 3
PSY 576 – Seminar in Developmental Research . . . . . 3
PSY 599 – Workshop . . . . . 3

**Area of Concentration . . . . . 54**

**Required Core . . . . . 12**
PSY 154 – Introduction to Psychology . . . . . 3
PSY 281 – Experimental Design and Analysis I . . . . . 3
PSY 282 – Experimental Design and Analysis II . . . . . 3
PSY 499C – Systems and Theories . . . . . 3

**Area Requirements . . . . . 18**
**Abnormal and Clinical Psychology . . . . . 3**
PSY 590 – Abnormal Psychology, or
PSY 456 – Introduction to Clinical Psychology, or
PSY 469 – Counseling Psychology

**Adjustment and Development . . . . . 3**
PSY 156 – Lifespan Developmental Psychology, or
PSY 157 – Psychology of Adjustment

**Biopsychology . . . . . 3**
PSY 421 – Physiological Psychology, or
PSY 465 – Drugs and Behavior

**Learning and Motivation . . . . . 3**
PSY 586 – Motivation, or
PSY 589 – Psychology of Learning

**Perception and Cognition . . . . . 3**
PSY 380 – Cognitive Psychology, or
PSY 384 – Sensation & Perception

**Social and Personality . . . . . 3**
PSY 354 – Introduction to Social Psychology, or
PSY 390 – Psychology of Personality
**Electives** (selected from courses not used as required courses or from the following) **. . . . . 24**
PSY 199 – Workshop . . . . . 3
PSY 276 – Independent Study . . . . . 3
PSY 339 – Cooperative Education . . . . . 3
PSY 353 – Industrial Psychology . . . . . 3
PSY 356 – Cognitive Development of the Infant and Child . . . . . 3
PSY 358 – Psychological Testing . . . . . 3
PSY 359 – Applied Behavior Analysis . . . . . 3
PSY 399 – Workshop . . . . . 3
PSY 422 – Comparative Psychology . . . . . 3
PSY 452 – Disorders of Childhood . . . . . 3
PSY 470 – Research Problems . . . . . 3
PSY 471 – Addiction Therapies . . . . . 3
PSY 472 – Practicum . . . . . 3
PSY 559 – Behavior Modification . . . . . 3
PSY 575 – Selected Topics . . . . . 3
PSY 576 – Seminar in Developmental Research . . . . . 3
PSY 599 – Workshop . . . . . 3

**Minor . . . . . 24**
PSY 154 – Introduction to Psychology . . . . . 3
Psychology electives . . . . . 21

## Space Science Center

Benjamin Malphrus, Director
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### Faculty

B. Cetiner, M. Combs, J. Kruth, R. Littlepage, B. Malphrus, Q. Xu (Space Science Center), J Birriel (Department of Physical Sciences), Y. Gondokaryono, W. Grise (Department of Industrial and Engineering Technology)

The program in Space Science is one of distinctively few such programs nationwide offered at the undergraduate level. The presence of the 21 Meter Morehead State University Space Tracking Antenna and Radiotelescope (M-STAR) on campus and the availability of this extraordinary facility to our students and faculty for instruction and research provides a solid foundation for the program. Excellent faculty with diverse backgrounds in space related science and technology allow students to tap the full potential of this multifaceted, state-of-the-art facility. The curriculum has been chosen to be rigorous but not too narrow or specialized. Graduates from the program will have breadth of knowledge, experience, and skills, and adaptability – the marketable tools of new and exciting professional careers in space science and the telecommunications industry.

The main goal of this program is to prepare its graduates for professional opportunities in space science, whether their interest might lie in astrophysical research or in applied technologies such as satellite tracking and telemetry, or telecommunications electronics. The program provides a broad but sound education in the basic physical and mathematical sciences, as well as specialized instruction in optical and radio astronomy, astrophysics, electronics, and research opportunities in astrophysics, engineering, engineering technology, and telecommunications. This preparation will enable graduating students to seek positions with NASA, aerospace companies, public and private science organizations, research facilities, colleges, planetariums, astronomical observatories, and in other commercial industries.

## Program Competencies

**The student will:**

1. Develop an understanding of the core concepts of physics, space science, communications electronics, and mathematics
2. Acquire a number of technical skills that are in high demand in the workforce, and the ability to work as a member of a team, to write good quality technical reports, and to give formal oral presentations.
3. Attain extensive experience in computer programming, modeling, data acquisition, analysis, and telecommunications.
4. Use computers and high-tech instrumentation to monitor and control technical systems, including the large structures of space tracking antennas.
5. Be able to apply basic principles of physics and engineering to solve technical problems.

## Assessment Procedures

Performance on writing technical reports and in giving oral presentations
Performance on research-related projects
Survey of graduates
Survey of employees
Exit Exam

### Bachelor of Science
### Area of Concentration in Space Science

The Bachelor of Science degree in Space Science is an interdisciplinary degree program, and as such, requires students to complete requirements in physics, mathematics, electricity-electronics-telecommunications technology, and astronomy-space science.

**Core**

*PHYS 231 – Engineering Physics I . . . . . 4
PHYS 231A – Engineering Physics I Laboratory . . . . . 1
PHYS 232 – Engineering Physics II . . . . . 4
PHYS 232A – Engineering Physics II Laboratory . . . . . 1
PHYS 324 – Radio Astronomy . . . . . 3
PHYS 361 – Fundamentals of Electronics . . . . . 3
PHYS 381 – Computer Solutions to Engineering and Science Problems . . . . . 3
PHYS 412 – Light and Physical Optics . . . . . 3
*SCI 110 – Introduction to Scientific Computing, or
*IET 110 – Fundamentals of Computer Technology . . . . . 3
*SCI 498 – Senior Thesis I and . . . . . 2
*SCI 499C – Senior Thesis II, or . . . . . 1
*IET 499C – Senior Project . . . . . 3
**Core Requirement . . . . . 28**

**Mathematics (11-12):**

*MATH 175 – Calculus I . . . . . 4
MATH 275 – Calculus II . . . . . 4
MATH 363 – Differential Equations (Three hrs.), or
MATH 276 – Calculus III (Four hrs.) . . . . . 3-4
**Math Requirement . . . . . 11-12**

**Electricity-Electronics-Telecommunications Technology (21):**

ITEC 141 – Direct Current Circuits . . . . . 3
ITEC 241 – Alternating Current Circuits (AC) . . . . . 3
ITEC 242 – Principles of Communications . . . . . 3
ITEC 342 – Electronic Devices and Circuits . . . . . 3
ITEC 344 – Wireless Communications . . . . . 3
ITEC 444 – Satellite Communications . . . . . 3
ITEC 500 – Digital Signal Processing I . . . . . 3
**ITEC Requirement . . . . . 21**

**Space Science**-a minimum of 12 hours selected from the following:

*ASTR 111 – Concepts in Astronomy I: Planetary Science and the Sky . . . . . 3
ASTR 112 – Concepts in Astronomy II: Stars, Galaxies, and Cosmology . . . . . 3
ASTR 311 – Astrophysics I: Stars and Stellar Evolution . . . 3
ASTR 312 – Astrophysics II: Galaxies and Cosmology . . . . 3
GEOS 303 – Planetary Geology . . . . . 3
ITEC 480 – Digital Communications Networking . . . . . 3
PHYS 353 – Concepts of Modern Physics . . . . . 4
**Space Science Requirement . . . . . 12-13**
**Total . . . . . 72-74**

**These courses will also count toward satisfying the General Education requirements.*

# Institute for Regional Analysis and Public Policy

***Morehead State University's Program of Distinction***

Dr. David Rudy, Dean
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Combs Building 110G
(606) 783-5420

## Faculty

Z. Bortolot, S. Brooks, L. Cave, M. Hail, D. Han, T. Hare, S. Lange, C. McMichael, S. Parkansky, B. Reeder, E. Reeves, P. Steele

The Institute for Regional Analysis and Public Policy (IRAPP) was established in January 1999 as MSU's Program of Distinction, as designated by the Council on Postsecondary Education. IRAPP's two divisions (Academic Programs and Applied Research, Service and Policy) integrate teaching, applied research, and public service activities to address issues, including economic development, that significantly affect east Kentucky, Appalachia, and rural America in general.

Through its Division of Academic Programs, IRAPP collaborates with the departments of Biological & Environmental Sciences; Geography, Government, & History; and Sociology, Social Work, & Criminology. IRAPP offers an emphasis in conjunction with five undergraduate programs (environmental science, geography, government, social work, and sociology) that includes a unifying core of six courses in Regional Analysis and Public Policy (RAPP). RAPP students learn to examine real world issues and potentials with an awareness that multi-level systems and location affect peoples' social, economic, political, and ecological lives. IRAPP also offers a minor that is open to students in all majors.

IRAPP's Division of Applied Research, Service, and Policy includes the Center for Virtual Appalachia, the Center for Educational Research and Leadership, the Center for Regional Biodiversity, the Center for Justice Studies, the Small Business Development Center, the Center for Community and Economic Development, the Institute for Federalism and Intergovernmental Relations, the Office of Geographic and Cartographic Services, the Kentucky Center for Geospatial Education, Research and Outreach, and the Training Resource Center. IRAPP's research and outreach centers bring students and faculty together with citizens, local school teachers and officials, policymakers, and political leaders to develop action plans and research projects that promote sustainable economic development in the region and address other issues and problems that challenge the region.

IRAPP provides students and faculty frequent opportunities to develop and apply knowledge to real-world problems. Since IRAPP's inception, students have worked with faculty in water testing, wetland development, forest fire modeling, forest inventory, comprehensive community planning, affordable housing development, intergovernmental management, federal public policy, e-commerce, wildlife management, mapping of hazardous materials flow, and tourism development.

For those students who wish to pursue a master's degree, IRAPP offers a Master of Public Administration. In addition, IRAPP offers a dual degree program with the University of Kentucky's Martin School of Public Policy. IRAPP students can begin working on either Master's in Public Administration during their senior year. The program could cut as much as a year off the time normally required to attain both degrees. The partnership will provide students opportunities to increase their quantitative and analytical skills, work with faculty and public leaders on real world problems, and ultimately prepare them for career in public service.

The Regional Analysis Scholars Program provides scholarship awards to students who have demonstrated scholastic excellence. Awards range from $1,000 to $6,000 and are based on ACT composite score and GPA. More information on IRAPP is available by contacting the Dean of the Institute for Regional Analysis and Public Policy, 110G Combs, Morehead, KY 40351-1689, telephone (606) 783-5419, d.rudy@moreheadstate.edu.

## Regional Analysis and Public Policy Minor Admission Requirements

Acceptance to this program requires fifteen credit hours with GPA above 2.50. A personal interview will also be required for admission into the IRAPP program.

## Program Competencies

**The student will:**

1. Understand the relation of their major program to the other fields in regional analysis.
2. Make sound verbal and written arguments that delineate a public policy.
3. Possess the quantitative and qualitative skills to understand regional analysis.
4. Understand the factors that affect and shape occupational vocations in a regional context.
5. Ability to accurately communicate with public and private individuals the meaning and applications of regional analysis.
6. Ability to present research and policy reports that are com prehensible to audiences of various public policymakers.
7. Ability to interpret the output of regional resource analyses and their potential use in formulating public policy.

The students in this program will meet the goals of Enhancement of Instruction by actively participating in a unique, intense interdisciplinary program.
They will participate in Service and Research Functions of the university, and will participate in the Collaborative Ventures of IRAPP with regional organizations.

## Assessment Procedures

Compare employment rates, salaries, and graduate school admissions with similar MSU graduates.

The following specific general education requirements must be completed prior to enrolling in RAPP 202:
Sociology 101 Computer Enhanced or Math 152 or Math ACT of 20 or higher.

**Minor: Regional Analysis and Public Policy**

Required coursework:

RAPP 201 – Society, Nature and Development . . . . . 3
RAPP 202 – Basic Computer Techniques in Regional Analysis . . . . . 3
RAPP 300 – Seminar in Regional Analysis I . . . . . 3
RAPP 350 – Practicing Regional Analysis . . . . . 3
RAPP 490 – Seminar in Regional Analysis II . . . . . 3
**Total Required Hours . . . . . 15**

Elective coursework: Students will complete nine hours of approved 300 or 400 level courses; courses at other levels (e.g., 200) will be considered for approval on a case-by-case basis. Elective courses will be selected in consultation with the minor advisor in order to form a coherent program of study aimed at enhancing student analytic and problem solving capacities and skills. A few examples of thematic electives include: geospatial methods, international studies, women's studies, multidisciplinary approaches, policy studies, etc. Students must obtain approval of thematic electives from both their minor advisor and the IRAPP Dean. As per general university policy, courses (required or elective) in this minor may not be concurrently counted in other minors, majors, or areas of concentration.

**Total Elective Hours . . . . . 9**
**Total Hours . . . . . 24**

## Regional Analysis and Public Policy Emphasis Admission Requirements

Acceptance to the Regional Analysis and Public Policy Emphasis requires a minimum ACT composite of 20 and an Admission Index of 500.

## Program Competencies

**The student will:**

1. Understand the relation of their major program to the other fields in regional analysis.
2. Make sound verbal and written arguments that delineate a public policy.
3. Possess the quantitative and qualitative skills to understand regional analysis.
4. Understand the factors that affect and shape occupational vocations in a regional context.
5. Ability to accurately communicate with public and private individuals the meaning and applications of regional analysis.
6. Ability to present research and policy reports that are compre hensible to audiences of various public policymakers.
7. Ability to interpret the output of regional resource analyses and their potential use in formulating public policy.

The students in this program will meet the goals of Enhancement of Instruction by actively participating in a unique, intense interdisciplinary program. They will participate in Service and Research Functions of the university, and will participate in the Collaborative Ventures of IRAPP with regional organizations.

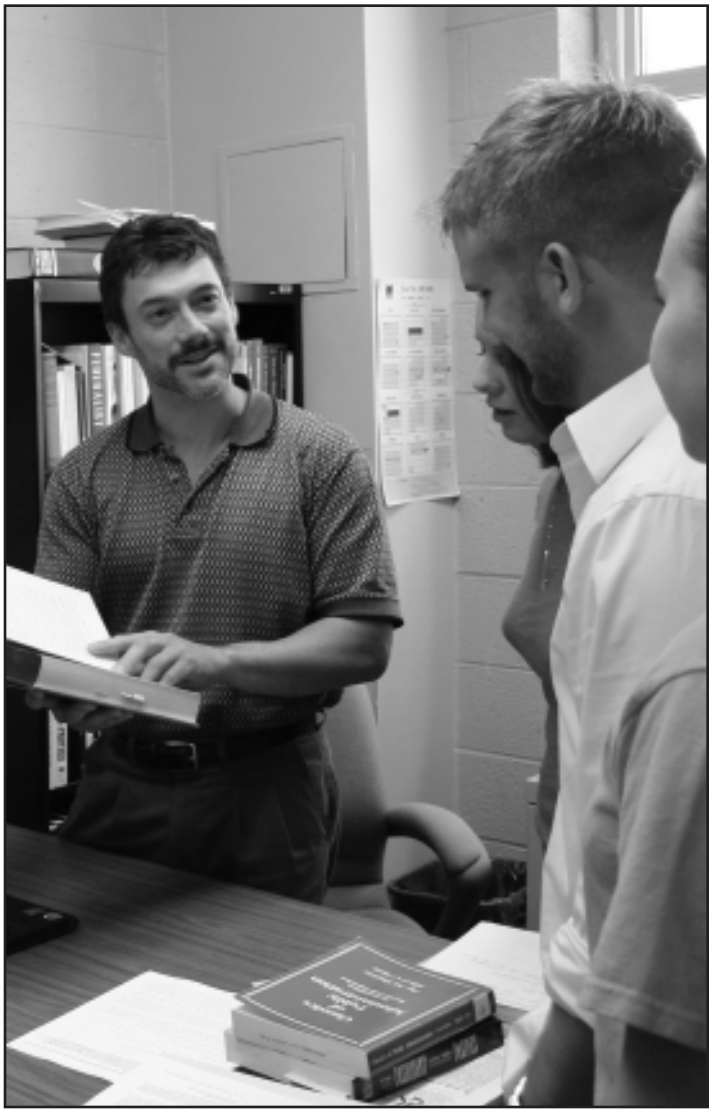
## Assessment Procedures

Compare employment rates, salaries, and graduate school admissions with similar MSU graduates.

**Emphasis: Regional Analysis and Public Policy**

Required coursework:

RAPP 201 – Society, Nature and Development . . . . . 3
RAPP 202 – Basic Computer Techniques in Regional Analysis . . . . . 3
RAPP 300 – Seminar in Regional Analysis I . . . . . 3
RAPP 350 – Practicing Regional Analysis . . . . . 3
RAPP 450 – Practicing Regional Analysis II . . . . . 3
RAPP 490 – Seminar in Regional Analysis II . . . . . 3
**Total Required Hours . . . . . 18**



# Course Abbreviations

| | |
|---|---|
| ACCT | Accounting |
| AGR | Agriculture |
| APS | Appalachian Studies |
| ART | Art |
| ASTR | Astronomy |
| BIOL | Biology |
| BIS | Business Information Systems |
| CHEM | Chemistry |
| CHI | Chinese |
| CIS | Computer Information Systems |
| CMAP | Communication (Advertising/Public Relations) |
| CMEM | Communication (Electronic Media) |
| CMJN | Communication (Journalism) |
| CMSP | Communication (Speech) |
| COMM | Communication (General) |
| CRIM | Criminology |
| CS | Computer Science |
| CTE | Career and Technical Education |
| CTMR | Computed Tomography/Magnetic Resonance |
| DMS | Diagnostic Medical Sonography |
| ECON | Economics |
| EDAH | Education (Adult and Higher) |
| EDEC | Education (Early Childhood) |
| EDEE | Education (Early Elementary – P-5) |
| EDEL | Education (Elementary) |
| EDEM | Education (Early Elementary and Middle Grades) |
| EDF | Education (Foundations) |
| EDGC | Education (Guidance and Counseling) |
| EDMG | Education (Middle Grades – 5-9) |
| EDSE | Education (Secondary) |
| EDSP | Education (Special) |
| EDUC | Education (Professional) |
| ENG | English |
| FIN | Finance |
| FNA | Fine Arts |
| FRN | French |
| GEO | Geography |
| GEOS | Geoscience |
| GER | German |
| GOVT | Government |
| HIS | History |
| HLTH | Health |
| HON | Honors |
| HPE | Health & Physical Education |
| HS | Human Sciences |
| HUM | Humanities |
| IECE | Interdisciplinary Early Childhood Education |
| IET | Industrial and Engineering Technology |
| IMS | Imaging Sciences |
| IST | International Studies |
| ITCM | Construction Management |
| ITCD | Computer Aided Design |
| ITCG | Computer Aided Graphics |
| ITEC | Electrical, Electronics, Telecommunications and Computer Technology |
| ITL | Italian |
| ITMT | Manufacturing |
| LAT | Latin |
| LEAD | Leadership |
| LSIM | Library Science and Instructional Media |
| MATH | Mathematics |
| MKT | Marketing |
| MNGT | Management |
| MS | Military Science |
| MSU | University Studies |
| MUSC | Music (Conducting) |
| MUSE | Music (Education) |
| MUSG | Music (Class Applied) |
| MUSH | Music (History and Literature) |
| MUSM | Music (Ensembles) |
| MUSP | Music (Private Applied) |
| MUST | Music (Theory and Composition) |
| NURA | Nursing (Associate) |
| NURB | Nursing (Bachelor's) |
| NURS | Nursing |
| PDI | Personal Development Institute |
| PHED | Physical Education |
| PHIL | Philosophy |
| PHYS | Physics |
| PLS | Paralegal Studies |
| PSY | Psychology |
| RAPP | Regional Analysis |
| RCP | Respiratory Care Program |
| REAL | Real Estate |
| REL | Religion |
| RSCI | Radiologic Sciences |
| RUS | Russian |
| SCI | Science |
| SOC | Sociology |
| SPA | Spanish |
| SPMT | Sport Management |
| SWK | Social Work |
| THEA | Theatre |
| VET | Veterinary Technology |
| WST | Women's Studies |

# Course Descriptions

NOTE: (3-0-3) following a course title means three hours class, no laboratory, three hours credit. Roman numerals I, II, III following the credit hour allowance indicate the term in which the course is normally scheduled: I – Fall, II – Spring, III – Summer. Many required courses are on a rotation. Students should plan their semesters according to when these courses are offered.

### Accounting

**ACCT 281. Principles of Financial Accounting. (3-0-3); I, II.** An introduction to financial accounting and financial reporting for business. Topics covered include: how decision makers use balance sheets, income statements, and other information found within financial statements; the accounting cycle; accounting and reporting of balance sheet accounts and their articulated income statement accounts.

**ACCT 282. Principles of Managerial Accounting. (3-0-3); I, II.** *Prerequisite: ACCT 281.* An introduction to managerial accounting and decision making. Topics covered include: job order costing, process costing, activity-based costing, cost-volume-profit relationships, the statement of cash flows and financial statement analysis.

**ACCT 339. Cooperative Education III. (1 to 8 hrs.); I, II.** *Prerequisite: consent of departmental cooperative education coordinator required.* Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior level status. Maximum of three hours of co-operative education credit (ACCT 339/439) available for option credit.

**ACCT 375. Accounting Analysis and Financial Decision Making. (3-0-3); on demand.** *Prerequisites: ACCT 282, CIS 101, FIN 360.* Interpretation and development of accounting and financial data and statements incorporating spreadsheet analysis and applications. Cross listed with FIN 375.

**ACCT 381. Intermediate Accounting I. (3-0-3); on demand.** *Prerequisites: ACCT 281 and 282 with a minimum grade of "C".* The first of three intermediate-level financial accounting courses. Topics covered will include study of: the environment under which accounting standards are established; the conceptual framework for financial accounting; the accounting cycle; requirements for the presentation of the income statement, balance sheet, and statement of cash flows, time value of money concepts; and accounting for cash, accounts receivable and inventories.

**ACCT 382. Intermediate Accounting II. (3-0-3); on demand.** *Prerequisite: ACCT 381 with a minimum grade of "C."* The second of three intermediate-level financial accounting courses. Topics covered will include accounting for: acquisition and depreciation of fixed assets, intangible assets, current liabilities, contingencies, long-term liabilities, stockholders' equity, retained earnings, dilutive securities, earnings per share, investments, and revenue recognition.

**ACCT 383. Intermediate Accounting III. (3-0-3); on demand.** *Prerequisite: ACCT 382 with a minimum grade of "C."* The third of the three intermediate-level financial accounting courses. Topics covered will include accounting for: income taxes, pensions, post retirement benefits, leases, changes and errors, and changing prices. Other topics include the cash flow statement, basic financial statement analysis, and methods of full disclosure.

**ACCT 387. Income Tax. (3-0-3); I.** *Prerequisite: ACCT 282 with a minimum grade of "C."* Income tax legislation, federal and state; returns for individuals; gross income; basis for gains and losses; capital gains and losses; dividends; deductions; withholding.

**ACCT 388. Practice in Personal Tax Accounting. (3-3-3); II.** *Prerequisite: ACCT 387 and consent of instructor.* Income tax legislation, federal and state; preparing returns for elderly and low income individuals; gross income; capital gains and losses; dividends; interest; deductions; withholdings. Available for option credit.

**ACCT 390. Cost Accounting I. (3-0-3); on demand.** *Prerequisite: ACCT 282 with a minimum grade of "C."* Control and classification of manufacturing costs, job order and process cost analysis; materials, labor, and overhead analysis; joint and by-product costing.

**ACCT 391. Accounting Information Systems. (3-0-3); on demand.** *Prerequisite: ACCT 282 with a minimum grade of "C."* Examination of accounting information systems within a context of contemporary technology. The course focuses on terms, concepts, and technology found within the accounting information systems environment; accounting cycles and control of accounting information systems; theory and practices relating to systems development; and reporting practices related to accounting information systems.

**ACCT 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various accounting subjects will be presented periodically. These workshops supplement the basic accounting courses. Credit toward degree programs must be approved by the student's advisor and the department chair.

**ACCT 428. Governmental Accounting. (3-0-3); on demand.** *Prerequisite: ACCT 282 or equivalent with a minimum grade of "C."* Study of fund accounting techniques for government accounting terminology and budgeting processes; operations of general revenue and expense, capital project, debt service, trust, intragovernment, special assessment, and enterprise funds analysis of fixed assets and liabilities, and basics of hospital and public school fund accounting.

**ACCT 439. Cooperative Education IV. (1 to 8 hrs.); I, II.** *Prerequisite: consent of departmental cooperative education coordinator required.* Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior-level status. Maximum of three hours of cooperative education credit (ACCT 339/439) available for option credit.

**ACCT 475. Controllership. (3-0-3); on demand.** *Prerequisite: ACCT 282 or equivalent with a minimum grade of "C."* Emphasis on appreciation of the function of the controller in a contemporary business organization. Planning for control, reporting, and interpreting operation results, evaluating new programs, tax administration and other types of required government reporting, economic appraisal of programs, and the protection of assets.

**ACCT 476. Special Problems in Accounting. (1 to 3 hrs.); on demand.** *Prerequisite: completion of 18 hrs. in accounting, senior standing in accounting and consent of department chair.* This course is an independent study of an accounting problem of special interest. Students must present in writing a suggested problem and justification for the study prior to registration. Each request will be considered on its own merit in relation to the special needs of the students.

**ACCT 482. Advanced Accounting. (3-0-3); on demand.** *Prerequisite: ACCT 382 with a minimum grade of "C."* Accounting

for requisitions, consolidations, and mergers; purchasing and pooling methods of business combinations, parent and subsidiary accounting for consolidated balance sheets; income statements; statement of changes in financial position; international operations; partnerships; installment sales; consignments; home office and branch accounting.

**ACCT 483. Auditing. (3-0-3); on demand.** *Prerequisite: ACCT 382 with a minimum grade of "C."* Accounting principles applied to internal control systems; audit working papers; detail audit; internal audit; special and fractional audits; audit reports; tests and procedures used in auditing, ethical responsibilities of CPAs.

**ACCT 485. Forensic Accounting. (3-0-3); on demand.** *Prerequisites: ACCT 381 and ACCT 387 with a minimum grade of "C."* An introduction to the fundamental concepts, as well as the more complex and developing issues of modern forensic accounting. Topics include: fraud auditing, litigation support, cybercrime, and business valuations.

**ACCT 486. Accounting Internship. (1 to 4 hrs.); on demand.** *Prerequisites: completion of 18 hrs. in accounting and consent of department chair.* On-the-job professional experience in accounting working under the supervision of a CPA arranged through cooperating public accounting firms and governmental agencies.

**ACCT 487. Advanced Tax Accounting II. (3-0-3); on demand.** *Prerequisite: ACCT 387 with a minimum grade of "C."* Federal income tax report preparation with emphasis on partnership and corporation returns; estate and trust taxation; gift tax; special problems in taxation, tax research.

**ACCT 490. Cost Accounting II. (3-0-3); on demand.** *Prerequisite: ACCT 390 with a minimum grade of "C."* Cost analysis for planning, evaluation, and control. Standard costs, direct costing, budgets, cost and profit analysis, alternative choice decisions, linear programming, capital budgeting.

## Agriculture

**AGR 101. Orientation to Agriculture. (1-0-1); I.** The importance of agriculture in the community, state, nation, and world, including career opportunities.

**AGR 102. Agricultural Experience. (1 to 2 hrs.); I, II, III.** The course is designed to provide students with basic competencies in the agricultural sciences. Enrollment is limited to students in agricultural programs. Students are required to complete two credit hours.

**AGR 108. Elementary Horsemanship (Stockseat). (0-2-1); I, II.** Includes riding basics in relation to stockseat, such as leading a horse, bridling and saddling, grooming, mounting, dismounting, stopping, starting, turning the horse, riding at different gaits, horsemanship safety and ring etiquette, plus general overall knowledge of horses.

**AGR 109. Elementary Horsemanship (Saddle Seat). (0-2-1); I, II.** Includes riding basics in relation to saddle seat, such as leading a horse, checking saddle and bridle; mounting and dismounting, stopping, starting, turning, and backing the horse, riding horses at different gaits, horsemanship safety and ring etiquette; plus general overall knowledge of horses. Cross listed with PHED 109.

**AGR 110. Elementary Horsemanship (Hunt Seat). (0-2-1); I, II.** Includes riding basics in relation to hunt seat, such as leading a horse, checking saddle and bridle; mounting and dismounting, stopping, starting, turning, and backing the horse; riding horses at different gaits, horsemanship safety and ring etiquette; and general overall knowledge of horses.

**AGR 118. Intermediate Horsemanship (Stockseat). (0-2-1); I, II.** *Prerequisite: AGR 108, 109, 110, or consent of instructor.* Includes review of elementary horsemanship (stockseat) techniques; handling horses properly from the ground; grooming and tacking-up; more advanced riding skills such as rein and leg aides; correct body position; halts, turns, and figure work; trail riding; and parts of the horse, bridle, and saddle, all in relation to western riding.

**AGR 119. Intermediate Horsemanship (Saddle Seat). (0-2-1); I, II.** *Prerequisite: AGR 109, 110, or consent of instructor.* Includes review of elementary horsemanship (saddle seat) techniques; handling horse properly from ground; grooming, tacking-up; more advanced riding skills such as leg aides, rein aides, and canter leads; detailed study of gaits, equipment, and dress; and trail riding and showing horses, parts of the horse, bridle, and saddle.

**AGR 120. Intermediate Horsemanship (Hunt Seat). (0-2-1); I,II.** *Prerequisite: AGR 109, 110, or consent of instructor.* Intermediate review of elementary horsemanship (hunt seat) techniques; handling horse properly from ground; grooming, tacking-up; more advanced riding skills such as leg aides, rein aides, and canter leads; detailed study of gaits, equipment, and dress; and trail riding and showing horses, parts of the horse, bridle, and saddle.

**AGR 133. Introduction to Animal Science. (2-2-3); I, II.** Fundamental genetics, nutrition, and physiology of beef and dairy cattle, swine, sheep, and horses.

**AGR 143. Anatomy and Physiology of Livestock. (3-0-3); I.** An introduction to the comparative anatomy and physiology of common livestock species, including horses, beef and dairy cattle, swine, sheep, and goats. The focus of this course will be on the structure and function of the various organ systems of livestock and how they relate to management practices.

**AGR 180. Introduction to Field Crops. (2-2-3); II.** *Prerequisite: BIOL 150 or consent of instructor.* A study of the national and international distribution and importance of major food, feed, oil, fiber, and miscellaneous crops; natural requirements and human inputs for production; current practices in production technology; crop morphology.

**AGR 202. Agricultural Plants and Humanity. (3-0-3); I.** *Prerequisite: ENG 100.* The roles agronomic and horticultural plants play in the improved physical and mental health of individuals, in the social and cultural development of countries and communities, and in maintaining an ecologically-sound planet. *This course satisfies area studies-practical living for general education.*

**AGR 204. World Food. (3-0-3); I, II, III.** Analysis of contemporary problems and issues of public concern relating to food, agriculture, and rural areas using the tools of fundamental economic concepts. Farm income, food prices, world food problems, natural resources, environment, and rural development issues will be studied. *This course satisfies area studies-social and behavioral sciences for general education.* Cross listed with IST 204.

**AGR 205. Farm Records. (3-0-3); II.** Development and application of farm records necessary for farm business analysis, including a study of types of inventories, depreciation schedules, cost determining, and record keeping.

**AGR 211. Soils. (2-2-3); I.** *Prerequisite: CHEM 101.* Study of origin, formation, composition, and classification of soils; the physical, chemical, and biological properties of the soil; texture, structure, and nutrient holding capacities in relation to plant growth and soil management.

**AGR 212. Landscape Plants. (2-2-3); I, even years.** A study of ornamental trees, shrubs, and vines commonly used in landscaping.

Emphasis is placed on identification, characteristics, adaptability, and maintenance.

**AGR 213. Landscape Design. (2-2-3); II, odd years.** *Prerequisite: AGR 212.* An introduction to residential landscape design. Emphasis on the design process, design principles, and selection of plants and man-made materials.

**AGR 215. Horticultural Science. (2-2-3); II.** *Prerequisite: BIOL 150.* A study of the basic principles underlying horticultural practices in fruit growing, vegetable gardening, landscape gardening, and floriculture.

**AGR 221. Equitation. (1-4-3); I.** *Prerequisite: AGR 118, 119, or 120, or consent of instructor.* Study and application of basic equitation techniques as it applies to various breeds and styles of riding. Figure work.

**AGR 222. Livestock Evaluation. (2-2-3); II.** *Prerequisite: AGR 133.* An introduction to growth, development and fattening of meat animals. Evaluation of live animal and carcass characteristics of cattle, sheep and swine.

**AGR 224. Greenhouse Operations. (2-2-3); II, odd years.** *Prerequisite: AGR 215.* Study of the greenhouse industry, media, watering, fertilization, insects, diseases, chemical growth regulators, hydroponics, and cost-accounting.

**AGR 233. Animal Diseases and Parasites. (2-2-3); I, odd years.** *Prerequisite: AGR 133.* Study of the diseases and parasites of food animals. Mechanisms of disease processes, treatments, and preventative measures for the common pathologic conditions in livestock. Environmental and management factors that impact on diseases and parasites will also be studied.

**AGR 235. Supervised Work Experience. (1 to 6 hrs.); I, II, III.** A supervised work experience program for students planning careers in agriculture upon completion of the associate degree program.

**AGR 243. Equine Health and Disease. (2-2-3); I.** A general study of the anatomy and physiology of the horse, first aid, diseases and parasites, normal and abnormal behavior and how they relate to herd health management.

**AGR 245. Horseshoeing. (2-2-3); II.** The fundamentals of horseshoeing; the basic use of farrier tools; anatomy and physiology of the foot, pastern, and legs. Trimming feet, fitting and nailing shoes, normal and corrective shoeing.

**AGR 251. Introduction to Agricultural Mechanics. (2-2-3); I.** Farm shop organization; shop safety; selection, use, and maintenance of hand and power tools and equipment for construction and maintenance in agriculture; practical exercises and projects to develop essential skills.

**AGR 261. Information Acquisition and Analysis. (2-2-3); I, II, III.** The study of the processes used in collecting, organizing, evaluating, and presenting data and information through the use of computerized data collection and analysis systems. Application software commonly used in the various disciplines of Agricultural Sciences. *This course satisfies the computer competency requirement for general education.*

**AGR 300. Pest Management. (2-2-3); II.** *Prerequisite: AGR 133 or 180, or consent of instructor.* Studies in the nature and management of agricultural pests. Discussion will include but not be limited to such topics as pest types; pest damage; cultural, biological, and chemical management strategies; integrated pest management; economic, health, and safety perspectives; and utilization techniques.

**AGR 301. Farm Management. (3-0-3); I.** Farm organization, fitting livestock and cropping programs into a functioning unit, profit maximization and least cost combination of resources for a specified level of production.

**AGR 302. Agriculture Finance. (3-0-3); I, even years.** A study of farm capital structure and needs. The policy and practices of institutions offering credit to farmers are analyzed.

**AGR 303. Land Economics. (3-0-3); II, even years.** *Prerequisite: AGR 211.* Farm selection and appraisal of land resources; adaptation of land as the basis for farm organization and agricultural production; study of land tenure systems; rights of ownership; recreational possibilities of nonproductive land.

**AGR 305. Marketing of Farm Products. (3-0-3); I, even years.** Development of geographical specializations, demand and supply schedules of agricultural products, price equilibrium, long and short run cyclical price movements, hedging in futures, demand expansion, increasing operational and pricing efficiency, specific commodity marketing.

**AGR 308. Weed Science. (2-2-3); I, even years.** *Prerequisite: CHEM 101.* Identification and classification of weed species, methods of reproduction, and growth characteristics. Effects on livestock, crop yield and quality, and human well-being; management methods and technology.

**AGR 311. Soil Conservation. (2-2-3); I.** *Prerequisite: AGR 211 or consent of instructor.* Land resources, capabilities, and uses; land use planning; agricultural, construction, mining, and other use effects on soil resources, geologic and accelerated erosion; soil pollution, economics of soil conservation; conservation practices and philosophies.

**AGR 312. Soil Fertility and Fertilizers. (3-0-3); II, even years.** *Prerequisite: AGR 211.* A study of plant nutrient needs and uptake; soil nutrient supplying ability; nutrient - soil interactions; chemical forms; fertilizer source materials and manufacture; soil testing and fertility management; economic fertilizer use.

**AGR 314. Plant Propagation. (2-2-3); II, even years.** *Prerequisite: AGR 215 or consent of instructor.* A study of the principles and practices of the propagation of horticultural plants. Includes seeding, layering, cutting, division, grafting, and budding.

**AGR 315. Fruit Production. (2-2-3); I, even years.** *Prerequisite: AGR 215 or consent of instructor.* Tree fruits, nuts, and small fruits; varieties, sites, soils, pruning, pest control, planning, and commercial marketing.

**AGR 316. Feeds and Feeding. (2-2-3); I.** *Prerequisites: AGR 133 and CHEM 201.* Feeds and formulation of rations; fats, carbohydrates, proteins, and their digesting; the role of minerals, vitamins, and feed additives in nutrition.

**AGR 317. Floral Design. (2-2-3); I, II.** A beginning course for floral design dealing with basics in arranging fresh, dried, and permanent flowers and foliage.

**AGR 318. Landscape Maintenance. (2-2-3); II, odd years.** *Prerequisites: AGR 212 and 215 or consent of instructor.* Basic maintenance of tree, shrub, ground cover, and annual plants, including fertilizing, mulching, pests, planting, pruning, training, and watering.

**AGR 319. Herbs. (2-2-3); II, even years.** *Prerequisite: AGR 215 or BIOL 150, or consent of instructor.* A study of the history, culture, uses, and marketing of culinary, medicinal, and aromatic herbs.

**AGR 320. Principles of Vegetable Production. (2-2-3); I, odd years.** *Prerequisite: AGR 215 or consent of instructor.* Principles of commercial and home vegetable production and handling. Includes soil; ecological and economic factors which influence production;

producing for fresh and processing markets; varieties, pest control, cultural practices, and mechanization.

**AGR 323. Interior Landscaping. (2-2-3); I, even years.** *Prerequisite: AGR 215.* Design, selection of plants, installation, and maintenance of interior landscapes in offices, homes, and public buildings.

**AGR 324. Greenhouse Structures. (2-2-3); I, odd years.** *Prerequisite: AGR 215.* Study of factors involved in locating, constructing, and equipping a greenhouse. Studies include coverings, heating, cooling, ventilating, CO2 injectors, benches, watering and fertilizer application systems, supplemental lighting, environmental control systems, and hothouses.

**AGR 325. Turf Management. (2-2-3); I, even years.** *Prerequisites: AGR 215 and BIOL 150, or consent of instructor.* Turf grass varieties, basic principles of production and their practical application to establishment, maintenance, renovation, and pest control on lawns, playgrounds, and sports turf areas.

**AGR 326. Nursery Management. (2-2-3); II, odd years.** *Prerequisites: AGR 215, 314, or consent of instructor.* Selection, systems of culture, harvesting and management of ornamental trees, shrubs, and vines.

**AGR 327. Advanced Landscape Design. (2-2-3); I, odd years.** *Prerequisites: AGR 212, 213, or consent of instructor.* Selection and location of ornamental plants for large properties such as schools, playgrounds, estates, apartment complexes, and factories. Preparing specifications and bids.

**AGR 328. Floral Crop Production. (2-2-3); II, odd years.** *Prerequisites: AGR 215 and 224.* Production of bedding plants, flowering potted plants, cut-flowers, and foliage plants.

**AGR 329. Advanced Stockseat Horsemanship. (1-4-3); I, odd years.** *Prerequisites: AGR 118, 221, or consent of instructor.* Develop skills of performance equitation. Specific skills needed in the training or showing of western horses, halter, pleasure, and reining.

**AGR 330. Livestock Improvement. (2-2-3); II, odd years.** *Prerequisite: AGR 133.* Study of the principles, practices, and procedures of animal breeding, selection and mating systems and their application for farm livestock production and improvement.

**AGR 332. Advanced Saddleseat Horsemanship. (1-4-3); II.** *Prerequisites: AGR 119, 221, or consent of instructor.* Develop skills of performance equitation. Specific skills needed in driving, training, and showing of saddleseat style horses.

**AGR 333. Advanced Huntseat Horsemanship. (1-4-3); II, even years.** *Prerequisites: AGR 120, 221, or consent of instructor.* Develop skills of performance equitation. Specific skills needed in training or showing of hunter horses, jumping and course design.

**AGR 335. Equitation Teaching. (2-2-3); II, even years.** *Prerequisite: AGR 332.* The techniques of horsemanship and methods of equitation instruction.

**AGR 336. Dairy Production. (2-2-3); even years.** *Prerequisites: AGR 133 and 316.* A general study of the factors involved in the management of a dairy cow herd, including herd operation, records, breeding programs, diseases and principles of nutrition.

**AGR 337. Poultry Production. (2-2-3); I, even years.** *Prerequisites: AGR 133 and 316, or consent of instructor.* Principles of poultry production including common breeds of chickens, incubation, breeding, housing, nutrition, diseases, and general management practices.

**AGR 338. Livestock Judging. (1-5-3); II, odd years.** *Prerequisite: AGR 222.* Study and practice of the principles of livestock judging. The student will be expected to gain an understanding of phenotypic appearance as it relates to important economic traits and genetic improvement of livestock.

**AGR 342. Horse Production. (2-2-3); I, even years.** *Prerequisite: AGR 243.* A general study of the history and development of breeds of the horse, the relationship of form to function, horse selection, horse breeding, feeding and genetics.

**AGR 343. Beef Production. (2-2-3); II, even years.** *Prerequisites: AGR 133 and 316, or consent of department.* The history, development, and distribution of breeds; sources of cattle and carcass beef; production and distribution practices in steer feeding; commercial and purebred breeding herds.

**AGR 344. Swine Production. (2-2-3); I, odd years.** *Prerequisites: AGR 133 and 316, or consent of department.* History, development, and distribution of types of breeds; management practices, including disease problems in commercial and purebred herds.

**AGR 345. Sheep Production. (2-2-3); II, odd years.** *Prerequisites: AGR 133 and 316, or consent of department.* History, development, and distribution of types and breeds; selection, breeding, feeding, and management of sheep; production and handling of wool.

**AGR 350. Farm Power and Machinery Management. (2-2-3); I.** Selection, operation, maintenance, and servicing of agriculture power and machinery units.

**AGR 380. Equine Management. (2-2-3); I, III, odd years.** *Prerequisites: AGR 243 and 342.* Management and practices in various horse operations as they relate to buildings and equipment, sanitation, pasture and feed selection, supervision of laborers, public relations, legalities and liabilities, and record keeping systems.

**AGR 384. Forage Crops. (2-2-3); II, even years.** *Prerequisites: AGR 180 and 211.* The distribution of various forage crops and their adaptations to soil and climate; seeding rates and mixtures; productivity; pest control; and preservation and utilization methods.

**AGR 385. Agribusiness Management. (3-0-3); II, even years.** Management of the agribusiness functions, responsibilities, and operational characteristics unique to an agriculturally related business, particularly cooperatives.

**AGR 386. Introduction to Agricultural Policy. (3-0-3); II, odd years.** A history of agricultural policy and policy making; defining the problems and their settings, government participation in supply and demand for agricultural products.

**AGR 388. Methods of Curriculum Development. (3-0-3); II.** *Prerequisite: CTE 207 or consent of instructor.* A comprehensive study of current curriculum content in Vocational Education. Emphasis on modifying and developing new curricula. Cross listed with HS 388 and CTE 388.

**AGR 392. Methods of Instructional Technology. (2-2-3); I, III.** *Prerequisites: admission to the TEP, CTE 207.* Holistic approach to curriculum development with an introduction to the use of technology to develop and enhance curriculum and instruction. A portfolio will be maintained and presented at the end of the class. Cross listed with HS 392 and CTE 392.

**AGR 402. Advanced Agricultural Experience. (1 to 2 hrs.); I, II, III.** The course is designed to provide students with advanced competencies and agricultural management skills in the option they have chosen. Enrollment is limited to students in agricultural programs.

**AGR 470. Methods of Instruction. (3-0-3); I.** *Prerequisite: admission to TEP.* The principles of instructional methods which

apply to the teaching of agricultural subject matter which is included under the major program components of secondary vocational agriculture programs. Cross listed with HS 470 and CTE 470.

**AGR 476. Special Problems. (1 to 3 hrs.); I, II, III.** *Prerequisite: upper division standing.* Permits a student to do advanced work as a continuation of an earlier experience or to work in an area of special interest. Topic for investigation must be selected and approved by advisor prior to registration.

**AGR 478. Student Teaching Practicum. (12-0-12); I, II.** *Prerequisite: admission to TEP.* Each student is assigned to an approved student teaching center offering comprehensive teaching experience in Agricultural Education. Cross listed with HS 478 and CTE 478.

**AGR 480. Equine Breeding and Reproduction. (1-4-3); II.** *Prerequisites: AGR 332 and 342 or equivalent.* A thorough study of the anatomy and physiology of reproduction in the stallion and the mare with practical emphasis on teasing, breeding, and foaling techniques, semen collection, insemination, and evaluation, along with daily record keeping.

**AGR 499C. Senior Seminar in Agriculture. (3-0-3); I, II.** *Prerequisite: senior status in an Agriculture major or area of concentration.* Students may conduct research projects or utilize literature surveys leading to written and oral reports in their area of interest in Agriculture. Guest lecturers and faculty will present the most current information in Agriculture. *This course satisfies the integrative component for general education.*

**AGR 505. Farm Business Analysis. (2-2-3); on demand.** *Prerequisite: consent of instructor.* A basic course in the applicability of farm records to the efficiency analysis of whole farms and of specific enterprises. Actual University farm enterprises will be used to provide the data source for laboratory work.

**AGR 512. Conservation Workshop. (2-2-3); on demand.** *Prerequisite: consent of instructor.* Development of the conservation movement with broad treatment of the basic natural resources, including land, water, air, minerals, forests, and wildlife. May be repeated, but not to exceed total of six hours.

**AGR 515. Animal Nutrition. (2-2-3); II.** *Prerequisite: AGR 316.* Chemistry, metabolism, and physiological functions of nutrients; digestibility, nutritional balances, and measures of food energy.

**AGR 580. Methods of Teaching Vocational Agriculture. (4-0-4); II.** The principles of methods applied to teaching vocational agriculture to high school students. Course organization, farming programs, and Future Farmers of America activities.

**AGR 582. Adult and Young Farmer Education. (3-0-3); II.** The principles and techniques needed in organizing and program planning in post high school vocational agricultural education and conducting young farmer and adult farmer classes.

**AGR 584. Teaching Vocational Agriculture. (8-0-8); II.** Supervised teaching in centers selected by the state agriculture education staff and members of the teaching staff. Teacher experiences with in-school and out-of-school groups.

**AGR 585. Teaching Agricultural Mechanics. (3-0-3); I.** Objectives with methods, equipment and management of the shop; organization of facilities for high school and vocational technical programs.

**AGR 586. Planning Programs in Vocational Agriculture. (3-0-3); II.** Organization and analysis of the program of vocational agriculture. Departmental program of activities, summer programs, advisory committees, and Future Farmers of America activities.

**AGR 588. Curriculum Development and Content Selections. (3-0-3); III.** Each student prepares the content for a four-year program in vocational agricultural education.

**AGR 592. Supervision in Agriculture. (3-0-3); I, II.** The principles and techniques needed in individual group supervision of vocational agricultural programs.

### Appalachian Studies

**APS 201. Introduction to Appalachian Studies. (3-0-3); I.** A multidisciplinary introduction to Appalachian culture and history. Perspectives of literature, music, both popular and documentary film, folk tradition and sociology will also be explored.

### Art

**ART 101. Two-Dimensional Foundation. (2-2-3); I, II.** An introduction to fundamental elements and principles of two-dimensional design. This course addresses the arrangement of formal elements within the picture plane. A variety of media are used including paint, ink, pencil and paper.

**ART 102. Three-Dimensional Foundation. (2-2-3); I, II.** An introduction to three-dimensional concepts of form, space, surface and structure. Principles are taught employing a variety of methods, techniques and materials, such as cardboard, modeling clay, paper and wire.

**ART 103. Color Foundation. (2-2-3); I, II.** An introduction to the fundamentals of artistic and scientific principles of color. This course addresses elements of color and relationships between colors. The primary medium used will be acrylic paint.

**ART 109. Introduction to the Computer in the Visual Arts. (2-2-3); I, II, III.** An introduction to the computer as an academic and professional tool, employing the Macintosh computer platform. Areas covered include the manipulation and generation of images, word processing, spread sheets and basic telecommunications. This course is recommended for, but not limited to art majors. *This course satisfies the computer competency requirement for general education.*

**ART 121. School Art I. (2-2-3); I, II, III.** Introduction to art and to the teaching of art in the lower (1-3) elementary grades.

**ART 204. Drawing I. (2-2-3); I, II, III.** *Prerequisite: ART 101 or consent of Department Chair.* An introduction to object and subjective drawing. Emphasis is placed on accurate seeing and technical competence at depicting reality. A variety of media is used including charcoal, ink, pastel and pencil.

**ART 205. Graphic Design I. (2-2-3); I, II.** *Prerequisites: ART 101 and 103.* Introduction to lettering principles and their application. Rough and comprehensive layout in black and white and color, with emphasis on design.

**ART 214. Painting Techniques I. (2-2-3).** *Prerequisite: ART 103 or consent of department.* Introduction to oil painting, materials and methods, arrangement of the palette; and the use of a variety of different subjects.

**ART 221. School Art II. (2-2-3); II .** Philosophy and methods of teaching art to children in the elementary grades; a study of materials, media, and tools.

**ART 245. Ceramics I. (2-2-3); I, II, III.** Introduction to ceramic forms in hand building, wheel-throwing, glazing, and decorative techniques.

**ART 263. Art History I. (3-0-3); I, II.** An examination of prehistoric, ancient Near Eastern, Pre-Columbian, tribal, and Asian art.

It includes a study of materials, techniques, subjects, styles, issues, functions and meanings. *This course satisfies the area studies-humanities for general education.*Cross listed with IST 263.

**ART 264. Art History II. (3-0-3); I, II.** An examination of ancient Greek and Roman, and Medieval art. It includes a study of materials, techniques, subjects, styles, issues, functions and meanings. *This course satisfies the area studies-humanities for general education.* Cross listed with IST 264.

**ART 265. Art History III. (3-0-3); I, II.** An examination of art from the Renaissance to the present. It includes a study of materials, techniques, subjects, styles, issues, functions, and meanings. *This course satisfies the area studies-humanities for general education.*Cross listed with IST 265.

**ART 294. Sculpture I. (2-2-3); I, II.** *Prerequisite: ART 102 or consent of Department Chair.* Creative experiences in the techniques, media, and tools of sculpture, work in stone, wood, metal, clay, and plaster.

**ART 300. Elementary Materials and Methods. (2-2-3); II.** *Prerequisite: admission to TEP.* Background and philosophy of elementary art in education.

**ART 301. Field Experience in Art Education. (1-2-3). I.** *Prerequisites: admission to TEP, ART 300 and 321, or consent of instructor.* Clinical and field experiences related to planning, implementing, and evaluating art education in the P-12 setting. Two full days weekly of field experiences in public schools in nearby communities

**ART 302. Typography. (2-2-3).** *Prerequisite: ART 109, 205, or consent of department.* An introduction to typography as a foundation for visual communication, with an emphasis on basic concepts of typography-type usage, type anatomy, type classification, basic terminology, tools and materials of the trade, and graphic design. This course is computer based, Macintosh platform.

**ART 304. Drawing II. (2-2-3); I, II.** *Prerequisite: ART 204 or consent of department.* A continuation of ART 204.

**ART 305. Graphic Design II. (2-2-3); I, II.** *Prerequisites: ART 109 and 205.* A study of three-dimensional design with emphasis on product and package design.

**ART 306. Graphic Design for the Web, (2-2-3); I, II.** *Prerequisite: ART 109, 305, or consent of Department Chair.* Application of the principles of graphic design to web publishing. Emphasis on creative Web site design solutions through image preparation, typography and color design for individual and corporate clinics.

**ART 309. Computer Art. (2-2-3); I, II.** Use of computers to generate and manipulate images.

**ART 310. Puppetmaking. (2-2-3); I, II, III.** The historical and contemporary significance of puppetry including the techniques and methods of construction and production.

**ART 314. Painting Techniques II. (2-2-3); I, II, III.** Painting from still life and landscape with emphasis on creative interpretation and expression.

**ART 316. Watercolor I (2-2-3); I, II, III.** Introduction to watercolor media and methods and to the use of various subjects.

**ART 320. Survey of Graphic Design. (3-0-3); on demand.** An exploration of the origins and evolution of graphics and graphic design from ancient civilization to present. Movements, styles and new developments shaped by technology will be investigated, as well as graphic designs and designers that influenced the ongoing evolution of the discipline.

**ART 321. Materials and Methods for Secondary Art. (2-2-3); I.** *Prerequisite: admission to TEP.* Presentation of the background, philosophy, and techniques for the teaching of art in the secondary school.

**ART 345. Ceramics II. (2-2-3); I, II, III.** *Prerequisite: ART 245.* Individual work in wheel-throwing, hand building, operation of kilns, and basic experiments in glazing.

**ART 351. Intaglio Printmaking. (2-2-3); I, II.** *Prerequisite: ART 101 or consent of department.* Creative experiments in intaglio printmaking on stone. Techniques include line etching, aquatint, soft ground, dry point, and monotype on zinc and copper.

**ART 352. Lithographic Printmaking. (2-2-3); I, II.** *Prerequisite: ART 101 or consent of department.* Creative experiments in the techniques of lithographic printmaking on stone. Processes include crayon, rubbing ink, liquid tusche, acid tint, and transfer.

**ART 361. Ancient Art. (3-0-3); I.** The history of Western painting, sculpture, and architecture from prehistoric times until the beginning of the Christian era.

**ART 362. Medieval Art. (3-0-3); II, alternate years.** The history of European painting, sculpture, and architecture from the beginning of the Christian era until c. 1300.

**ART 363. Renaissance Art. (3-0-3); I, alternate years.** The history of European painting, sculpture, and architecture from c. 1300 until c. 1525.

**ART 364. Mannerist and Baroque Art. (3-0-3); II, alternate years.** The history of European painting, sculpture, and architecture from c. 1525 until c. 1750.

**ART 373. Basic Black and White Photography. (2-2-3); I, II.** Practical introduction to basic camera and darkroom techniques of black and white photography. Areas covered include camera operation, film exposure and development, enlarging and print presentation.

**ART 394. Sculpture II. (2-2-3); I, II.** *Prerequisite: ART 294.* Studio problems involving the manipulation of various sculpture media.

**ART 399. Selected Topics. (3-0-3); III, on demand.** Specialized offerings in art for undergraduate students. The purpose of these special courses is to supplement regular course offerings in art.

**ART 400. Apprenticeship. (3 to 16 hrs.); I, II, III.** *Prerequisite: departmental approval upon satisfactory completion of application procedure.* Experience in a working situation, allowing the student access to instruction and practical experiences not normally available in the Art Department curriculum.

**ART 404. Drawing III. (2-2-3); I, II.** *Prerequisite: ART 304.* A serious search into the expressive possibilities of the figure; anatomical investigation of parts, variety of media and techniques leading to individual interpretation.

**ART 405. Graphic Design III. (2-2-3); I, II.** *Prerequisite: ART 305.* Introduction to the use of graphics as a means of visual communication with emphasis on design concepts. Studio assignments on problems related to the community, society, industry, and commerce.

**ART 406. Graphic Design IV. (2-2-3); I, II.** *Prerequisite: ART 405.* Advanced work in advertising design with emphasis placed on the commercial application of design principles as they relate to the organization of copy and illustration for use by media.

**ART 407. Commercial Illustration I. (2-2-3); I, II.** *Prerequisite: ART 204 and 205.* Two- and three-dimensional forms and the various techniques for rendering them for use in commer-

cial design. Emphasis is placed on realistic drawing and presentation of objects.

**ART 408. Commercial Illustration II. (3 to 6 hrs.); I, II.** *Prerequisite: ART 407.* The continuation of studies in the area of commercial illustration. A more comprehensive study of different media and illustration techniques. May be repeated for credit.

**ART 409. Airbrush. (2-2-3); I, II.** *Prerequisites: ART 205, 214, or consent of department.* An introduction to use of the airbrush and its application to design concepts including shape, line, value, texture and composition. A variety of airbrush related materials are used. Techniques, skill and perceptual development are emphasized.

**ART 410. Computer Animation. (2-2-3); I, II.** *Prerequisite: ART 109 and 309, or consent of department.* The course will give students intensive instruction on the Macintosh Computer system in the use and application of 3D modeling and 3D animation programs in the visual art.

**ART 414. Painting Techniques III. (2-2-3); I, II, III.** Further exploration of different mediums and direction toward an individual approach. Painting from a variety of subjects; technical investigation and creative interpretation emphasized.

**ART 445. Ceramics III. (2-2-3); I, II.** *Prerequisite: ART 345.* An in-depth study of more advanced forms, surface treatment theory of kiln firing and glaze calculation.

**ART 451. Intaglio Printmaking Studio. (2-2-3); I, II.** *Prerequisite: ART 351.* Advanced studio in intaglio printmaking. Techniques include engraving, mezzotint, color intaglio, photoetching and color monotype. May be repeated for credit.

**ART 452. Lithographic Printmaking Studio. (2-2-3); I, II.** *Prerequisite: ART 352.* Advanced studio in lithographic printmaking. Techniques include color lithography, reversal, chine colle, and multi-plate registration. May be repeated for credit.

**ART 461. 18th and 19th Century European and U.S. Art. (3-0-3); I, alternate years.** The history of European and American Art painting, sculpture, and architecture from c. 1750 until c. 1900.

**ART 462. 20th Century Art. (3-0-3); II, alternate years.** The painting, sculpture, and architecture of the twentieth century.

**ART 463. Art of the United States. (3-0-3); I, alternate years.** A survey of the social, political, and cultural movements which affected the course of American artistic development.

**ART 464. Spanish, Portuguese and Latin American Art. (3-0-3); II, alternate years.** A survey of the painting, sculpture, and architecture of Spain, Portugal, and Latin America.

**ART 467. Native American Art. (3-0-3); I, alternate years.** A survey of the visual arts of the indigenous tribes of North America from the beginning of their recorded history through the present.

**ART 468. Appalachian Arts. (3-0-3); II, alternate years.** This course will provide a survey of the arts of the Appalachian region from pre-colonial times to the present.

**ART 473. 35mm Photography. (2-2-3); I, II.** *Prerequisite: ART 373.* Advanced small format shooting and darkroom techniques exploring various subjects and styles.

**ART 474. Photo Studio. (2-2-3); I, II.** *Prerequisite: ART 473 or consent of Department Chair.* Small or large format individual projects requiring in-depth treatment of a particular subject, concept, or style.

**ART 475. Large Format Photography. (2-2-3); I, II.** *Prerequisite: ART 473 or consent of Department Chair.* Large format camera operation with various subjects and styles and printing of large format negatives.

**ART 476. Individual Art Problems. (1 to 6 hrs.); I, II, III.** *Prerequisites: student must have completed all of the department's courses that are offered in the specific media and must obtain consent of Department Chair.* Individual Art Problems will be offered for the student who wishes to explore one medium in depth.

**ART 481. German Art of the 20th Century. (3-0-3); on demand.** This course will examine the visual expression of German, Austrian, and Swiss artists of the 20th Century, including Die Brucke, Der Blaue Reiter, Dada, Neue Sachlichkeit, Surrealism, Bauhaus, art of National Socialism, and Post-War developments in the art of both West and East Germany. Particular emphasis will be placed on art and artists in relationship to political and social events of the time, especially the two World Wars, the rise of National Socialism, and the Cold War. Cross listed with IST 481.

**ART 482. Contemporary World Art. (3-0-3); on demand.** This course will provide a worldwide survey of contemporary visual arts in historical context and will explore current issues in contemporary art. Cross listed with IST 482.

**ART 494. Sculpture III. (2-2-3); I, II.** *Prerequisite: ART 294 and 394.* Advanced problems in sculpture involving a combination of materials and their uniqueness as media.

**ART 499C. Visual Art Capstone. (2-2-3); I, II.** *Prerequisite: junior or senior standing or permission of Department Chair.* An integrative course stressing oral and written discourse on the visual arts and preparation of students for professional goals. *This course satisfies the integrative component for general education.*

**ART 504A. Drawing. (2-2-3); I, II.** *Prerequisite: ART 404 or consent of Department Chair.* Advanced studio in figure drawing. Further exploration of figure drawing concepts and media with emphasis on creative interpretation and expression.

**ART 504B. Drawing. (2-2-3); I, II.** *Prerequisite: ART 404 or consent of Department Chair.* Advanced studio in figure drawing. Further exploration of figure drawing concepts and media with emphasis on creative interpretation and expression.

**ART 514. Painting Techniques IV. (2-2-3); I, II, III.** Experiences leading toward individual achievements in styles and techniques.

**ART 545. Ceramics IV. (2-2-3); I, II.** Advanced study of contemporary ceramic form and surface resolution. Continued practical experience with kiln operation and glaze calculation.

**ART 555. Advanced Art Problems. (1 to 6 hrs.); I, II, III.** *Prerequisite: Consent of Department Chair.* A studio course involving research in an art area of the student's choice.

**ART 599. Selected Topics. (1 to 3 hrs); on demand.** Specialized offerings in art for undergraduate seniors and graduate students. The purpose of these special courses is to supplement regular course offerings in art.

### Astronomy

**ASTR 111. Concepts in Astronomy I: Planetary Science and the Sky. (3-0-3); I, II.** This course represents an introduction to the study of astronomical phenomena: motions of the sky, newtonian physics, celestial mechanics, matter and energy, structure and scale in the universe, and planetary science including comparative planetology, planetary evolution, interiors, topography, geology, and atmospheres, vagabonds of the solar system (comments, asteroids and Kuiper Belt objects (KBOs), and the potential for catastrophic collision. We will also investigate extrasolar planetary systems and

the possibility of life elsewhere in the universe. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**ASTR 112. Concepts in Astronomy II: Stars, Galaxies, and Cosmology. (3-0-3); I, II.** This course represents an introduction to the study of astronomical phenomena: motions of the sky, Newtonian physics, celestial mechanics, matter and energy in the universe, structure and scale in the universe, the sun as a star, solar astrophysics, stars and stellar evolution, stellar endpoints (white dwarfs, neutron stars, and black holes), galaxies (structure, evolution, and interactions) and cosmology (the Big Bang, dark matter, and dark energy. Fundamental cosmological questions will be addressed including how the universe began and its ultimate fate. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**ASTR 311. Astrophysics I: Stars and Stellar Evolution. (3-0-3); I.** *Prerequisites: ASTR 111, PHYS 201 and 202 or consent of instructor.* A study of the properties, formation, structure, and evolution of stars with an emphasis on the physical principles underlying the observed phenomena. Topics include the observed properties of stars, the birth, evolution, and death of stars and stellar remnants such as pulsars, black holes, and white dwarfs. This course is intended for students majoring in space science and the natural sciences. Although calculus is not used in this course, algebra and trigonometry are used extensively.

**ASTR 312. Astrophysics II: Galaxies & Cosmology. (3-0-3); II.** *Prerequisites: ASTR 111, 112, 311, PHYS 201 and 202 or consent of instructor.* This course is an in-depth study of the properties, formation, structure, and evolution of galaxies and of principles and modern theories of cosmology. The course emphasizes the application of physical laws and principles in the studies of galaxies, utilizing both algebra and trigonometry. Astronomy is an observational, as opposed to an experimental, science. We have knowledge of the galaxies only by observing the radiation these objects emit. We will begin our study with the properties of galaxies (beginning with the Milky Way) including determination of morphologies, distances, sizes, stellar components, components (i.e. disks, nuclei, spiral arms, globular cluster haloes, X-Ray and Dark Matter haloes), rotation rates, systemic velocities, atomic hydrogen distribution and mass. The remainder of the course will be an examination of principles of modern cosmology including an investigation of the Hot Big Bang Model, cosmological parameters, Dark Matter and Dark Energy, the geometry of spacetime and scenarios for the ultimate fate of the universe.

## Biology

**BIOL 105. Introduction to Biological Sciences. (3-0-3); I, II, III.** An introduction to biological chemistry, cell structure and function, ecology, evolution, organismal diversity, reproduction, and genetics. NOT ACCEPTABLE for biology majors or minors. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 110. Biological Science for Elementary Teachers. (2-2-3); I, II, III.** An introduction to the study of living things, cell structure and function, photosynthesis, respiration, reproduction, growth, heredity, evolution and ecology. NOT ACCEPTABLE for biology majors, minors, or areas. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 150. Introduction to Plant Science. (2-2-3); I.** Structure, growth, reproduction and ecology of plants. Emphasis on cultivated plants and applications. NOT ACCEPTABLE for biology majors, minors, and areas. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 155. Introduction to Environmental Science. (3-0-3); I, II.** Human ecology with special emphasis on the interactions between humans, required resources (physical, chemical, geological and biological), and their regional and global environments. Information is presented from an analytical and interdisciplinary perspective. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 160. Introduction to Biological Principles. (3-0-3); I, II.** A course in biology for students to gain competency for BIOL 171. Emphasis is placed on establishing a foundation in molecular, cellular, and biochemical aspects of biology. NOT ACCEPTED as credit toward the department's majors, minors, or areas of concentration. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 171. Principles of Biology. (3-2-4); I, II, III.** *Prerequisite: composite ACT of 20 or above, or minimum grade of "C" in BIOL 105 or 160. Minimum Math ACT score of 20 or completion of MATH 093 (minimum grade of "C") is recommended.* General biological principles; emphasis on cell function, energetics, homeostasis, genetics, evolution, and ecology. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 199. Selected Workshop Topics. (1 to 4 hrs.); on demand.** *Prerequisites: variable.* Workshops in various biological and environmental subjects presented periodically, based on need. Usually hands-on, experimental, and/or innovative, these workshops supplement various programs in the biological and environmental sciences or other disciplines. Individual credit towards degree programs must be approved by the department chair.

**BIOL 210. General Zoology. (2-4-4); I, II.** *Prerequisite: BIOL 171.* A survey of animals from Protozoa to Mammalia with emphasis on phylogeny, evolution, comparative morphology, and physiology.

**BIOL 213. Introduction to Veterinary Microbiology. (2-4-4); I, II.** *Prerequisite: CHEM 101.* Study of bacterial and mycotic agents pathogenic to humans and animals. The collection, isolation, cultivation and identification of pathogenic microorganisms from animals is stressed. Virology, anti-microbial susceptibility tests, serological methods and quality control introduced. NOT ACCEPTABLE for biology majors or minors.

**BIOL 215. General Botany. (2-4-4); I, II, III.** *Prerequisite: BIOL 171.* Structure and physiology of vegetative and reproductive plant organs; introduction to plant genetics and plant kingdom in terms of structure, ecology, and evolution.

**BIOL 217. Elementary Medical Microbiology. (3-2-4); I, II, III.** An elementary microbiology course for students interested in understanding the characteristics and activities of microorganisms and their relationship to health and disease. NOT ACCEPTABLE as credit for biology majors or minors.

**BIOL 231. Human Anatomy. (3-0-3); I, II, III.** *Prerequisite: composite ACT score of 19 or above, or BIOL 105 or equivalent.* A study of functional human anatomy. NOT ACCEPTABLE as credit for the major or minor in biology. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**BIOL 232. Human Physiology. (3-0-3); I, II, III.** *Prerequisite: BIOL 231 or equivalent.* Physiology of the various systems of the human body as particularly related to health. NOT ACCEPTABLE as credit for biology majors and minors (non-teaching).

**BIOL 233. Laboratory for Human Physiology. (0-2-1); I, II, III.** *Prerequisite: BIOL 232 or equivalent (may be taken concurrently).* Fundamental physiological principles with an emphasis on laboratory technique, equipment usage, and clinical applications. NOT ACCEPTABLE as credit for biology majors and minors (non-teaching).

**BIOL 301. Fundamentals of Biochemistry. (3-2-4); I, II.** *Prerequisite: CHEM 112 or 201.* Chemistry of simple and complex biomolecules such as amino acids, proteins, carbohydrates, lipids, and nucleic acids. Biosynthesis and metabolic cycles; gene composition (DNA, RNA, etc.). NOT ACCEPTED as credit for chemistry minors. Cross listed with CHEM 301.

**BIOL 304. Genetics. (2-2-3); I, II, III.** *Prerequisite: BIOL 171.* Mendelian inheritance, chemical nature of DNA and chromosomes, regulation of gene expression, experimental techniques in genetics, human genetic disorders and population genetics.

**BIOL 313. Economic Botany. (3 hrs).** Wood products, plant fibers, latex products, pectins, gums, resin, tannins, dyes, essential oils, medicinals, insecticides, tobacco, oils, fats, waxes, food and beverage plants. Three lecture-discussion-demonstration hours per week.

**BIOL 317. Principles of Microbiology. (2-4-4); I, II.** *Prerequisites: BIOL 171 and CHEM 112 or 201.* Fundamental and applied aspects of microbiology. Prokaryotic cell structure and morphology, diversity, metabolism, and genetics emphasized; virology and immunology introduced. Microbiological techniques, scientific inquiry, bacterial identifications, and recombinant DNA technology stressed in the laboratory.

**BIOL 318. Local Flora. (1-4-3); I.** *Prerequisite: BIOL 215.* Identification and classification of plants native to the area. Collection and herbarium techniques.

**BIOL 334. General Entomology. (2-2-3); II, odd years** *Prerequisite: BIOL 210.* A general introduction to insect morphology, physiology, behavior, ecology, evolution, and diversity. The roles of insects as pests, as vectors of disease, and in forensics are also covered. Identification of common orders and families and general morphological structures are covered in lab. Field work is expected.

**BIOL 336. Pathophysiology. (4-0-4); II, III.** *Prerequisites: BIOL 217, 232, and CHEM 201 or equivalent.* Emphasis on physiological mechanisms in regard to disease, pharmacological actions, and providing a bridge between basic science and the clinic.

**BIOL 337. Comparative Anatomy. (2-2-3); II.** *Prerequisite: BIOL 210.* Vertebrate morphology, especially from an evolutionary perspective. Functional aspects and evolutionary trends among the vertebrate classes are emphasized.

**BIOL 338. Developmental Biology. (2-2-3); I.** *Prerequisite: BIOL 210.* Vertebrate development from gamete formation through the fetal stage; emphasis on comparative structural development.

**BIOL 350. Heredity and Society. (3-0-3); on demand.** *Prerequisite: BIOL 105 or equivalent.* Evolutionary processes and intricacies of genetic transmission. Evolution in human thought, experience, and affairs.

**BIOL 351. Plant Natural History. (3-0-3); on demand.** *Prerequisite: BIOL 105 or equivalent.* A survey of major taxonomic groups; emphasis on the natural history of local plants.

**BIOL 352. Animal Natural History. (3-0-3); on demand.** *Prerequisite: BIOL 105 or equivalent.* A survey of major taxonomic groups; with emphasis on the natural history of local animals.

**BIOL 356. Environmental Biology. (3-0-3); I.** *Prerequisites: BIOL 155, 210, 215, and MATH 152.* Basic ecological principles, population and community ecology as they apply to current environmental problems. BIOL 357 is a companion course.

**BIOL 357. Environmental Testing Methods. (1-4-3); I.** *Prerequisites: BIOL 155, 210, 215, and MATH 152.* Field and laboratory methods used by environmental professionals. Techniques of terrestrial and aquatic habitat analysis and aquatic toxicology. BIOL 356 is a companion course.

**BIOL 380. Cell Biology. (2-2-3); I, II, III.** *Prerequisites: BIOL 171 and CHEM 201 or 326, plus eight additional hours of biology.* Integration of biological, chemical, and physical aspects of the cell. Emphasis on molecular processes.

**BIOL 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** *Prerequisites: variable.* Workshops in various biological and environmental subjects presented periodically, based on need. Usually hands-on, experimental, and/or innovative, these workshops supplement various programs in the biological and environmental sciences or other disciplines. Individual credit towards degree programs must be approved by the department chair.

**BIOL 402. Integrated Biology, Mathematics, Physical Sciences Teaching Methods. (2-2-3); I.** *Prerequisites: admission to TEP and completion of at least 20 hours in biology. Co-requisite: BIOL 403.* Methods course for students who desire to become teachers of middle school science and secondary school biology, physical science or mathematics. The course provides integrated and content specific clinical experiences designed to prepare the student for student teaching and their subsequent role as a classroom teacher. Cross listed with MATH 402 and SCI 402.

**BIOL 403. Integrated Biology, Mathematics, and Physical Science Field Experiences in Teaching (1-4-3); I.** *Prerequisites: admission to TEP and completion of at least 20 hours in biology. Co-requisite: BIOL 402.* Course provides structured field experiences for students who desire to become teachers of secondary school biology, mathematics, or physical science. This course provides guided field experiences to acclimate the student into the culture of teaching. Cross listed with MATH 403 and SCI 403.

**BIOL 425. Animal Physiology. (2-2-3); I.** *Prerequisites: BIOL 301 and 380.* Comparison of fundamental physiological processes in representative vertebrate animals. Emphasis placed on comparative energetics and physiological adaptations of organisms to their environment.

**BIOL 426. Plant Physiology. (2-2-3); II.** *Prerequisites: BIOL 215, 301, and 380.* The fundamentals of physiological functioning of angiosperms from the molecular to the organismal level. Topics include: diffusion, osmosis, cell wall and membrane structure, mineral nutrition, photosynthesis, respiration, photoperiodism, and other aspects of plant growth and development.

**BIOL 437. Ornithology. (1-4-3); II.** *Prerequisite: BIOL 210.* Anatomy, physiology, classification, and identification of birds; life histories, habits, migration, and economic importance of native species. Field trips required.

**BIOL 446. Biotechnology. (2-2-3); I.** *Prerequisites: BIOL 301 and 304.* Advanced theory and methods in genetic engineering, protein expression and purification, and practical applications of immunoglobins; transgenic organisms and agricultural biotechnology are also covered.

**BIOL 450. Aquatic Entomology. (1-4-3); II, even years.** *Prerequisite: BIOL 210.* Survey of aquatic insects, their ecology,

their biology, and how they are used as environmental biomonitors. Emphasis is placed on using taxonomic keys for insect identification and field sampling techniques. Extensive field work is expected, some all-day field trips required.

**BIOL 461. Ecology. (2-2-3); I.** *Prerequisites: BIOL 210, 215, MATH 152 or higher, and MATH 353, and eight hours of college chemistry.* Interrelations of organisms and environment. Some all-day field trips required.

**BIOL 471. Seminar in Biological Science. (1-0-1); I, II.** *Prerequisite: senior standing.* Introduction to research and literature in the biological sciences.

**BIOL 476. Special Problems. (1 to 6 hrs.); I, II, III.** Independent topics and research in the biological and environmental sciences. Topic must be approved prior to registration by the department chair.

**BIOL 499C. Contemporary Environmental Issues. (3-0-3); II.** *Prerequisite: senior level students in Environmental Science Area.* An in-depth examination of current environmental issues and problems with local, regional, national or international import. The historic context, current laws and applicable technology, ecological, social and ethical implications of the issues will be explored. *This course satisfies the integrative component for general education for students with an area of concentration in environmental science.*

**BIOL 499D. Principles of Evolution. (3-0-3); I, II.** *Prerequisite: senior standing with completion of BIOL 304, BIOL 317, and either completion of or concurrent enrollment in BIOL 461 and BIOL 425 or BIOL 426.* Major processes (e.g. natural selection, speciation, molecular evolution, etc.) of evolutionary biology are illustrated by using examples from molecular, cellular, and organismal biology. History of evolutionary theory, history of life on earth, phylogenetics, population genetics, biogeography, and macroevolutionary patterns are also treated. This course satisfies the integrative component for general education for students completing a major in biology.

**BIOL 505. Invertebrate Zoology. (1-4-3); II.** *Prerequisite: BIOL 210.* Major invertebrate phyla; emphasis on their evolution, taxonomy, morphology, physiology, and ecology; local representatives. Field trips required.

**BIOL 510. Limnology. (2-2-3); II.** *Prerequisites: BIOL 210, 215, MATH 152 or higher, eight hours of college chemistry.* Ecology and biota of inland waters. Some all-day field trips required.

**BIOL 514. Plant Pathology. (1-4-3); on demand.** *Prerequisite: BIOL 215.* Plant diseases; classification of fungi; diseases caused by rusts, smuts, fleshy fungi, bacteria, and viruses; physiogenic diseases; principles and procedures in the control of plant diseases; resistant varieties and culture control.

**BIOL 517. Immunology. (2-2-3), I.** *Prerequisites: BIOL 317 and BIOL 380.* Basic cellular and molecular mechanisms of the immune response and its regulation, including response manifestations. Modern Laboratory techniques stressed, including monoclonal antibody production.

**BIOL 518. Pathogenic Microbiology. (2-2-3); II.** *Prerequisite: BIOL 217 or 317.* Medically important microorganisms; bacteria and fungi emphasized. The isolation, cultivation, and identification of pathogenic microorganisms from clinical specimens are stressed. Antimicrobial susceptibility tests, serological methods, and quality control introduced.

**BIOL 519. Virology. (2-2-3); on demand.** *Prerequisite: BIOL 317 or consent of instructor.* Morphology and chemistry of the virus particle; symptoms; identification and control of more common virus diseases of plants and animals; host-virus relationships; and research methods concerned with viruses.

**BIOL 520. Histology. (2-2-3); I.** *Prerequisites: BIOL 210, 380 plus eight additional hours of biology.* The study of human tissues with emphasis on anatomical, physiological, and biochemical properties/relations.

**BIOL 530. Ichthyology. (1-4-3); I, even years.** *Prerequisite: BIOL 210.* The anatomy, physiology, systematics, ecology, zoogeography, natural history, and evolution of fishes. Emphasis on collection, identification, and classification of freshwater fishes of eastern North America and marine fishes of the Atlantic and Gulf coasts. Field trips required.

**BIOL 531. Herpetology. (1-4-3); I, odd years.** *Prerequisite: BIOL 210.* The anatomy, physiology, taxonomy, ecology, distribution, natural history, and evolution of amphibians and reptiles. Emphasis on collection, identification, and classification of those reptiles found in eastern North America.

**BIOL 535. Mammalogy. (1-4-3); I.** *Prerequisite: BIOL 210.* Mammals of eastern North America with emphasis on mammals of southeastern North America. Taxonomy, adaptation, natural history, and methods of skin preparation.

**BIOL 540. General Parasitology. (2-2-3); I.** *Prerequisite: BIOL 210.* Protozoan, helminth, and arthropod parasites of man and domestic animals; emphasis on etiology, epidemiology, diagnosis, control, and general life histories of parasites.

**BIOL 543. Graduate Clinical Lab Procedures. (2-3-3), II.** *Prerequisites: BIOL 232 and 301 or equivalent.* The clinical laboratory plays a significant role in the ever changing arena of modern medicine. It is the purpose of this course to provide current technical and clinical information about laboratory procedures to permit the student to adequately understand, select and interpret each specific procedure.

**BIOL 544. Organ Systems Physiology. (4-0-4); II.** *Prerequisites: BIOL 232 and 301 or equivalent.* Specific focus on three integrating themes: the interrelationships of human organ systems, homeostasis, and the complementing relationship of structure and function. Homeostatic regulatory mechanisms between interactive organ systems will be continually emphasized, as well as, how the body meets its changing demands during the onset of various pathological conditions.

**BIOL 550. Plant Anatomy. (2-2-3); I.** *Prerequisite: BIOL 215.* Gross and microscopic studies of internal and external structures of vascular plants. The cell, meristem, cambium, primary body, xylem and phloem; roots, stems, and leaves; flowers and fruits; ecological anatomy.

**BIOL 553. Environmental Education. (2-2-3); III.** *Prerequisite: consent of instructor.* Distribution and reserve depletion of wildlife, forest, land, water, air, and mineral resources; emphasis on population, pollution, and environment. Field trips to environmentally important areas are required. NOT ACCEPTABLE as credit for the MS in Biology (thesis option). Especially designed for in-service and pre-service teachers.

**BIOL 555. Plant Morphology. (2-2-3); II.** *Prerequisite: BIOL 215.* Fossil and living non-vascular plants (except bacteria) and vascular plants; emphasis on ecology, morphology, and evolution.

**BIOL 580. History of Science. (3-0-3); III**. *Prerequisite: six hours of science credit.* Development of scientific traditions, discoveries, and concepts from the time of ancient Egypt to the present. Cross listed with SCI 580.

**BIOL 590. Biochemistry. (4-0-4); II.** *Prerequisite: CHEM 327 or equivalent, or consent of instructor.* In depth survey of the major groups of biomolecules, including carbohydrates, lipids, proteins, nucleic acids, enzymes; biosynthetic pathways; energy metabolism; enzyme mechanisms; and regulation of biochemical processes.

**BIOL 593. Laboratory Techniques in Biochemistry. (0-4-2); II.** *Prerequisite/Co-requisite: BIOL 590.* Weekly laboratory sessions focusing on advanced techniques utilized in the study of biological molecules. Emphasis will be placed on methods in isolation and characterization of biological materials, density gradient ultracentrifugation, spectroscopic methods, electrophoretic techniques, chromatographic separations, radioisotopic labeling, and statistical analysis of experimental data.

**BIOL 599. Selected Workshop Topics. (1 to 4 hrs.); on demand.** *Prerequisite: variable.* Workshops in various biological and environmental subjects will be presented periodically, based on need. Usually hands-on, experimental, and/or innovative, these workshops supplement various programs in the biological and environmental sciences or other disciplines. Individual credit towards degree programs must be approved by the student's advisor.

### Business Information Systems

**BIS 116. Basic Word Processing. (3-0-3); I, II.** One of the most popular uses of microcomputers is word processing—the creation of documents. This course provides an introduction to the fundamental concepts associated with digital documents creation and formatting, design, and layout of business related documents. The course covers a wide range of word processing features. **Class assumes keyboarding proficiency.**

**BIS 216. Advanced Document Processing. (3-0-3); I, II.** *Prerequisite: BIS 116 and CIS 101.* This course provides an in-depth coverage of advanced document processing and management software, including desktop publishing and voice recognition. Principles of analysis, design, organization, and presentation of information will be discussed as they relate to developing appropriate business solutions. Emphasis will be placed on evaluating and selecting alternative solutions for a wide range of business, professional, and promotional needs.

**BIS 240. Information Resource Management. (3-0-3); I.** *Prerequisite: CIS 101.* Designed to provide the student with key concepts relating to information resource management and associated emerging technologies for creating, distributing, maintaining, and protecting data in organizational environments. In addition, students will discover and apply fundamental knowledge management principles used to maximize the utility of information resources in organizational environments.

**BIS 290. End User Application Development. (3-0-3); II.** *Prerequisite: CIS 211.* This course focuses on solving business problems using integrated software solutions and a VBA programming. Case studies and problem activities in core business areas are used to address information systems solutions. The course serves as a required integrative capstone course for the AAB in Business Information Systems.

**BIS 320. Web Technologies and Information Architecture. (3-0-3); I, II.** *Prerequisite: CIS 101.* This course introduces the student to the Internet technologies, Web design concepts and information architecture using Web editor software. The course also provides an introduction to the hypertext markup language (HTML). Emphasis will be placed upon the planning, design, implementation, and evaluation of informational Web sites for organizations.

**BIS 321. Business Communications. (3-0-3); I, II, III.** *Prerequisite: ENG 200.* This course introduces upper-division students to current principles and theories of business communication that stress human relations, ethics, demographic diversity, and global and cross-cultural communications. Attention will be given to planning, composing, evaluating, and analyzing business letters, short documents, memoranda, electronic messages, resumes, and informal reports. Emphasis is on techniques for achieving clarity, brevity, and effectiveness in written business communication.

**BIS 322. Systems Security. (3-0-3); on demand.** *Prerequisite: CIS 311.* An overview of information systems security, with applications. The course emphasizes methods for the management of information security through the development of policies, procedures, audits, and logs. It also addresses threats, risks, and vulnerabilities, emerging technologies in areas like smart cards, digital signatures, and biometrics, and methods for the analysis of legal, ethical, and privacy issues in information systems.

**BIS 330. Collaborative Technologies & Knowledge Management. (3-0-3); I.** *Prerequisite: CIS 101.* This course is designed to provide students with an introduction to group support systems, electronic meeting management and other collaborative and groupware applications. The course addresses a wide range of topics including system implementation and design, electronic facilitation, business process reengineering, knowledge management and collaborative learning. Special emphasis will be placed on using groupware technologies and systems to create store, and distribute explicit and tacit knowledge within contemporary organizations.

**BIS 350. Computer Systems Support & Security. (3-0-3); I, II.** *Prerequisite: CIS 311.* This course introduces students to advanced concepts related to PC maintenance, troubleshooting and technical support. Other related topics on help-desk administration, security issues, operating systems, and A+ certification preparation will be discussed.

**BIS 398. Practicum in Information Systems. (3 hrs.); I, II.** Provides work experience (non-compensated) in an occupational area. Student works under supervision in an approved position. Course credit commensurate with time worked, type of work, variety of work experience.

**BIS 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various business information systems topics will be presented periodically to supplement and update the basic course offerings in business information systems. Credit toward degree programs must be approved by the student's advisor and consent of instructor.

**BIS 421. Business and Technical Presentations. (3-0-3); I, II.** *Prerequisite: BIS 321.* Provides practical strategies for creating and presenting business and technical presentations supported by emerging desktop presentation software. This course will include researching, creating, and presenting business plans, financial audit and accounting reports, marketing and economic data analysis, as well as research and technical information. Negotiating and selling skills also will be an integral part of the course.

**BIS 425. Training and Development for Industry. (3-0-3); on demand.** *Prerequisites: BIS 421 and MNGT 301.* Study of the relevant theories, issues, trends, and methods in training and developing adult learners in work organizations; includes program design, needs and task analysis, delivery methods, working with consultants, and program evaluation. Cross listed with MNGT 425.

**BIS 440. Planning and Implementation of IT. (3-0-3); II.** *Prerequisites: CIS 211, 311, and junior/senior standing*. This course emphasizes the assessment, design, planning, and implementation of end-user information systems. The course consists of an overview and critical analysis of the role and importance of end-user computing in today's organization. Emerging information technologies and associated behavioral issues will be investigated.

**BIS 476. Special Problems Business Information Systems. (1 to 3 hrs.); on demand.** This course is an independent study of business information systems problems of special interest. Students must present in writing a suggested problem and justification for the study prior to registration. Each request will be considered on its own merit in relation to the special needs of the student.

**BIS 490. Cases in Information Technology. (3-0-3); II.** *Prerequisites: CIS 311 and senior standing*. This is a senior-level course that integrates through case studies and other comprehensive experiences the application of concepts, theories, and skills associated with business information systems. Emphasis will be upon the use of IT as an enabler of process improvement and process innovation. The course also involves the analysis, synthesis, application and evaluation of advanced concepts related to information systems technology, end user information systems, global and ethical issues related to IT, technological training, and strategy planning for human aspects of technological change.

**BIS 499C. Teaching Methods in Business and Information Technology Education. (3-0-6); I.** *Prerequisite: admission to TEP.* Application and integration of field experiences, teaching and learning approaches to create objectives, lesson plans, skill building techniques; use of methods, materials, technology, teaching aides, testing, measurement, and grading for Business and Marketing Education grades 5-12 certification. *This course satisfies the integrative component for General Education only in the Business and Information Technology Education degree program.*

## Chemistry

**CHEM 101. Survey of Chemistry. (3-2-4); I, II.** *Prerequisite: MATH 091 (or higher) with a grade of "B" or better, or an enhanced math ACT score of 18 or above.* A survey of chemical topics that includes atoms, molecules, mixtures, chemical reactions, subatomic particles, light and matter, stoichiometry, heats of reaction, ions, acids, bases and pH. The topics are covered in combination with case studies such as ozone layer depletion and global warming. This course is intended for students in the applied sciences and is not recommended for natural science majors. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**CHEM 104. The Chemistry of Ordinary Things. (3-0-3); II.** An introduction to some of the fundamental qualitative ideas of chemistry and the application of these ideas to energy sources, pollution, foods, nutritional supplements, cosmetics, plastics and other modern materials. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**CHEM 111. Principles of Chemistry I. (3-2-4); I, II.** *Prerequisite: MATH 093 with a grade of "B" or better, or enhanced ACT math score of 20 or higher.* An introduction to stoichiometry and chemical equations, electronic structure of atoms and molecules, periodic properties, gases, phases equilibria, and solutions, with laboratory. Primarily for natural science and pre-professional students. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**CHEM 112. Principles of Chemistry II. (3-2-4); I, II.** *Prerequisite: MATH 152 or 174 with grade "C" or better, or ACT math score of 22 or higher, and grade of "C" or better in CHEM 111.* Continuation of CHEM 111. An introduction to chemical equilibria, thermodynamics, and kinetics, electro-chemistry, and coordination compounds, with laboratory. The descriptive chemistry of selected groups of elements is introduced.

**CHEM 131. Environmental Chemistry I. (3-2-4); II.** *Prerequisite: grade of "C" or better in CHEM 111.* An overview of types of chemical reactions including organic reactions. This will be applied to studying the origin, nature, distribution and fate of a wide variety of chemical species in the environment. The laboratory portion of the course will illustrate the fundamentals of potentiometry, spectrophotometry, atomic absorption, atomic emission, and gas, liquid and ion chromatography methods used for environmental analyses.

**CHEM 199. Selected Topics. (1 to 6 hrs.); on demand.**

**CHEM 201. Survey of Organic Chemistry. (3-2-4); I, II.** *Prerequisite: grade of "C" or better in CHEM 101.* A survey of chemical topics that includes precipitation and redox reactions, radioactivity, solar energy, organic functional groups, drug design and approval, polymers, carbohydrates, proteins and lipids. The topics are covered in combination with case studies such as the pollution of a lake, Chernobyl disaster and the Thalidomide problem. This course is intended for students in the applied sciences and is not recommended for natural science majors.

**CHEM 239. Cooperative Education. (1 to 8 hours); I, II, III.** *Prerequisite: Consent of department.* Participation in supervised work experience in a professional environment.

**CHEM 299. Selected Topics. (1 to 6 hrs.); on demand.**

**CHEM 301. Fundamentals of Biochemistry. (3-2-4); I, II.** *Prerequisite: CHEM 112 or 201.* Chemistry of simple and complex biomolecules such as amino acids, proteins, carbohydrates, lipids, and nucleic acids. Biosynthesis and metabolic cycles; gene composition (DNA, RNA, etc.). NOT ACCEPTED as credit for chemistry minors. Cross listed with BIOL 301.

**CHEM 326. Organic Chemistry I. (3-2-4); I, II.** *Prerequisite: grade of "C" or better in CHEM 112.* Structure and nomenclature of organic molecules; reactions and reaction mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers, with laboratory.

**CHEM 327. Organic Chemistry II. (3-2-4); I, II.** *Prerequisite: grade of "C" or better in CHEM 326.* Introduction to interpretation of IR and NMR spectra; reactions and reaction mechanisms of aldehydes, ketones, carboxylic acids and derivatives, phenols, amines, and organometallics, with laboratory.

**CHEM 328. Organic Chemistry III. (2-4-4); on demand.** *Prerequisite: grade of "C" or better in CHEM 327.* Advanced topics in organic chemistry; orbital symmetry, heterocyclics and polycyclics, macromolecules, carbanion reactions, and an introduction to physical organic chemistry, with laboratory.

**CHEM 332. Environmental Chemistry II. (3-0-3); I.** *Prerequisite: CHEM 327.* An intensive study of the fate of environmental contaminants and their dispersion. Containment and remediation strategies will be discussed in detail, particularly their chemical principles.

**CHEM 339. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: Consent of department.* Participation in supervised work experience in a professional environment.

**CHEM 340. Chemical Information. (1-2-2); II.** *Prerequisite: CHEM 326.* Study and use of primary and secondary chemical literature sources, data, and reference sources in chemistry. An introduction to the Chemical Abstracts service, Biological Abstracts, Science Citation Index and the corresponding data bases. Personal data bases, data collection and manipulation, and related current software will also be discussed.

**CHEM 351. Bioinorganic Chemistry. (2-2-3); I.** *Prerequisite: grade of "C" or better in CHEM 112.* Structure of inorganic compounds. Electron transfer reactions, acid-base theories, kinetic and reaction mechanisms, and relationship of thermodynamics to structure and reactivity of inorganic compounds. Concepts will be taught using biological systems or model compounds for these systems as examples.

**CHEM 360. Analytical Chemistry. (2-3-3); I, II.** *Prerequisite: grade of "C" or better in CHEM 112 plus two other science lab courses.* Errors and small sample statistics, stoichiometry, equilibrium calculations, electrochemical potentials and complexiметric chemistry. Labs will include volumetric, pH, and various chromatographic and absorption spectrophotometric techniques. Stoichiometry and equilibria concepts will be pursued through lecture and applicators in the instrumental labs.

**CHEM 399. Selected Topics. (1 to 6 hrs.); on demand.**

**CHEM 439. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: Consent of department.* Participation in supervised work experience in a professional environment.

**CHEM 441. Physical Chemistry I. (3-0-3); I.** *Prerequisites: CHEM 326, MATH 175 and PHYS 201 or 231,with grades of "C" or better.* Chemical thermodynamics and chemical kinetics.

**CHEM 442. Physical Chemistry II. (3-4-5); II.** *Prerequisite: grade of "C" or better in CHEM 441 and MATH 275.* Topics include quantum chemistry, spectroscopy, statistical mechanics, and transport properties.

**CHEM 451. Advanced Inorganic Chemistry. (3-0-3); offered every third semester.** *Prerequisite: grade of "C" or better in CHEM 351. CHEM 441 is recommended.* Electronic structure and bonding in inorganic compounds. Thermodynamic and kinetic interpretation of selected inorganic and organometallic reactions.

**CHEM 460. Analytical Chemistry II. (2-6-5); offered every third semester.** *Prerequisites: grade of "C" or better in CHEM 327 and 360.* The theory and practice of infrared, visible, ultraviolet, X-ray and gamma ray, and electron spectroscopies in determinations. The use of chromatography, atomic spectroscopy, and electrochemistry in analytical chemistry. Some quantitative applications of mass and nuclear magnetic resonance spectroscopy are included.

**CHEM 476. Special Problems. (1 to 6 hrs.); I, II, III.** *Prerequisite: consent of instructor.* Topic to be approved prior to registration. (Maximum of three credit hours applicable toward major, minor, or area of concentration in chemistry.)

**CHEM 499. Selected Topics. (1 to 6 hrs.); on demand.**

### Chinese

**CHI 199. Chinese Language and Culture. (3-0-3); on demand.** An introduction to Chinese phonetics, basic vocabulary, and elementary grammar. Basic reading and conversation skills are emphasized.

**CHI 300-E. Contemporary Chinese Literature and Chinese Society. (3-0-3) on demand.** An introduction to how contemporary Chinese writers have created works reflecting the new era of Chinese life. An emphasis on how recent Chinese literature both reflects Chinese history and how it confronts the problems of present-day Chinese society.

### Computer Information Systems

**CIS 101. Computers for Learning. (3-0-3); I, II, III.** Students will learn effective strategies for learning and applying microcomputer software including word processing, spreadsheet, presentation and database management. The course introduces concepts, terminology, and tools of the microcomputer software operating and application system environment. Introduction to the effective utilization of networking for communication, research, and information downloading is also incorporated in the course. Emphasis is upon preparing the student to use computer technology effectively in the education and work environment. *This course satisfies the computer competency requirement for general education.*

**CIS 200. Logic and Design of Computer Programs. (3-0-3); I, II.** *Prerequisites: CIS 101, and either MATH 152 or 174.* This course serves as a preparation for computer programming coursework. It introduces the student to the logic, structure, and methodology of computer programming languages. The emphasis is on formal analytical approaches and quantitative problem-solving skills.

**CIS 202. Introduction to Programming-Visual Basic. (3-0-3); I, II.** *Prerequisite: CIS 200 or MATH 170.* This course uses the Visual Basic programming language to introduce basic programming concepts and processes such as data types, variables, operators, control structures, and arrays. A steady progression of hands-on programming exercises is used to teach analytical and quantitative problem solving, methodical programming and design.

**CIS 203. PC Productivity Tools. (3-0-3); on demand.** *Prerequisite: CIS 101.* This course builds on the computer competencies the student learned in CIS 101. It develops proficiency with personal computer productivity tools such as spreadsheets, relational databases, presentation software, and Internet tools. Students also learn fundamentals of the personal computer operating system environment, file management, and problem solving. This course may not be used for credit in the CIS or BIS options.

**CIS 205. Introduction to Programming C++. (3-0-3); I, II.** *Prerequisite: CIS 200 or CIS 170 or MATH 170.* This course uses the C++ programming languages to introduce basic programming concepts and processes such as data types, variables, operators, control structures, and arrays. A steady progression of hands-on programming is used to teach analytical and quantitative problem solving, methodical programming and design.

**CIS 211. Advanced Microcomputer Applications. (3-0-3); I, II.** *Prerequisite: CIS 101.* This course prepares students to be proficient in both Microsoft Access and Microsoft Excel. In addition, students gain experience with microcomputer hardware, operating systems, and printer and disk file management. This course is intended for students in the CIS or BIS option.

**CIS 214. Introduction to Programming-Java. (3-0-3); I, II.** *Prerequisite: CIS 200 or CS 170 or MATH 170.* This course uses the Java programming language to introduce basic programming concepts and processes such as data types, variables, operators, control structures, and arrays. A steady progression of hands-on programming exercises teaches analytical and quantitative problem solving, methodical programming and design. Introductory level object-oriented programming, Java input/output process, exception handling, and graphical user interfaces are covered.

**CIS 215. Introduction to Programming-COBOL. (3-0-3); on demand.** *Prerequisite: CIS 200.* This course uses the COBOL programming language to introduce basic programming concepts and processes such as data types, variables, operators, control structures, and arrays. A steady progression of hands-on programming exercises is used to teach analytical and quantitative problem solving, methodical programming and design.

**CIS 302. Advanced Programming-Visual Basic. (3-0-3); I, II.** *Prerequisites: CIS 202 or CS 303 or consent of instructor.* This course builds upon the skills and knowledge developed in CIS 202. Emphasis is placed upon development in a visual environment. Major topics include object oriented concepts, database linkages, graphics, and developing applications for the Internet. Students will use state-of-the-art development tools and design methods to implement business applications that run on a stand alone PC, on a network, and on the Internet.

**CIS 303. Data Structures. (3-0-3); on demand.** *Prerequisite: CIS 205.* Key concepts of data definitions, such as lists, stacks, and queues. Recursion, graphs and trees, sorting and searching. Structured program design, elementary data structures and the study of algorithms as tools of program design. Cross listed with CS 303 and MATH 303.

**CIS 305. Advanced Programming-C++. (3-0-3); I, II.** *Prerequisite: CIS 205 or CS 303 or consent of instructor.* A continuation of CIS 205, with an emphasis on object-oriented methodologies, modular program design, reusable and extensible components, cross-platform compatibility, and stream manipulations. Numerous hands-on programming assignments are used to help the student build proficiency as a computer programmer.

**CIS 311. Management Information Systems. (3-0-3); I, II.** *Prerequisites: CIS 101 and either ACCT 281 or ECON 202.* A study of fundamental information systems concepts and terminology. Intended to prepare future managers for the successful implementation and effective use of information technology in globally networked organizations. This course emphasizes the strategic role of information systems in developing business solutions and transforming enterprises for e-business and e-commerce.

**CIS 314. Advanced Programming-Java. (3-0-3); on demand.** *Prerequisite: CIS 214 or CS 303 or consent of instructor.* This course provides a hands-on introduction to the concepts and terminology of object-oriented programming in the Java language. Concepts covered include applets and servlets, packages and server-side processes, and dynamic Internet content generation.

**CIS 315. Advanced Programming-COBOL. (3-0-3); on demand.** *Prerequisite: CIS 215 or CS 303, or consent of instructor.* Advanced structured computer programming using COBOL. Tape and disk file structures and processing emphasized.

**CIS 325. Analysis and Design of Information Systems. (3-0-3); I, II.** *Prerequisite: CIS 311 or CS 380.* The analysis, design, implementation, and life cycle management of information systems in global organizations. This course uses quantitative case studies and the formal methodologies of systems analysis and design to look at change management and the benefits and costs of global information systems.

**CIS 339. Cooperative Education III. (1 to 8 hrs.); on demand.** *Prerequisites: CIS 311 and consent of instructor.* This course provides on-site instruction and practical work experience in the computer field in a paid position approved through an application process. A maximum of three credit hours is allowed as a CIS option elective.

**CIS 340. Telecommunications and Networking. (3-0-3); I, II.** *Prerequisite: choose one; CIS 202, 205, 211, 214, or 215.* Fundamental concepts of digital networks and telecommunications technologies in a global environment. The course covers analysis, applications, and administration of computer networks and a broad range of current hardware and software**.**

**CIS 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** *Prerequisites: junior standing and consent of instructor.* Workshops on selected information systems subjects are presented periodically to supplement the basic course offerings in the department. Credit toward CIS or BIS options must be approved in writing by the student's advisor.

**CIS 405. Web Development Strategies and E-commerce. (3-0-3); II.** *Prerequisites: CIS 311 or CS 380, and at least one from the following: CIS 302, 305, 314, 315.* A practical introduction to concepts and development methods fundamental to the creation and deployment of global Internet based computer information systems. Topics include Web site development and support, Internet infrastructure technologies, database connectivity, electronic commerce technologies and business models, and Web server implementation strategies and practices. Students will work in groups to develop an electronic commerce Web site.

**CIS 414. Designing and Implementing Collaborative Solutions. (3-0-3); on demand.** *Prerequisite: CIS 311.* This course provides a foundation in designing and implementing business solutions to support collaboration in global environments. The focus is on creating collaborative environments in which members of an organization can exchange ideas, share information, and work together on common projects and assignments regardless of their physical location. The course combines lecture, case studies, and hands-on experience.

**CIS 426. Database Management Systems. (3-0-3); II.** *Prerequisite: CIS 325 or CS 380.* This course introduces fundamentals of designing databases and database applications in contemporary organizations. Emphasis is on database concepts, design, and understanding of formal data models. Students design and implement a relational database application.

**CIS 430. Advanced Topics in Information Systems. (3-0-3); on demand.** *Prerequisite: choose one; CIS 202, 205, 211, 214 or 215.* This course is intended to introduce students to the idea of Decision Support Systems (DSS), Expert Systems (ES), Executive Information Systems (EIS), Artificial Intelligence (AI), Modeling and other leading edge concepts in Information Systems.

**CIS 439. Cooperative Education IV. (1 to 8 hrs.); on demand.** *Prerequisites: CIS 311 and consent of instructor.* This course provides on-site instruction and practical work experience in information systems in a paid position approved through an application process. A maximum of three credit hours is allowed as a CIS option elective.

**CIS 442. Network Administration. (3-0-3); I, II.** *Prerequisite: CIS 340, or consent of instructor.* This course provides a foundation in the concepts of computer communications and networking. Students gain hands-on experience in managing, operating, and troubleshooting various local area networks and communications hardware and software.

**CIS 443. Advanced Computer Networking Administration. (3-0-3); II.** *Prerequisite: CIS 442 or consent of instructor.* This course provides advanced skill level with the concepts and terminology of computer intercommunications and networking. The course relies on a hands-on approach as the primary teaching method to focus on organizational enterprise networking and studying specific

network protocols. Hands-on tutorials for managing and operating various multi-vendor networks are used in the course.

**CIS 476. Special Topics in Computer Information Systems. (1 to 3 hrs.); on demand.** *Prerequisites: consent of instructor and one of the following CIS 200 or CIS 170.* This course is for independent study of CIS topics of special interest. Student must prepare a written project proposal and justification for the independent study prior to registration. Proposals are approved based on their academic merit and the special needs of the student.

**CIS 490. IT Project Management and Systems Project. (3-0-3); I, II.** *Prerequisites: senior standing in CIS, CIS 325 and 426.* Students will learn skills in information technology project management and will complete a capstone project in a real-world working environment. Working in teams, students analyze the project in a paced approach, identify and document metrics and milestones, and deliver an information systems solution under deadline that meets the agreed-upon project objectives. Final deliverables include a term portfolio and a formal class presentation.

### Communication (Advertising/Public Relations)

**CMAP 166. Desktop Publishing and Publication Techniques I. (2-2-3); I, II, III.** This is an introduction to the use of computers in communication. Areas covered include the manipulation of images, word processing, basic telecommunications, and data management. This course provides students with the basic computer skills necessary for success in mass media courses in the field. *This course satisfies the computer competency requirement for general education.*

**CMAP 177. AD/PR Practicum. (0-4-1); I, II.** This course is designed to provide practical experience and leadership training in areas of advertising and public relations. Each level may be repeated for a total of two credit hours at each level.

**CMAP 277. AD/PR Practicum. (0-4-1); I, II.** This course is designed to provide practical experience and leadership training in areas of advertising and public relations. Each level may be repeated for a total of two credit hours at each level.

**CMAP 306. Newspaper Graphics and Production. (3-0-3); on demand.** *Prerequisite: CMAP 166.* Theoretical and practical study of the evolution of the graphic design, typography, and production of modern newspapers. Hands-on experience in layout and production.

**CMAP 366. Desktop Publishing and Publication Techniques II. (2-2-3); I, II.** *Prerequisite: CMAP 166 or consent of instructor.* Study and application of desktop publishing and publication techniques using the most up-to-date computer software programs.

**CMAP 377. AD/PR Practicum. (0-4-1); I, II.** This course is designed to provide practical experience and leadership training in areas of advertising and public relations. Each level may be repeated for a total of two credit hours at each level.

**CMAP 382. Principles of Public Relations. (3-0-3); I, II.** Purposes, methods, and responsibilities in the profession of public relations.

**CMAP 383. Principles of Advertising. (1 to 4 hrs.); I, II.** Advertising principles and practices.

**CMAP 384. Advertising Copy Writing. (3-0-3); I, II.** *Prerequisites: CMAP 383.* The main focus of this course will be writing advertising headlines and copy for use in print advertising, and writing/scripting advertising for television and radio mediums.

**CMAP 385. Public Relations Research and Techniques. (3-0-3); II.** *Prerequisite: CMAP 382.* Theory and practice of producing publicity tools for various media used in campaigns to promote and interpret personal, institutional and organizational objectives and activities. Emphasis is on writing and publicity problem solving.

**CMAP 399. Public Relations Workshop. (1 to 4 hrs.); on demand.** *Prerequisite: CMAP 166.* A hands-on workshop in preparing print-media public relations materials.

**CMAP 464. Magazine Editing and Design. (3-0-3); on demand.** *Prerequisite: CMAP 166.* Editing and the graphic design of magazines.

**CMAP 477. AD/PR Practicum. (0-4-1); I, II.** This course is designed to provide practical experience and leadership training in areas of advertising and public relations. Each level may be repeated for a total of two credit hours at each level.

**CMAP 482. Public Relations Case Studies. (3-0-3); II.** *Prerequisites: CMAP 382 and CMAP 385.* An examination of case studies involving specific practices in carrying out campaigns in public relations.

**CMAP 483. Advertising Design. (3-0-3); I, II.** *Prerequisites: CMAP 383 and CMAP 366.* Study and application of methods of designing and producing advertisements. Primarily in print media, but includes television story boards.

**CMAP 499C. Senior Seminar. (3-0-3); II.** *Prerequisite: senior standing and CMAP 482.* This course is designed for students seeking careers in advertising, public relations, or organizational communication. It will provide them with information and instruction in skills self-assessment, job procurement processes and procedures, career field expectations and requirements, and production of a professional resume and portfolio. *This course satisfies the integrative component of general education.*

**CMAP 510. Advanced Public Speaking. (3-0-3); II on demand.** Exposure to traditional preparation and delivery of the study, complex speeches. Cross listed with COMM 510.

**CMAP 567. Organizational Communication. (3-0-3); I, even years.** Study of the functions of communication within organizations and professional environment. Students may be assessed a fee for materials distributed in class. Cross listed with COMM 567.

**CMAP 591. Technical Writing I. (3-0-3).** Principles of analysis, process, and definition; program, recommendation, and research reports; proposals and memoranda; visual aids; transitions, mechanics of clear and precise statement. Cross listed with ENG 591.

**CMAP 597. Technical Editing. (3-0-3).** Study of practice and management of editing for technical, scientific, professional, and corporate reports and writings.

### Communication (Electronic Media)

**CMEM 101. Elements of Production I. (2-2-3); I, II.** An introduction to the basic production elements for audio and video. Includes message development and differentiation for various mediums.

**CMEM 177. Electronic Media Production Practicum. (0-4-1); I, II.** Practical experience and opportunities in electronic media production.

**CMEM 201. Elements of Production II. (2-2-3), I, II.** *Prerequisites: CMAP 166 and CMEM 101.* An introduction to the production process as it applies to the areas of audio and video. Practice in application of production elements within the process. Includes program/product conception and application of technology to achieve communication with an audience. An introduction to elements of post-production phase.

**CMEM 210. Media Literacy. (3-0-3); I, II, III.** This course is designed to explore issues of media influence on everyday life and acquaint the general student with the way in which media shapes aspects of modern society. *This course satisfies the area studies-humanities for general education.*

**CMEM 277. Electronic Media Production Practicum. (0-4-1); I, II.** Practical experience and opportunities in electronic media production.

**CMEM 320. Advertising and Sales for Electronic Media. (3-0-3); II.** Theory and application of the practical and theoretical aspects of advertising for the electronic media. A study of campaigns, ratings, and concepts of the purchase of time on electronic media.

**CMEM 338. Radio Operating Practices. (1-0-1); I, II.** Basic law, technical operating practices, meter reading, and electronic fundamentals necessary in the operation of a broadcast facility.

**CMEM 340. Video Production and Direction I. (2-2-3); I, II.** *Prerequisite: CMEM 101 and 201, or consent of instructor.* Basic video production techniques and an introduction to directing skills in a laboratory situation.

**CMEM 341. Writing for the Electronic Media. (3-0-3); I, II.** *Prerequisite: CMEM 101.* The study and application of theory and technique used in creating advertising, continuity news and public affairs programming as applied to the electronic media.

**CMEM 350. Audio Production and Direction. (2-2-3); I, II.** *Prerequisites: CMEM 201.* A study of the theory and application of audio production for all electronic media, including radio, television, cable, and film.

**CMEM 357. Sportscasting. (3-0-3); on demand.** The philosophy and techniques utilized in developing style of presentation of sports for the electronic media. Theory practically applied in play-by-play description, interviewing and the presentation of copy.

**CMEM 358. Sportswriting. (3-0-3); on demand.** *Prerequisite: CMJN 201.* The philosophy and techniques of writing sports news and analysis and commentary for the mass media.

**CMEM 377. Electronic Media Production Practicum. (0-4-1); I, II.** Practical experience and opportunities in electronic media production.

**CMEM 379. Field Study Experience. (1 to 3 hrs.); on demand.** *Prerequisite: consent of instructor.* Participant will travel to a major broadcasting center and tour commercial, independent, public, cable and satellite broadcast facilities. Will also include related media facilities, news services, public relations and advertising agencies, government facilities and agencies; discussion and informal seminars with practicing professionals and officials in their field of expertise. (May be repeated for credit when topics vary.)

**CMEM 390. Electronic Media Web Layout and Design I. (3-0-3); I, II.** *Prerequisite: CMAP 166*. An introduction to the basics of Web design from a desktop publishing perspective. Course work will focus on the fundamentals of Web design and layout, writing/editing text for Web use, preparing graphics for the Web, streaming audio and video production for the Web, and basic site management.

**CMEM 399. Workshop in Electronic Media. (1 to 3 hrs); on demand.** Workshops in various electronic media topics will be presented periodically, based on need and interest. Usually hands-on, experimental, and/or innovative, these workshops are designed to supplement various programs in Electronic Media. May be repeated in additional subject areas.

**CMEM 420. Feature and Documentary Writing for the Electronic Media. (3-0-3); I.** *Prerequisite: CMEM 101, or consent of department chair.* Advanced theory and practices of writing for the electronic medium. Emphasis is placed on writing and production of features and documentaries for radio, television and cable systems.

**CMEM 440. Video Production and Direction II. (2-2-3); II.** *Prerequisite: CMEM 340, junior standing, or consent of instructor.* Extension of CMEM 340; with advanced instruction in studio operations. Emphasis upon the opportunity to produce and direct several program types and to serve on crews for such productions.

**CMEM 444. Electronic News Gathering. (3-0-3); II.** *Prerequisite: CMEM 341.* Practical experience in the gathering, production and distribution of news utilizing audio and video technology. How to combine writing and performance skills with production skills to successfully produce airworthy audio and video news reports, features, and news packages. Primary emphasis will be on utilization of electronic News Gathering techniques.

**CMEM 450. Electronic Media Management. (3-0-3); II.** *Prerequisite: junior standing or consent of instructor.* The examination of administrative decision-making in electronic media. Attention is focused on audience research, sales regulation and personnel concerns. Special attention is given to the purpose and basic idea of programming in relation to audience composition.

**CMEM 451. Professional Audio Practices. (2-2-3); I.** *Prerequisite: CMEM 350 or consent of instructor.* Experience and advanced study in theory and applications in areas such as music recording and sound, with an emphasis on multi-track recording techniques.

**CMEM 459. Electronic Media Law and Regulation. (3-0-3); on demand.** *Prerequisite: junior standing.* An examination of the basic regulatory law and policy as applied to electronic media as it is today and from an historic and socioeconomic perspective.

**CMEM 477. Electronic Media Production Practicum. (0-4-1); I, II.** Practical experience and opportunities in electronic media production.

**CMEM 499C. Electronic Media Senior Seminar. (3-0-3); II.** *Prerequisite: senior standing.* This course is designed for students seeking careers in electronic media. It will provide them with information and instruction in self-assessment skills, job procurement processes and procedures, career field expectations and requirements, and production of a professional resume and portfolio. *This course satisfies the integrative component for general education.*

**CMEM 550. Issues in Contemporary Broadcasting. (3-0-3); on demand.** *Prerequisite: senior standing.* Treatment of current issues within the electronic media industry. Cross listed with WST 550.

**CMEM 560. History of Broadcasting. (3-0-3); on demand.** *Prerequisite: senior standing.* Historical study of radio and television as a communication service and its development in the United States.

### Communication (Journalism)

**CMJN 177. Journalism Practicum. (0-4-1); I, II.** Practical experience and professional opportunities in newsgathering, writing, reporting and news presentation.

**CMJN 201. News Writing and Reporting I. (3-0-3); I, II.** Gathering, organizing and writing news for mass media.

**CMJN 204. Copyreading and Editing. (3-0-3); II.** *Prerequisite CMJN 201.* Copy correcting, proofreading, headline writing, news selection, page layout.

**CMJN 277. Journalism Practicum. (0-4-1); I, II.** Practical experience and professional opportunities in newsgathering, writing, reporting and news presentation.

**CMJN 285. Introduction to Photojournalism. (2-2-3); I, II.** Lecture and laboratory, introduction to camera use, darkroom procedure, photo layout and practices in reporting news pictorially. Camera rental fee for students without suitable camera

**CMJN 300. Newsgathering. (3-0-3); I.** *Prerequisite: CMJN 201.* Study and application of sources, methods, and technologies used in gathering information for news stories. Includes locating, analyzing and using both hard-copy and electronically accessed documents, records and other facts sources, interviewing techniques, and the legal and ethical implications of information gathering and usage.

**CMJN 301. Advanced News Writing and Reporting. (3-0-3); II.** Instruction in advanced, in-depth writing and reporting for the news media. Includes coverage of events, issues, government and institutional bodies, computer assisted reporting techniques, legal and ethical aspects of news reporting.

**CMJN 358. Sports Writing. (3-0-3); on demand.** Philosophy and techniques in writing sports events stories, sports analysis and commentary for the print media.

**CMJN 364. Feature Writing. (3-0-3); II.** *Prerequisite: CMJN 201* Researching, organizing, writing and marketing of non-fiction articles.

**CMJN 377. Journalism Practicum. (0-4-1); I, II.** Practical experience and professional opportunities in newsgathering, writing, reporting and news presentation.

**CMJN 465. Editorial Writing. (3-0-3); II.** Study and application of techniques and formats effective in writing opinion for the print media. Includes government, political, civic and social implications; legal and ethical guidelines.

**CMJN 476. Special Problems. (1 to 3 hrs); I, II, III.** *Prerequisite: consent of department chair.* Research on an original project with appropriate written report, within a subject area.

**CMJN 477. Journalism Practicum. (0-4-1); I, II.** Practical experience and professional opportunities in newsgathering, writing, reporting and news presentation.

**CMJN 492. Media Law and Ethics. (3-0-3); I, II.** *Prequisite: Junior standing.* This course covers fundamental First Amendment principles and cases and surveys media law, regulations and ethics necessary for journalists working in print or broadcast media or in advertising and public relations.

**CMJN 499C. Journalism Senior Seminar. (3-0-3); II.** *Prerequisite: senior standing.* This course is designed for students seeking careers in journalism. It will provide them with information and instruction in self-assessment skills, job procurement processes and procedures, career field expectations and requirements, and production of a professional resume and portfolio. *This course satisfies the integrative component for general education.*

**CMJN 504. School Publications. (3-0-3); III.** *Prerequisite: senior standing.* Advancement of students in the production of school newspapers, yearbooks, and magazines; includes a complete review of journalism principles.

**CMJN 560. Reviews and Criticism. (3-0-3); on demand.** *Prerequisite: senior standing.* Evaluating and writing critical reviews of drama, literature, art, music, and restaurants for the mass media.

## Communication (Speech)

**CMSP 100. Voice and Articulation. (3-0-3); II.** Essentials of distinct utterance, phonetic transcription, and uses of the vocal mechanism.

**CMSP 108. Fundamentals of Speech Communication. (3-0-3); I, II, III.** Practice and study of speech communication fundamentals, including: interpersonal skills; critical listening; small group problem-solving; information-gathering; preparation and delivery of a variety of informal presentations. *This course satisfies the required core-oral communications for general education.*

**CMSP 177. Organizational/Interpersonal Communication Practicum. (0-4-1); I, II.** Practical experience and professional opportunities in organizational settings.

**CMSP 200. Oral Interpretation. (3-0-3); I.** Communicating the meanings of prose, poetry, and dramatic literature through the use of body and voice.

**CMSP 210. Listening. (3-0-3); I, II.** The study and practice of skills in both retentive and empathic listening.

**CMSP 230. Interpersonal Communication. (3-0-3); I, II.** Examines the variables involved in the communication between individuals. Topics include self-concept, perception, cultural diversity, listening, verbal and nonverbal messages, and conflict as they relate to building and maintaining relationships in a variety of settings.

**CMSP 277. Organizational/Interpersonal Communication Practicum. (0-4-1); I, II.** Practical experience and professional opportunities in organizational settings.

**CMSP 300. Oral Communication. (3-0-3); I.** *Prerequisite: CMSP 108.* Development of appropriate classroom voice through study, exercise, practice in reading, describing, and motivating. Designed for elementary teaching majors.

**CMSP 305. Readers' Theatre. (3-0-3); on demand.** *Prerequisite: CMSP 200 or consent of instructor.* Applying the theories of oral interpretation to an audience-oriented production.

**CMSP 309. Public Speaking. (3-0-3); II.** Study and practice of speech preparation, composition, research, delivery, analysis, and criticism. Public-setting speeches will be given, including speeches to teach, persuade, and entertain, using various delivery styles including manuscript, impromptu, extemporaneous, and recitation.

**CMSP 350. Communication, Culture, and Diversity. (3-0-3); I, II.** *Prerequisite: CMSP 108.* An examination of speech communication theory and skills useful under conditions of cultural diversity with a focus on the improvement of communication across cultural and group verbal and nonverbal language systems. *This course satisfies the area studies-humanities for general education.* Cross listed with IST 350.

**CMSP 367. Introduction to Organizational Communication. (3-0-3); I, II.** *Prerequisite: CMSP 108.* An introduction to basic organizational communication concepts and principles, combined with development of skill in interviewing, group decision making, and presentational speaking in the workplace.

**CMSP 371. Professional Communication Practices and Standards. (3-0-3); I, II.** *Prerequisite: CMSP 108.* Enhances and refines the presentational and writing styles and standards for the communication professional. Topics include use of new technology in research, writing, and presentations. A variety of presentation formats are examined and performed from a professional perspective.

**CMSP 377. Organizational/Interpersonal Communication Practicum. (0-4-1); I, II.** Practical experience and professional opportunities in organizational settings.

**CMSP 382. Argumentation and Debate. (3-0-3); II.** Making rational decisions through the debate process. Analysis, evidence, briefing, and refutation.

**CMSP 383. Small Group Communication. (3-0-3); II.** Study and development of communication skills required for effective participation in small task-oriented groups. Students will learn about and practice participating, leading, managing meetings, dealing with conflict, solving problems, making decisions and assessing performance in the small group context. *This course satisfies the area studies-humanities for general education.*

**CMSP 385. Persuasion. (3-0-3); II.** Nature and methods of persuasion for influencing group opinion and action. Recommended for business majors.

**CMSP 388. Speech Activities. (1-2-2); I, II.** *Prerequisite: consent of instructor.* Independent guided study in specific areas of speech through participation in the Intercollegiate Individual Events program. May be repeated up to a maximum of six hours credit.

**CMSP 390. Conflict and Communication. (3-0-3); II.** Theory and practice concerning the treatment of interpersonal conflict. Conflict will be defined and examined from practical and philosophical perspectives. Students will study and demonstrate specific strategies for addressing conflicts typical to everyday life at home, at work, and in the communities. *This course satisfies the area studies-humanities for general education.*

**CMSP 400. Interviewing. (3-0-3); II.** A detailed study of the various interview types, coupled with role playing experiences. Includes media, employment, and health care interviews.

**CMSP 401. Communication and Leadership. (3-0-3); I, III.** This course involves the study and practice of leadership from a communication perspective. Particular focus will be on the relationship between communicating and leading. Leadership communication concepts and theories in organizational, group, and public contexts will be examined. Students will analyze their communication styles and personal leadership styles and develop leadership communication skills through team projects and classroom exercises.

**CMSP 405. Communication Issue Management. (3-0-3); I, III.** This course examines how a variety of organizations mediate public policy issues from a communication perspective. Course study involves an indepth theoretical examination of corporate advocacy and issue management in America from a communication perspective. Throughout the semester, students will consider current issue management theory, the pragmatics of issue management, and issue management strategies through application of the theory to past and on-going issue management campaigns in U.S. politics.

**CMSP 477. Organizational/Interpersonal Communication Practicum. (0-4-1); I, II.** Practical experience and professional opportunities in organizational settings.

**CMSP 495. Administering the Communication Program. (3-0-3); on demand.** Development and management of communication programs and co-curricular activities. Exposure to traditional high school forensics events with experience in each. Introduction to basic theatre techniques.

**CMSP 499C. Senior Seminar Applied Communication. (3-0-3); II.** This course is designed for students majoring in applied communication. It will entail individualized and group instruction, assessment and career preparation focused on disciplinary competencies and general life skills with an emphasis on the integration of knowledge and skills acquired in the program. *This course satisfies the integrative component for general education.*

**CMSP 521. Classical Rhetorical Theory. (3-0-3); on demand.** Study of the rhetorical theories of Plato, Aristotle, Cicero, and other writers of the Greek and Roman periods.

**CMSP 522. Contemporary Rhetorical Theory. (3-0-3); on demand.** *Prerequisite: CMSP 521 or consent of Department Chair.* The study of rhetorical theory form the Renaissance to the present.

**CMSP 523. Rhetorical Criticism. (3-0-3); on demand.** Application of classical and modern rhetorical theory analysis and criticism of selected speeches.

**CMSP 527. American Public Address. (3-0-3); on demand.** Major speeches, speakers, and movements in America from the Colonial Period to the New Deal.

**CMSP 530. Contemporary Public Address. (3-0-3); on demand.** Major speeches, speakers, and movements from the 1930s to the present.

### Communication (General)

**COMM 110. History of Communications Media. (3-0-3); I, II.** This course is designed to provide information about the various media that make up the field of communication and includes the historical development and the interrelationships among the various areas of communication. Also focuses on the ethical and social dilemmas facing today's media and communication practitioners.

**COMM 220. Introduction to Communication Theory. (3-0-3); I, II.** A survey of communication theory.

**COMM 320. Introduction to Research Methods in Communication. (3-0-3); I, II.** *Prerequisites: CMSP 108 and COMM 220.* Examines a variety of means to gather information about audiences and messages in a systematic, valid, and reliable manner. Subjects include development of research questions and hypotheses, gathering data through quantitative and qualitative methods, and analyzing and reporting data.

**COMM 339, 439. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: consent of Department Chair.* The Department of Communication and Theatre offers a series of cooperative study courses allowing students to alternate semesters of on-campus studies with periods of full-time related work experience. See general section of the catalog for a more complete description of Cooperative Education. See restrictions applying to all programs in Communication.

**COMM 347, 447. Internship. (1 to 3 hrs.); I, II, III.** *Prerequisite:* consent of Department Chair. May be repeated. Competency-based practical experiences aimed at increasing the proficiency of the student in assigned positions. See restrictions applying to all programs in communication.

**COMM 476. Special Problems. (1 to 3 hrs.); I, II, III.** *Prerequisite: consent of Department Chair*. Research on an original project with appropriate written report within a subject area.

**COMM 510. Advanced Public Speaking. (3-0-3); on demand**. Exposure to traditional preparation and delivery of the study, complex speeches. Cross listed with CMAP 510.

**COMM 539. Cooperative Education. (1 to 4 hrs.); I, II, III.** *Prerequisite: prior application and approval required.*

**COMM 562. Media Criticism. (3-0-3); on demand**. *Prerequisite: senior standing.* Examination of broadcasting in sociological, aesthetic, historical, psychological, and humanistic terms.

**COMM 565. Public Opinion and the News Media. (3-0-3); I.** *Prerequisite: senior standing.* A study of cultural , social and

psychological aspects of public opinion and how it impacts and is influenced by the mass media. Includes analysis of public opinion's impact on the democratic process

**COMM 567. Organizational Communication. (3-0-3); I.** Study of the functions of communication within organizations and professional environments. Students may be assessed a fee for materials distributed in class. Cross listed with CMAP 567.

**COMM 582. American Popular Cultural and Communications Technology. (3-0-3); on demand.** *Prerequisite: senior standing.* Examination of the role and effects of major advances of communications technology on the course of American popular culture and society in the past, present, and future. Cross listed with WST 582.

**COMM 583. Advanced Small Group Communication. (3-0-3); on demand.** Study of current theory and concepts pertaining to the discussion process.

### Criminology

**CRIM 210. The Sociology of Deviance. (3-0-3); I, II.** This course is designed to introduce students to the sociological and criminological study of deviant and criminal behavior. Students are also introduced to theories of crime and deviance. Cross listed with SOC 210.

**CRIM 250. Introduction to the Criminal Justice System. (3-0-3); I, II.** This course will introduce students to the current structure and functioning of the criminal justice system in the U.S. from arrest, district attorney's discretionary authority in charging, indictments, conviction, sentencing, and the appeals process. Students will also be provided with a brief history of the American criminal justice system including policing, the courts, and the correctional system.

**CRIM 300. The Criminogenic Family. (3-0-3); I, II.** The course will focus on family risk factors for later delinquency and criminal behavior as well as preventative intervention and treatment. This course will examine a variety of family issues including child maltreatment, domestic violence, family alcoholism, drug addiction, family chaos, inadequate or neglectful parenting, corporal punishment, which are known risk factors for later criminal behavior. Students will gain a general understanding of the macro-level processes that have detrimental effects on family functioning and family structure. Cross listed with WST 302.

**CRIM 306. Juvenile Delinquency. (3-0-3); I.** *Prerequisites: CRIM 210 and three additional hours of criminology or consent of instructor.* The extent, ecological distribution, and theories of delinquency in contemporary American Society, including a critical examination of trends and methods of treatment of delinquency. Criminology majors must take this course or CRIM 401. Cross listed with SOC 306.

**CRIM 315. White Collar Crime. (3-0-3); I.** This course will provide students with a variety of theoretical explanations and examples of corporate and organizational crime as well as crime committed by individuals in the workplace. Cross listed with SOC 315.

**CRIM 333. Sociology of Gender Violence: Prospectives on Women and Intimate Partner Violence. (3-0-3); II.** *Prerequisites: SOC 101, SOC 203 or WST 273 and/or consent of instructor.* This course offers social science and experiential exposure to the controversies, theories, patterns, policies, and treatment unique to women's experiences with date, acquaintance, and spousal violence. Focus also is given to marginalized groups, including women of low income, women of color, and women in same-sex relationships. Cross listed with WST 333 and SOC 333.

**CRIM 345. Correctional Institutions. (0-3-0); III.** *Prerequisite: CRIM/SOC 210 and junior standing, or consent of instructor.* This course will familiarize students with a wide range of correctional settings through daily travel to correctional facilities throughout Kentucky and neighboring states. The institutions include local, state, and federal correctional facilities for juveniles and adult offenders. Students will be required to integrate corrections literature with their experiential observations.

**CRIM 380. Race, Class, Gender and Crime. (3-0-3); I, II.** This course focuses on the intersection of race, class and gender membership with regard to treatment within criminal justice system by police, judges, juries and actual sentencing decisions including the death penalty. The course also provides insights about the unique types of crime most likely to be perpetrated by specific demographic groups. Students will also be exposed to criminological theories that explain criminal justice system disparity, discrimination, and differences in actual offending patterns. Cross listed with WST 380.

**CRIM 388. Sociology of Punishment. (3-0-3); II.** *Prerequisite: CRIM/SOC 210 or consent of instructor.* This course provides the student with a background knowledge of the development of ideas and actions taken against those people who have been the objects of society's punishment. Cross listed with SOC 388.

**CRIM 395. Sociology of Serial Murder. (3-0-3); II, III.** *Prerequisites: CRIM 306 or CRIM 401, six additional hours of criminology, sociology, or psychology, and junior or senior standing.* This course is designed to provide students with an in-depth examination of the serial killers among us. It focuses on the myths and stereotypes that have evolved from mass media and public efforts to find explanations for the relatively rare phenomenon of serial murder. Case studies are used to introduce several serial killers that have plagued the streets of America and abroad.

**CRIM 399. Selected Topics. (1 to 3 hrs.); II.** Unique topics and learning experiences that supplement regular course offerings. May be repeated in additional subject areas.

**CRIM 401. Criminology. (3-0-3); II.** *Prerequisite: CRIM 210 and three additional hours of CRIM or consent of instructor.* This course provides a thorough examination of criminological theories. Students will also be provided with explanations of the causes of crime, as well as the methods of effective treatment and prevention of crime. Criminology majors must take this course or CRIM 306. Cross listed with SOC 401.

**CRIM 410. Seminar in Domestic Terrorism and White Supremacy. (3-0-3); II.** This course will provide students with an understanding of the development of a newer national white supremacy and terrorism movement ranging from militia and paramilitary organizations to the Ku Klux Klan. Ecological terrorism will also be discussed. Students will gain an understanding of the diversity of these groups and of their plans for change with regard to minority groups, the government, and involvement in criminal activities. Cross listed with SOC 410.

**CRIM 450. Research Methods. (3-0-3); I, II, III.** *Prerequisites: three hours sociology general education and six additional hours of CRIM/SOC or consent of instructor.* Fundamental assumptions underlying sociological research; some practical experience in research design, data collection, techniques, and data analysis. Cross listed with SOC 450.

**CRIM 476. Special Problems. (1 to 3 hrs.); I, II, III.** *Prerequisites: three hours sociology general education and nine additional hours of CRIM/SOC or consent of instructor.* Arranged with the department to study some particular aspect of the field of criminology.

**CRIM 490. Practicum in Criminology. (0-0-5); I, II, III.** *Prerequisite: nine hours of criminology. Co-requisite: CRIM 491.* The course is designed to meet with practicum students as a group for a class that meets every week. Students will discuss their practicum and will be assigned written papers associated with the practicum experience. The course consists of practical experience in a jail, detention home, juvenile or adult correctional institutions, juvenile or adult probation and parole agency, or other related agency. A minimum of 240 hours will be spent at the assigned agency.

**CRIM 491. Practicum Seminar. (1-0-1); I, II, III.** *Co-requisite: CRIM 490.* This course is required for all criminology emphasis majors.

**CRIM 499C. Senior Criminology Capstone. (0-3-0); I, II.** *Prerequisite: CRIM 306 or 401, CRIM/SOC 450, SOC 451, six additional hours of criminology, and senior standing.* This course is designed to integrate and synthesize the students' knowledge of criminology prior to graduation. This includes a review of substantive theories, research methods, and information about criminal behavior and the criminal justice system. *This course satisfies the integrative component for general education.*

**CRIM 516. Working with Offenders. (3-0-3); II.** Learn the basic structure of the counseling process with offenders, including techniques and practice skills.

**CRIM 561. Sociology of the Law. (3-0-3); on demand.** Provide a clear understanding of the manner in which laws are formed to protect certain groups and marginalize others who are often perceived as threatening. Deconstruct specific laws by analyzing the formation of criminal law from its incipient stages of development in American society. Cross listed with SOC 561.

## Computer Science

**CS 170. Introduction to Computer Science. (3-2-4); I, II.** *Prerequisite: MATH 152 or minimum ACT Math subscore of 22.* An overview of modern computer science; mathematical treatment of algorithms; implementation of fundamental programming principles in a modern programming language; techniques of problem solving related to computing. Designed for students who have basic familiarity with Microsoft Office applications. Cross listed with MATH 170. This course satisfies the area studies-Computer Competence for general education.

**CS 239. Cooperative Education I. (1 to 3 hrs); I, II.** *Prerequisite: Department Chair approval*. An opportunity for students to participate in coop or intern positions. This course may not be counted toward elective credits for the Area of Concentration, Major, or Minor in Computer Science.

**CS 303. Data Structures. (3-0-3); I, II.** *Prerequisite: CIS 205.* Key concepts of data definitions, such as lists, stacks, and queues. Recursion, graphs and trees, sorting and searching. Structured program design, elementary data structures and the study of algorithms as a tool of program design. Cross listed with CIS 303.

**CS 310. Algorithms and Advanced Data Structures. (3-0-3); I, II.** *Prerequisite: CS 303.* An in-depth study of advanced nonlinear data structures, such as trees and graphs, as well as their implementations and applications. A continuation of advanced programming techniques, including inheritance and polymorphism. A thorough study of algorithms and algorithm efficiency.

**CS 335. Theory of Programming Languages. (3-0-3); I.** *Prerequisite: CS 310.* This course is an introduction to the fundamental principles underlying the design of programming languages. This course investigates the programming features of several common languages from the point of view of implementation. The student is exposed to the language characteristics along with the details and difficulties in their implementation.

**CS 339. Cooperative Education II. (1 to 6 hrs); I, II.** *Prerequisite: Department Chair approval*. An opportunity for students to participate in coop or intern positions. This course may not be counted toward elective credits for the Area of Concentration, Major, or Minor in Computer Science.

**CS 360. Operating Systems. (3-0-3); II.** *Prerequisite: CS 310.* Topics to be covered include operating system philosophy, tasking and processes, process coordination and synchronization, scheduling and dispatch, physical and virtual memory organizations, device management, file systems and naming, security and protection, communications and networking, and distributed systems.

**CS 380. Software Engineering. (3-0-3); I.** *Prerequisite: CS 310.* This course is an introduction to the discipline of software engineering. Students will explore the major phases of the software life cycle, including analysis, specification, design, implementation, testing, and maintenance of software systems. Techniques for creating documentation and using software development tools will be presented. Students will gain experience in these areas by working in teams on software development projects.

**CS 439. Cooperative Education III. (1 to 12 hrs); I, II.** *Prerequisite: Department Chair approval.* An opportunity for students to participate in coop or intern positions. This course may not be counted toward elective credits for the Area of Concentration, Major, or Minor in Computer Science.

**CS 450. Computer Graphics. (3-0-3); on demand.** *Prerequisites: CS 310 and MATH 275.* An in-depth study of the techniques, methods, and mathematics behind computer graphics. This course will examine the spectrum of today's graphics systems, discuss fundamental graphics techniques and the associated mathematics, transformations, rendering, geometric modeling, and animation.

**CS 460. Scientific and Parallel Computing. (3-0-3); on demand.** *Prerequisites: CS 310 and MATH 312.* An introduction to scientific and parallel computing. This course explores computers with vector and parallel architectures, development of algorithms for parallel architectures, and programming on parallel and vector computers.

**CS 476. Special Problems. (1 to 3 hrs.); I, II, III.** *Prerequisite: upper division standing; Consent of department prior to registration.* Designed for the purpose of permitting a student to do advanced work as a continuation of an earlier experience or to work in an area of special interest.

**CS 499C. Senior Capstone. (3-0-3); I, II.** *Prerequisite: junior or senior standing.* Designed to give the student an introduction to research and literature in computer science. *This course satisfies integrative component for general education.* Cross listed with MATH 499C.

## Career and Technical Education

**CTE 185. Methods of Instruction Career and Technical Education. (3-0-3); II, III.** *Prerequisite: restricted to individuals holding a One-Year Certificate for Teaching Vocational Industrial*

*Education preparation level.* Emphasis on how to prepare and implement course organization, lesson planning, teaching techniques, and evaluation as relates to industrial-technical subject matter.

**CTE 207. Foundations of Career and Technical Education. (3-0-3); II.** Orientation for students enrolled in vocational teaching program in agricultural education, industrial education, and family and consumer science education. Course will provide a historical overview of vocational education legislation.

**CTE 364. Guidance in Career and Technical Education. (3-0-3); on demand.** Study of the concept of career education and to explore the new emerging role of the guidance counselor in regard to problems that exist in our present educational system, innovative concept of career education, the counselor and classroom teacher's responsibility within the framework of career education, evaluation of career education, and exploring future implications for developing positive attitudes and values for work for all students, including the disadvantaged and handicapped.

**CTE 372. Technical Media Development. (2-2-3); I, III.** The use of technology in preparing technical presentations, including issues and delivery methods. A portfolio will be maintained and presented at the end of class.

**CTE 388. Methods of Curriculum Development. (3-0-3); II.** *Prerequisite: CTE 207 or consent of instructor.* A comprehensive study of current curriculum content in Vocational Education. Emphasis on modifying and developing new curricula. Cross listed with AGR 388 and HS 388.

**CTE 392. Methods of Instructional Technology. (2-2-3); I, III.** *Prerequisites: admission to TEP.* Holistic approach to curriculum development with an introduction to the use of technology to develop and enhance curriculum and instruction. A portfolio will be maintained and presented at the end of the class. Cross listed with AGR 392 and HS 392.

**CTE 393. Methods in Career and Technical Education. (3-0-3); on demand.** Basic principles of teaching and learning with practical applications of procedures used in career and technical education programs.

**CTE 394. Practicum in Career and Technical Education. (4 to 8 hrs.); on demand.** *Prerequisite: CTE 393.* Each student is assigned to an approved student teaching center offering comprehensive teaching experiences at the preparation-industrial education level. Directed observations and supervised teaching in approved area vocational school or an extension center in the trade and area in which the certificate is desired. Candidates for the bachelor's degree complete a minimum of 90 hours of supervised student teaching, 120 hours of directed observation, and 40 hours of participation. This experience carries eight hours of credit.

**CTE 395. Special Problems in Career and Technical Education. (1 to 3 hrs.); I, II, III.** *Prerequisite: consent of instructor.* Individual problems dealing with specific areas in the teaching field of the student. Opportunity of pursuing a technical problem in a laboratory orientation is provided. Conferences with the instructor are scheduled as needed.

**CTE 400. Preparation for Technology Education. (4-0-4); on demand.** *Prerequisite: four years of successful teaching experience in career and technical education.* Seminar designed for individuals who have four years of successful teaching experience and desire dual certification to include industrial education at the orientation and exploration levels.

**CTE 401. Preparation for Career and Technical Education. (4-0-4); on demand.** *Prerequisite: four years of successful teaching experience in industrial education.* Seminar designed for individuals who have four years of successful teaching experience at the industrial education orientation and exploration levels and desire dual certification to include industrial education at the preparation level.

**CTE 470. Methods of Instruction. (3-0-3); I.** *Prerequisites: admission to TEP, junior or senior standing in Industrial Education.* The principles of instructional methods which apply to the teaching of industrial education subject matter which is included under the major program components of Orientation/ Exploration and Preparation Level education programs. Cross listed with AGR 470 and HS 470.

**CTE 478. Student Teaching Practicum. (12-0-12).** *Prerequisite: admission to TEP.* Each student is assigned to an approved student teaching center offering comprehensive teaching experience in industrial technology education. Cross listed with AGR 478 and HS 478.

**CTE 497. Seminar in Career and Technical Education. (1-0-1); I.** Current problems, issues, and trends in vocational education.

**CTE 560. Foundations of Career and Technical Education. (3-0-3); on demand.** *Prerequisite: upper division standing in Industrial Education.* Study of the philosophical positions underlying the development of industrial education; leaders, their influence and contributions; contemporary theories affecting the current programs of industrial education.

**CTE 572. Seminar for Career and Technical Education. (1-0-1); I, II.** Participants will develop a further understanding of the underlying concepts of industrial career options by participation in one or more programs followed by informal discussion.

### Computed Tomography/Magnetic Resonance

**CTMR 403. Computed Tomographic Physics and Instrumentation. (3-0-3) I.** *Prerequisites: successful completion of previous CTMR required courses listed in the curriculum or consent of instructor. Co-requisites: CTMR 443, 467, and 483.* The study of concepts and theories of computerized tomographic physics and instrumentation with emphasis on areas such as systems operation, imaging processing artifacts, and image quality. Three hours of didactic experience per week.

**CTMR 405. Computed Tomography/Magnetic Resonance Sectional Anatomy. (4-0-4); III.** *Prerequisites: admission to the Computed Tomography/Magnetic Resonance Program or consent of instructor. Co-requisite: CTMR 413.* A study of gross anatomy utilizing a systemic approach to identify and analyze anatomic structures as imaged by computed tomography and magnetic resonance. Emphasis will be placed on relationship and functional analysis of systems.

**CTMR 413. Advanced Patient Care. (2-0-2); III.** *Prerequisites: admission to the Computed Tomography/Magnetic Resonance Program or consent of instructor. Co-requisite: CTMR 405.* An advanced study of patient care with emphasis on patient care specific to the specialty area and acute medical emergencies. Two hours didactic and two hours of laboratory experience per week.

**CTMR 443. Imaging Procedures in Computed Tomography. (3-2-4); I.** *Prerequisites: successful completion of previous CTMR required courses listed in the curriculum or consent of instructor.*

*Co-requisites: 403, 467, and 483.* A study of imaging procedures and protocols utilized in computerized tomography examinations. Emphasis will be placed on protocol selection for imaging application and pathology of areas such as the head, neck, spine, chest, abdomen, pelvis, musculoskeletal system, and interventional/special procedures. Pre-examination, patient care preparation, and contrast administration procedures will be discussed.

**CTMR 451. Magnetic Resonance Physical Principles of Image Formation. (4-0-4); II.** *Prerequisites: successful completion of previous CTMR required courses listed in the curriculum or consent of instructor. Co-requisites: CTMR 455, 461, 487, and RSCI 499C.* This course is designed to provide the student with a comprehensive overview of magnetic resonance. Topics include instrumentation, magnetism, MR signal production, tissue characteristics, spatial localizations, pulse sequencing, imaging parameters/options, special applications, safety, and quality assurance.

**CTMR 455. Imaging Procedures in Magnetic Resonance (3-0-3); II.** *Prerequisites: successful completion of previous CTMR required courses listed in the curriculum or consent of instructor. Co-requisites: CTMR 451, 461,487, and RSCI 499C.* The study of imaging techniques and pathological correlation for the various regions in the body. Specific clinical application, coils, scan sequences, protocols, and positioning criteria will be covered in this course.

**CTMR 461. Magnetic Resonance Practicum I. (0-40-5); II.** *Prerequisites: successful completion of previous CTMR required courses listed in the curriculum or consent of instructor. Co-requisites: CTMR 451, 455, 487, and RSCI 499C.* Clinical application of technical and professional aspects of magnetic resonance in a healthcare setting. The student will be required to demonstrate clinical competency in a number and variety of procedures as required by the American Registry of Radiologic Technologist (ARRT).

**CTMR 467. Computed Tomography Practicum I. (0-40-5); I.** *Prerequisites: successful completion of previous CTMR required courses listed in the curriculum or consent of instructor. Co-requisites: CTMR 403, 443, and 483.* A study of imaging procedures and protocols utilized in computed tomography examinations. Emphasis will be placed on protocol selection for image application; pathology of areas such as the head, neck, spine, chest, abdomen, pelvis, musculoskeletal system; and interventional/special procedures. Pre-examination, patient care preparation, and contrast administration procedures will be discussed.

**CTMR 477. Advanced Practicum I. (0-40-4); III.** *Prerequisites: successful completion of previous CTMR required courses listed in the curriculum.* A continuation of clinical application and professional aspects of computed tomography/magnetic resonance in a health care setting with an emphasis on the role of the student as an entry level practitioner. The student will be required to demonstrate clinical competency in a number and a variety of procedures as established by the American Registry of Radiologic Technologists (ARRT).

**CTMR 483. Seminar in Computed Tomography. (2-0-2); I.** *Prerequisites: successful completion of previous CTMR required courses listed in the curriculum or consent of instructor. Co-requisites: CTMR 403, 443, and 467.* This is designed to access the student's knowledge and application of computerized tomography. Based on the assessment results, the faculty will provide review and learning experiences to assist the student in meeting identified learning needs. Two hours of didactic experience per week.

**CTMR 485. Advanced Imaging Practicum II. (0-40-4); III.** *Prerequisites: successful completion of previous CTMR required courses listed in the curriculum.* A continuation of the clinical application and professional aspects of computed tomography/magnetic resonance in a healthcare setting with an emphasis on the role of the student as an independent entry level practitioner. The student will be required to demonstrate clinical competency in a number and variety of procedures as required by the American Registry of Radiologic Technologist (ARRT).

**CTMR 487. Seminar in Magnetic Resonance. (2-0-2); II.** *Prerequisites: successful completion of previous CTMR required courses listed in the curriculum or consent of instructor. Co-requisites: CTMR 451, 455, 461, and RSCI 499C.* A review of magnetic resonance content with consideration of clinical systems, physical principles and imaging considerations.

### Diagnostic Medical Sonography

**DMS 400. Introduction to Sonography. (1-0-1); III.** *Prerequisites: admission into the diagnostic medical sonography program. Co-requisites: DMS 402A and 408.* An introduction to diagnostic medical sonography with emphasis on the history of sonography, the professional role of the sonographer, and the correlation of clinical laboratory tests to sonographic procedures. Four hours of didactic instruction per week for four weeks.

**DMS 402A. Scanning Techniques I. (0-2-1); III.** *Prerequisites: admission into the diagnostic medical sonography program. Co-requisites: DMS 400 and 408.* An introduction to the performance of sonographic procedures. Emphasis is on equipment operation, image production, and basic scanning techniques. Eight hours of laboratory experience per week for four weeks.

**DMS 408. Sonographic Sectional Anatomy. (2-0-2); III.** *Prerequisites: admission into the diagnostic medical sonography program. Co-requisites: DMS 400 and 402A.* A study of sectional anatomy as visualized by sonographic imaging. Anatomic areas include abdominal viscera and vasculature, superficial structures, male and female pelvis, and fetal anatomy. Eight hours of didactic instruction per week for four weeks.

**DMS 410. Abdominal Sonography. (2-0-2); I.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum or consent of instructor. Co-requisites: DMS 412A, 416A, 418, 420, and 430.* A study of abdominal organs and superficial structures with emphasis on examination protocols, image production and evaluation, normal and pathologic interpretation and relation of laboratory values to pathologic conditions. Four hours of didactic instruction per week for the first eight weeks of the semester.

**DMS 412A. Scanning Techniques II. (0-2-1); I.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum or consent of instructor. Co-requisites: DMS 410, 416A, 418, 420, and 430.* Applied principles of sonographic procedures such as abdomen, superficial structures, and fetal measurements in a dedicated laboratory setting. Emphasis is on examination protocols, equipment operation, and clinical application. Four hours of laboratory experience per week for the first eight weeks of the semester.

**DMS 416A. Scanning Techniques III. (0-2-1); I.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum or consent of instructor. Co-requisites: DMS 410, 412A, 418, 420 and 430.* Applied principles of

genitourinary sonography and introductory physics in a dedicated laboratory setting. Emphasis is on examination protocols, instrument controls, and clinical applications. Four hours of laboratory experience per week for the first eight weeks of the semester.

**DMS 418. Genitourinary Sonography. (2-0-2); I.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum or consent of instructor. Co-requisites: DMS 410, 412A, 416A, 420 and 430.* A study of genitourinary sonography with emphasis on examination protocols, image production and evaluation, normal and pathological interpretation and relation of laboratory values to pathologic conditions. Four hours of didactic instruction per week for the first eight weeks of the semester.

**DMS 420. Sonographic Physics and Instrumentation I. (2-0-2); I.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum or consent of instructor. Co-requisites: DMS 410, 412A, 416A, 418, and 430.* The introductory study of sonographic physics an d instrumentation with emphasis on sound wave concepts, beam patterns, transducers, pulsed echo instrumentation and image storage and display. Didactic content will be applied in co-requisite scanning sessions. Four hours of didactic instruction per week for the first eight weeks of the semester.

**DMS 426A. Scanning Techniques IV. (0-2-1); II.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum or consent of instructor. Co-requisites: DMS 428, 438, 441, 442A, 450 and RSCI 499C.* Applied principles of sonographic procedures of the reproductive organs in the gravid state. Emphasis is on examination protocols, equipment operation, and scanning techniques. Four hours of laboratory experience per week for the first eight weeks of the semester.

**DMS 428. Obstetrical Sonography. (2-0-2); II.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum or consent of instructor. Co-requisites: DMS 426A, 438, 441, 442A, 450 and RSCI 499C.* A study of sonographic techniques for evaluating the reproductive organs in the gravid state, including the role of the diagnostic medical sonographer in fetal assessment of normal and abnormal conditions. Four hours of didactic instruction per week for the first eight weeks of the semester.

**DMS 430. Sonography Internship I. (0-24-6); I.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum. Co-requisites: DMS 410, 412A, 416A, 418, and 420.* Clinical application of technical and professional aspects of diagnostic sonography in a healthcare setting with emphasis on performance of areas such as gynecology, abdomen, and superficial anatomy. Eight hours of clinical experience per week for the first eight weeks. Forty hours of clinical experience per week for the second eight weeks of the semester.

**DMS 438. Selected Topics in Sonography. (2-0-2); II.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum or consent of instructor. Co-requisites: DMS 426A, 428, 441, 442A, 450 and RSCI 499C.* A study of advanced sonographic techniques including topics such as contrast media, physician-guided procedures, and evaluation of the musculoskeletal system. Four hours of didactic instruction per week for the first eight weeks of the semester.

**DMS 441. Sonographic Physics and Instrumentation II. (2-0-2); II.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum or consent of instructor. Co-requisites: DMS 426A, 428, 438, 442A, 450, and RSCI 499C.* The advanced study of sonographic physics and instrumentation with emphasis on Doppler instrumentation, spectral analysis, color flow imaging, image characteristics and artifacts, quality assurance, bioeffects and safety considerations. Didactic content will be applied in co-requisite scanning sessions. Fours hours of didactic instruction per week for the first eight weeks of the semester.

**DMS 442A. Scanning Techniques V. (0-2-1); II.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum or consent of instructor. Co-requisites: DMS 426A, 428, 438, 441, 450, and RSCI 499C.* Applied principles of the advanced study of sonographic physics and instrumentation with emphasis on Doppler instrumentation, spectral analysis and color flow imaging in a dedicated laboratory setting. The student will also gain experience in developing a quality assurance program for an ultrasound department. Four hours of laboratory experience per week for the first eight weeks of the semester.

**DMS 450. Sonography Internship II. (0-24-6); II.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum. Co-requisites: DMS 426A, 428, 438, 441, 442A, and RSCI 499C.* Clinical application of technical and professional aspects of diagnostic sonography in a healthcare setting which continue to build on experiences obtained in preceding sonography courses. Eight hours of clinical experience per week for the first eight weeks. Forty hours of clinical experience per week for the second eight weeks of the semester.

**DMS 470. Sonography Internship III. (0-40-4); III.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum.* A continuation of technical and professional aspects of diagnostic sonography in a health care setting with emphasis on the role of the sonographer as an entry level practitioner. Forty hours of clinical experience per week for four weeks.

**DMS 480. Seminar in Sonography. (2-0-2); IV.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum.. Co-requisite: DMS 490.* A review of diagnostic sonography content with consideration of clinical systems, sonographic patterns, and technical aspects. Eight hours of didactic experience per week for four weeks.

**DMS 490. Sonography Internship IV. (0-32-3); III.** *Prerequisites: successful completion of previous DMS required courses listed in the curriculum. Co-requisite: DMS 480.* A continuation of technical and professional aspects of diagnostic sonography in a health care setting with emphasis on the role of the student as an independent entry level sonographer. Evaluation includes areas such as abdomen, superficial structures, gynecology, and obstetrics. Thirty-two hours of clinical experience per week for four weeks.

## Economics

**ECON 101. Introduction to Economics. (3-0-3); on demand.** Introduction to the structure and policies of the American mixed economic system including an explanation of how a price-market system allocates resources and distributes goods, with an introductory comparison to other economic structures. This course cannot be used to satisfy the requirements for the BBA; not open to those who have had ECON 201, 202, or equivalent. *This course satisfies area studies - social and behavioral sciences for general education.*

**ECON 102. Economic History of the United States. (3-0-3); on demand.** A study of the economic forces and institutions directly responsible for the development of the United States as a major

economic power. The economic transformation of the United States from an agricultural to an industrial-service nation. Problems of income distribution, labor-technology interaction, and mixed capitalism. *This course satisfies area studies-social and behavioral sciences for general education.*

**ECON 201. Principles of Macroeconomics. (3-0-3); I, II.** An examination of what determines the total output of goods and services, the rate of unemployment, the price level, the rate of inflation, rates of interest, and foreign exchange rates within a mixed price-market economic system. *This course satisfies area studies-social and behavioral sciences for general education.*

**ECON 202. Principles of Microeconomics. (3-0-3); I, II.** A study of the principles of consumer and firm behavior within a capitalistic price-market system. It examines the manner of production, factor markets, and degrees of competition. Also, the effects of government regulation and market intervention are analyzed. *This course satisfies area studies-social and behavioral sciences for general education.*

**ECON 300. Quantitative Methods in Business and Economics. (3-0-3); on demand.** *Prerequisites: ECON 202, MATH 152, 354, or equivalent.* A study of mathematical applications as used in business when analyzing data. Cross listed with MNGT 300.

**ECON 302. Labor Economics. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* Labor management relations, the labor movement, labor legislation, government control and regulation, economic inequality, standards of living, and industrial conflicts.

**ECON 305. Comparative Economic Systems. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* A study of influential theories of the major economic systems: Capitalism, Marxism, and Communism. Descriptive analysis of the operation of the corresponding economies.

**ECON 315. Resource Economics. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* A study of how economic behavior influences the supply of and demand for natural resources. The course examines the manner of production, factor markets, and degrees of competition among resources. Also, the effects of government regulation and market interventions are analyzed.

**ECON 339. Cooperative Education III. (1 to 8 hrs.); I, II.** *Prerequisite: consent of departmental cooperative education coordinator required.* Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior level status. Maximum of three hours of cooperative education credit (ECON 339/439) available for option credit.

**ECON 341. Public Finance. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* Public expenditures; public revenue; taxation; public credit; financial administration of government.

**ECON 342. Money and Banking. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* Origin, development and functions of money; banking functions and processes; the Federal Reserve System and monetary policy. Cross listed with FIN 342.

**ECON 350. Intermediate Microeconomics. (3-0-3); on demand.** *Prerequisites: ECON 202 and MATH 152.* Analysis of the behavior of the household and the firm, with emphasis on the role of prices in allocating resources, organizing production, and distributing goods and services.

**ECON 351. Intermediate Macroeconomics. (3-0-3); on demand.** *Prerequisite: ECON 201.* This course examines and explains, at the intermediate level, what determines the level of output in the economy and the rate of growth in the level of output, as well as the factors that determine the unemployment rate, the price level, the rate of inflation, the interest rate, and foreign exchange rates. In addition, it examines the effects of government policies, especially monetary and fiscal policy, on the above factors.

**ECON 389. Honors Seminar in Economics. (3-0-3); on demand.** *Prerequisite: membership in University Honors Program.* Analysis of contemporary economic problems and policy alternatives. Topics may vary each semester.

**ECON 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various economic subjects will be presented periodically to supplement the basic course offerings in economics. Credit toward degree programs must be approved by the student's advisor and the department chair.

**ECON 401. Environmental Economics. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* Analysis of the economic reasons contributing to environmental degradation and exploration of economic policies to reduce this problem.

**ECON 403. Urban and Regional Economics. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* Analysis of location patterns, land use, urban and regional structure and growth, and development strategies. Emphasis is placed on contemporary problems and possible solutions.

**ECON 410. History of Economic Thought. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* The origin and development of economic theories from the Mercantilist through modern times.

**ECON 439. Cooperative Education IV. (1 to 8 hrs.); I, II.** *Prerequisite: consent of departmental cooperative education coordinator required.* Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior level status. Maximum of three hours of cooperative education credit (ECON 339/439) available for option credit.

**ECON 447. International Economics. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* International trade theory, international monetary relationships, and the balance of payments. Emphasis is placed on contemporary problems and possible solutions. Cross listed with IST 447.

**ECON 455. Economic Development and Growth. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* Classical and modern theories of growth and development and their application in both advanced and underdeveloped nations.

**ECON 456. Introduction to Econometrics. (3-0-3); on demand.** *Prerequisite: ECON 300 or consent of instructor.* Application of statistical methods to economic and managerial theories. These methods are used to both test the theories with observed data and to estimate the nature and strength of the relationship predicted by the theories.

**ECON 476. Special Problems in Economics. (1 to 3 hrs.); on demand.** *Prerequisites: completion of 21 hours in economics and finance combined and prior consent of department chair.* This course is an independent study of economic problems of special interest. Students must present in writing a suggested problem and justification for the study prior to registration. Each request will be considered on its own merit in relation to the special needs of the student.

**ECON 499. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various economic subjects will be presented periodically to supplement the basic course offerings in economics. Credit toward degree programs must be approved by the student's advisor and the department chair.

### Education (Adult and Higher)

**EDAH 094. ACT Preparation. (1-0-1); I, II.** *Prerequisite: must be full-time with an ACT score under 21.* This course is designed to help MSU students enhance standardized test-taking skills and remediate academic deficiencies in order to improve ACT scores. Individualized tutorials outside of class time will be a significant part of the course.

**EDAH 102. Study Skills. (1-0-1); I, II each nine-week period.** Course is designed to provide special training in the skills and techniques necessary for college level study.

**EDAH 199. Selected Topics. (1 to 3 hrs.); I, II, III.** Investigation of specific problem areas in the field of study. May be repeated in additional subject areas.

**EDAH 299. Selected Topics. (1 to 3 hrs.); on demand.** Workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

**EDAH 599. Selected Topics. (1 to 3 hrs.); on demand.** *Prerequisite: upper division or graduate classification.* Workshop for specifically designated task orientation in education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

### Education (Early Childhood)

**EDEC 125. Introduction to the Early Childhood Profession. (3-0-3); I, II, III.** A focus on the principles of child growth and development from birth through age five; it will explore techniques for observing and recording children's behavior, strategies to manage an effective program operation, and maintaining a commitment to professionalism. This course is only open to those in the Child Development Associate Program – CDA.

**EDEC 150. Skills for Preschool Teachers. (3-0-3); I, II, III.** A study of skills needed by teachers of children ages birth to five that will promote the physical, intellectual, social, and emotional development of young children. This course is only open to those in the Child Development Associate Program – CDA.

**EDEC 199. Workshop. (1 to 3 hrs.); on demand.** Workshop for specifically designated task orientation in early childhood education. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDEC 276. Independent Study. (1 to 3 hrs.); I, II.** Directed study of specific areas in early childhood education. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDEC 399. Workshop. (1 to 3 hrs.); on demand.** Continuation of EDEC 199.

**EDEC 470. Research Problems. (1 to 3 hrs.); I, II.** Directed research study of a professional nature. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDEC 526. Activities and Materials in Early Childhood Education: Infants & Toddlers. (3-1-3) I.** *Prerequisites: HS 253, EDEE 305, IECE 365, senior status, and admission to TEP.* This course investigates the needs and interests of infant and toddlers and develops professional views in selecting, implementing and designing appropriate teaching materials as well as instruction that can foster children's growth in each developmental area-cognitive, aesthetic, emotional, social, and physical. (Laboratory experiences are an integral part of this course).

**EDEC 527. The Pre-School Child. (3-1-3); on demand.** Principles of growth and development from prenatal period to age six. Focuses attention on learning experiences for nursery and kindergarten age children. Field experiences are an integral part of course.

**EDEC 528. Activities and Materials in Early Childhood Education: 3-5 year olds. (3-1-3); I.** Investigates needs and interests of early childhood and provides opportunities to explore objectives, materials, and techniques of instruction for this age group. Laboratory experiences are an integral part of course.

**EDEC 529. Practicum in Early Childhood Education. (1-4-4); on demand.** *Prerequisites: EDEC 527, 528, and admission to TEP.* Students are assigned to pre-school classrooms for observation, participation, and teaching. On-campus seminars are held weekly. Application made through coordinator of professional laboratory experiences.

**EDEC 599. Workshop. (1 to 3 hrs.); on demand.** *Prerequisite: upper division or graduate classification.* Workshop for specifically designated task orientation in education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

### Education (Early Elementary – P-5)

**EDEE 305. Learning Theories and Practices in Early Elementary. (3-0-3); I, II, III.** *Prerequisites: EDF 207, and 211.* A comprehensive study of contemporary developments in the field of early elementary education including the applications of learning theories to classroom practices; the historical and philosophical origins of current curricular content and practices in early education; and an examination of research findings; study of the impact of familial, economic, and social factors on school performance of learners in the P-5 range.

**EDEE 321. Teaching Math in Early Elementary Grades. (3-0-3); I, II, III.** *Prerequisites: admission to TEP, EDEM 330 and MATH 231. Co-requisite: MATH 232.* An exploration of elementary mathematics instruction methods, assessment and materials. Emphasis is on connecting physical models, appropriate spoken dialog, and mathematics symbols to help children construct an understanding of essential number concepts. (Field experiences in P-5 are an integral part of this course)

**EDEE 322. Teaching Social Studies in the Early Elementary Grades. (3-0-3); I, II, III.** *Prerequisites: admission to TEP, EDEM 330.* This course will explore the scope and sequence of understandings, attitudes, and skills taught in early elementary social studies programs; and will examine various methodologies used in the early elementary grades of P-5. Clinical and field experiences are an integral part of this course.

**EDEE 323. Language Arts for Early Elementary. (3-0-3); I, II, III.** *Prerequisites: admission to TEP, EDEE 327 and EDEM 330.* Role of language arts in the early elementary curriculum. Diagnosis of children's communications skills, needs, and subsequent teaching techniques are central to the course. Areas of emphasis include language development, listening and thinking skills, speaking, written expression, spelling, and handwriting. Field experiences are an integral part of this course.

**EDEE 327. Literature and Materials for Young Readers. (3-0-3); I, II, III.** A survey of children's literature from oral tradition through contemporary times, including all types of literature and media appropriate for Early Elementary P-5. Emphasis is on criteria for evaluation, selection, and use of books and materials as related to the developmental needs and interests of children.

**EDEE 331. Reading for Early Elementary Teachers. (3-0-3); I, II, III.** *Prerequisites: admission to TEP, EDEM 330.* Material and methods of teaching basic reading skills in grades P-5. Students are taught how to teach subskills of reading readiness, vocabulary development, comprehension, and study skills. Assessment and interpretation of reading abilities will be utilized in designing classroom instruction. Field experiences are an integral part of this course.

**EDEE 423. Supervised Student Teaching Practicum. (4 to 12 hrs.); I, II.** *Prerequisite: completion of requirements for admission to the professional semester.* Student is assigned to student teaching center during which time observation, participation, and student teaching are done. The student teaching must be done in nonadjacent grades splitting the six week period between two of the grades. Special conferences with supervising teacher, attendance, and participation in faculty meetings and out-of-school activities required.

**Education (Elementary)**

**EDEL 096. Strategic Reading I. (3-0-3); I, II.** Developmental reading course for students whose ACT Enhanced reading score is 15 or below, or whose SAT verbal score is below 401. Course provides diagnostic comprehension, and reading rate is stressed.

**EDEL 097. Strategic Reading II. (3-0-3); I, II**. Developmental reading course for students whose ACT Enhanced reading score is 16 or 17 or whose SAT verbal score is between 401 and 440. Students whose ACT or SAT scores are lower than these levels must take EDEL 096 as a prerequisite to this course. Course provides diagnostic independent guided improvement of reading skills. Vocabulary, comprehension, and reading rate are stressed.

**EDEL 112. Reading English as a Second Language. (2-2-3); on demand.** Individualized program for teaching vocabulary and reading skills to the non-English speaking student.

**EDEL 199. Workshop. (1 to 3 hrs.); on demand.** Workshop for specifically designated task orientation in elementary education. Maximum of six semester hours may be earned under this course number.

**EDEL 250. Practicum. (3 to 6 hrs.); I, II, III.** Students will demonstrate competency in skills necessary to nurture and promote children's physical, social, emotional, and intellectual growth in a child development framework. Experiences include placement with children from birth to age five in either a classroom or simulated classroom laboratory. This course is open only to those candidates enrolled in Child Development Program training.

**EDEL 276. Independent Study. (1 to 3 hrs.); I, II.** Directed study of specific areas in elementary education. Topic must be approved in advance by instructor. Conferences with instructor by arrangement.

**EDEL 302. Integrating Technology into the Classroom. (3-0-3); I, II.** *Prerequisite: CIS 101 or EDUC 222. Co-requisite: This course must be taken with one of the following courses: EDEE 305, EDEM 330, EDEE 327, EDMG 306, EDMG 347, or EDSP 230.* Focus on the principles of instructional technology and the appropriate integration of technology into the classroom for both teaching and learning. Production projects will be required.

**EDEL 333. Fundamentals of Elementary Education. (3-1-4); on demand.** *Prerequisites: admission to TEP and approval of department head.* Introduction to content areas of the elementary curriculum, including teaching methods and materials. Emphasis is placed on the role of special teachers in the total school program.

**EDEL 470. Research Problems. (1 to 3 hrs.); I, II.** Independent research study of a professional nature. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDEL 516. Educational Computing. (3-0-3); I, II.** The development of competencies in the use of microcomputers for instruction, management, information processing, computer assisted instruction and practical high-level programming applications through programming assignments. Hardware and operating systems are covered. Designed primarily for students without previous data processing instruction. Cross listed with CIS 516.

**EDEL 599. Workshop. (1 to 3 hrs.); on demand.** Workshop for specifically designated task orientation in education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

**Education (Early Elementary and Middle Grades)**

**EDEM 330. Foundations of Reading. (3-0-3); I, II, III.** *Prerequisite: 24 semester hours including EDF 207 and 211, EDSP 230, EDEE 305 or EDMG 306, and EDEE 327 or EDMG 347.* (Orientation/Exploration, Preparation Level Industrial Education students are exempt from prerequisites not required in their program). An explanation of the developmental aspects of the reading process in grades P-9 in terms of instruction, assessment, materials, and classroom organization.

**EDEM 499C. Student Teaching Seminar. (3-0-3); I, II.** *Prerequisite: completion of requirements for professional semester. Co-requisite; one of the following: EDEE 423, EDMG 446, EDSP 435, 437, IECE 425.* An orientation to the student teaching semester and the role of responsible teaching in the public school.

**Education (Foundations)**

**EDF 207. Foundations of Education. (3-0-3); I, II, III.** Orientation for students considering teaching as a career. Course will survey the scientific, historic, philosophic, and social foundations of the teaching profession. Field experiences are an integral part of course.

**EDF 211. Human Growth and Development. (3-0-3); I, II, III.** Survey of developmental patterns from birth to adolescence and their implications for improving the quality of life for the community of life-long learners. Eight hours of field experience (observation and participation) is required and is a foundational element of the course. *This course satisfies the area studies-social and behavioral sciences for general education.*

**EDF 311. Learning Theories and Assessment in Education. (3-0-3); I, II, III.** *Prerequisite: admission to TEP and EDF 211.* Theories, principles, and concepts of human development, learning, motivation, and assessment are presented and applied to the interpretation and explanation of human behavior in relation to classroom practices and the teaching profession. Twelve hours of field experience (observation) in a school or other educational agency is required and is a foundational element of the course.

**EDF 322. Gender and Education. (3-0-3); I.** This course explores gender issues that affect male and female students from preschool to post-secondary education. Cross listed with WST 322.

**EDF 360. History of Education. (3-0-3); on demand.** Education in ancient, medieval, and modern periods; early American backgrounds; early campaigns for improvement of instruction and teacher training; development of present practices; great educators of each period and their contributions.

**EDF 364. The Black Family. (3-0-3); I, II.** This course focuses on the impact of historical events including slavery, emancipation, reconstruction and the civil rights movement on the structure and function of the African-American family. Historical perspective, cultural heritage, public policy, education and social formations will be included in this interdisciplinary survey.

### Education (Guidance and Counseling)

**EDGC 105. Career Planning. (2-0-2); I, II.** Systematic information and guidance in career development provided which assists the student in making a realistic career decision consistent with needs, abilities, attitudes, and personal goals.

**EDGC 566. Introduction to Vocational Rehabilitation Services. (3-0-3); I, III.** History of vocational rehabilitation movement, legislative efforts, and impact; overview of rehabilitation process, roles of rehabilitation professionals in various rehabilitation settings, discussion of values and ethics, and examination of professional organizations for rehabilitation personnel.

**EDGC 567. Rehabilitation of Special Groups. (3-0-3); I, III.** *Prerequisite: EDGC 566 or consent of instructor.* In-depth study of various target populations in need of rehabilitation services, including physically disabled, public offenders, delinquents, drug addicts, aged, mentally retarded, and educationally, socially, and culturally disadvantaged.

**EDGC 599. Workshop. (1 to 3 hrs.); I, II, III.** *Prerequisite: upper division or graduate classification.* Workshop for specifically designated task orientation in education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

### Education (Middle Grades – 5-9)

**EDMG 306. Development and Learning in Middle Grades. (3-0-3); I, II.** *Prerequisite: EDF 207, 211, and PSY 154.* A study of the principles of learning and motivation as they are applied in the middle grades.

**EDMG 332. Reading Strategies for the Middle Grade Teacher. (3-0-3); II.** *Prerequisites: admission to TEP and EDF 207, 211, EDEM 330.* (Orientation/Exploration, Preparation Level Industrial Education and Vocational Family and Consumer Science students are exempt from prerequisites not required in their program. EDEM 330 is a prerequisite for all students). An explanation and evaluation of materials and methods of teaching the advanced reading skills in grades 5-9. The students are taught how to teach the skills needed for comprehension, study skills, and content area reading. Assessment and interpretation of reading abilities will be utilized to design classroom instruction. Field experiences in grades 5-9 are an integral part of this course.

**EDMG 341. Teaching Math in Middle Grades. (3-0-3); I.** *Corequisites: admission to TEP and EDEM 330, MATH 231 and 232.* Presentation of essential number concepts for middle grade learners with emphasis upon functional arithmetic and its application. The course will examine various methodologies used in the middle grades. Field experiences in grades 5-9 are an integral part of this course.

**EDMG 342. Teaching Social Studies in Middle Grades. (3-0-3); I.** *Prerequisites: admission to TEP, and EDEM 330.* This course will explore the scope and sequence of understandings, attitudes, and skills taught in middle grade social studies programs; and will examine various methodologies used in the middle grades of 5-9. Field experiences in grades 5-9 are an integral part of this course.

**EDMG 343. Language Arts in Middle Grades. (3-0-3); II.** *Prerequisites: admission to TEP, EDEM 330, EDSP 230, EDMG 306 and 347.* Role of language arts in the middle grades curriculum. Diagnosis of children's communication skills, needs, and subsequent teaching techniques are central to the course. Areas of emphasis include language development, listening and thinking skills, speaking, written expression, spelling, and handwriting. Field experiences are an integral part of this course.

**EDMG 347. Literature and Materials for the Preadolescent. (3-0-3); I, II.** A survey of literature for preadolescents in which students will examine materials across the different genres as well as various types of media appropriate for levels of certification in grades 5-9. Emphasis on criteria for evaluation and selection of materials, reading interest, needs, and abilities of preadolescence.

**EDMG 446. Supervised Student Teaching. (4 to 12 hrs.); I, II.** *Prerequisite: completion of requirements for admission to the professional semester.* Placement in a student teaching center during which time observation, participation, and student teaching are done. Special conferences with the supervising teacher, attendance, and participation in faculty meetings and co-curricular activities are also required.

### Education (Secondary)

**EDSE 276. Independent Study. (1 to 3 hrs.); I, II.** Directed study of specific areas in secondary education. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDSE 312. Educational Methods and Technology. (2-2-3); I, II.** *Prerequisites: admission to TEP and EDF 311.* Introduction to classroom teaching skills and methods. The instructional process is covered with emphasis upon lesson preparation and presentation, including mediation of instruction; long-term and short-term instructional planning; human interaction skills. Field experiences are an integral part of this course.

**EDSE 333. Field Experiences in Secondary Classrooms. (1-1-2); I, II.** *Prerequisite: admission to TEP.* The course provides students with opportunities to develop the pedagogical knowledge and skills required to perform successfully the tasks of planning, implementing, and evaluating instruction.

**EDSE 399. Selected Topics. (1 to 3 hrs.); I, II.** Investigation of specific problem areas in the field of study. May be repeated in additional subject areas.

**EDSE 416. Clinical Practice. (12-0-12); I, II.** This integrated professional clinical experience is comprised of two parts: 1) A seminar component, and 2) A public school classroom component. Eligible teacher candidates must successfully complete all aspects of this course as determined by state, university, an assigned university supervisor and public school cooperating teacher.

**EDSE 470. Research Problems. (1 to 3 hrs.); I, II.** Independent research study of a professional nature. Conferences with instructor by arrangement. Maximum of six semester hours may be earned under this course number.

**EDSE 483. Classroom Organization and Management for Secondary Teachers. (3-0-3); I, II.** Designed to provide assistance in establishing organized, well managed regular classrooms, labs, and other settings in secondary schools (8-12). Emphasis is placed upon developing procedures, adaptations, and rules for class organization and management. Various models of classroom management will be studied and options for dealing with disruptive students will be described. Field experience required with this class.

**EDSE 499C. Teacher in Today's Schools. (2-0-2); I, II.** *Prerequisite: admission to professional semester.* An application of previous learning in development of an instructional unit taught during student teaching; an orientation to student teaching experience; miscellaneous activities relating to areas of teacher concerns, i.e., school law, pupil accounting, professional organizations, principles of classroom organization and management; and human interaction skills. Field experiences are an integral part of this course. *This course satisfies the integrative component for general education.*

**EDSE 516. Educational Computing. (3-0-3); II.** Basic concepts pertaining to unit-record equipment and computers. Applications in education, research, and administration. Designed primarily for students without previous data processing instruction and batch-process computing using PRIME 550/750 computing systems. Cross listed with EDEL 516.

**EDSE 599. Selected Topics. (1 to 3 hrs.); I, II.** *Prerequisite: upper division or graduate classification.* Workshop for specifically designated task orientation in education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

## Education (Special)

**EDSP 199. Workshop. (1 to 3 hrs.); on demand.** Workshop for specifically designated task orientation in special education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

**EDSP 230. Education of Exceptional Children. (3-0-3); I, II.** Procedures for identification, education, and treatment of exceptional children – the gifted, those with low intelligence, and handicapped – including behavioral deviations.

**EDSP 231. Field Experiences. (0-2-1); I.** Involves the student in on-site experiences in a variety of schools, institutions, and agencies providing services to the trainable mentally handicapped.

**EDSP 235. Including Students with Diverse Needs in the Classroom. (3-1-3); II.** *Prerequisite: EDSP 230.* This course will develop the skills and information needed by teachers to build inclusive learning communities within the schools. Crucial to achieving this end is: 1) the development of the skills needed to work with colleagues to create a classroom environment that accommodates the full range of diversity found in today's schools, and 2) a working knowledge of the legal requirements related to meeting the needs of diverse students.

**EDSP 276. Independent Study. (1 to 3 hrs.); I, II.** Independent study of a professional problem in special education.

**EDSP 320. Introduction to Corrective Speech. (3-0-3); I, II, III.** Introductory course in speech correction for classroom teacher. Cross listed with CMSP 320.

**EDSP 332. Teaching the Exceptional Student. (2-0-2); I, II.** *Prerequisite: admission to TEP.* Describes physical and behavioral characteristics of exceptional students and their educational needs. Describes social and legal responsibilities regarding exceptional persons and reviews educational practices and appropriateness for specific exceptional behavior.

**EDSP 350. Characteristics of Individuals with Mental Retardation and Orthopedic Handicaps. (2-2-3); I, II, III.** *Prerequisite: EDSP 230 or appropriate introductory course.* Biological, physical, etiological, psychological, and educational characteristics of individuals demonstrating significant deviations in mental or physical behavior. The likely needs of these mentally retarded and orthopedically impaired individuals discussed in light of their presenting problems.

**EDSP 356. Applied Behavior Analysis. (2-2-3); I, II.** *Prerequisites: admission to TEP; EDSP 230 and 350; or consent of instructor (For students in MSD program this is part of the methods block and all block courses must be taken concurrently.).* Provides student with an introduction to applied behavior analysis procedures. The design and implementation of specific strategies that will support the establishment of effective instructional environments will be examined. Topics will include behavior management and training strategies, data based programming, and field-based teacher research methods.

**EDSP 360. Characteristics of Individuals with Learning Disabilities and Behavior Disorders. (2-2-3); I, III.** *Prerequisite: EDSP 230 or appropriate introductory course.* Biological, physical, etiological, psychological, and educational characteristics of individuals demonstrating significant deviations in learning and behavior disorders. The likely needs of learning disabled and behavior disordered individuals discussed in light of their presenting problems.

**EDSP 363. Assistive Technology. (3-1-3); I, II.** *Prerequisite: EDEL 302, EDSP 230, 350, and general education computer technology course.* This course develops basic knowledge and skills using assistive technology as a fundamental resource and support for people with disabilities. It is focused on the needs of the beginning professional in education or other human service fields. Legal mandates, funding sources, information resources, the range of available devices and software will be examined.

**EDSP 365. Including Students with Diverse Needs in the Classroom. (3-3-3); I, II, III.** *Prerequisite: admission to TEP, EDSP 230, EDSP 350. (It is strongly recommended that students take this course concurrently with general education methods courses).* This course will develop the skills and information needed by teachers to build inclusive learning communities within the schools. Crucial to achieving this end is: 1) the development of the skills needed to work with colleagues to create a classroom environment that accommodates the full range of diversity found in today's schools, and 2) a working knowledge of the legal requirements related to meeting the needs of diverse students.

**EDSP 367. Educational Assessment of Exceptional Students. (2-2-3); I, III.** *Prerequisites: admission to the TEP, EDSP 230, and 350.* The purpose of the course is to train teachers in the fields of Learning Disabilities and Behavior Disorders (LBD), and Moderate and Severe Disabilities (MSD) to appropriately select, use, and interpret a variety of valid educational assessment instruments, both standardized and informal, in the following areas: initial identification of individuals with disabilities, instructional planning, monitoring of student progress, and in the evaluation of student performance and program effectiveness.

**EDSP 370. Transdisciplinary Assessment of Students with Moderate and Severe Disabilities. (3-0-3); II.** *Prerequisite: admission to the TEP, EDSP 350 and consent of instructor. Co-requisite: EDSP 371.* Involves procedures for comprehensive assessment of the educational need of individuals with moderate to severe disabilities including teaming with related services personnel, parents, and others to design and implement an appropriate individual instructional program.

**EDSP 371. Field Experiences in Transdisciplinary Assessment and Services for Students with Moderate and Severe Disabilities. (0-2-1); II.** *Prerequisite: admission to TEP,*

*EDSP 350 or consent of instructor. Co-requisite: EDSP 370.* This field placement in programs serving students with moderate and severe disabilities will provide the student with an opportunity to understand the relevant characteristics of this group understand the roles of various personnel working with these students, and apply the assessment strategies being studied in the co-requisite course.

**EDSP 372. Transition to Adult Life. (3-3-3); I, II, III.** *Prerequisites: EDSP 230 and 350.* Prepares teachers of students with moderate and severe disabilities to effectively plan for and support students moving from school to adult life. This entails skill development in the area of planning processes, vocational training, support development, developing functional skills and preparation of Individualized Transition Plans (ITPs).

**EDSP 373. Curriculum for Students with Moderate and Severe Disabilities. (3-0-3); I, III.** *Prerequisites: EDSP 350 and 370. This course is part of the MSD block and all block courses must be taken concurrently.* Examines the components of functional curriculums for students with moderate and severe disabilities. Also examines strategies to manage a program of community-based instruction, to support the inclusion of students with moderate and severe disabilities in a variety of school and community settings and to conduct authentic assessment of student learning.

**EDSP 374. Teaching Students with Moderate and Severe Disabilities. (3-1-3); I, III.** *Prerequisite: admission to TEP, EDSP 350, 370, or consent of instructor. This course is part of the MSD block and all block courses must be taken concurrently.* Examines the critical components of an effective educational program for students with moderate and severe disabilities including the development of Individual Education Plans (IEPs), techniques for effective instruction, strategies for behavior management, approaches to systematic data based instruction, collaboration with families, and interdisciplinary collaboration.

**EDSP 375. Practicum in Education of Students with Moderate and Severe Disabilities. (0-4-2); I.** *This course is part of the MSD block and all block courses must be taken concurrently.* Field placement in programs serving students with moderate and severe disabilities will provide the student with an opportunity to understand the physically, behaviorally, and educationally relevant characteristics of this group and apply planning and teaching strategies being studied in the co-requisite course.

**EDSP 399. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in special education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

**EDSP 435. Supervised Teaching Practicum. (4 to 12 hrs.); I, II, III.** *Prerequisites: admission to TEP, attainment of scholastic standing of 2.5 on residence courses at MSU, minimum standing of 2.5 on all work completed in area of concentration, major(s), and minor(s), minimum of one semester residence, and approval of the University Teacher Education Council.* Placement is in public school special education and elementary education classrooms on the basis of one week placement for each credit hour unit. Application made through coordinator of professional laboratory experiences.

**EDSP 437. Student Teaching Practicum in Education of Students with Moderate and Severe Disabilities. (6 to 12 hrs.); I, II.** *Prerequisite: admission to TEP, attainment of 2.5 GPA on residence courses at MSU, 2.5 GPA on all work in area(s) of concentration, major(s), and minor(s), minimum of one semester residence, and approval of University Teacher Education Council.* Placement is in public school setting with students with moderate and severe disabilities. Development of a new teacher portfolio that documents mastery of the performance standards and criteria for teachers of students with moderate and severe disabilities. Application made through the Director of Student Teaching.

**EDSP 470. Research Problems. (1 to 3 hrs.); I, II.** Independent research study of a professional problem. Conferences with instructor by arrangement.

**EDSP 537. Educational Assessment of Exceptional Children. (2-2-3); I, II, III.** Assessment methodology relating to identification of behavioral deficits and excesses of students which lessen their performance level in one or more core academic subject areas.

**EDSP 551. Curriculum for Pre-School Exceptional Children. (2-2-3); I, II, III.** *Prerequisites: EDSP 230 and 360.* Designed to prepare the teacher to work with pre-school children having handicapping conditions. Curriculum procedures involving perpetual-motor activities, prosthetic devices, and system approaches in special education featured.

**EDSP 552. Learning Disabilities. (3-0-3); on demand.** Examination of psychological, medical, and educational literature involved with survey, clinical, and experimental work concerning a specific learning disorder.

**EDSP 553. Language Arts for Exceptional Children. (2-2-3); I, II, III.** *Prerequisites: admission to TEP, EDEM 330, EDSP 230, 350, 360, and 367 or consent of instructor.* Designed to prepare the teacher of students with learning and behavior disorders in curriculum development and specialized procedures for teaching language arts, including reading, spelling, handwriting, language, and written composition.

**EDSP 555. Prescriptive Teaching for Children with Students with Learning and Behavorial Problems. (2-2-3); I, II, III.** *Prerequisites: admission to TEP, EDSP 230, 350, 360, 356, 363, 372, 365, and 367. Co-requisite: EDSP 559.* This course is designed to train teachers in instructional planning, management, and delivery of instruction. It includes strategic program planning incorporating due to process procedures as specified in federal legislation, as well as teaching methodology in systematic delivery of specially designed instruction for individuals with learning disabilities, behavior disorders, and mild mental disabilities in public schools. This course also addresses classroom management and organization practices as they pertain to establishing optimal learning environments for all students.

**EDSP 557. Content Areas and Career Preparation for Exceptional Students. (2-2-3); II, III.** *Prerequisites: admission to TEP, EDSP 230, 350, 356, 360, 372, 365, and 367.* This course is designed to train teachers in the areas of Learning Disabilities and Behavior Disorders in curriculum development and modification, and in the planning, implementation, and evaluation of specially designed instruction, as required on a student's Individual Education Program, in mathematics, the content areas, and social-emotional skills.

**EDSP 558. Learning Disabilities Methodology. (2-2-3); on demand.** *Prerequisite: EDSP 552.* Application of materials and methods (including construction of instructional aides) for teaching students with learning disabilities.

**EDSP 559. Practicum in Teaching Students with LBD. (0,2, 1); I, II, III.** *Prerequisites: admission to TEP, EDSP 230, 350, 360, 356, 363, 372, 365, 367, and 555.* Field placement in programs serving students with learning and behavioral disorders.

**EDSP 581. Introduction to Education Statistics. (2-2-3); II, III.** Introductory study of applications of statistical and graphical methods to educational and psychological data. Includes areas of descriptive and inferential statistics that apply to educational research.

**EDSP 599. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in special education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

### Education (Professional)

**EDUC 222. Computing Tools for Educators. (3-0-3); I, II.** An introduction to educational computing through lecture and directed hands-on computer activities. The course will focus on the computer as a tool for educators. No previous computer experience required. *This course satisfies the computer competency requirement.*

**EDUC 476. Reading in the Secondary School. (2-2-3); I, III.** *Prerequisite: admission to TEP.* Emphasis is centered around instruction in junior high and high school. Materials are included for instruction and studies of administrative problems involved. Field experiences are an integral part of course.

**EDUC 482. Classroom Management and Assessment. (3-0-3); I, II.** *Prerequisite: admission to TEP*. Designed to provide assistance in establishing an organized, well managed classroom in grades P-9 and to develop an understanding of educational assessment terms and methods. Field experience required with this course.

**EDUC 550. Supervised Practice in Teacher Education I. (3-6 hrs.); I.** *Prerequisite: Unconditional admission to the MAT Program.* Teaching experiences in a public school setting supervised by University personnel and a selected public school supervisor or mentor. In addition, students will complete a variety of learning activities to document proficiency in relation to each of the New Teacher Standards.

**EDUC 551. Supervised Practice in Teacher Education II. (3-6 hrs.); II.** *Prerequisites: Unconditional admission to the MAT Program.* Teaching in the public schools with supervision by University faculty and selected public school supervisors or mentors. In addition, students will complete a variety of learning activities to document proficiency in relation to each of the New Teacher Standards.

### English

**ENG 090. Developmental Writing. (3-0-3); I, II, III.** *Prerequisite: ACT score of 13 or below*. A placement composition course that reviews basic grammar, punctuation, and mechanics and emphasizes writing/revising for clarity and correctness. ENG 090 does not satisfy the General Education requirement for written composition. ENG 090 does not count as hours toward degree.

**ENG 099. Basic Writing Skills. (3-0-3); I, II, III.** *Prerequisites: ACT score in English of 14-17 or successful completion of ENG 090.* This course is designed to provide students with an intensive opportunity to develop entry-level writing skills of critical importance in ENG 100 – specifically, a basic ability to read, write, and reason analytically as well as to incorporate and document basic research into one's own writing. ENG 099 does not satisfy the General Education requirement for written composition. ENG 099 does not count as hours toward degree.

**ENG 100. Writing I. (3-0-3); I, II, III.** *Prerequisite: 18 ACT English subscore or successful completion of ENG 099.* This course is designed to help students understand and develop their writing, reading, and thinking abilities through the production and rhetorical examination of personal and academic texts. *This course satisfies the required core-writing I for general education.*

**ENG 120. Approaches to Literature. (3-0-3); I, II, III.** *Prerequisites: An ACT score of 18 in English and in reading or a grade of "C" or better in ENG 099 and EDEL 097.* Introduction to literary appreciation for non-majors, with emphasis on ways of reading and understanding literary texts. Topics for individual sections of the course will be designated in the course schedule for each semester. Cross listed with WST 120. *This course satisfies area studies-humanities for general education.*

**ENG 200. Writing II. (3-0-3); I, II, III.** *Prerequisite: ENG 100 and either completion of 24 semester hours or consent of instructor.* Builds on skills learned in ENG 100 by leading students to analyze and write critically about readings that are related to one of the area studies within general education. *This course satisfies the required core-writing II for general education.*

**ENG 205. Language: Culture and Mind. (3-0-3); I, II.** Introduction to the study of human language. Topics include language and culture, language and the mind, meaning and communication, the acquisition of language, and sound and writing systems. *This course satisfies area studies-humanities for general education.*

**ENG 211. Introduction to World Literature I. (3-0-3); I.** *Prerequisite: An ACT score of 18 in English and in reading or grade of "C" or better in ENG 100 and EDEL 097.* A comparative study of dramatic, lyric, and narrative ancient literatures. *This course satisfies area studies-humanities for general education.* Cross listed with IST 211.

**ENG 212. Introduction to World Literature II. (3-0-3); II.** *Prerequisite: An ACT score of 18 in English and in reading or grade of "C" or better in ENG 100 and EDEL 097.* A comparative study of dramatic, lyric, and narrative literatures of the world after the sixteenth century. *This course satisfies area studies-humanities for general education.*Cross listed with IST 212.

**ENG 280. Introduction to Teaching English in Secondary Schools (3-0-3); I .** Introduction to Teaching English in Secondary Schools familiarizes students with national and state standards for secondary language arts and provides early field experience to explore the application of those standards in actual English classrooms. Students will also develop a beginning teaching portfolio to prepare for TEP admissions, to organize and reflect on content and methods course materials, and to accrue resources throughout clinical experiences and beyond. Up to 15 hours of Level II field experience may be required.

**ENG 292. Technical Composition. (3-0-3); I, II, III.** *Prerequisites: English 100 (or its equivalent) and 24 or more credit hours completed*. English 292 builds on skills learned in English 100 with emphasis on the writing of scientific-industrial directions, letters, and memos, abstracts, minor project reports, and the use of visual aids. *This course satisfies the core writing-II requirement for general education.*

**ENG 293. Introduction to Creative Writing. (3-0-3); on demand.** *Prerequisite: ENG 100.* Introduction to creative writing, with an emphasis on production in several genres. All sections will include at least three of the following: fiction, poetry, creative nonfiction, and drama. *This course satisfies the area studies-humanities for general education.*

**ENG 300. Introduction to Literary Studies in English. (3-0-3); II.** *Prerequisite: ENG 100 (or equivalent).* This course is an advanced introduction to literary studies in English. The course will

focus on basic literary terminology, literary research and documentation techniques, and fundamental theoretical issues in studying literature. It is strongly recommended that students take ENG 300 before taking any upper-level literature courses.

**ENG 305. Introduction to Linguistics. (3-0-3); II.** Introduction to the major areas of contemporary linguistics.

**ENG 311. Global English Literature. (3-0-3); on demand.** *Prerequisite: ENG 100 (or equivalent).* This course is an introduction to the English language literature produced outside of a British or American literary tradition.

**ENG 315. Structure of English. (3-0-3); I, II.** *Prequisite: ENG 100 or equivalent or consent of instructor.* The structures of the English language from the perspective of descriptive and structural linguistics.

**ENG 320. Women Writers and Feminist Perspectives. (3-0-3); on demand.** *Prerequisite ENG 100 or equivalent or consent of instructor.* Women writers of the nineteenth and twentieth centuries, their feminine vision and voice. Focus on primary works; attention given to feminist criticism in both theory and practice. Cross listed with WST 320.

**ENG 325. Religious Literature of the World. (3-0-3); on demand.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* The literature of major religions of the world. Cross listed with IST 325.

**ENG 331. British Literature to 1750. (3-0-3); I, II.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* A survey of British literature from Beowulf through Dr. Johnson.

**ENG 332. British Literature since 1750. (3-0-3); I, II.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* A survey of British literature from Wordsworth to the present.

**ENG 341. American Literature to 1865. (3-0-3); I, II.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* A survey of American literature from its colonial beginnings to the end of the Civil War.

**ENG 342. American Literature since 1865. (3-0-3); I, II.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* A survey of American literature from the end of the Civil War to the present.

**ENG 344. The Short Story and the Novel. (3-0-3); I, II.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* Study of representative forms of the short story and the novel.

**ENG 348. African-American Literature. (3-0-3); on demand.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* A study of African-American poets, playwrights, autobiographers, and novelists of the nineteenth and twentieth centuries.

**ENG 360. Appalachian Literature. (3-0-3); on demand.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* Regional literature including selected works by such major writers of the region as Harriette Arnow, Jesse Stuart, and Wilma Dykeman.

**ENG 365. Literature of the South. (3-0-3); on demand.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* Readings in the major representative Southern authors.

**ENG 367. Old Testament Literature. (3-0-3); on demand.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* A critical study of the history and literature of the Old Testament.

**ENG 368. New Testament Literature. (3-0-3); on demand.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* A critical study of the history and literature of the New Testament.

**ENG 381. Teaching Literature in Secondary Schools. (3-0-3); I, II.** *Prerequisites: admission to TEP, completion of EDF 207, EDF 211, ENG 280, and at least six hours of 300-level literature courses*. This course focuses on preparing secondary English teaching candidates to teach literature in the high school classroom. The course covers theories of literacy appropriate to the high school classroom, research on adolescent reading development, and theories and methodologies for teaching literature to adolescents. The course will include selections not only from canonical and contemporary literature but also from Kentucky's Core Content and Program of Studies for Literature. Students will engage in a variety of individual, small-group, and large-group activities in order to both learn and practice methods and strategies for literature instruction. The course includes a 10-hour component in Level II and III field experience.

**ENG 382. Teaching Writing in Secondary Schools. (3-0-3); I, II.** *Prerequisites: admission to TEP and completion of EDF 207.* A study of composition theory, research, and practice in a context of a student's own writing. Through workshops and classroom demonstrations, students learn to apply sound writing-based instructional techniques in their secondary classrooms. The course focuses on issues related to how older adolescents develop their writing abilities and the classroom practices which facilitate that development.

**ENG 389. Honors Seminar in Literature. (3-0-3); on demand.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* Intensive analytical study of a technique, movement, theme, author, or genre. Restricted to Honors Program students.

**ENG 390. Professional Writing. (3-0-3); I, II.** *Prerequisite: ENG 200 or equivalent or consent of instructor.* A writing-intensive course which teaches intermediate-level students the formal, rhetorical, and mechanical aspects of technical writing to prepare them for writing case reports, memoranda, technical specifications, process descriptions, and other work-related documents.

**ENG 391. Advanced Expository Writing. (3-0-3); on demand.** *Prerequisite: ENG 200 or equivalent or consent of instructor.* Practice in the writing of expository prose, and long essays based on research.

**ENG 392. Teaching Writing in Elementary and Middle Schools. (3-0-3); on demand.** *Prerequisite: ENG 200 or equivalent or consent of instructor.* Study of composition theory, research, and practice in a context of a student's own writing through workshops and classroom demonstrations.

**ENG 393. History of the English Language. (3-0-3); on demand.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* The major developments in the evolution of English from an early Germanic dialect to its present form.

**ENG 394. Language and Society. (3-0-3); I.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* Introduction to sociolinguistics. Focus on language variation and issues of language, gender, race, power, and education.

**ENG 395. Poetry Writing. (3-0-3); on demand.** *Prerequisite: ENG 200 or equivalent or consent of instructor.* Instruction in poetry writing: structural principles, use of metaphor, image, detail, voice, rhythm, the line and other concerns of poetics. A writing workshop format with emphasis on poetry in the contemporary idiom.

**ENG 396. Fiction Writing. (3-0-3); on demand.** *Prerequisite: ENG 200 or equivalent or consent of instructor.* Instruction in fiction writing: plot, conflict, characterization, point of view, atmosphere and other concerns of contemporary fiction. Writing workshop format with emphasis on fiction in the contemporary idiom.

**ENG 397. Writing Creative Nonfiction. (3-0-3); on demand.** *Prerequisite: ENG 200 or equivalent or consent of instructor.* Instruction in writing creative nonfiction (including memoir, personal essay, autobiography, and general literary nonfiction). Topics include developing themes from subjects, dramatizing life experience, developing a voice and persona, and other concerns of contemporary creative nonfiction. Writing workshop format.

**ENG 398. Gay and Lesbian Literature. (3-0-3); on demand.** *Prerequisite: ENG 100 (or equivalent or consent of instructor).* This course is an introduction to the growing field of literature and sexuality studies. In particular, the course will focus on the formation of a gay and lesbian literary canon in contemporary English Studies.

**ENG 399. Special Courses. (1 to 3 hrs.); on demand.** *Prerequisite: ENG 100 or equivalent or consent of instructor.* These courses are usually specialized offerings for the undergraduate student. The purpose of these courses is to enhance the existing program in English.

**ENG 405. Introduction to Old English. (3-0-3); on demand.** Introduction to the language and literature of the Anglo-Saxon period.

**ENG 422. Studies in American Literature to 1900. (3-0-3); I or II.** *Prerequisite: ENG 341 or ENG 342 with a grade of "C" or better.* Studies in American Literature to 1900 provides intensive appreciation and analysis of literary texts from the colonial period to 1900. Depending on the particular orientation an instructor might choose, students will learn about such movements as: 1) Romanticism and Gothicism, 2) Transcendentalism, 3) Literary Nationalism, 4) Regionalism, and/or 5) Realism

**ENG 423. Studies in American Literature, 1900-1965. (3-0-3); I or II.** *Prerequisite: ENG 341 or ENG 342 with a grade of "C" or better.* Studies in American Literature, 1900-1965 provides intensive analysis and appreciation of literary texts from the turn of the century to the onset of postmodernism. Depending on the particular orientation an instructor might choose, students will learn about such movements as: 1) Realism, 2) Naturalism, 3) Modernism, 4) The Harlem Renaissance, and/or 5) Expatriatism.

**ENG 424. Studies in Contemporary American Literature; I or II.** *Prerequisite: ENG 341 or ENG 342 with a grade of "C" or better.* Studies in Contemporary American Literature provides intensive analysis and appreciation of literary texts from 1965 to the present day. Depending on the particular orientation an instructor might choose, students will learn about: 1) postmodern literature, 2) such contemporary movements as hypertexts and e-poetry, and/or 3) the many multi-ethnic literatures currently dominating the American literary landscape.

**ENG 435. Shakespeare. (3-0-3); II.** *Prerequisite: ENG 200 or equivalent or consent of instructor.* A study of selected comedies, histories, and tragedies in their historical and critical context.

**ENG 436. The English Renaissance. (3-0-3); on demand.** *Prerequisite: ENG 331 or ENG 332 with grade of "C" or better.* Selected literature from 1500 to 1600, including works by Skelton, Wyatt and Surrey, Sidney, Spenser, and Shakespeare (excluding his plays).

**ENG 439. Senior Cooperative Education. (3-0-3); on demand.** *Prerequisites: ENG 390, 391, and 497.* Work experience in the technical or writing field in a position approved through an application process.

**ENG 441. Restoration and Eighteenth Century British Literature. (3-0-3); on demand.** *Prerequisite: ENG 331 or ENG 332 with grade of "C" or better.* Representative selections of English literature, including works by Dryden, Pope, Swift, Addison and Steele, and Johnson.

**ENG 442. Romantic Writers. (3-0-3); on demand.** *Prerequisite: ENG 331 or ENG 332 with grade of "C" or better.* Representative selections of English literature, including works by Wordsworth, Coleridge, Byron, Shelley, Keats, and the essayists.

**ENG 443. Victorian Writers. (3-0-3); on demand.** *Prerequisite: ENG 331 or ENG 332 with grade of "C" or better.* Representative selections of English literature, including works by Browning, Tennyson, Arnold, and Carlyle.

**ENG 444. Twentieth Century British Literature. (3-0-3); on demand.** *Prerequisite: ENG 331 or ENG 332 with grade of "C" or better.* Study of modern British literary genres.

**ENG 466. American Poetry. (3-0-3); on demand.** *Prerequisite: ENG 200 or equivalent or consent of instructor.* The development of American poetry from its beginning to the present, with emphasis on such poets as Bradstreet, Whitman, Dickinson, Frost, Eliot, and Stevens.

**ENG 475. Senior Cooperative Education. (3-0-3); on demand.** *Prerequisites: ENG 390, 391, and 497.* Work experience in the professional writing field in a position approved through an application process. Not available for option credit.

**ENG 476. Directed Studies. (1 to 3 hrs.); on demand.** *Prerequisite: consent of instructor and department chair.* This course is an independent study in English for the undergraduate English major. Before registering, the student must present in writing a suggested study and a justification for that study. Each request for the course will be considered on its own merits in relation to the special needs of the student.

**ENG 495. Seminar: Major Writers. (3-0-3); on demand.** *Prerequisite: ENG 300.* Intensive study of one or more major figures in the literature of the world.

**ENG 497. Technical Editing. (3-0-3); on demand.** *Prerequisite: ENG 390.* Study of the practice and management of editing for technical, scientific, professional, and corporate reports and writings.

**ENG 499C. Senior Seminar in English. (3-0-3); I, II, III.** *Prerequisites: senior standing, completion of at least 24 hours in English courses, including ENG 331, 332, 341 and 342.* Examination, in a seminar setting, of issues and opportunities for English majors. *This course satisfies the integrative component for general education.*

**ENG 500. Studies in English for Teachers. (3-0-3); I.** *Prerequisite: admission to TEP and senior standing, or admission to the Master of Arts in Teaching Program.* English 500 is designed to meet National Council of Teachers of English and Kentucky Department of Education guidelines to prepare candidates for the clinical semester in the areas of dispositions, content knowledge, pedagogy, curriculum and assessment. The course may include up to 15 clock hours of Level III field experiences.

**ENG 501. Semantics. (3-0-3); on demand.** *Prerequisites: ENG 305 or ENG 315 or equivalent.* A linguistic approach to the study of meaning in language.

**ENG 505. Linguistics: Grammar. (3-0-3); on demand.** *Prerequisites: ENG 305 or ENG 315 or equivalent.* Principles of grammar from current theoretical perspectives.

**ENG 509. Theories of Teaching Writing. (3-0-3); on demand.** *Prerequisites: ENG 391 or 392 or 382 or equivalent. consent of instructor.* An in-depth study of composition theory and research

with a heavy emphasis on the analysis and critique of important sources in the field of composition and rhetoric. Students are expected to complete a 10-hour assignment in the Writing Center or assisting a full-time composition teacher in his/her class.

**ENG 528. Literary Criticism. (3-0-3); on demand.** A survey of traditional criticism from the classical period to the Twentieth century; or a study of modern criticism; the New Humanists, New Critics, Neo-Aristotellians, and various linguistics structuralists.

**ENG 533. The English Novel. (3-0-3); on demand.** Development of the English novel from its beginnings to the Twentieth Century.

**ENG 534. Chaucer. (3-0-3); on demand.** A careful reading and analysis of Chaucer's early poetry and the Canterbury Tales. Relevant aspects of medieval culture are also examined.

**ENG 539. Milton. (3-0-3); on demand.** Intensive reading of Milton's poetry and major prose.

**ENG 545. Seventeenth Century British Literature. (3-0-3); on demand.** A study of literature from the time of James I to the Restoration with emphasis on works by Donne and Jonson.

**ENG 552. Early Dramatic Literature. (3-0-3); on demand.** Representative dramas from the Greeks to the mid-nineteenth century.

**ENG 553. Modern Drama. (3-0-3); on demand.** Representative dramas from the advent of Realism to the present.

**ENG 561. Studies in American Literary Periods. (3-0-3); on demand.** The study of the writers and genres of an American literary period.

**ENG 563. American Fiction. (3-0-3); on demand.** The development of American fiction from Charles Brockden Brown to Faulkner.

**ENG 570. Introduction to Film Literature. (3-0-3); on demand.** An introduction to the study of film as literature with extensive reading in the history of film and viewing of selected film classics.

**ENG 576. Directed Studies. (1 to 3 hrs.); on demand.** *Prerequisite: consent of instructor and department chair.* This course is an independent study in English for the advanced undergraduate and the graduate English major. Before registering, the student must present in writing a suggested study and a justification for that study. Each request for the course will be considered on its own merits in relation to the special needs of the student.

**ENG 583. Advanced Poetry Writing. (3-0-3); on demand.** *Prerequisite: ENG 293 or 395 or equivalent or consent of instructor.* Advanced instruction in poetry writing: organic and traditional structures; tone and persona; the sentence and the line; the lyric, dramatic, narrative, and meditative stances; and other concerns of poetics. An intensive writing workshop format with emphasis on poetry in the contemporary idiom. May be taken once at the undergraduate level and once at the graduate level.

**ENG 584. Advanced Fiction Writing. (3-0-3); on demand.** *Prerequisite: ENG 293 or 396 or equivalent or consent of instructor.* Advanced instruction in fiction writing: plot, conflict, characterization, point of view, atmosphere, and other concerns of contemporary fiction. An intensive writing workshop format with emphasis on contemporary fiction and the audience and market for literary fiction. May be taken once at the undergraduate level and once at the graduate level.

**ENG 591. Technical Writing I. (3-0-3); on demand.** Principles of analysis, process, and definition; program, recommendation, and research reports; proposals and memoranda; visual aids; transitions, mechanics of clear and precise statement. Cross listed with CMAP 591.

**ENG 599. Special Courses. (1 to 3 hrs.); on demand.** *Prerequisites: variable.* These courses are usually specialized offerings for the advanced undergraduate and the graduate student in English. The purpose of these courses is to enhance the existing program in English.

## Finance

**FIN 199. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various finance subjects will be presented periodically to supplement the basic course offerings in finance. Credit toward degree programs must be approved by the student's advisor and the department chair.

**FIN 252. Mathematics of Finance. (3-0-3); on demand.** Application of mathematical techniques for business and economic analysis. Topics covered include: interest annuities, amortization, sinking funds, bond valuation, and other relevant quantitative subjects.

**FIN 264. Personal Finance. (3-0-3); on demand.** Planning personal finance, financial statements, budgeting, managing financial and non-financial assets, taxes, insurance, and estate planning. *This course satisfies area studies-practical living for general education.*

**FIN 325. Bank Management. (3-0-3); on demand.** *Prerequisite: ACCT 281, ECON 101 or higher.* Organization and operation of the commercial bank.

**FIN 339. Cooperative Education III. (1 to 8 hrs.); I, II.** *Prerequisite: consent of departmental cooperative education coordinator.* Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior level status. Maximum of three hours of cooperative education credit (FIN 339/439) available for option credit.

**FIN 342. Money and Banking. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* Origin, development, and functions of money; banking functions and processes; the Federal Reserve System and monetary policy. Cross listed with ECON 342.

**FIN 360. Business Finance. (3-0-3); I, II.** *Prerequisites: ACCT 282, ECON 101 or higher, MATH 152 or equivalent.* Financial management, management of cash, receivables, inventories, plant assets, short-term debt, long-term debt, intermediate-term debt, owner's equity.

**FIN 365. Financial Issues for Small Business. (3-0-3); on demand.** *Prerequisites: ACCT 282 and FIN 360.* Examines the financial issues small businesses deal with at startup and on a day-to-day basis. Students will learn how small businesses can apply financial principles to benefit the company. Cross listed with MNGT 365.

**FIN 370. Working Capital Management. (3-0-3); on demand.** *Prerequisites: ACCT 282 and FIN 360.* Focus on short-term financial management decision-making covering topics which include: accounts receivable management, inventory management and control, cash management, accounts payable management, liquidity analysis, and short-term investing and financial alternatives. Short-term financial management decisions facing small businesses are emphasized.

**FIN 372. Retirement Planning and Employee Benefits. (3-0-3); on demand.** *Prerequisites: FIN 264 and 360.* Covers retirement planning issues such as types of retirement plans, distribution options, retirement needs analysis, suitability of an investment portfolio for a qualified plan, Social Security, Medicare, and Medicaid; and employ-

ee benefit issues such as life, medical, and disability insurance.

**FIN 373. Investments. (3-0-3); on demand.** *Prerequisite: ECON 202 and FIN 360.* Investment risks, security analysis, investment policy-making, both individual and institutional.

**FIN 374. Estate Planning and Taxation. (3-0-3); on demand.** *Prerequisites: FIN 264 and 360.* Covers estate planning and taxation issues such as documentation, legal ownership to property, trusts, the federal gift tax, probate, and asset valuation.

**FIN 375. Accounting Analysis and Financial Decision Making. (3-0-3); on demand.** *Prerequisites: ACCT 282, CIS 101, and FIN 360.* Interpretation and development of accounting and financial data and statements incorporating spreadsheet analysis and applications. Cross listed with ACCT 375.

**FIN 376. Risk Management and Insurance. (3-0-3); on demand.** *Prerequisites: FIN 264 and 360.* Covers insurance topics such as legal aspects, life and health, and property and liability, and business risk management.

**FIN 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various finance subjects will be presented periodically to supplement the basic course offerings in finance. Credit toward degree programs must be approved by the student's advisor and the department chair.

**FIN 420. Financial Markets and Institutions. (3-0-3); on demand.** *Prerequisite: FIN 360 or equivalent, or consent of instructor.* Analysis of the flow of funds in financial markets; characteristics of money and capital markets; characteristics of financial instruments; interest rate determination; purposes and characteristics of financial institutions; interactions of financial markets and financial institutions domestically and internationally.

**FIN 439: Cooperative Education IV. (1 to 8 hrs.); I, II.** *Prerequisite: consent of the departmental cooperative education coordinator.* Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior-level status. Maximum of three hours of cooperative education credit (FIN 339/439) available for option credit.

**FIN 460. Advanced Business Finance. (3-0-3); I.** *Prerequisite: FIN 360.* Includes intensive study of capital budgeting, cost of capital, capital structure, special topics in finance.

**FIN 472. Portfolio Analysis. (3-0-3); on demand.** *Prerequisites: FIN 360 and 373.* Includes study of portfolio theory, risk analysis, portfolio management. Applications including computer analysis of financial data stressed.

**FIN 476. Special Problems in Finance. (1 to 3 hrs.); on demand.** *Prerequisite: completion of 21 hours in finance and economics, combined with prior consent of department chair.* This course is an independent study of finance problems of special interest. Students must present in writing a suggested problem and justification for the study prior to registration. Each request will be considered on its own merit in relation to the special needs of the student.

**FIN 485. International Finance. (3-0-3); on demand.** *Prerequisite: FIN 360 or consent of instructor.* Includes the study of international finance markets, investments, and multinational corporations with emphasis on the operations of the multinational firm, foreign exchange and trade, banking and investment, and risk.

**FIN 486. Student-Managed Investment Fund. (3-0-3); on demand.** *Prerequisites: FIN 360 and 373 or consent of instructor.* Students manage a real portfolio of investments in the stock market. Investment money belongs to the MSU Foundation, Inc., and other outside investors. Students conduct securities analysis and make portfolio management decisions. All investment decisions are made by the students. The course instructor serves as a moderator only.

**FIN 490. Seminar in Financial Theory and Practice. (3-0-3); II.** *Prerequisites: FIN 373 and 460.* Examination and application of contemporary financial theory and analysis. Study of classical literature and the evolution of contemporary financial theory. Examination of the role of events and institutions on the evolution of financial thought.

**FIN 499. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various finance subjects will be presented periodically to supplement the basic course offerings in finance. Credit toward degree programs must be approved by the student's advisor and the department chair.

### Fine Arts

**FNA 160. Understanding the Visual Arts. (3-0-3); I, II, III.** An examination of visual art from various cultures. It includes a study of materials, techniques, subjects, styles, issues, functions, and meanings related to visual art. *This course satisfies the area studies-humanities for general education.*

**FNA 187. Opera Workshop. (0-2-1); I, II.** An introduction to the techniques of musical theatre with emphasis placed on the integration of music and action-dramatic study of operatic roles.

**FNA 588. Opera Workshop. (0-2-1); I, II.** An introduction to the techniques of musical theatre with emphasis placed on the integration of music and action-dramatic study of operatic roles.

### French

**FRN 101. Beginning French I. (3-0-3); I, II, III.** Emphasis on developing communicative skills. Listening, speaking, reading, writing. Basic grammar and orientation to French culture. Video and audio components. *This course satisfies the area studies-humanities for general education.*

**FRN 102. Beginning French II. (3-0-3); I, II, III.** *Prerequisite: FRN 101, or placement test, or consent of instructor.* Continuation of FRN 101. Use of four skills for effective communication in a variety of situations.

**FRN 201. Intermediate French. (3-0-3); I.** *Prerequisite: FRN 102, or placement test, or consent of instructor.* Continuation of FRN 102. Increased emphasis on interactive language and grammatical competency.

**FRN 202. Conversation and Composition. (3-0-3); II.** *Prerequisite: FRN 201, or placement test, or consent of instructor.* Continuation of FRN 201. Listening and reading for proficiency. Creative personal expression in speaking and writing.

**FRN 203. Introduction to France. (3-0-3); on demand.** *Prerequisite: FRN 102.* Continuation of FRN 202. Implementation of four skills into broad-based dialogue and discussion relating to all aspects of French culture and civilization.

**FRN 205. French Culture and Civilization. (3-0-3); II.** Survey of art, architecture, music and history of France. Cuisine, fashion, and cinema. The imprint of France on America and the Third World. Taught in English; some knowledge of French helpful but not required. *This course satisfies the area studies-humanities for general education.* Cross listed with IST 205.

**FRN 206. Business French. (3-0-3); I, II.** *Prerequisite: FRN 102 or consent of instructor.* Introduction to the French-speaking business world. Special attention to etiquette, interpersonal relations, and daily culture. Investigation of current French practices in

marketing, banking, real estate, advertising and the media. Study of authentic documents and regalia. Comparison of French and American systems of job training and placement. Course taught in English, some knowledge of French helpful. Cross listed with IST 206.

**FRN 301. Advanced Grammar and Composition. (3-0-3); I, II.** *Prerequisite: FRN 202 or consent of instructor.* In-depth analysis of grammatical structures and stylistics. Writing practice in a variety of styles and modes, emphasizing clarity and expression.

**FRN 302. Advanced Phonetics and Conversation. (3-0-3); II.** *Prerequisite: FRN 202 or consent of instructor.* In-depth analysis of phonology and articulation. Speaking practice in a variety of styles, emphasizing corrective pronunciation and fluency. May be taken two times for credit.

**FRN 303. Survey of French Literature I. (3-0-3); on demand.** *Prerequisite: FRN 202 or consent of instructor.* A survey of major works and authors in French literature up to 1750, including the following periods: Medieval, Renaissance, Baroque, Classicism, and Enlightenment.

**FRN 304. Survey of French Literature II. (3-0-3); on demand.** *Prerequisite: FRN 202 or consent of instructor.* A survey of major authors from the French Revolution to the present, including the following movements: Pre-Romanticism, Romanticism, Realism, Symbolism, Modernism, Surrealism, Existentialism, Absurdism, and Post-Modernism.

**FRN 402. Advanced French Conversation. (1-0-1); on demand.** *Prerequisite: FRN 301 or consent of instructor.* Analysis and imitation of native speech patterns. Practice in aural/oral communication for a variety of situations. May be taken three times for credit.

**FRN 403. Seminar in French Literature I. (3-0-3); on demand.** *Prerequisite: FRN 303 or 304 or consent of instructor.* A seminar on an author, genre, or period in Medieval or Early Modern French literature (up to 1750). May be taken three times for credit.

**FRN 404. Seminar in French Literature II. (3-0-3); on demand.** *Prerequisite: FRN 303 or 304 or consent of instructor.* A seminar on an author, genre, or period in modern French literature (after 1750) such as film. May be taken three times for credit.

**FRN 476. Directed Studies. (1 to 3 hrs.); on demand.** *Prerequisites: consent of instructor and department chair.* This course is a directed study in French for undergraduate French majors. Each request for the course will be considered on its own merits in relation to the special need of the student. May be taken three times for credit.

**FRN 499C. Senior Collegium in French. (3-0-3); I.** *Prerequisites: senior standing and 18 hours in French courses, including FRN 403 or 404, or consent of the French faculty.* An integrative capstone course in French. *This course satisfies the integrative component for general education.*

**FRN 505. Linguistics and Language Teaching. (3 to 6 hrs); on demand.** *Prerequisite: Admission to the Teacher Education Program or to the MAT program.* The application of current linguistic theories to the methodology of Teaching French and Spanish; micro-teaching practice and field experiences in the four skills, grammar, and culture. The six-credit-hour course for undergraduates includes 30 clock hours of field experience (Grades P-12). Field experience is not required for graduate students in the MAT program; they must elect the 3 hour option.

**FRN 550. Reading French I. (3-0-3); on demand.** *Prerequisite: consent of instructor.* Intensive practice in reading of the French language, with rapid and correct idiomatic translation as the aim.

**FRN 576. Directed Studies. (1 to 3 hrs.); on demand.** *Prerequisites: consent of instructor and department chair.* This course is a directed study in French for the advanced undergraduate and the graduate student. Each request for the course will be considered on its own merits in relation to the special needs of the student. May be taken three times for credit.

**FRN 599. Special Courses. (1 to 3 hrs.); on demand.** *Prerequisites: variable.* These courses are usually specialized offerings in French for the advanced undergraduate and the graduate student. The purpose of these courses is to enhance the existing program in French. May be taken three times for credit.

## Geography

**GEO 100. Fundamentals of Geography. (3-0-3); I, II, III.** Investigation of global patterns and processes with focus placed on both physical and cultural environmental aspects. The approach is issue oriented and must involve integration of information from a variety of disciplines in order to gain understanding and to suggest solutions. *This course satisfies area studies-social and behavioral sciences for general education.*

**GEO 101. Physical Geography. (3-0-3); I, II.** Physical elements of the earth and their distribution; weather, climate, landforms, earth materials, water resources, and natural vegetation analyzed and interpreted as elements of human habitation; correlated field trips and laboratory studies. *This course satisfies the general education area studies-natural and mathematical sciences.*

**GEO 201. Map Interpretation and Analysis. (2-1-3), I.** An introduction to the basic concepts of spatial analysis and applications of analytical techniques to geographically referenced information. Discussion will center on types of spatial data, data collection, presentation, and basic techniques for analyzing and mapping spatial distributions.

**GEO 202. Basic Computer Techniques in Regional Analysis. (2-2-3); II.** *Prerequisites: SOC 101 (Computer Enhanced) or MATH 152 or ACT Math subscore of 20 or higher.* An introduction to the basic concepts of computers and systems structures. The basic skills of spreadsheet analysis and data base management tools will be introduced along with advanced word processing and integration of graphics. The more specific graphing, statistics, and mapping tools needed for regional analysis will also be introduced. Internet communications and the method of transmitting and receiving data will be discussed. Cross listed with RAPP 202.

**GEO 211. Economic Geography. (3-0-3); II.** World commodities and their regional distribution. Analysis of land uses, agriculture, manufacturing, and extractive industries against a background of natural cultural environments; consideration of economic factors in current international affairs.

**GEO 241. United States and Canada. (3-0-3); I.** Major land-use regions of the United States and Canada, their physical and cultural landscapes. Cross listed with IST 241.

**GEO 300. World Geography. (3-0-3); I, II.** A general survey of the human and physical geography of the major regions of the world with a concentration on development. Emphasis is on the interaction between individuals and the physical and cultural landscape in various settings. *This course satisfies the area studies-social and behavioral sciences for general education.* Cross listed with IST 300.

**GEO 305. Cultural Geography. (3-0-3); on demand.** Analysis of the role of culture in the formation of landscape patterns. This

includes an introduction to geographical approaches to landscape evolution, diffusion processes, identity, nature, culture regions, and environmental perception.

**GEO 306. Geography of World Population. (3-0-3); on demand.** This course will familiarize students with the geographic distribution, growth dynamics, and migration processes of human populations. Students will gain insight into the causes and outcomes of population growth and decline through examination of population theories and selected case studies.

**GEO 310. Australia. (3-0-3); on demand.** Resources of Australia, New Zealand, and islands of the Pacific; significance of position and political connection of these lands. Cross listed with IST 310.

**GEO 311. Geography of the Global Economy. (3-0-3); on demand.** Spatial analysis of higher level economic activities. Focus is on wholesaling, interregional and international trade and transportation, producer services, and investment. Cross listed with IST 311.

**GEO 315. Urban Geography. (3-0-3); on demand.** A survey of urban evolution, urbanization, economic structure, land use, and urban planning.

**GEO 316. Dynamic Landscapes and Land Use. (3-0-3); on demand.** Geographic perspectives on the ways in which humans employ the land and its resources. Consideration is given to human and physical systems that influence land cover and land use change.

**GEO 320. Latin America. (3-0-3); on demand.** The geographic study of Mexico, the Central American Republics, the islands of the Caribbean, and South America.

**GEO 326. Cuba and the Caribbean. (3-0-3); on demand.** The people and places of the Caribbean basin with a concentration on climate, culture, economics and tourism. A special focus will address the dynamics of Cuban socioeconomic development. Cross listed with IST 326.

**GEO 328. Africa. (3-0-3); on demand.** Resources, both natural and cultural; changing political conditions and affiliations of African countries, recognition of, and reasons for, the growing importance of this continent in world affairs. Geographic factors in the economic, social, and political structure of Europe; emphasis on natural regions, resource distribution, and industrial development. Cross listed with IST 328.

**GEO 341. Appalachia. (3-0-3); on demand.** A geographic analysis of the various physical and human elements of the Appalachian Highlands. Emphasis is placed on the relationship of the physical environment to human activities in the region.

**GEO 344. Kentucky. (3-0-3); on demand.** Physiographic divisions and subdivisions; interpretations of natural features; occupations and land use; a survey of political units and consideration of traditions and potentialities.

**GEO 345. Global Environmental Issues. (3-0-3); on demand.** *Prerequisite: GEO 101 or consent of instructor.* The study of environmental concepts, issues and dynamics from a spatial and geographic perspective.

**GEO 349. Introduction to GIS/Cartography. (3-0-3); on demand.** History of map-making; properties and qualities of maps; characteristics of map projections; construction of basic projections; basic techniques of mapping spatial data.

**GEO 351. Geographic Information Systems. (3-0-3); on demand.** *Prerequisite: GEO 349 or consent of instructor.* This course addresess selected layers of spatial data for the base and body of maps, and includes field mapping techniques and digital map development and reproduction.

**GEO 353. GIS Applications. (3-0-3); on demand.** *Prerequisite: GEO 349 or consent of instructor.* This course will familiarize students with the different types of projects and questions that Geographic Information Systems can be used to address. Students will gain an understanding of different techniques through real-world examples and hands-on practice.

**GEO 355. Remote Sensing of Environment. (2-2-3); on demand.** Introduction to principles, techniques, and applications of remotely sensed data. Provides training needed to map and monitor the environment through digital image processing of satellite data and air photos. The course will develop abilities for inventory, mapping, and monitoring of land use, vegetation, and other geographic features.

**GEO 360. Physical Geography of North America. (3-0-3); on demand.** *Prerequisite: GEO 101 or GEOS 108.* Description and detailed analysis of the physiographic provinces. An explanation and interpretation of surface features and their evolution.

**GEO 361. The World of Caves. 3-0-3); on demand.** *Prerequisites: GEO 101 or GEOS 106 or consent of instructor.* Introduction to the physical processes that create cavern systems and produce a characteristic surface landscape with sinkholes, sinking streams, and springs, known as "karst" terrain. Course includes field trips to several cave regions in Kentucky.

**GEO 366. Political Geography. (3-0-3); on demand.** A study of principles and concepts of political geography and their application to understanding the variation of political phenomena from place to place on earth. Cross listed with GOVT 372.

**GEO 370. Geography of World Religions. (3-0-3); on demand.** *Prerequisite: GEO 100 or 300 or consent of instructor.* Analysis of the distributions and geographic patterns of modern religions. Particular attention is paid to the geographic patterns that were created as a result of and that helped to create the rituals and traditions of the major world religions. Cross listed with IST 324.

**GEO 383. Asia. (3-0-3); on demand.** The human-land relations characterizing this large and diverse region. An evaluation of a continent in the midst of change in terms of geographic potentials. Cross listed with IST 383.

**GEO 385. The Middle East. (3-0-3); on demand.** A study of the Middle East, its neighbors, and Islam with a focus on the physical resources, religious divisions, cultural groups and the geopolitics of the region. Cross listed with IST 385.

**GEO 390. Weather and Climate. (3-0-3); on demand.** *Prerequisite: GEO 101 or consent of instructor.* Introduction to the physical elements of weather and climate; classifications of types and their distribution, with particular reference to the effects of climate on the earth's physical and cultural landscapes.

**GEO 399. Selected Topics in Geography. (1 to 4 hrs.); on demand.** Special courses which supplement regular course offerings. May be repeated if the subtitle indicates a different course is being offered. Additional prerequisites, if any, will depend upon the course offered.

**GEO 476. Special Problems. (1 to 3 hours); on demand.** *Prerequisite: consent of instructor.* Research project or directed readings on a special topic developed with the instructor.

**GEO 495. Internship to Geography. (3 to 12 hours); on demand.** *Prerequisite: nine hours of geography courses and approval of internship coordinator.* A supervised work study expe-

rience involving a field within geography. Only six hours will count toward geography major.

**GEO 499C. Senior Seminar in Geography. (3-0-3); II.** A course intended for geography majors and minors with senior status and at least 21 hours in geography. Students will conduct quantitative research projects, including written and oral presentations. Course examines professional and graduate opportunities in geography. *This course satisfies the integrative component for general education*.

**GEO 502. Geographic Factors and Concepts. (3-0-3); on demand.** A general survey of the various aspects of the field of geography. Designed for beginning teachers and other students lacking an adequate background for advanced work in geography.

**GEO 505. Conservation of Natural Resources. (3-0-3); on demand.** Natural resources basic to human welfare; emphasis on lands, water, minerals, forests, and wildlife, including their interrelationships. Field trips are required.

**GEO 510. Urban Geography. (3-0-3); on demand.** Origin and development of cities, urban ecology, central place theory, functional classifications, and a consideration of site, situation, and land utilization of selected cites.

**GEO 550. Geography for Teachers. (3-0-3); on demand.** A study of the basic concepts, materials, and techniques for the teaching of geography.

**GEO 599. Selected Topics in Geography. (1 to 4 hrs.); on demand.** Credit toward degree program must be approved by student's advisor. Special courses which supplement regular course offerings. May be repeated if the subtitle indicates a different course is being offered. Additional prerequisites, if any, will depend upon the course offered.

### Geoscience

**GEOS 106. Introduction to Geology. (3-0-3); I, II, III.** General introduction to the materials, structures, and physical processes of earth. Emphasis on socioeconomic implications of geologic hazards, earth resource management, and waste disposal/treatment. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**GEOS 108. Physical Geology. (3-2-4); I, II.** Earth materials, structures, and processes for geology majors and others who wish to take upper division GEOS classes. Lab provides hands-on experience in rock and mineral identification and the use and interpretation of topographic and geologic maps. *This course satisfies area studies-natural and mathematical sciences for general education.*

**GEOS 199. Selected Topics. (1 to 6 hrs.); on demand.**

***GEOS 200. Coal Mining Geology. (3-0-3); on demand.** *Prerequisite: GEOS 108.* Study of coal and coal-bearing rocks with applications to surface and underground mining.

***GEOS 201. Historical Geology. (2-2-3); II.** *Prerequisite: GEOS 108.* Introduction to the geologic (rock) record of major physical and biological events in Earth's evolution.

**GEOS 239. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: consent of department.* Participation in supervised work experience in a professional environment.

**GEOS 240. Oceans. (3-0-3); I.** General introduction to marine geology, chemical oceanography, physical oceanography and marine biology.

**GEOS 262. Mineralogy. (2-4-4); I, alternate years.** *Prerequisite: GEOS 108 or CHEM 112 or 201.* Physical and chemical properties of minerals, chemical, optical, and X-ray methods of identification; systematic survey of common mineral groups.

***GEOS 276. Geologic Methods. (2-2-3); I, alternate years.** *Prerequisite: GEOS 201 or consent of instructor.* Basic field office and laboratory techniques and instruments used in geologic studies.

**GEOS 299. Selected Topics. (1 to 6 hrs.); on demand.**

**GEOS 300. Petrology. (3-2-4); II, alternate years.** *Prerequisite: GEOS 262 or consent of instructor.* Modes of occurrence and origins of igneous, metamorphic and sedimentary rocks and methods of identifying and classifying rocks.

**GEOS 303. Planetary Geology. (3-0-3); I, alternate years.** *Prerequisites: GEOS 108 and MATH 093 or higher, or an ACT math subscore of 18 or greater.* A study of the processes affecting planetary origins and evolution, with an emphasis on processes uncommon on earth (impacts, geology of icy bodies, planetary rings, etc.), particularly in the outer regions of the solar system. The processes of planetary exploration and the various methods of data gathering from interplanetary probes will be examined.

***GEOS 315. Sedimentation and Stratigraphy. (2-4-4); I, alternate years.** *Prerequisite: GEOS 201.* Origins and characteristics of sediments, sedimentary structures, depositional environments, facies, systems tracts, sequences and sedimentary basins. Lab provides hands-on experience in sediment analysis and techniques used in reconstructing stratal geometries.

***GEOS 325. Structural Geology. (3-2-4); II, alternate years.** *Prerequisites: GEOS 201 and MATH 141 (or equivalent).* Geologic structures, rock mechanics and geometrical techniques used in descriptive analysis. Emphasis on faults, folds, shear zones, cleavage, foliation and lineation.

**GEOS 339. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: GEOS 239 and consent of department.* Participation in supervised work experience in a professional environment.

***GEOS 350. Geomorphology. (2-2-3); I, alternate years.** *Prerequisite: GEOS 108.* Landforms and geologic processes that shape Earth's surface. Lab emphasizes use of topographic maps, aerial photographs and remotely sensed images in landform recognition and interpretation.

***GEOS 376. Environmental Geology. (2-2-3); II.** *Prerequisite: GEOS 108 and MATH 135 or higher.* Interaction of humans with surface and near-surface geological environments. Applies geological principles and techniques to problems associated with natural and anthropogenic geologic hazards, disposal/treatment of human and industrial wastes, and earth resource management.

***GEOS 379. Invertebrate Paleontology. (2-4-4); I, alternate years.** *Prerequisites: GEOS 201, BIOL 210 or GEOS 410.* Invertebrate animals, their morphology, classification, paleoecology, phylogeny, and stratigraphic succession; faunal assemblages and research techniques.

**GEOS 399. Selected Topics (1 to 6 hrs.); on demand.**

***GEOS 410. Geological History of Plants and Animals. (2-2-3); on demand.** *Prerequisites: BIOL 210 and 215 or GEOS 201.* Evolutionary history of plants and animals throughout geological time.

***GEOS 413. Micropaleontology. (2-2-3); on demand.** *Prerequisite: GEOS 201.* Collection, preparation, microscopic investigation, classification, paleocology, and stratigraphic succession of microfossils.

**GEOS 415. History of Geology. (2-0-2); on demand.** Development of geological thought; important persons and their contributions to our understanding of Earth.

**GEOS 420. Optical Mineralogy. (2-2-3); on demand.** *Prerequisite: GEOS 262 or consent of instructor.* Behavior of light in isotropic and anisotropic minerals; identification of minerals with polarizing microscope.

**GEOS 425. Hydrogeology. (2-2-3); I, alternate years.** *Prerequisites: GEOS 108, GEOS 200 or higher, and MATH 152; Co-requisite: CHEM 112 or consent of instructor.* Algebra-based course in applied ground water concerning the origin and movement of ground water, aquifers, behavior of pumped wells, general water chemistry and water quality, and ground water contamination.

**GEOS 430. Low-Temperature Geochemistry. (2-2-3); II, alternate years.** *Prerequisites: CHEM 112, GEOS 108 and 300 or consent of instructor.* Chemical reactions between natural waters, atmospheric gases and earth materials in surface and near-surface environments.

**GEOS 439. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: GEOS 339 and consent of department.* Participation in supervised work experience in a professional environment. .

***GEOS 450. Economic Geology. (3-0-3); on demand.** *Prerequisite: GEOS 262 or consent of instructor.* Formation and occurrence of major metallic and nonmetallic mineral deposits of the world.

**GEOS 476. Special Problems. (1 to 6 hrs.); I, II, III.** *Prerequisite: consent of instructor.* Topic to be approved prior to registration.

**GEOS 499. Selected Topics. (1 to 6 hrs.); on demand.**

**GEOS 599. Selected Topics. (1 to 6 hrs.); on demand.**

*Field trip required or recommended.

## German

**GER 101. Beginning German I. (3-0-3); on demand.** Fundamentals of structure: basic vocabulary, reading, writing, pronunciation and some conversation.

**GER 102. Beginning German II. (3-0-3); on demand.** A continuation of GER 101.

**GER 201. Intermediate German I. (3-0-3); on demand.** A review of grammar and pronunciation, with emphasis on reading of contemporary writings.

**GER 202. Intermediate German II. (3-0-3); on demand.** *Prerequisite: GER 201.* A continuation of GER 201.

**GER 203. Expository German. (3-0-3); on demand.** Techniques of reading for accurate information in expository writing in the natural and social sciences and the humanities.

**GER 301. Grammar and Conversation. (3-0-3); on demand.** Further development of language skills. Extensive experience in the language laboratory is required.

**GER 302. Composition and Conversation. (3-0-3); on demand.** *Prerequisite: GER 301 or consent of instructor.* A continuation of GER 301 with greater emphasis on stylistics.

## Government

**GOVT 141. United States Government. (3-0-3); I, II, III.** A study of the Constitution; public opinion, interest groups, and political parties; the organization and operation of national government; and domestic and foreign policy. *This course satisfies area studies-social and behavioral sciences for general education.*

**GOVT 180. Introduction to Political Theory. (3-0-3); I, II.** An introductory course in political philosophy with an emphasis on familiarity with concepts of human nature, society, democracy, and revolution. *This course satisfies the area studies-humanities for general education.Cross listed with WST 210.*

**GOVT 230. Introduction to Comparative Politics. (3-0-3); I, II.** An introduction to the concepts and themes of comparative government, showing the evolution of political systems, and their response to problems of organization, order and governance. *This course satisfies the area studies-social and behavioral sciences requirement.*

**GOVT 242. State and Local Government. (3-0-3); I, II.** A study of the nature, organization, powers, and functions of American state and local governments.

**GOVT 289. Methods of Political Inquiry. (3-0-3); I, II.** *Prerequisite: GOVT 141, 180, and 230. CIS 101 recommended.* An introduction to the basic concepts and methods of the logic of political inquiry and empirical research, with an emphasis on understanding the fundamental perspectives of political inquiry and the use of basic empirical and computer techniques to conduct political inquiry.

**GOVT 301. Comparative Politics of Development. (3-0-3); I, alternate years.** *Prerequisites: GOVT 230 and 289.* Thematic study of political, economic, and social problems in developing and newly industrialized countries, with emphasis on the politics of underdevelopment, state autonomy, and development strategies.

**GOVT 302. Politics of Culture. (3-0-3); II, alternate years.** *Prerequisite: GOVT 289.* A study of the relationship between a society's ideas and practices of the good, the true, and the beautiful and its ideas about politics and political life.

**GOVT 303. Comparative Constitutional Law and Politics. (3-0-3); I, alternate years.** *Prerequisite: GOVT 230 and 289.* A comparative cross-national study of constitutional law and politics with particular emphasis on governmental powers and individual rights issues in the United States, Great Britain, Canada, and Germany. Cross listed with IST 334.

**GOVT 304. Politics of Transition. (3-0-3); II, alternate years.** *Prerequisites: GOVT 230 and 289.* Analysis of change in political structures and institutions including changes from military to democratic forms and the impact of economic liberalization.

**GOVT 305. Political Behavior. (3-0-3); on demand.** *Prerequisites: GOVT 141 and 289.* A study of mass and elite political behavior including political socialization, attitudes, and opinions; voting behavior; and government decision making.

**GOVT 312. Western Political Thought. (3-0-3); I.** *Prerequisite: GOVT 180 and 289.* A study of the political ideas of ancient, medieval, and modern political thinkers including Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, Mill, and Marx.

**GOVT 314. American Political Thought. (3-0-3); II, alternate years.** *Prerequisites: GOVT 141, 180, and 289.* A study of American political ideas as they are expressed in a variety of sources, including pamphlets, literature, poetry, autobiography, and political philosophy.

**GOVT 316. Modern Ideologies. (3-0-3); II, alternate years.** *Prerequisites: GOVT 180 and 289.* A study of the doctrines of liberalism, conservatism, socialism, fascism, and anarchism as political ideas, their major proponents, and their use as tools of political action.

**GOVT 317. Feminist Political Thought. (3-0-3); I, alternate years.** *Prerequisites: GOVT 180 and 289.* History and development of feminist political thought. Perspectives include those of Fuller, Millet, Collins, MacKinnon, and Irigiray. Cross listed with WST 317.

**GOVT 318. Twentieth Century Political Thought. (3-0-3); II.** *Prerequisites: GOVT 180 and 289.* A study of the major develop-

ments in twentieth-century social and political theory, including trends in liberal thought, critical theory, psychoanalysis, post-modernism, and conservatism.

**GOVT 321. Constitutional Law: Governmental Powers. (3-0-3); I.** *Prerequisites: GOVT 141 and 289.* A study of the development, origins, and current character of the U.S. Constitution, with particular attention to separation of powers and federal-state relations.

**GOVT 322. Courts and Civil Liberties. (3-0-3); I.** *Prerequisites: GOVT 141 and 289.* A study of the federal and state court systems and of the Bill of Rights and the Fourteenth Amendment, with particular attention to questions of freedom of speech, religion, and association; due process of law; privacy; and discrimination.

**GOVT 324. Environmental Law and Policy. (3-0-3); I.** *Prerequisite: GOVT 141.* A study of the political and legal aspects of major environmental policies including the impact of energy policies on environmental health and safety.

**GOVT 328. Law, Government and Privacy in the Computer Age. (3-0-3); on demand.** *Prerequisite: GOVT 289.* An in-depth study of information gathering policies and procedures with an examination of the technologies, agencies and organizations which shape them. Privacy legislation and competing values affecting information policy will be discussed, and students will have the opportunity to develop skill in on-line research in government documents.

**GOVT 329. North American Politics: United States and Canada. (3-0-3); I, III.** A comparative study of the governments and politics of the United States and Canada, their political cultures, public opinion, interest groups and political parties; the evolution, structure, and operation of their governments, the behavior of their public officials, and their public policies. Cross listed with IST 329.

**GOVT 330. Parliamentary Democracies. (3-0-3); I, alternate years.** *Prerequisites: GOVT 230 and 289.* A study of the constitutional development, political organization, legislatures, administration, and courts of the governments of the United Kingdom, France, and Germany.

**GOVT 331. Politics of the Middle East and North Africa. (3-0-3); II, alternate years.** *Prerequisites: GOVT 230 and 289.* Analysis of major themes and cases in Middle Eastern/North African Politics. Includes issues of religion, ethnic conflict, modernization, and democratization. Cross listed with IST 302.

**GOVT 332. Politics of Latin America and the Caribbean. (3-0-3); I, alternate years.** *Prerequisites: GOVT 230 and 289.* Analysis of major themes and cases in Latin American/Caribbean politics. Includes issues of debt, development, and democratization. Cross listed with IST 303.

**GOVT 333. Politics of Sub-Saharan Africa. (3-0-3); on demand.** *Prerequisites: GOVT 230 and 289.* Analysis of major themes and cases in African politics. Includes issues of debt, development, and democratization. Cross listed with IST 304.

**GOVT 334. Russia and Eastern European Governments. (3-0-3); II.** *Prerequisites: GOVT 230 and 289.* A study of the Russian political system; its ideological base, governing structures, and political processes; and an analysis of the major Eastern European governments and their political life. Cross listed with IST 338.

**GOVT 337. Politics of Asia. (3-0-3); on demand.** *Prerequisites: GOVT 230 and 289.* Survey of politics in China, Japan, India, and Vietnam. Emphasis on themes of traditional order and its collapse and persistence. Development of Asian nationalism and clash between Marxist revolution and evolutionary democracy. Cross listed with IST 337.

**GOVT 342. The American Presidency. (3-0-3); I, alternate years.** *Prerequisites: GOVT 141 and 289.* A study of the presidency in American politics emphasizing the Constitution, presidential selection, presidential power, interbranch relations, role of the public, psychological theories of the presidency, and presidential policy-making.

**GOVT 343. Political Parties and Elections. (3-0-3); I, alternate years.** *Prerequisites: GOVT 141 and 289.* A study of the nature and role of parties and interest groups; party structure and development, functions of primaries, nomination system and campaign methods, and policy making.

**GOVT 344. Kentucky Government. (3-0-3); I, alternate years.** *Prerequisite: GOVT 289.* A study of the nature, organization, powers, and functions of Kentucky state government.

**GOVT 347. American Public Policy. (3-0-3); II, alternate years.** *Prerequisites: GOVT 141 and 289.* A study of major national domestic and foreign policy problems, including health, education, labor, transportation, defense, and national security, focusing on their nature, formulation, implementation, and impact.

**GOVT 349. African-American Politics. (3-0-3); II, alternate years.** *Prerequisites: GOVT 141 and 289.* A study of twentieth century African-American legal and political action with particular emphasis on the Civil Rights Movement and political conflicts over racial equality in education, public accommodations, voting, housing, and employment.

**GOVT 351. Public Administration. (3-0-3); on demand.** *Prerequisites: GOVT 141 and 289.* A study of the historical evolution, theory of organization and administration, and the personnel, financial, and legal aspects of public administration.

**GOVT 353. Public Personnel Administration. (3-0-3); on demand.** *Prerequisites: GOVT 289 and 351.* A study of personnel utilization; concepts, principles and practice of the merit system; leadership; decision-making processes; and motivation of public employees.

**GOVT 354. Congress and the Federal Bureaucracy. (3-0-3); II, alternate years.** *Prerequisites: GOVT 141 and 289.* A study of the role of Congress and federal bureaucracy in American government. Emphasis is placed on historical and comparative analysis of these institutions since 1950.

**GOVT 355. Women and Politics. (3-0-3); II, alternate years.** *Prerequisites: GOVT 141 and 289.* Participation of women in American government. Gender differences in political attitudes and voting; impact of electoral laws on election of women; and impact of women on creation and implementation of policy. Cross listed with WST 355.

**GOVT 360. United Nations and World Organizations. (3-0-3); II.** *Prerequisites: GOVT 230 and 289.* A study of the evolution of international organizations from the League of Nations to the United Nations and of the contemporary problems and issues of present world organizations. Cross listed with IST 360.

**GOVT 362. Current World Problems. (3-0-3); I, III.** A study of major international problems since World War II, with emphasis on Russian-American relations, regional political conflicts, and major world issues including food, population, and human rights policies. *This course satisfies area studies-social and behavioral sciences for general education.* Cross listed with IST 362.

**GOVT 364. International Relations. (3-0-3); I, alternate years.** *Prerequisite: GOVT 289 or consent of instructor.* A study of international relationships in theory and practice; concepts of power and its application; machinery of foreign policy making and implementation; world politics and law; and the world community. Cross listed with IST 306.

**GOVT 367. Politics of International Economic Relations. (3-0-3); I, alternate years.** *Prerequisite: GOVT 289.* Study of essential ,issues and contending analytical frameworks. Includes examination of politics of economic relations of the U.S., Japan, Europe, and between the "North" and "South." Cross listed with IST 307.

**GOVT 368. Human Rights and Global Justice. (3-0-3); I.** *Prerequisite: GOVT 289.* A study of the human rights idea; human rights movement; national and international human rights charters and organizations; political, civil, social, and economic rights; rights of women, children, and minorities; and human rights remedies for collective violence, genocide and terrorism. Cross listed with IST 368.

**GOVT 372. Political Geography. (3-0-3); on demand.** *Prerequisite: GOVT 289.* A study of the principles and concepts of political geography and their application to an understanding of political phenomenon world wide. Cross listed with GEO 366.

**GOVT 373. Introduction to Women's Studies. (3-0-3); on demand.** *Prerequisites: completion of the (nine hour) general education requirement in English and literature or consent of instructor.* A survey course designed to develop students' awareness of women's literature, poetry, contributions to science, and history, as well as an introduction to feminist theory. Women scholars of all nations and races will be highlighted.

**GOVT 389. Honors Seminar. (3-0-3); on demand.** *Prerequisite: open only to juniors and seniors in the Honors Program.* An analysis and discussion of political ideas, institutions, and policies. Topics will vary from semester to semester.

**GOVT 399. Selected Topics in Government. (3-0-3); on demand.** *Prerequisite: GOVT 289.* Special courses which supplement regular course offerings. May be repeated if the subtitle indicates a different course is being offered.

**GOVT 476. Special Problems in Government. (1 to 3 hrs.); on demand.** *Prerequisites: GOVT 289, consent of instructor, and senior standing.* Original research project or readings in a particular subject area of government and politics. Open only to Government majors and minors with senior standing.

**GOVT 492. Washington Center Seminar Program. (3 hrs.); I, II, III.** *Prerequisites: GOVT 141 and junior standing. Prior approval of department chair is required.* A two-week intensive study course in Washington, DC, during January, May, or August on major current legal, political, domestic and foreign policy issues.

**GOVT 494. Washington Center Internship Program. (15 hrs.); I, II, III.** *Prerequisites: GOVT 141 and junior standing. Prior approval of department chair is required.* A semester-long work study experience in a congressional or administrative agency office in Washington, DC. Only six semester hours of this internship may be used in satisfaction of Government major or minor elective credit.

**GOVT 496. Frankfort Legislative Intern Program. (15 hrs.).** *Prerequisite: prior approval of department chair is required.* Five months of work study experience with the Kentucky General Assembly during its biennial sessions. Open to all MSU students, but the selection of interns will be made by program personnel.

**GOVT 498. Local, State, National, and International Government Internship. (3 to 15 hrs.); on demand.** *Prerequisites: related course work in GOVT recommended, and prior approval of GOVT internship coordinator.* Only six hours will count toward government major or minor. A supervised work study experience in local, state, national, and international government.

**GOVT 499C. Senior Seminar. (3-0-3); I, II.** *Prerequisites: GOVT 289 and senior standing.* A capstone course for senior government majors in which students will read and analyze specialized literature in political science, conduct research projects, and formally present their research findings. *This course satisfies the integrative component for general education.*

**GOVT 576. Directed Study in Government. (1 to 3 hrs.); on demand.** *Prerequisites: GOVT 289, consent of instructor, and senior or graduate standing.* Original research project or readings in a particular subject area of government and politics.

### History

**HIS 201. Global Studies. (3-0-3); I, II.** This course will introduce students to the study of world cultures and provide an understanding of contemporary global issues. Using historical and literary texts, CD-ROM technology and films in a multimedia approach, students will examine selected social, political, economic, and cultural phenomena in the context of world history. *This course satisfies the area studies-humanities for general education.* Cross listed with IST 201.

**HIS 202. American Studies. (3-0-3); I, II.** Entry level course using historical and literary texts and multimedia approaches to familiarize students with the nation's social, political, economic, and cultural development. *This course satisfies the area studies-humanities for general education.*

**HIS 210. Early World Civilization. (3-0-3); I, II.** A study of the history, culture, and ideas of early world cultures, beginning with the oldest civilizations of the Ancient Near East and ending with the Age of Exploration and Colonization. This course examines the major geographical areas thematically, concentrating on the impact of the major world religions and the relationships between peoples as well as the political, economic, social, and technological development of these world religions. *This course satisfies the area studies-social and behavioral sciences for general education*

**HIS 220. Early American History. (3-0-3); I, II, III.** Analysis of historic themes and issues from the Age of Discovery through the Civil War.

**HIS 250. Practicing History. (3-0-3); I, II.** *Prerequisite: consent of department.* Entry level course for majors and minors. Students complete book reviews, automated library searches, discuss career options, learn about historiography, and use historical methods in writing and oral communication. Student portfolios are initiated in this class.

**HIS 300. Colonial America. (3-0-3); on demand.** *Prerequisite: HIS 250.* Critical analysis of events from the Age of Discovery to the Revolutionary War.

**HIS 301. American Revolution and Federal Period. (3-0-3); on demand.** *Prerequisite: HIS 250.* Critical analysis of events from the American Revolution to the Jeffersonian era.

**HIS 302. The Age of Jackson. (3-0-3); on demand.** *Prerequisite: HIS 250.* Analysis of national, political, and social movements when America sought compromise but found Civil War.

**HIS 303. The Civil War and Reconstruction. (3-0-3); II.** *Prerequisite: HIS 250.* The role of the southern states in the rebirth of the American nation.

**HIS 306. The United States, 1939-present. (3-0-3); on demand.** *Prerequisite: HIS 250 or consent of instructor.* America from World War II to the end of the Cold War. Emphasis is placed on social conditions and issues.

**HIS 307. Vietnam and Watergate. (3-0-3); II.** *Prerequisite: HIS 250.* Study of the Vietnam War and the Watergate scandal in the context of policy developments in America since 1945.

**HIS 308. The U. S. in the Industrial Age, 1877-1939. (3-0-3); on demand.** *Prerequisite: HIS 250 or consent of instructor.* History of the United States from the end of Reconstruction until entry into World War II. The course focuses on industrialization and the expansion of corporate life, the social, cultural, and demographic changes (especially migration and immigration) that accompanied industrial and commercial transformation, and social and political movements of the Gilded Age, Progressive, Depression, and New Deal eras.

**HIS 310. African-American History. (3-0-3); I.** *Prerequisite: HIS 250.* African-American history from the origins of slavery to contemporary times.

**HIS 311. Native American History. (3-0-3); II.** *Prerequisite: HIS 250.* Historical development of native Americans from their entrance into this hemisphere to current conditions and issues.

**HIS 312. Women in American History. (3-0-3); II.** *Prerequisite: HIS 250.* Experiences and perceptions of women throughout American history. Significant roles and issues are emphasized. Cross listed with WST 313.

**HIS 313. Religion in American History. (3-0-3); I.** *Prerequisite: HIS 250.* Religion's interaction with facets of American society. The role of religion in molding the nation.

**HIS 317. United States Foreign Relations. (3-0-3); on demand.** *Prerequisite: HIS 250.* Survey of foreign relations of the United States from its conception to United Nations involvement.

**HIS 318. American Military History. (3-0-3); on demand.** *Prerequisite: HIS 250.* Origins, course, and effects of American involvement in war.

**HIS 319. American Life and Thought. (3-0-3); on demand.** *Prerequisite: HIS 250.* Survey of American intellectual heritage from Puritanism to the contemporary era.

**HIS 321. The American Frontier. (3-0-3); I.** *Prerequisite: HIS 250.* The westward movement and the shaping of American life and institutions.

**HIS 322. History of Appalachia. (3-0-3); II.** *Prerequisite: HIS 250.* A social, economic, and political history of the people and the events of the Appalachian Mountains.

**HIS 323. History of Kentucky. (3-0-3); I, II.** Colonial birth to the creation of the Commonwealth with emphasis on constitutional and social development.

**HIS 325. History of the South. (3-0-3); on demand.** *Prerequisite: HIS 250.* A study of southern sectionalism and the ongoing development of regional characteristics.

**HIS 336. History of Canada. (3-0-3); II.** *Prerequisite: consent of instructor.* A study of Canada's intellectual, political, economic, and social development, including its colonial origins, the creation and evolution of its confederation, and the nature of its involvement international affairs. Cross listed with IST 331.

**HIS 351. England to 1688. (3-0-3); I.** *Prerequisite: HIS 250.* The political, social, and economic institutions of England through the fall of the Puritan Commonwealth. Cross listed with IST 351.

**HIS 352. England since 1688. (3-0-3); II.** *Prerequisite: HIS 250.* Study of England from the Restoration to the rise of the British Commonwealth. Cross listed with IST 352.

**HIS 353. Russia to 1917. (3-0-3); I.** *Prerequisite: HIS 250.* The story of Russia from Kievan times to the overthrow of the Romanov dynasty. Cross listed with IST 353.

**HIS 354. Russia since 1917. (3-0-3); II.** *Prerequisite: HIS 250.* Detailed account of Soviet Russia from revolution through the end of the Cold War. Cross listed with IST 354.

**HIS 355. Modern Germany. (3-0-3); on demand.** *Prerequisite: HIS 250.* History of Germany from unification to the present in the context of European and world events. Cross listed with IST 355.

**HIS 356. Medieval Europe. (3-0-3); I.** *Prerequisite: HIS 250.* Western history from the collapse of Rome to the Renaissance of the sixteenth century.

**HIS 357. The Renaissance and Reformation. (3-0-3); II.** *Prerequisite: HIS 250.* A social and intellectual history of the beginning of modern Europe.

**HIS 358. Revolutionary Europe. (3-0-3); on demand.** *Prerequisite: HIS 250.* History of Europe from the Age of Absolutism to the collapse of the Napoleonic Empire. Cross listed with IST 358.

**HIS 359. Nineteenth Century Europe. (3-0-3); on demand.** *Prerequisite: HIS 250.* The politicians, nationalistic trends, and unification movements leading to World War I. Cross listed with IST 359.

**HIS 361. Twentieth Century Europe. (3-0-3); on demand.** *Prerequisite: HIS 250.* Detailed survey of World War II, the Cold War, and contemporary events. Cross listed with IST 361.

**HIS 370. African History. (3-0-3); II.** *Prerequisite: HIS 250.* Focus on early African states, the slave trade era, the rise and fall of imperial empires, and post independence events. Cross listed with IST 370.

**HIS 371. Traditional China. (3-0-3); I.** *Prerequisite: HIS 250.* Survey of early Chinese civilization and its institutions. Cross listed with IST 371.

**HIS 372. Modern China. (3-0-3); II.** *Prerequisite: HIS 250.* Survey of Chinese history since the nineteenth century. Cross listed with IST 372.

**HIS 373. Japanese Civilization. (3-0-3); on demand.** *Prerequisite: HIS 250.* Survey of Japanese history from the beginning of its civilization to its rise as world power. Cross listed with IST 373.

**HIS 374. The Middle East. (3-0-3); on demand.** *Prerequisite: HIS 250.* Survey of the Moslem world beginning with the Eighth Century and culminating in the present Middle Eastern situation. Cross listed with IST 374.

**HIS 376. Ancient History. (3-0-3); on demand.** *Prerequisite: HIS 250.* The earliest civilizations of the Nile and the Fertile Crescent and their impacts on western civilization.

**HIS 377. Twentieth Century Asian Wars. (3-0-3); on demand.** *Prerequisite: HIS 250 or consent of instructor.* History of war in Asia from 1932 until 1975. The course examines the Pacific War, Korean War, Vietnam War, and Cambodian Conflict from the Asian Perspective using a cultural approach. Cross listed with WST 377.

**HIS 379. Latin American History. (3-0-3); on demand.** *Prerequisite: HIS 250.* The Indian background, the rise and fall of the Iberian empires, and major events since independence. Cross listed with IST 379.

**HIS 389. Honors Seminar. (3-0-3); on demand.** *Prerequisite: consent of department.* Analysis of historical events, and circumstances, their origins and effects.

**HIS 399. Selected Topics in History. (3-0-3); I, II.** *Prerequisite: HIS 250 and at least one other 300 level history course.* Required of each history major. Common research effort will be undertaken.

**HIS 451. Curriculum and Instruction for Social Studies. (3-0-3); I.** *Prerequisite: admission to TEP, HIS 250, and completion of 24 of the required 27 hours of 300-level course work . Co-requisite: HIS 499D.* Immerses students in Social Studies Curriculum and Instruction in preparation for professional semester. Paired with HIS 499D, this course provides intense emphasis and preparation for teaching core content and implementation of content teaching skills. Fifteen field hours required Rowan County Senior High School, including at least two hours of whole class teaching. Credits not applied to history major or minor.

**HIS 476. Directed Study. (3-0-3); on demand.** *Prerequisite: consent of department chair.*

**HIS 499C. Senior Seminar in History. (3-0-3); II.** *Prerequisites: senior standing history majors, HIS 250 and 399, or consent of department.* Each student will complete a research project that integrates methodological and substantive aspects of the history discipline. Each student will prepare and present a paper to fellow students and a department committee. Course provides opportunity for review of professional and graduate opportunities. *This course satisfies the integrative component for general education.*

**HIS 499D. Teaching Social Studies. (3-0-3); I.** *Prerequisite: HIS 250. Co-requisites: admission to TEP, HIS 451, completion of all general education requirements and 24 of the required 27 hours of 300-level course work.* Analysis of contemporary strategies and methods for secondary social studies instruction. Course will emphasize KDE standards and education reform. Teaching portfolio initiated with 15 field hours spent in collaboration with a secondary teacher. At least three field hours will be spent in whole class instruction. Credits are not applied to history major or minor. *This course satisfies the integrative component requirement for general education.*

**HIS 576. American History: Directed Readings. (1 to 3 hrs.); on demand.** *Prerequisite: consent of department.*

**HIS 577. European History: Directed Readings. (1 to 3 hrs.); on demand.** *Prerequisite: consent of department.*

**HIS 578. Non-Western History: Directed Readings. (1 to 3 hrs.); on demand.** *Prerequisite: consent of department.*

**HIS 599. Selected Workshop Topics in History (3 hrs.); on demand.** Credit in pursuit of degree programs must be approved by student's advisor and department chair.

## Health

**HLTH 151. Wellness: Theory to Action. (3-0-3); I, II, III.** An understanding of the multifaceted nature of wellness, identify their current health status, and acquire knowledge of methods or techniques which can be used to promote positive change and optimal well-being. *This course satisfies area studies-practical living for general education.*

**HLTH 203. Safety and First Aid. (3-0-3); I, II, III.** Safety education and first aid care for victims of accident or sudden illness. *This course satisfies area studies-practical living for general education.*

**HLTH 205. Psychological Health. (3-0-3); II.** *Prerequisite: PSY 154.* Health psychology: foundations, biopsychosocial factors, psychoneuroimmunology perspective.

**HLTH 206. Principles of Nutrition. (3-0-3); I, II.** Basic description of the elements of human nutrition, their function in the body, and food sources. Guide for healthy nutritional practices and nutritional needs throughout the life cycle. Cross listed with HS 201.

**HLTH 230. Community Health. (3-0-3); I.** *Prerequisite: HLTH 151 and 160.* Foundations of health as applied to the community: population, health promotion, health protection, health services.

**HLTH 301. Health, Safety, and Nutrition for Early Elementary. (3-0-3); I, II, III.** *Prerequisites: admission to TEP and HLTH 151.* Educational theory and methods as applied to teaching health education to young children. Focuses upon content, resources, and methodologies. Laboratory experiences are an integral part of the course.

**HLTH 310. Health and Wellness Promotion. (3-0-3); I.** Emphasis on the study of the continual balancing of the different dimensions and the dynamic pursuit of holistic human needs – physical, spiritual, social, emotional, intellectual and occupational.

**HLTH 360. Family Health. (3-0-3); II.** Family and family living; nature of family, love, marriage preparation, marriage, parenthood issues.

**HLTH 377. Clinical and Field Experiences in School Health (P-12). (0-4-2); I, II.** *Prerequisites: admission to TEP, HLTH 300 and 304.* Clinical and field experiences related to planning, implementing, and evaluating health instruction.

**HLTH 425. Planning, Managing, and Evaluating Health/Wellness Promotion Programs. (3-0-3); II.** *Prerequisites: CIS 101 and HLTH 310.* The course emphasizes knowledge, methods in planning, designing, managing and improving health/wellness promotion programs.

**HLTH 430. Consumer Health. (3-0-3); II.** *Prerequisite: junior or senior standing.* Analysis of the selection, purchase, and use of various health-related products, services, insurance policies, and/or health care facilities which impact individual health throughout the life span.

**HLTH 435. Health Counseling. (3-0-3); III.** *Prerequisites: junior/senior standing and PSY 154.* Focuses on conceptual framework and practical health counseling strategies and skills used in a variety of settings to help individuals initiate and maintain health-orientated behavior changes. Appropriate for individuals who plan to work in schools, human service agencies, private practices, health-care organizations, business, or other environment which work with clients interested in changing life-style health behaviors.

**HLTH 470. Practicum. (0-30-15); I, II.** *Prerequisites: senior standing, and 2.5 or above GPA, and HLTH 499C.* Practical full-time experience under professional supervision in a selected and approved setting.

**HLTH 475. The School Health Program. (3-0-3); I.** All aspects of elementary and secondary level school health: philosophy, organization and administration, environment, services, education, evaluation, the school age child.

**HLTH 477. Field Experience in Health. (0-6-3); I, II, III.** *Prerequisite: HLTH 230.* On-site work experience in a community health setting under qualified supervision. Laboratory experiences are integral part of course.

**HLTH 499C. Senior Seminar in Health Promotion. (3-0-3); I, II (on demand).** *Prerequisite: senior standing in Health Promotion. Students are required to take this course in the fall semester prior to HLTH 470.* The course is designed to document and refine student progress relative to the professional preparation and practice of health promotion. Each student will integrate theory with practice through the design and completion of a health promotion project and a student portfolio. Graduate and professional job opportunities will be explored. Students will complete preparation leading to placement in an approved agency for the HLTH 470 Practicum. *This course satisfies the integrative component in health promotion for general education.*

**HLTH 508. General School Safety. (3-0-3); I, II, III.** Review of principles and practices in establishing and maintaining a healthful and safe school environment.

**HLTH 514. Principles of Epidemiology. (3-0-3); I.** *Prerequisite: senior or graduate classification.* A study of the factors and causes of disease in a population for the purpose of its control and prevention. The course will introduce students to the discipline of epidemiology and its application to public health issues and practices.

**HLTH 518. Use and Abuse of Drugs. (3-0-3); I, II, III.** A survey of the field of psychoactive drugs with emphasis upon behavioral effects of these agents.

**HLTH 576. Special Problems in Health. (1 to 3 hrs.); I, II, III.** *Prerequisite: senior or graduate classification.* Intensive study of approved, specific health problems, under direction of instructor.

**HLTH 599. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in health. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

### Honors

**HON 101. The Age of Classicism. (3-0-3); I.** *Prerequisite: admission to Honors Program.* An interdisciplinary study of great books and influential ideas from Greek and Roman contributions in the humanities and in the natural and social sciences. *This course satisfies three hours of an area studies-humanities, natural and mathematical sciences, or social and behavioral sciences for general education.*

**HON 102. The Age of Faith. (3-0-3); II.** *Prerequisites: admission to Honors Program and HON 101.* An interdisciplinary study of great books and influential ideas of the European Middle Ages, emphasizing contributions in the humanities and in the natural and social sciences. *This course satisfies three hours of an area studies-humanities, natural and mathematical sciences, or social and behavioral sciences for general education.*

**HON 201. The Age of Enlightenment. (3-0-3); I.** *Prerequisites: admission to Honors Program, HON 101 and 102.* An interdisciplinary study of the most important ideas and movements in Sixteenth, Seventeenth, and Eighteenth Century Western culture (literature, art, and music), religion, philosophy, social theory, and science with the emphasis on the achievements of the Age of Enlightenment. *This course satisfies three hours of an area studies-humanities, natural and mathematical sciences, or social and behavioral sciences for general education.*

**HON 202. The Age of Uncertainty. (3-0-3); II.** *Prerequisites: admission to Honors Program and HON 101, 102, and 201.* An interdisciplinary study of great books and influential ideas of the Nineteenth and Twentieth centuries in the humanities and in the natural and social sciences. *This course satisfies three hours of an area studies-humanities, natural and mathematical sciences, or social and behavioral sciences for general education.*

### Health and Physical Education

**HPE 160. Foundations of Heath and Physical Education. (3-0-3). I, II.** History, principles, philosophy, outcomes, standards, and assessments that establish the theoretical foundation of future health and physical education teachers, health and experience science professionals.

**HPE 300. Methods of Teaching Health and Physical Education to Elementary Students. (3 or 6 hrs); I.** *Prerequisite: PHED 212 and admission to TEP.* Educational theory, strategies and methods of teaching health and/or physical education at the elementary level. Emphasis on planning, implementing and evaluating developmentally appropriate programs in HPE. Peer teaching, laboratory experiences and supervised experienced in the public schools are an integral part of the course.

**HPE 301. Classroom Assessment in Health and Physical Education. (3-0-3); I, II.** *Prerequisite: HPE 160.* Methods, techniques, and procedures used in assessment of students in physical education and health education.

**HPE 303. Health and Physical Education in the Secondary School. (3 or 6 hrs). II.** *Prerequisite: PHED 215, PHED 214, and admission to TEP*. Selection and organization of materials and techniques of instruction for secondary school programs. Field/clinical experiences are an integral part of this course.

**HPE 499C. Senior Seminar in Health/Physical Education Teacher Education. (3-0-3); I, II.** *Prerequisites: senior standing and admission the professional semester in education. Co-requisite: EDSE 416*. A culminating experience in which candidates will review and apply the principles, strategies and theories applicable in the P-12 health and/or physical education classroom. Candidates complete a variety of experiences which will allow them to demonstrate mastery of Kentucky's New Teacher Standards.

### Human Sciences

**HS 101. Nutrition and Well Being. (3-0-3); I, II.** The relationship of nutrition to well-being will be studied. Emphasis will be placed on the physiological, socioeconomic, psychological, and political factors influencing food behavior and nutrient intake. Evaluation will be made of current nutrition information by application of basic nutrition principles and scientific reasoning. Individual and group food intakes will be analyzed. *This course satisfies the area studies-practical living for general education.*

**HS 130. Elementary Food Science. (2-2-3); I.** A study of the basic scientific concepts related to foods. Food quality is determined by use of sensory and objective methods of evaluation.

**HS 132. Introduction to Hotel, Restaurant, and Institutional Management. (3-0-3); I.** An introduction to concepts and principles of hospitality operations by type; guest relations, basic management principles; and organizations of hospitality management services.

**HS 136. Dining Room Procedures and Beverage Control. (3-0-3); II, alternate years.** Principles and practices of food and beverage management. Principles of dining room service, supervision, equipment, personnel responsibilities, and customer relations. Beverage control: purchasing, receiving, storing, and issuing procedures.

**HS 141. Introduction to Textiles and Clothing. (2-3-3); I.** An introduction to properties of yarns, fabrics, and finishes as related to use in clothing. Basic principles of clothing construction, selection, alteration and fitting of commercial patterns. Special emphasis will be placed on current technological trends in selection, use and care of sewing equipment.

**HS 200. Family Relations. (3-0-3); I.** Includes the changing roles of all family members' adjustments needed in marriage; family functions through the family life cycle.

**HS 201. Principles of Nutrition. (3-0-3); I, II.** Basic description of the elements of human nutrition, their function in the body, and food sources. Guide for healthy nutritional practices and nutritional needs throughout the life cycle. Cross listed with HLTH 206.

**HS 231. Meal Management. (2-2-3); II.** Food patterns of individuals/population groups. National and international programs toward improved food supply and food habits with focus on prevention and treatment of global malnutrition. Meal planning and service.

**HS 234. Computer Assisted Food Service Management. (2-2-3); I.** A systems approach, including the utilization of software for nutritional analysis, menu planning, food cost accounting, and inventory control.

**HS 239. Cooperative Education. (1 to 12 hrs.); I, II, III.** *Prerequisite: consent of department chair.* A supervised work experience for students planning careers in human sciences upon completion of the associate degree program.

**HS 241. Clothing Production Studio. (2-3-3); alternate years.** *Prerequisite: HS 141 or consent of instructor.* Advanced construction and basic tailoring. Innovative and couture techniques.

**HS 251. Behavior Problems of Children. (3-0-3); I.** A study of the various methods of guiding behavior toward the development of self-discipline. The course will consider the various problems which must be resolved from birth through the early years within the context of specific situations.

**HS 252. Problems in Interior Design. (2-2-3); II, alternate years.** Involves the study of practical experience in selection, arrangement, and presentation of colors, fabrics, furnishings, and cost estimates for a client. Lecture, laboratory, field trips.

**HS 253. Child Growth and Development. (3-2-4); I.** Behavioral characteristics in growth and development; positive approach to child guidance; importance of the role of parents and child care givers. Directed practicum in observation of preschool children.

**HS 254. Preschool Administration. (3-2-4); II, alternate years.** *Prerequisite: HS 253.* The study of the organization and administration of preschool programs; role of parenthood education; supervised experiences in planning and guiding children's activities in a preschool program.

**HS 257. Care and Development: Prenatal, Infants, and Toddlers. (3-0-3); alternate years.** *Prerequisite: HS 253 or consent of instructor.* Prenatal and postnatal care for mothers, development of the fetus and care of the infant through two years of age.

**HS 259. Parent Involvement with Young Children. (3-0-3); II.** Study of effective relations between home and school during the early childhood period. Methods and materials useful in working with parents. Experiences include observation of parent meetings, planning discussion groups, home visits, and parent conferences.

**HS 271. Tourism Planning and Development. (3-0-3); II.** This course will examine the common characteristics and activities of tourism development and identify the needs of planning. It will also emphasize the component of tourism planning and methods of enhancing tourism.

**HS 323. Textiles. (2-2-3); II.** A study of the selection and evaluation of textile products used in apparel, commercial and residential interiors. State and federal regulations, codes, and testing procedures are emphasized. Basic laboratory identification and performance tests are included.

**HS 327. Maternal, Infant, and Child Nutrition. (3-0-3); alternate years.** *Prerequisite: HS 201.* Addresses nutritional needs during pregnancy, lactation, infancy, and early childhood, clinical experience required in health care facilities. Selection, application, and evaluation of nutritional data concerned with infancy and child growth.

**HS 328. Nutrition in the Life Cycle. (2-2-3); alternate years.** *Prerequisite: HS 201.* A study of factors determining nutrient requirements for each of the physiological age groups during the life cycle.

**HS 329. Quantity Food Preparation. (2-5-4); II.** Principles and techniques of quantity food preparation. Use of standardized recipes and institutional equipment. Must be followed by HS 331 in next semester.

**HS 330. Quantity Food Purchasing. (3-0-3); alternate years or concurrently with HS 329.** Institutional purchasing; considers principles and methods of purchasing food and supplies for commercial and institutional food service units with emphasis on specifications, standards, inventory, and factors affecting quality and cost control.

**HS 331. Food Production Management. (1-6-4); II.** *Prerequisite: HS 329 in the preceding semester.* Principles of scheduling and supervision of food production.

**HS 332. Field Experience in Human Sciences. (1 to 4 hrs.); I, II.** Field training in home economics arranged with consent and supervision of the instructor. Student is visited on the job.

**HS 333. Clinical Dietetics. (2-2-3); alternate years.** *Prerequisite: HS 201.* The role of diet in the prevention and treatment of disease. Course will address dietary modifications, menu writing for modified diets, nutritional analysis, and nutritional needs during the life cycle. Clinical experience in health care settings.

**HS 335. Equipment and Facilities Planning. (3-0-3); alternate years.** Selection of equipment and furnishings to meet the needs of different types of food services in relation to function, maintenance, efficient layout, specifications, and material. Each student plans and designs a menu and physical layout for a food service unit.

**HS 336. Institutional Organization and Management. (3-0-3); alternate years.** Administrative functions within a food service system. Emphasis on management responsibilities, budgeting, legislation, labor unions, time management, conflict management, personnel problems, and food delivery systems.

**HS 338. Concepts of Maintenance, Engineering, and Housekeeping for Hospitality Facilities. (2-2-3); alternate years.** This course gives potential hospitality management personnel an understanding of maintenance, general engineering, and housekeeping problems. Topics include: fundamentals of housekeeping, mechanical systems, and building components of the physical plant. Special emphasis will be placed on the organization of the housekeeping and engineering departments and the basic principles of properties management.

**HS 351. Housing. (2-2-3); II.** Historic development of housing in the United States. Implications for housing from social and economic changes. Trends in the field of housing.

**HS 353. Program Planning for Infants and Toddlers. (3-0-3); II.** *Prerequisite: HS 253.* Current programs, techniques, environments and research relating to infant stimulation. Emphasis on home intervention, theory and practices.

**HS 354. Preschool Programs and Environments. (2-2-3); I.** The research and study of early childhood development curriculum models, activities, plans and implementation of programs in a variety of environments.

**HS 357. Care and Development: Prenatal, Infants, and Toddlers. (3-0-3); I. alternate years.** *Prerequisite: HS 253 or consent of instructor.* Prenatal and postnatal care for mothers, development of the fetus, and care of the infant through two years of age.

**HS 358. Public Policy for Children and Families. (3-0-3); II.** The study of principles that direct action, how public issues affect quality of life in varying ways for children and families, and the need for citizen involvement in public policy to strengthen the democratic process.

**HS 363. Family Economics. (3-0-3); II.** Study of decision-making as it relates to the family's utilization of its financial resources, budgeting skills and practices in the economy.

**HS 388. Methods of Curriculum Development. (3-0-3); II.** *Prerequisite: CTE 207 or consent of instructor.* A comprehensive study of current curriculum content in Vocational Education. Emphasis on modifying and developing new curricula. Cross listed with AGR 388 and CTE 388.

**HS 392. Methods of Instructional Technology. (2-2-3); I, III.** *Prerequisites: admission to TEP*. Holistic approach to curriculum development with an introduction to the use of technology to develop and enhance curriculum and instruction. A portfolio will be maintained and presented at the end of the class. Cross listed with AGR 392 and CTE 392.

**HS 410. Medical Nutrition Therapy. (2-2-3); II, alternate years.** *Prerequisite: HS 333.* Variation in the nutrient supply and demand in various health and disease states. The role of appropriate dietary intervention and nutritional support in the clinical setting. Clinical experience required in health care facilities.

**HS 435. Cost Controls in Hotel, Restaurant, and Institutional Management. (3-0-3); I, alternate years.** *Prerequisites: HS 329, 330, and 331.* Examination of cost control techniques applied to the hospitality industry. Topics include food cost, beverage control, labor cost, development and analysis of financial statements, budgeting, cash management, control, and operational systems.

**HS 436. Hotel, Restaurant, and Institutional Marketing Management. (3-0-3); II, alternate years.** An overview of the discipline of marketing as it applies to the hospitality industry. The primary aim is to understand how marketing strategy is devised, internal resources, and the external operating environment. A second aim is to show how the special nature of services affects the development of marketing strategies in the hospitality industry.

**HS 437. Advanced Nutrition. (3-0-3); II, alternate years.** *Prerequisites: BIOL 232, CHEM 301, HS 201 and 328.* An in-depth review of the pathways of absorption, digestion, and metabolism of essential nutrients.

**HS 438. Experimental Foods. (2-2-3); II, alternate years.** *Prerequisite: CHEM 201 and HS 130.* Experimental methods applied to food research through individual and class investigation; review and evaluation of published research.

**HS 439. Cooperative Education. (1 to 12 hrs.); I, II, III.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior level course.

**HS 443. Community Nutrition. (2-2-3); II.** *Prerequisite: HS 333.* Study of socioeconomic influences on food consumption patterns. Program emphasis will include investigation of food availability/access, community and food security policy investigation/development, interpretation of research methods related to community dietetics. Hands-on instruction for public speaking, nutrition education, educational materials development, and provision of outreach nutrition development/implementation.

**HS 454. Life Management. (3-0-3); I, alternate years.** Opportunities to study and practice life management skills via decision-making and to apply principles of life management in the use of time, energy and money throughout the family life cycle. Includes techniques for planning for the various stages of the life cycle.

**HS 457. Parenting. (3-0-3); alternate years.** *Prerequisite: HS 253 or consent of instructor.* An examination of the parental roles in regard to current challenges, problems, and issues. Early intervention and family center relationships emphasized. Cross listed with WST 457.

**HS 467. Trends and Issues in Early Childhood Development. (1-0-1); II.** The study of current trends and issues relevant to early childhood development with a consideration of historical, social, legal, ethical, political, legislative and health policies that impact on the early child development practicum. Taken prior to or during the professional semester.

**HS 470. Methods of Instruction. (3-0-3); I.** *Prerequisites: admission to TEP, junior or senior standing in home economics.* The principles of instructional methods which apply to the teaching of home economics subject matter which is included under the major program components of secondary family and consumer sciences education programs. Cross listed with AGR 470 and CTE 470.

**HS 476. Special Problems. (1 to 3 hrs.); I, II, III.** Supervised study of a problem in some phase of family and consumer sciences chosen by the student on the basis of individual need or interest.

**HS 477. Early Childhood Development Practicum. (4 to 12 hrs.); I, II.** *Prerequisites: HS 357, 457, and 467; or co-requisite: HS 467. Upon completion of requirements of the precertification option; alignment of a scholastic standing of 2.5 on residence courses at MSU and 2.5 on all courses compiled in major; minimum of one semester residence or completion of option 2; attainment of cumulative GPA of 2.0.* Placement in a preschool classroom on the basis of one week placement for each credit hour. Observation, participation, teaching conferences with supervisor, co-curricular activities and conferences with supervising teacher are required.

**HS 478. Student Teaching Practicum. (12-0-12); I, II.** Each student is assigned to an approved student teaching center offering comprehensive teaching experience in vocational family and consumer sciences. Cross listed with AGR 478 and CTE 478.

**HS 490. Special Topics in Human Sciences. (1 to 3 hrs.); on demand.** *Prerequisite: consent of department.* A course designed to investigate specific topics of concern in specialized areas of human sciences.

**HS 499C. Senior Seminar. (3-0-3); I.** Identification of issues reflected in the current technical and professional literature, further understanding of the role and function of semi-professional and professional fields in human sciences. Preparation of transition from

the role of student to role of professional in human sciences. Seminar discussion format is used. *This course satisfies the integrative component for general education.*

**HS 510. Advanced Clinical Dietetics (3-32-6); I.** *Prerequisites: all previous program requirements.* An advanced course focusing on the assessment and nutritional management of persons requiring medical nutrition therapy in general medicine. Weekly written assignments by students, supervisor evaluation reports, and communication with program faculty will be used to monitor the student's progress.

**HS 531. Nutrition Education. (3-0-3); on demand.** The study of the application of basic principles of education applied to the teaching of nutrition. Lecture.

**HS 532. Clinical/Community Dietetics. (3-32-6); I.** *Prerequisites: all previous program requirements.* An advanced course focusing on the nutrition management of persons with conditions requiring medical nutrition therapy in critical care, hospice, home health, extended care and other community nutrition programs.

**HS 536. Advanced Nutrition. (3-0-3); on demand.** *Prerequisite: HS 329 or consent of instructor.* In-depth study of nutrients in relation to normal nutrition; review of classical and current literature; practical application of findings.

**HS 537. Administrative Dietetics/Food Service Management. (3-32-6); II.** *Prerequisites: all previous program requirements.* This course covers the elements and effective practice management and administration in the health care environment. Students are provided experience in cost analysis, productivity evaluation, quality assurance and supervision skills.

**HS 538. Experimental Foods. (1-4-3); on demand.** *Prerequisite: HS 130 or consent of instructor.* Experimental methods applied to food research through individual and class investigation; review and evaluation of published research.

**HS 540. Food Service Systems Administration. (3-32-6); on demand.** *Prerequisite: all previous program requirements.* This course provides an understanding of the roles and responsibilities of all levels of food service systems management. Topics include school food service, catering, food merchandising, cafeteria and vending in addition to employee educational training, personnel management and labor relations.

**HS 541. Tailoring. (1-4-3); I.** *Prerequisite: HS 241 or consent of instructor.* Individual fitting problems and the resulting pattern alteration methods necessary for the construction of a tailored garment as well as advanced hand tailoring and couture techniques. Construction of a suit or coat required.

**HS 542. Social-Psychological Aspects of Clothing and Textiles. (3-0-3); II, alternate years.** *Prerequisite: six hours in clothing and textiles.* Social, psychological, and economic factors in the selection and use of clothing.

**HS 545. Clothing Design in Draping. (0-6-3); II, alternate years.** *Prerequisite: HS 241.* Original garments created by draping on the dress form. Dress form will be constructed in the course.

**HS 546. Food Service Systems Administration/Speciality Practice. (3-32-6); III.** *Prerequisites: HS 510, 532, 537 and 540.* An advanced course that provides the student supervised practice in food service administration and training in selected areas of specialty dietetics through lectures, projects, class presentations and supervised practice.

**HS 555. The Child and the Family. (3-0-3); on demand.** Environmental factors favoring family life and family interaction; stages of family life and the changing role of occupational, and adult classes, or in the home.

**HS 557. Interior Decoration Projects. (1-4-3); on demand.** A lecture-laboratory class with emphasis on projects for the home that can be utilized in vocational, occupational, and adult classes or in the home.

**HS 573. Curriculum Development in Family and Consumer Sciences. (3-0-3); I.** *Prerequisites: admission to TEP and HS 470.* Development of secondary and postsecondary home economics programs; review of home economics curriculum for gainful programs; critical survey of resources; development of competency-based curriculum in the five areas of home economics.

**HS 590. Creative Foods. (1-4-3); on demand.** The study and preparation of gourmet foods. Emphasis on foods from different cultural backgrounds and geographical regions. Arranged laboratories.

**HS 592. Foods for Special Occasions. (1-4-3); on demand.** *Prerequisite: consent of instructor and/or one food preparation course.* A lecture-laboratory class with emphasis on planning, preparing, and serving foods for special occasions, including special diets, meal service, special equipment, and various budget levels. Arranged laboratories.

### Humanities

**HUM 170. Introduction to Film. (3-0-3); I, II.** An introduction to film as an art form, its history and stylistic variation. *This course satisfies area studies-humanities for general education.*

**HUM 203. Introduction to Medieval Culture. (3-0-3); on demand.** *Prerequisite: ACT of 18 or better in reading or the grade of "C" or better in EDEL 099.* A team-taught course focusing on cross-disciplinary issues in the humanities in European and middle eastern cultural and historical development during the period 800-1500 C.E. *This course satisfies area studies-humanities for general education.*

### Early Childhood Education

**IECE 301. At-Risk Infants and Toddlers I. (3-0-3); I.** Development and causes of difficulties experienced by at-risk infants and toddlers, as well as early intervention approaches to be used with these children and their families.

**IECE 345. Preschool Programs for Special Needs Children. (3-1-3); II.** This course will encompass the characteristics, needs, and assessment of exceptional children during the preschool years. Needs and involvement of families will be an important emphasis.

**IECE 360. Families in Early Childhood Education. 3-0-3); I.** *Prerequisites: EDF 207, HS 253.* This course provides theoretical and practical approaches to working with families in early childhood education programs, including families of at-risk and special needs children.

**IECE 361. Positive Child Guidance. (3-1-3); II.** *Prerequisites: EDF 207, HS 253.* This course provides positive strategies for guiding the behavior of young children. Candidates will learn both preventive and corrective discipline measures.

**IECE 410. The Role of the Teacher: Designing Language and Cognitive Activities for Diverse Groups. (3-0-3); I.** *Prerequisite: admission to TEP*. One of a block of three courses that will focus on knowledge, skills, and methodology necessary to develop the role of the early childhood teacher. The focus of this course is the development of cognitive and language activities.

**IECE 411. The Role of the Teacher: Creating a Learning Environment for Diverse Groups. (3-2-2); I.** *Prerequisite: admission to TEP*. How the learning environment is established to provide optimal learning experiences and to guide children in developing responsible behavior.

**IECE 412. The Role of the Teacher: Designing the Implementation of Creative Play Activities for Young Children. (3-1-3); I.** *Prerequisite: admission to TEP.* The role of the early childhood teacher in implementing creative play activities for young children from birth to age five.

**IECE 425. Clinical Practice: Infants & Toddlers and Preschool for 3-5 year olds. (12 hrs.) I, II.** *Prerequisite: Admission to Teacher Education Program.* Placement in approved Infant/Toddler and in approved Preschool settings for children ages 3-5 years for clinical semester to include observation, participation, and family support in accordance with Kentucky Interdisciplinary Early Childhood Education Standards. Special conferences with supervising teacher, attendance, and participation in faculty and out-of school activities required.

**IECE 457. Professional Assessment. (3-0-3); I, II.** *Prerequisites: IECE 301, 345, 410, 411, and 412.* This course has two components: assessment and certification portfolio preparation. Final course for students in the IECE certification preparation program, prior to the professional semester. Students will complete assessment for certification and finalize and professionalize their certification portfolio. Assessments required for teacher certification will be administered in this course.

### Industrial and Engineering Technology

**IET 100. World of Technology. (3-0-3); on demand.** An introduction to basic concepts of industry. The identification of the major industries and the development of an understanding of their impact upon society.

**IET 110. Fundamentals of Computer Technology. (3-0-3); I, II, III.** A general introduction to the computer systems. Basic hardware concepts are covered. Main topics include an overview of components of a computer, the components of system unit, operating systems and utility programs, communications and networks, the Internet and World Wide Web, Web development programs, e-commerce, and system maintenance. Designed for students who have some basic familiarity with Microsoft Office application. *This course satisfies the computer competency requirement for general education.*

**IET 111. Basic Wood Technics. (2-2-3); on demand.** This is the beginning course in wood technology, consisting of theory and application with particular emphasis on individual and industrial values of secondary wood processing.

**IET 120. Technology Systems. (3-0-3); I, II, III.** Pre-college curriculum requirements should be met. An introduction to major areas of technology including communication, construction, manufacturing, and transportation systems. *This course satisfies the area studies-practical living for general education.*

**IET 160. Introduction to Power and Fluid Mechanics. (2-2-3); I.** Beginning instruction in energy sources and fluid systems. Steam engines, steam turbines, diesel engines, spark-ignition engines, and exhaust emissions are studied.

**IET 211. Advanced Wood Technics. (2-2-3); on demand.** *Prerequisite: IET 111 or consent of instructor.* This is a continuation of IET 111. It consists of advanced techniques and practices reflecting the wood industries through the study and use of theory, experimentation, and evaluation.

**IET 222. General Crafts. (2-2-3); on demand.** A survey of several craft media, involving a study of the common tools, skills, processes, and procedures in clay, glass, plastics, metal, stone, leather, and wood. Industrial applications of craft principles and processes will also be investigated.

**IET 260. Hydraulics and Pneumatics. (2-2-3); II.** Introductory course in the design and analysis of power transfer devices utilizing hydraulics and pneumatics, with emphasis on robotics applications.

**IET 261. Power Mechanics. (2-2-3); on demand.** Control mechanisms are studied along with rocket engines, various forms of jet engines, and advanced power systems.

**IET 300. Technology and Society. (3-0-3); I, II, III.** *Prerequisites: ENG 100 and MATH 123 or higher.* A study of the issues that arise as technology becomes a creative human enterprise. Students will be engaged in reading, dialog, and group activities in order to increase their abilities to identify and assess the implications and ramifications of productively living in a technological society. *This course satisfies area studies-social and behavioral sciences for general education.*

**IET 303. Materials Science. (2-2-3); II.** *Prerequisites: MATH 152 and PHYS 201, or consent of instructor.* An organized investigation of engineering materials, including their classification, properties, and means of testing to determine their properties. The application of materials to manufactured and constructed products and the effects of manufacturing processes and in-service stress on materials will be considered.

**IET 310. Engineering Economic Analysis. (3-0-3); I.** *Prerequisite: ECON 101 or ECON 201, and MATH 175.* Engineering investment, decision analysis of alternate projects, machine depreciation methods, machine replacement policies, effect of taxes and inflation on engineering investment.

**IET 311. Design and Construction. (1-4-3); on demand.** *Prerequisite: IET 211.* Students design, plan, construct, and finish an appropriate product requiring knowledge of advanced principles and techniques in wood technology.

**IET 317. Just In Time and Lean Systems. (3-0-3); I, II.** *Prerequisite: ITMT 186.* Analysis of industrial production methods for profit improvement. Elements of lean manufacturing and just-in-time inventory control are covered.

**IET 319. Quality Control. (3-0-3); I, II.** *Prerequisite: MATH 353.* Analytical and statistical inference techniques for process and manufacturing product control.

**IET 320. Industrial Project Management. (3-0-3); I, II.** *Prerequisites: IET 110, 120, and ENG 200; or consent of instructor.* A study of industrial project managment methods for the analysis and design of industrial -level projects. Content includes planning, scheduling, and control of project resources from an industrial perspective. Concepts and activities are integrated according to the Project Management Institute's Body of Knowledge.

**IET 321. Wood Laminating and Turning. (2-2-3); on demand.** Theory and practice of laminating and wood turning, with emphasis given to industrial and school shop practices. Introduction to tools, equipment, and their safe operations.

**IET 327. Applied Industrial Management. (3-0-3); II.** A study of basic industrial management practices and procedures.

Designed to serve the technician, first-line supervisor, or lay management individual to provide an awareness rather than to prepare a practitioner of management.

**IET 329. Cooperative Education I. (1 to 3 hrs.); I, II, III.** Designed to develop professional and technical work experience in a business, educational, and/or industrial organization.

**IET 330. Industrial Design. (2-2-3); I, II**. *Prerequisite: junior/senior standing and all 100 level IET core courses and all departmental specific general education MATH requirements met.* Conduct design with emphasis on consumer demands. The key principles, elements and precepts of modern design with heavy emphasis on the design methodology in both collaborative and individual settings.

**IET 339. Cooperative Education I. (1-3); I, II, III.** Designed to develop pprofessional and technical work experience in a business, educational and or industrial organization.

**IET 361. Automotive Mechanics. (2-2-3); on demand.** Engine repair and maintenance procedures including computerized management systems. Braking systems, drive systems, and steering systems are also covered.

**IET 362. Fluid Power. (2-2-3); on demand.** To gain an in-depth knowledge of fluid systems as they are used in modern industry.

**IET 365. Instrumentation. (2-2-3); on demand.** Techniques of properly instrumenting test calls with such devices as pilot tubes, manometers, and electronic devices.

**IET 371. Seminar for Industrial Education and Technology. (1-0-1); I, II.** Participants will develop a further understanding of the underlying concepts of industrial career options by participation in one or more programs followed by informal discussion.

**IET 381. Related Science, Mathematics, and Technology in Occupations. (0-0-6); on demand.** Offered only through written examination. Courses will be offered only through a scheduled examination. (Written, performance, and oral examinations in the field of specialization that the candidate is preparing to teach.)

**IET 382. Manipulative Skills in Occupations. (0-0-6); on demand.** Offered only through technical competence examinations. Courses will be offered only through a scheduled examination. (Written, performance, and oral examinations in the field of specialization that the candidate is preparing to teach.)

**IET 383. Knowledge of Related Subjects in Occupations. (0-0-6); on demand.** Offered only through oral examinations. Courses will be offered only through a scheduled examination. (Written, performance and oral examinations in the field of specialization that the candidate is preparing to teach.)

**IET 385. Staff Exchange. (3 hrs.); I, II, III.** Designed to give an opportunity for an individual to upgrade in his/her specific technical skill in an ever changing technical world. Through this unique chance to work in industry learning the new techniques, developing new skills and expanding one's knowledge will enable the participant to take back to his/her classroom the latest innovations in technology as industry has adopted for their use.

**IET 387. Fundamentals of Metallurgy and Joining Technology. (2-2-3); I, II.** Pressure, non-pressure, and brazing processes for material fabrication. Arc, oxyacetylene, inert gas, and special welding techniques. Coupon analysis required for destructive and nondestructive testing.

**IET 398. Supervised Work Experience. (1 to 9 hrs.); I, II, III.** *Prerequisite: 20 hours in major department and consent of department chair prior to registration.* An enrichment program which will give experience in an occupational area which is not possible to provide in a classroom setting. Student will work under supervision in an approved organization for a period of time specified by his or her major department. Credit will be commensurate with the amount of time worked. The student will be supervised by faculty from the major department. A representative of the cooperating organization will be directly responsible for the work experience of the student and will make a written evaluation of the student periodically.

**IET 399. Selected Topics. (1 to 4 hrs.); on demand.** Technology and industrial teacher education topics reflective of emerging industrial techniques or trends in technical-vocational education. Innovative, experimental, and hands-on techniques will frequently be used.

**IET 411. Wood Technics. (2-2-3); on demand.** *Prerequisites: IET 111 and 211.* A study of the problems and process of the major wood industries in the United States. Various industrial processes, application, and testing are utilized in mass production and individual projects.

**IET 419. Total Quality Improvement. (3-0-3); I.** *Prerequisites: IET 319 and 320, or consent of instructor.* A study of total quality concepts and their impact on the quality and competitiveness of products.

**IET 422. Industrial Safety Standards and Enforcement. (3-0-3); II.** A study of industrial safety codes, standards, regulations, and enforcement procedures. Explanations of worker safety as related to attitude and production. Review of current laws regulating safety and those agencies related to enforcement and training.

**IET 430. Facilities Planning. (3-0-3); I.** *Prerequisites: IET 310, IET 317, IET 320, and MATH 353.* The course is a study of concepts, principles and techniques used in planning, designing and analyzing industrial facilities with emphasis on manufacturing and service facilties.

**IET 439**. **Cooperative Education II. (1 to 6 hrs.); I, II, III.** Designed to develop professional and technical work in a business, educational and/or indsutrial organization.

**IET 460. Internal Combustion Engines II. (2-2-3); on demand.** Detailed study of exhaust emissions and the gas turbine engine.

**IET 463. Heating, Ventilating, and Air Conditioning. (2-2-3); on demand.** A study of the ventilating and heating techniques in modern industrial application. Also includes industrial air conditioning and refrigeration.

**IET 476. Special Problems. (1 to 3 hrs.); I, II, III.** *Prerequisite: upper division standing; consent of department.* Designed for the purpose of permitting a student to do advanced work as a continuation of an earlier experience or to work in an area of special interest.

**IET 496. Organization and Management of the Laboratory. (2-0-2).** Principles of shop and class organization and management, including program planning and development of shops and laboratories; selecting and purchasing equipment and supplies; and organizing and administering the instructional program.

**IET 499C. Senior Project. (1-4-3); I, II.** *Prerequisites: senior standing and completion of 18 hours in option.* Problems using the scientific method of inquiry in conjunction with faculty members from the major area of study will be conducted. The proposed problem is inclusive of the statement, background, and parameters of the problem, as well as methods and procedures for the solution. *This course satisfies the integrative component for general education.*

**IET 515. Advanced Computer Aided Design. (3-0-3); I. Even Years.** *Prerequisites: Senior or graduate standing, comput-*

*er aided design, or consent of instructor*. The purpose of this course is to extend students' knowledge and skills in the design, modeling, analysis, and simulation of spatial problems found in industrial, civil, or architectural environments. Topics include customization and lisp routines, basic finite element analysis, geometric dimensioning and tolerancing, prototype development and interfacing with computer aided manufacturing, and advanced development of movies for civil and architectural projects.

**IET 519. Experimental Design for Industry. (3-0-3); II.** *Prerequisite: MATH 353 and IET 419; or consent of instructor.* The course introduces concepts, principles, and techniques used in designing, conducting and analyzing experiments for industrial applications and applied research. Emphasis is given to product and process design, process improvement and quality engineering. Topics include simple comparative experiments, ANOVA, randomized block and Latin squares, factorial design, blocking and confounding factors, fitting regression models, and response surface.

**IET 520. Industrial Arts for the Elementary Teacher. (3-0-3); on demand.** *Prerequisite: admission to TEP.* Designed to develop professional and technical competencies of pre-service and in-service elementary school teachers.

**IET 588. Machine Shop III. (2-2-3); on demand.** *Prerequisite: ITMT 286.* Advanced tool and machining theory, with emphasis on production machining and progressive tooling design for numerical control applications.

**IET 590. Supervised Internship. (Industry or Administration). (1 to 6 hrs.); I.** To provide work experience in an occupational area. Advanced credit commensurate with time worked, type of work, variety of work experience, and research paper. A person may choose to do the internship in educational administration, in which case he or she would be assigned to work in secondary or higher education instruction or for the State Department of Vocational Education in an administrative capacity. In each case, conditions will be agreed upon by employer, student, and graduate advisor prior to registration. Students are responsible for setting up the work sites that are approved by their advisors.

### Imaging Sciences

**IMS 100. Orientation to Health Care Professions. (1-0-1).** A study of career opportunities available in health care, the standard program requirements and an overview of the job responsibilities. Cross listed with NAHS 100 and NUR 100.

**IMS 202. Medical Terminology. (2-0-2); I, II.** The study of vocabulary components and terms related to sciences and medicine. Previous knowledge of medicine or related discipline is not necessary. Cross listed with NAHS 202 and NUR 202.

**IMS 300. Ethical and Legal Issues in Health Care. (3-0-3); I, II.** This course is an overview of the ethical and legal issues in today's health care environment. Emphasis includes such areas of discussion as confidentiality, HIV/AIDS, artificial life support, euthanasia, abortion, genetic science. Allocation of resources and professional gatekeeping. Cross listed with NAHS 300 and NUR 300. *This course satisfies the area studies-social and behavioral sciences for general education.*

**IMS 301. Selected Topics. (1 to 3 hrs.); on demand.** *Prerequisite: consent of instructor.* Investigation of specific topics of interest related to nursing and/or allied health sciences. Cross listed with NAHS 301 and NUR 301.

**IMS 302. Health Maintenance Throughout the Life Span. (3-0-3); I, II.** This course is designed to increase one's awareness of the importance of health maintenance throughout the life span. Emphasis will be on the concepts of health maintenance through health promotion and illness prevention strategies for all stages of the life span. Cross listed with NAHS 302 and NUR 302. *This course satisfies the area studies-practical living for general education.*

**IMS 303. Women's Health Care. (3-0-3); I, II.** *Prerequisites: CIS 101, CMSP 108, ENG 100, 200, or consent of instructor.* Increase one's awareness of the importance of women's health care in all dimensions. Emphasis will be placed on health maintenance issues for women that include women's developmental issues throughout their life span, general guidelines for health care (including screening and interventions), sexuality facts, health needs and problems related to the reproductive system, selected health care issues, and psychosocial concerns. *This course satisfies the area studies-practical living for general education.* Cross listed with NAHS 303, NUR 303 and WST 303.

**IMS 304. Men's Health Issues. (3-0-3); I, II.** *Prerequisite: CIS 101, CMSP 108, ENG 100, 200, or consent of instructor.* This course is designed to increase one's awareness of the importance of men's health issues in all dimensions. Emphasis will be placed on health maintenance issues for men that include men's developmental issues throughout their life span, general guidelines for health care (including screening and interventions), sexuality facts, health needs and problems related to the reproductive system, selected health care issues, and psychosocial concerns. Cross listed with NAHS 304 and NUR 304.

**IMS 345. Global Health. (3-0-3); I, II.** Through this course, the student will develop a global awareness of societal aspects of health and disease through the critical examination of the sociopolitical constraints in health and health care of populations. The roles of community, national, and international health organizations will be examined. Meets general education requirement in the area of social and behavioral sciences. Cross listed with IST 345, NAHS 345, and NUR 345.

**IMS 361. Leadership for the Health Care Professional. (3-0-3); I, II.** This course provides students with a knowledge base and foundations for the study and practice of leadership in health care systems. Emphasis is placed on the theories of leadership, structures of organizations in health care, and the effective/efficient use of human and material resources. Cross listed with NAHS 361 and NUR 361.

**IMS 473. Health Care Management of Children. (3-0-3); I, II.** Open to any interested student. Promotion of wellness of children and adolescents with emphasis on meeting the health care needs of children in the classroom and home. Discussion of basic first aid, common acute and chronic illness in children. Cross listed with NAHS 473 and NUR 473.

**IMS 475. Human Sexuality: A Holistic Viewpoint. (3-0-3); I, II.** Open to any interested student. A study of the biopsychosocial factors inherent with the sexuality of human beings and their influences on behavior. Cross listed with NAHS 475 and NUR 475.

### International Studies

**(Cross listed courses can only be taken once for credit. If a cross listed course is taken a second time using the different prefix it will be considered a repeat.)**

**IST 101. Introduction to International Studies. (3-0-3); I, II.** An exploration of global citizenship through the interdisciplinary

perspectives of the humanities, technology, education, science and economics. Students will be challenged to critically examine the relationship of intercultural and international issues, and to use problem-solving skills as they investigate topics and issues of universal concern. *This course satisfies the area studies-humanities for general education.*

**IST 201. Global Studies. (3-0-3); I, II.** This course will introduce students to the study of world cultures and provide an understanding of contemporary global issues. Using historical and literary texts, CD-ROM technology and films in a multimedia approach, students will examine selected social, political, economic, and cultural phenomena in the context of world history. *This course satisfies the area studies-humanities for general education.* Cross listed with HIS 201.

**IST 204. World Food. (3-0-3); I, II, III.** Analysis of contemporary problems and issues of public concern relating to food, agriculture, and rural areas using the tools of fundamental economic concepts. Farm income, food prices, world food problems, natural resources, environment, and rural development issues will be studied. *This course satisfies area studies-social and behavioral sciences for general education.* Cross listed with AGR 204.

**IST 205. French Culture and Civilization. (3-0-3); II.** Survey of art, architecture, music and history of France. Cuisine, fashion, and cinema. The imprint of France on America and the Third World. Taught in English; some knowledge of French helpful but not required. *This course satisfies the area studies-humanities for general education.* Cross listed with FRN 205.

**IST 206. Business French. (3-0-3); I, II.** Introduction to the French-speaking business world. Special attention to etiquette, interpersonal relations, and daily culture. Investigation of current French practices in marketing, banking, real estate, advertising and the media. Study of authentic documents and regalia. Comparison of French and American systems of job training and placement. Course taught in English, some knowledge of French helpful. Cross listed with FRN 206.

**IST 211. Introduction to World Literature I. (3-0-3); I.** A comparative study of dramatic, lyric, and narrative ancient literatures. *This course satisfies area studies-humanities for general education.* Cross listed with ENG 211.

**IST 212. Introduction to World Literature II. (3-0-3); II.** A comparative study of dramatic, lyric, and narrative literatures of the world after the sixteenth century. *This course satisfies area studies-humanities for general education.*Cross listed with ENG 212.

**IST 221. World Religions I. (3-0-3); on demand.** *Prerequisite: PHIL 200 is recommended.* Origin, development, assumptions, values, beliefs, practices, great leaders, and principal events of Judaism, Christianity, Islam, and Zoroastrianism. Cross listed with REL 221.

**IST 222. World Religions II. (3-0-3); on demand.** *Prerequisite: PHIL 200 is recommended.* Origin, development, assumptions, values, beliefs, practices, great leaders, and principal events of Hinduism, Buddhism, Confucianism, Taoism, Jainism, Sikhism, and Shintoism. Cross listed with REL 222.

**IST 263. Art History I. (3-0-3); I, II.** An examination of prehistoric, ancient Near Eastern, Pre-Columbian, tribal, and Asian art. It includes a study of materials, techniques, subjects, styles, issues, functions and meanings. *This course satisfies the area studies-humanities for general education.*Cross listed with ART 263.

**IST 264. Art History II. (3-0-3); I, II.** An examination of ancient Greek and Roman, and Medieval art. It includes a study of materials, techniques, subjects, styles, issues, functions and meanings. *This course satisfies the area studies-humanities for general education.* Cross listed with ART 264.

**IST 265. Art History III. (3-0-3); I, II.** An examination of art from the Renaissance to the present. It includes a study of materials, techniques, subjects, styles, issues, functions, and meanings. *This course satisfies the area studies-humanities for general education.*Cross listed with ART 265.

**IST 300. World Geography. (3-0-3); I, II.** A general survey of the human and physical geography of the major regions of the world with a concentration on development. Emphasis is on the interaction between individuals and the physical and cultural landscape in various settings. *This course satisfies the area studies-social and behavioral sciences for general education.* Cross listed with GEO 300.

**IST 301. International Studies Study Abroad. (0-1-1); I, II, III.** *Prerequisite: IST 101 and consent of associate dean for international education.* This class will provide the student with experience in a foreign country for a minimum of a two-week period. A study abroad experience may be through one of the study abroad consortia in which Morehead State holds membership or through a pre-approved study trip. Prior application for IST 301 should be made to the Associate Dean for International Education.

**IST 302. Politics of the Middle East and North Africa. (3-0-3); II, alternate years.** *Prerequisites: GOVT 230 and 289.* Analysis of major themes and cases in Middle Eastern/North African Politics. Includes issues of religion, ethnic conflict, modernization, and democratization. Cross listed with GOVT 331.

**IST 303. Politics of Latin America and the Caribbean. (3-0-3); I, alternate years.** *Prerequisite: GOVT 230 and 289.* Analysis of major themes and cases in Latin American/Caribbean politics. Includes issues of debt, development, and democratization. Cross listed with GOVT 332.

**IST 304. Politics of Sub-Saharan Africa. (3-0-3); on demand.** *Prerequisites: GOVT 230 and 289.* Analysis of major themes and cases in African politics. Includes issues of debt, development, and democratization. Cross listed with GOVT 333.

**IST 305. Cultural Anthropology. (3-0-3); I, II.** *Prerequisite: BIOL 105, SOC 101, or consent of instructor.* A study of literate and nonliterate cultures using the ethnographic approach. Universal aspects of human experience, including the family, economic, political and religious systems examined in cross-cultural perspective. *This course satisfies the area studies-social and behavioral sciences for general education.* Cross listed with WST 305. Cross listed with SOC 305.

**IST 306. International Relations. (3-0-3); I, alternate years.** *Prerequisite: GOVT 289 or consent of instructor.* A study of international relationships in theory and practice; concepts of power and its application; machinery of foreign policy making and implementation; world politics and law; and the world community. Cross listed with GOVT 364.

**IST 307. Politics of International Economic Relations. (3-0-3); I, alternate years.** *Prerequisite: GOVT 289.* Study of essential ,issues and contending analytical frameworks. Includes examination of politics of economic relations of the U.S., Japan, Europe, and between the "North" and "South." Cross listed with GOVT 367.

**IST 310. Australia. (3-0-3); on demand.** Resources of Australia, New Zealand, and islands of the Pacific; significance of position and political connection of these lands. Cross listed with GEO 310.

**IST 311. Geography of the Global Economy. (3-0-3); on demand.** *Prerequisite: GEO 211.* Spatial analysis of higher level economic activities. Focus is on wholesaling, interregional and international trade and transportation, producer services, and investment. Cross listed with GEO 311.

**IST 321. Eastern Philosophy. (3-0-3); on demand.** An examination of the major philosophical theories of Hinduism, Buddhism, Confucianism, and Taoism. Cross listed with PHIL 320.

**IST 324. Geography of World Religions. (3-0-3); on demand.** *Prerequisite: GEO 100 or 300.* Analysis of the distributions and geographic patterns of modern religions. Particular attention is paid to the geographic patterns that were created as a result of and that helped to create the rituals and traditions of the major world religions. Cross listed with GEO 370.

**IST 325. Religious Literature of the World. (3-0-3); on demand.** The literature of major religions of the world. Cross listed with ENG 325.

**IST 326. Cuba and the Caribbean. (3-0-3); on demand.** The people and places of the Caribbean basin with a concentration on climate, culture, economics and tourism. A special focus will address the dynamics of Cuban socioeconomic development. Cross listed with GEO 326.

**IST 328. Africa. (3-0-3); on demand.** Resources, both natural and cultural; changing political conditions and affiliations of African countries, recognition of, and reasons for, the growing importance of this continent in world affairs. Geographic factors in the economic, social, and political structure of Europe; emphasis on natural regions, resource distribution, and industrial development. Cross listed with GEO 328.

**IST 329. North American Politics: United States and Canada. (3-0-3); I, III.** A comparative study of the governments and politics of the United States and Canada, their political, cultures, public opinion, interest groups and political parties; the evolution, structure, and operation of their governments, the behavior of their public officials, and their public policies. Cross listed with GOV 329.

**IST 330. Perspectives on Canada. (3-0-3); I, II.** A multidisciplinary study of the geography, history, society, politics, and economy focusing on contemporary Canadian domestic and international issues, including Quebec's role in the Canadian federation, transborder economic and cultural relationships with the United States, and Canada's participation in world affairs.

**IST 331. History of Canada. (3-0-3); II.** *Prerequisite: consent of instructor.* A study of Canada's intellectual, political, economic, and social development, including its colonial origins, the creation and evolution of its confederation, and the nature of its involvement international affairs. Cross listed with HIS 336.

**IST 332. First Nations of Canada. (3-0-3); II.** A comparative study of representative North American Native cultures focusing on first nations of Canada, including Ojibwe, Huron, Cheyenne, Lilooet, Nootka, Dene, and Inuitt, and using ethnographic, ethnohistoric, and anthropological models.

**IST 333. Government and Politics of Britain and Canada. (3-0-3); II.** A comparative study of the parliamentary governments of Canada and Great Britain, their political cultures, public opinions, interest groups and political parties; the evolution, structure, and operation of their constitutional governments, the behavior of their public officials, and their public policies.

**IST 334. Comparative Constitutional Law and Politics. (3-0-3); I, alternate years**. *Prerequisite: GOVT 230 and 289*. A comparative cross-national study of constitutional law and politics with particular emphasis on governmental powers and individual rights issues in the United States, Great Britain, Canada, and Germany. Cross listed with GOVT 303.

**IST 335. Political Economy and Environmental Policy in Canada. (3-0-3); I.** A study of political dimensions of the Canadian economy and Canada's domestic and international environmental policies, including U.S. Canadian environmental issues and Canada's role in crafting international environmental policies.

**IST 336. Politics of the North American Auto Industry. (3-0-3); I.** A study of the politics of United States and Canadian Automobile industries focusing on its managerial practices, labor relations, the recruitment of Japanese auto manufacturers and the challenge of their production methods to the North American auto and its labor unions, and their responses.

**IST 337. Politics of Asia. (3-0-3); on demand.** *Prerequisites: GOVT 230 and 289.* Survey of politics in China, Japan, India, and Vietnam. Emphasis on themes of traditional order and its collapse and persistence. Development of Asian nationalism and clash between Marxist revolution and evolutionary democracy. Cross listed with GOVT 337.

**IST 338. Russia and Eastern European Governments. (3-0-3); II.** *Prerequisites: GOVT 230 and 289.* A study of the Russian political system; its ideological base, governing structures, and political processes; and an analysis of the major Eastern European governments and their political life. Cross listed with GOVT 334.

**IST 340. Spanish Culture and Civilization. (3-0-3); on demand.** *Prerequisite: SPA 202 or consent of instructor.* Study of the architecture, history, literature, music, customs, current events, and ways of life in Spain. Cross listed with SPA 340.

**IST 341. Latin American Culture and Civilization. (3-0-3); on demand.** *Prerequisite: SPA 202 or consent of instructor.* Study of the architecture, art, geography, history, literature, music, customs, current events, and ways of life on the Latin American world. Cross listed with SPA 341.

**IST 345. Global Health. (3-0-3); I, II.** Through this course, the student will develop a global awareness of societal aspects of health and disease through the critical examination of the sociopolitical constraints in health and health care of populations. The roles of community, national, and international health organizations will be examined. Meets general education requirement in the area of social and behavioral sciences. Cross listed with NAHS 345.

**IST 350. Communication, Culture, and Diversity. (3-0-3); I, II.** *Prerequisite: CMSP 108.* An examination of speech communication theory and skills useful under conditions of cultural diversity with a focus on the improvement of communication across cultural and group verbal and nonverbal language systems. *This course satisfies the area studies-humanities for general education.* Cross listed with CMSP 350.

**IST 351. England to 1688. (3-0-3); I.** *Prerequisite: HIS 250.* The political, social, and economic institutions of England through the fall of the Puritan Commonwealth. Cross listed with HIS 351.

**IST 352. England since 1688. (3-0-3); II.** *Prerequisite: HIS 250.* Study of England from the Restoration to the rise of the British Commonwealth. Cross listed with HIS 352.

**IST 353. Russia to 1917. (3-0-3); I.** *Prerequisite: HIS 250.* The story of Russia from Kievan times to the overthrow of the Romanov dynasty. Cross listed with HIS 353.

**IST 354. Russia since 1917. (3-0-3); II.** *Prerequisite: HIS 250.* Detailed account of Soviet Russia from revolution through the end of the Cold War. Cross listed with HIS 354.

**IST 355. Modern Germany. (3-0-3); on demand.** *Prerequisite: HIS 250.* History of Germany from unification to the present in the context of European and world events. Cross listed with HIS 355.

**IST 358. Revolutionary Europe. (3-0-3); on demand.** *Prerequisite: HIS 250.* History of Europe from the Age of Absolutism to the collapse of the Napoleonic Empire. Cross listed with HIS 358.

**IST 359. Nineteenth Century Europe. (3-0-3); on demand.** *Prerequisite: HIS 250.* The politicians, nationalistic trends, and unification movements leading to World War I. Cross listed with HIS 359.

**IST 360. United Nations and World Organizations. (3-0-3); II.** *Prerequisites: GOVT 230 and 289.* A study of the evolution of international organizations from the League of Nations to the United Nations and of the contemporary problems and issues of present world organizations. Cross listed with GOVT 360.

**IST 361. Twentieth Century Europe. (3-0-3); on demand.** *Prerequisite: HIS 250.* Detailed survey of World War II, the Cold War, and contemporary events. Cross listed with HIS 361.

**IST 362. Current World Problems. (3-0-3); I, III.** A study of major international problems since World War II, with emphasis on Russian-American relations, regional political conflicts, and major world issues including food, population, and human rights policies. *This course satisfies area studies-social and behavioral sciences for general education.* Cross listed with GOVT 362.

**IST 368. Human Rights and Global Justice. (3-0-3); I.** *Prerequisite: GOVT 289.* A study of the human rights idea; human rights movement; national and international human rights charters and organizations; political, civil, social, and economic rights; rights of women, children, and minorities; and human rights remedies for collective violence, genocide and terrorism. Cross listed with GOVT 368.

**IST 370. African History. (3-0-3); II.** *Prerequisite: HIS 250.* Focus on early African states, the slave trade era, the rise and fall of imperial empires, and post independence events. Cross listed with HIS 370.

**IST 371. Traditional China. (3-0-3); I.** *Prerequisite: HIS 250.* Survey of early Chinese civilization and its institutions. Cross listed with HIS 371.

**IST 372. Modern China. (3-0-3); II.** *Prerequisite: HIS 250.* Survey of Chinese history since the nineteenth century. Cross listed with HIS 372.

**IST 373. Japanese Civilization. (3-0-3); on demand.** *Prerequisite: HIS 250.* Survey of Japanese history from the beginning of its civilization to its rise as world power. Cross listed with HIS 373.

**IST 374. The Middle East. (3-0-3); on demand.** *Prerequisite: HIS 250.* Survey of the Moslem world beginning with the Eighth Century and culminating in the present Middle Eastern situation. Cross listed with HIS 374.

**IST 379. Latin American History. (3-0-3); on demand.** *Prerequisite: HIS 250.* The Indian background, the rise and fall of the Iberian empires, and major events since independence. Cross listed with HIS 379.

**IST 383. Asia. (3-0-3); on demand.** The human-land relations characterizing this large and diverse region. An evaluation of a continent in the midst of change in terms of geographic potentials. Cross listed with GEO 383.

**IST 385. The Middle East. (3-0-3); on demand.** A study of the Middle East, its neighbors, and Islam with a focus on the physical resources, religious divisions, cultural groups and the geopolitics of the region. Cross listed with GEO 385.

**IST 399. Selected Topics in International Studies. (3-0-3); I, II.** *Prerequisite: consent of instructor.* Special course which supplement regular course offerings. May be repeated if the subtitle indicates that a different course is being offered.

**IST 401. Seminar in International Studies. (3-0-3); II.** *Prerequisites: IST 101 and nine hours of IST classes or consent of associate dean for international education.* Analysis and discussion of problems and issues in international studies. With guidance of international studies faculty, students will prepare and present a major research project that applies an international context to their major disciplines/areas of study.

**IST 409. International Management. (3-0-3); on demand.** *Prerequisite: MNGT 301.* A global view of management within various cultures and countries. The course covers international competition, cross-national ethics, international strategy, cross-cultural management, international human resources, and international leadership. Cross listed with MNGT 409.

**IST 430. Canadian Parliament Internship. (3-0-3). III.** A five week summer internship with a member of the Canadian parliament in Ottawa. Prior approval of the internship supervisor is required.

**IST 447. International Economics. (3-0-3); on demand.** *Prerequisite: ECON 101 or higher.* International trade theory, international monetary relationships, and the balance of payments. Emphasis is placed on contemporary problems and possible solutions. Cross listed with ECON 447.

**IST 469. International Marketing. (3-0-3); II.** *Prerequisite: MKT 304.* The role of the United States in the competitive arena of world trade. Preparing students to operate and compete globally; how to find new markets to replace saturated markets, how to determine which products international customers want, how to customize products for these demands, how to best reach these customers, what pricing strategies are most appropriate, what distribution channels are adequate, and how to overcome barriers that hinder implementation of marketing programs. Cross listed with MKT 469.

**IST 481. German Art of the 20th Century. (3-0-3); on demand.** *Prerequisite: consent of instructor.* This course will examine the visual expression of German, Austrian, and Swiss artists of the 20th Century, including Die Brucke, Der Blaue Reiter, Dada, Neue Sachlichkeit, Surrealism, Bauhaus, art of National Socialism, and Post-War developments in the art of both West and East Germany. Particular emphasis will be placed on art and artists in relationship to political and social events of the time, especially the two World Wars, the rise of National Socialism, and the Cold War. Cross listed with ART 481.

**IST 482. Contemporary World Art. (3-0-3); on demand.** This course will provide a worldwide survey of contemporary visual arts in historical context and will explore current issues in contemporary art. Cross listed with ART 482.

### Industrial Technology - Computer Aided Design

**ITCD 103. Computer Aided Design and Drafting I. (2-2-3); I, II.** The study and application of producing two and three dimensional drawings with CAD. Costs, software applications, advantages and disadvantages of a CAD system are also discussed.

**ITCD 203. Computer Aided Design and Drafting II. (2-2-3); II.** *Prerequisite: IT CD 103.* Breadth and depth are derived from the background of principles and techniques developed previously in technical drawing. Focus on working drawings.

**ITCD 215. Introduction to 3D Design and Modeling. (2-2-3); I, II.** *Prerequisite: ITCD 103 or consent of instructor.* This course facilitates learning to create 3D drawings of objects, parts, and assemblies through typical CAD and parametric procedures

**ITCD 301. Tool and Equipment Design. (2-2-3); I, even years.** *Prerequisite: ITCD 103 and MATH 152 or higher.* The layout and design of tooling, jigs, fixtures, gages, and equipment through computer aided design techniques.

**ITCD 305. Residential Architectural Design. (2-2-3); I, odd years.** *Prerequisite: ITCD 103 and MATH 152 or higher.* Instruction centers around the problems, practices, and techniques of the residential architectural design and drafting, including historical development.

**ITCD 315. 3D Design, Modeling and Animation. (2-2-3); II.** *Prerequisite: ITCD 215 or consent of instructor***.** Content will include advanced dimensioning techniques, utilization of attributes, parametric modeling, illustration, presentations, animation, and programming**.**

**ITCD 403. Computer Aided Design of Mechanisms. (2-2-3); II, odd years.** *Prerequisite: ITCD 403, ITCD 315 and MATH 152 or higher.* Mathematical and graphic solution of problems involving the principles of machine elements. A study of motion of linkages, velocities, and acceleration of points within a link mechanism; layout methods for designing cams, belts, pulleys, gears and gear trains.

**ITCD 404. Commercial Architectural Design. (2-2-3); II, even years.** *Prerequisite: ITCD 215 and MATH 152 or higher.* A technical course covering the fundamental principles, techniques, and practices of commercial architectural design and drafting.

**ITCD 405. Civil Drafting. (2-2-3); II, odd years.** *Prerequisites: ITCD 103, and MATH 152 or higher.* Computerized drawings involving roadways, bridges, large developments, plats, and deeds.

### Industrial Technology - Construction Management

**ITCM 101. Introduction to Construction Technology. (3-0-3); I.** Discussion of various aspects of the construction industry including typical building methods, cost factors, and personnel requirements. Includes residential and commercial building.

**ITCM 202. Structural Analysis. (2-2-3); I.** *Prerequisite: MATH 152 or higher.* Review of typical structural design methods with applied calculation using free body diagrams and other static load methods.

**ITCM 203. Construction Methods and Materials I. (2-2-3); I.** An investigation of various construction and building techniques, including traditional and modified methods. Laboratory will include model and prototype development.

**ITCM 204. Codes, Contracts, and Specifications. (3-0-3); II.** Exposure to local and state codes and architectural specifications necessary to meet contract requirements. Introduction to various code organizations and file systems.

**ITCM 205. Estimating and Construction Costs. (3-0-3); II.** Estimating cost procedures typically used for bid specifications. Current and projected material and construction cost accounting procedures.

**ITCM 304. Interpretation of Technical Drawings. (3-0-3); II.** *Prerequisites: one introductory course (ITCM 101, ITEC 140, 141, or ITMT 186) and ITCD 103.* A study of the application, interpretation, and visualization of technical drawings in residential and commercial industrial projects. Students will learn to use technical drawings to communicate ideas, and plan, schedule, and control industrial components, materials, and methods.

**ITCM 306. Construction Project Management. (2-2-3); II.** *Prerequisites: ITCM 101 and MATH 141 or higher or consent of instructor.* The planning, scheduling, and control of project resources in the construction industry. Topics include work breakdown structures, precedence grids, precedence node diagrams, analytical methods for network solutions, resource scheduling, leveling and allocation, time-cost tradeoffs, and project-scheduling simulation.

**ITCM 307. Hydrology. (3-0-3); on demand.** *Prerequisites: GEOS 200, or consent of instructor.* A study of surface and subsurface fluid flow systems. Basic areas will include open and closed channel flow, hydrogeology, sedimentation/erosion control, and applicable state/federal regulations.

**ITCM 310. Principles of Surveying. (2-2-3); I.** *Prerequisites: ITCM 101, MATH 141 or higher, technical drawing or CAD course; or consent of instructor.* A study of modern surveying methods and equipment, field and office procedures, and surveying applications in the planning, design, layout, and construction of our physical environment and infrastructure.

**ITCM 403. Construction Methods and Equipment II. (3-0-3); II.** *Prerequisites: ITCM 203 or consent of instructor.* A continuation of ITCM 203, this course is a study of the technical and management methods in construction techniques, with concentration on heavy or horizontal construction. Topics include excavation methods, equipment requirements, types, selection and scheduling, commercial high explosives, blasting pattern design, and legal/safety considerations.

**ITCM 410. Construction Surveying. (2-2-3); I.** *Prerequisites: ITCM 310 or consent of instructor.* A study of advanced surveying applications in the planning, design, layout, and construction of our physical environment and infrastructure, with emphasis placed on the development of effective strategies to solve modern surveying problems within the construction industry.

### Industrial Technology-Computer Graphics

**ITCG 102. Graphic Arts I. (2-2-3); I.** A survey course covering the broad practices, techniques and problems of the graphic arts industry. Study and experience include history, design and layout, composition methods, image reproduction, screen process and bindery applications.

**ITCG 202. Graphic Arts II. (2-2-3); II.** *Prerequisite: ITCG 102.* An advanced course for students to apply the principles and competencies developed in the initial course. Units include automatic press operation (letterpress and offset), bindery operations, and darkroom procedures for photography and photographic screen process applications to the graphic arts industry.

**ITCG 302. Offset Lithography. (2-2-3); II.** The study of the history and fundamentals of photo offset lithography in the graphic arts industry. Experience is achieved in copy (hot or cold type), darkroom procedures (line copy and halftone film developing),

stripping/plate making, press operation, and other facets relating to the industry.

**ITCG 303. Computer Imaging and Illustration. (2-2-3); II.** *Prerequisite: ITCD 103.* A study of the principles, practices and techniques used in industry to illustrate complex mechanisms in pictorial form.

**ITCG 322. Electronic Imaging and Photography. (2-2-3); on demand.** Introductory course emphasizing the techniques and mechanics of photography as they apply to composition and darkroom procedures. Students will provide their own equipment and supplies (focusing camera, film, and enlarging paper).

**ITCG 350. Electronic Composition I. (2-2-3); I, even years.** *Prerequisite: consent of instructor.* An introductory course of theory and practical involvement relating to computer image generated type styles and sizes as indicated on a properly prepared layout of the job elements. The course will cover background of direct entry, VDT, and newer machine principles as they are marketed and available to the graphic arts industry.

**ITCG 351. Graphic Duplication. (2-2-3); on demand.** *Prerequisite: ITCG 202.* A survey of the use of various methods and devices of the graphic arts currently used in the typical office or in-plant reproduction center. Experience will be gained in the preparation of direct and indirect methods of producing graphic images.

**ITCG 450. Electronic Composition II. (2-2-3); II, even years.** *Prerequisite: ITCG 350.* A continuation of ITCG 350, concentrating on the advanced commands and intricate facets of computer image generated copy. A live job involvement to simulate an actual industrial experience in the classroom environment is the core of learning.

### Electrical, Electronics, Telecommunications and Computer Technology

**ITEC 140. Basic Electricity. (2-2-3); I, II.** General course on the laws, theories, and applications of electricity. Options of electricity, electronics, or manufacturing robotics should take ITEC 141. Lab required.

**ITEC 141. DC Circuits. (2-2-3); I, II.** An introduction to fundamentals of electricity and electronics, including electronics principles, components, quantities, measurements, and design and analysis of DC circuits.

**ITEC 144. Network Fundamentals. (2-2-3), II.** *Prerequisite: ITEC 141 or consent of instructor.* This course will study Computer Networks including the theory of network operation, selection of hardware, and topology design for such applications as Peer-to-Peer, Local Area Networks (LAN) and Wide Area Networks (WAN). The course will also survey current Network Protocols used for signal transport over networks, packet switching, and routing techniques.

**ITEC 215. Basic Control Systems. (2-2-3); I.** *Prerequisite: ITEC 141.* Control of AC and DC loads in commercial and industrial applications. Course content will include the selection and application of control devices and control relays, and the design of control circuits using electromechanical devices and programmable controllers.

**ITEC 240. Residential Wiring. (2-2-3); I, II.** *Prerequisite: ITEC 141 or consent of instructor.* Designing, planning, estimating, and methods of constructing electrical systems for single family dwellings. Based on most recent National Electrical Code. Lab required.

**ITEC 241. AC Circuits. (2-2-3); I, II.** *Prerequisites: ITEC 141 and MATH 141 or higher or consent of instructor.* Study of AC circuits, including electromagnetism, AC principles, components, quantities, measurements, and design and analysis of AC circuits.

**ITEC 242. Principles of Communications. (2-2-3); I.** *Prerequisite: ITEC 241 or consent of instructor.* This course will study the technical foundations of all electronic communications systems. The students will examine the key concepts in electronic communications, including principles of modulation, the distinction between analog and digital communications, and basics of transmission path engineering.

**ITEC 244. Fiber Optic Theory and Applications. (2-2-3); II.** *Prerequisite: ITEC 242 or consent of instructor.* This course covers the theory of fiber optic transmission media and their application to various communication systems, from long haul, high-capacity voice/data networks, to local area networks (LAN). It will integrate hands-on laboratory experiments with lecture, readings, and problem assignments. Students will learn the principles of light transmission in optical fiber, as well as the design and configuration of communications transmission systems based on fiber optics.

**ITEC 245. Digital Electronics. (2-2-3); II.** *Prerequisite: ITEC 241 or consent of instructor.* Functional and logical operation of digital circuits, including logic gates, combinational logic, multivibrators, counters and registers.

**ITEC 342. Electronic Devices and Circuits. (2-2-3); II.** *Prerequisite: ITEC 242.* Solid state devices and integrated circuits along with their applications. Topics include FETs, operational amplifiers, thyristors and other specialized devices, oscillators, active filters, and voltage regulators.

**ITEC 343. Motors and Generators. (2-2-3); II.** *Prerequisite: ITEC 241 or consent of instructor.* Characteristics, selection, and control of AC and DC motors, solenoids, and other commercial or industrial loads. Selection and application of control devices and relays. Design of control circuits using relay logic and programmable controllers. Lab required.

**ITEC 344. Wireless Communications. (2-2-3); I.** *Prerequisite: ITEC 244 or consent of instructor.* The course covers fundamental concepts of wireless communications including analog and digital modulation, radio propagation, antennas, transmitter and receiver circuitry, and cellular telephony and radio.

**ITEC 345. Microprocessor Electronics. (2-2-3); I.** *Prerequisite: ITEC 245 or consent of instructor.* Components and operation of a microprocessor system, including program counters, address counters, accumulators, arithmetic logic units, instruction decoders, controller-sequencers, and registers.

**ITEC 346. Programmable Logic Controllers (PLC). (2-2-3); II.** *Prerequisite: ITEC 215 or consent of instructor.* This course covers the study of Programmable Logic Controllers, including the theory of PLC operation, selection of a PLC for an application, and PLC networking and programming.

**ITEC 355. Digital and Microcontroller System Design. (2-2-3); I.** *Prequisite: Itec 245.* Sequential digital logic design technique. Design using Large Scale Integration (LSI) and Very High Speed Integrated Curcuit Hardware Description Language (VHDL) Technology. Design techniques for solving problems using state-of-the-art VHDL and microprocessor components.

**ITEC 443. Industrial Electricity. (2-2-3); II**. *Prerequisites: ITEC 240 and 241, or consent of instructor.* Design, theory, and wiring techniques for commercial and industrial applications. Multi-family dwellings, commercial buildings, and hazardous locations are some of the topics covered. Based on the most recent National Electrical Code. Lab required.

**ITEC 444. Satellite Communications. (2-2-3); II.** *Prerequisite: ITEC 344 or consent of instructor.* The course covers fundamental concepts of satellite communications including satellite link modulation schemes, error-correction techniques, and spacecraft and ground station hardware and instrumentation.

**ITEC 445. Computer Electronics. (2-2-3); II.** *Prerequisite: ITEC 345 or consent of instructor.* Computer architecture, addressing modes, instruction sequence, memories, IO systems, AD systems, assemblers, interpreters, operating systems and microprocessor interfacing.

**ITEC 480. Digital Communication and Networking. (2-2-3); I.** *Prerequisite: ITEC 445 or consent of instructor.* An intensive study of digital electronic communication and networking. The topics include digital modulation, transmission media characteristics, interface standards, network configurations, and testing equipment.

**ITEC 500. Digital Signal Processing I. (2-2-3); I.** *Prerequisite: ITEC 344 or consent of instructor.* This course provides an introduction to the exciting world of signal processing. Upon completion the student will be familiar with the fundamentals of DSP methods and applications using the interactive MAT-LAB signal processing tool box. Designed for students who have some basic familiarity with electric signal analysis.

**ITEC 550. Digital Signal Processing II. (2-2-3); II.** *Prerequisite: ITEC 500 or consent of instructor.* This course provides an introduction to advanced topics in digital signal processing—linear estimation and production analysis, signal modeling, lattice filters, spectral estimation and adaptive filters; signal processing algorithms and techniques used in a broad range of applications.

### Italian

**ITL 190. Conversational Italian. (3-0-3); on demand.** An introduction to Italian language and culture. Emphasis on correct pronunciation, rapid speech, and fluency.

**ITL 200. Conversational Italian II. (3-0-3); on demand.** Emphasis on individual acquisition of correct, idiomatic Italian for communication.

### Industrial Technology - Manufacturing

**ITMT 106. Thermoplastic Processing. (2-2-3); I.** Introduction to the materials and techniques employed in the processing of thermoplastics.

**ITMT 107. Thermosetting Plastics and Composites. (2-2-3); on demand.** Study of the various ways thermosetting plastic compounds are processed.

**ITMT 170. Fundamentals of Robotics. (3-0-3); I, II.** An introduction to the operations and applications of robots. Android and industrial robots; emphasis on the history, development, sociological implications, and future trends. A survey class appropriate for any college major.

**ITMT 186. Manufacturing and Fabrication. (2-2-3); I, II.** Ferrous and nonferrous metals, basic metallurgy and heat treating, sheet metal, basic welding, casting, forging, manufacturing processes and concepts.

**ITMT 270. Robotics Systems Applications. (2-2-3); I.** *Prerequisite: ITMT 170.* Systems engineering for variable sequence, playback, numerical control, and intelligent industrial robots. Economic justification, application, safety, maintenance, and programming. Laboratory activities will include problem-solving assignments with robots.

**ITMT 286. Machine Tool Processes. (2-2-3); II.** *Prerequisites: ITMT 186 and MATH 152 or higher.* Various metal forming and machining experiences; emphasis on exact tolerances and precise dimensions. Lathe, mill, and grinder experiences.

**ITMT 306. Mold Design and Construction. (2-2-3); II.** *Prerequisite: one of the following; ITMT 106 and 386 or consent of instructor.* Design of products in relationship to the physical characteristics of plastics, molding techniques, and mold construction methods.

**ITMT 307. Automated Joining Technology. (2-2-3); on demand.** *Prerequisite: ITMT 387 or ITMT 270 or consent of instructor.* Metal inert gas welding techniques adapted to robots and other automated welding systems. Suitable for both welding technology students and other students involved with the robotics engineering technology option.

**ITMT 370. Robotics Interfacing Engineering. (2-2-3); II.** *Prerequisite: ITMT 270 or consent of instructor.* Electronic, digital, and mechanical interfacing of robots in industrial manufacturing cells. Topics will include open and closed loop feedback control systems, various sensing devices, tactile sensing, vision systems, and voice synthesis.

**ITMT 386. NC-CNC Manufacturing Technology. (2-2-3); I.** *Prerequisites: ITMT 186 and MATH 152 or higher or consent of instructor.* Advanced tooling theory and numerical controlled and computer numerical controlled machine processes. Application and selection of carbide tooling emphasized in production applications.

**ITMT 470. Robotics Applications Engineering. (2-2-3); on demand.** *Prerequisites: ITMT 370 and ITMT 386 or consent of instructor.* Engineering design of a specific manufacturing problem and implementation in the laboratory. Emphasis on industrial engineering techniques, end-of-arm tooling, part orientation, and control devices for unmanned machine cells. An interdisciplinary approach will be used.

**ITMT 486. Patternmaking and Foundry. (2-2-3); on demand.** *Prerequisites: ITMT 386 or consent of instructor.* Casting of hot metals with activities in pattern development, sand testing, and mold design.

**ITMT 488. Flexible Manufacturing Engineering Technology. (2-2-3); II.** *Prerequisite: ITMT 386.* Advanced tools and machining theory; use of carbides, with emphasis on production machining. Turret and progressive tooling design.

**ITMT 588. Manufacturing Information Systems. (2-2-3); on demand.** *Prerequisite: ITMT 488 or consent of instructor.* Advanced tool and machining theory, with emphasis on production machining, and progressive tooling for computerized numerical control applications.

### Latin

**LAT 101. Beginning Latin I. (3-0-3); on demand.** Drill in the basic elements of Latin grammar, word study, and reading of simple Latin selections.

**LAT 102. Beginning Latin II. (3-0-3); on demand.** A continuation of LAT 101.

**LAT 201. Intermediate Latin I. (3-0-3); on demand.** Selections from Catullus, Cicero, Horace, Pliny, Martial, Livy, and Ovid.

**LAT 202. Intermediate Latin II. (3-0-3); on demand.** Writings of Cicero; his life and influence.

**LAT 301. Advanced Latin I. (3-0-3); on demand.** Poets of the Augustan Age, together with the history of the period.

**LAT 302. Advanced Latin II. (3-0-3); on demand.** Further study of the poetry of the Augustan Age. Selections from Vergil's Aeneid.

### Leadership

**LEAD 101. Leadership I. (1-0-1); I.** This course focuses on the characteristics of leaders, types of power, habits of successful leaders, and self-assessment involved in a study of leadership. There is an emphasis on civic engagement and leadership within a community.

**LEAD 102. Service to Society I. (1-0-1); II.** *Prerequisite: LEAD 101 or consent of instructor.* Exploration of leadership as a service to society through critical reflection on community service to populations in need. Integration of service experiences, course readings on justice, charity, and contemporary society, and self-reflection on the obligations of service.

**LEAD 201. Leadership II. (1-0-1); I.** *Prerequisite: LEAD 101 and 102 or consent of instructor.* This course focuses on the analysis of historical concepts and contemporary theories of leadership. Emphasis on application of theoretical concepts to actual leadership situations.

**LEAD 202. Service to Society II. (1-0-1). II.** *Prerequisite: LEAD 201 or consent of instructor.* Apply leadership principles and critically think about leaders as servants to society through active participation in a civic engagement project. Integration of service experiences and course readings on principles related to developing the inner leader are accompanied by self-reflection on the obligations of service.

**LEAD 301. Leading Groups. (1-0-1); I.** *Prerequisite: LEAD 202 or consent of instructor.* Group theory, concepts, research, and principles of application. Understanding how groups function. Development of skills necessary to lead and work effectively in groups through group exercises, civic engagement and experiential learning.

**LEAD 302. Leadership in Organizations. (1-0-1); II.** *Prerequisite: LEAD 301.* Focus on leadership theory and research within and across formal organization settings such as public/private, and profit/non-profit. Continue with group dynamics and explore the ethical use of power.

**LEAD 401. Advanced Leadership I, (1-0-1), I.** Focus on an intensive and integrative study of one or more leadership issues and an applied service learning experience in a leadership role.

**LEAD 402. Advanced Leadership II, (1-0-1), II.** Focus on an intensive and integrative study of leadership in society, leadership self-assessment and an applied service learning experience in a leadership role.

### Library Science and Instructional Media

**LSIM 101. Introduction to Library Research. (2-0-1); I, II, second nine weeks.** Introduction to the resources and services of Camden-Carroll Library including the online catalog, electronic databases, periodical literature, specialized reference sources, and the Internet. Emphasis on skills and tools needed for research projects. Designed for college freshmen. Taught on a pass/fail basis (K-Credit).

**LSIM 201. Living in an Information Society. (3-0-3); II.** A practical introduction to how information is created, organized, retrieved, and evaluated in both electronic and print environments. Uses a concept-based approach and hands-on exercises to teach information retrieval, critical thinking, and lifelong learning skills needed to live in a rapidly changing and technologically sophisticated society. *This course satisfies areas studies-practical living for general education.*

### Mathematics

**MATH 090. Pre-Algebra. (3-0-3); I, II, III.** Exponents, integers, fractions, decimals, square roots, percent with applications, introduction to algebra and basic geometry. This is a course in the developmental studies curriculum and does not count as credit toward graduation. A student should not expect other institutions to accept this course for transfer credit.

**MATH 091. Beginning Algebra. (3-0-3); I, II, III.** A first course in algebra for students with no previous experience with algebra or who have been unsuccessful in attempting a course in Algebra I at the secondary school level. This is a course in the developmental studies curriculum and does not count as credit toward graduation. A student should not expect other institutions to accept this course for transfer credit.

**MATH 093. Intermediate Algebra. (3-0-3); I, II, III.** *Prerequisite: "C" or better in MATH 091 or minimum ACT Math subscore of 18.* A second course in algebra, giving the student an opportunity to gain additional competency in algebra necessary for certain courses at the University. This is a course in the developmental studies curriculum and does not count as credit toward graduation. A student should not expect other institutions to accept this course for transfer credit.

**MATH 110. Problem Solving Techniques. (1-0-1); on demand.** A basic course emphasizing problem solving using graphing calculators.

**MATH 123. Introduction to Statistics. (3-0-3); I, II, III.** *Prerequisite: "C" or better in MATH 091 or minimum ACT Math subscore of 18.* Basic concepts of probability, sampling, and the algebra of events. Properties of selected discrete and continuous distributions. *This course satisfies the required core-math reasoning for general education.*

**MATH 131. Mathematical Reasoning and Problem Solving. (3-0-3); I, II, III.** *Prerequisite: "C" or better in MATH 091 or minimum ACT Math subscore of 18.* A course providing the student with experiences designed to improve the ability to make decisions and solve a variety of problems. Emphasis is on learning to investigate, organize, observe, question, discuss, reason, generalize and validate. Mathematical content includes topics which are related to consumer mathematics, geometry, graphs, probability and statistics. *This course satisfies the required core-math reasoning for general education.*

**MATH 135. Mathematics for Technical Students. (3-0-3); I, II, III.** *Prerequisite: "C" or better in MATH 091 or minimum ACT Math subscore of 18.* Mathematics applied to technical programs. Modeling real world problems involving algebra, geometry, and trigonometry; and quadratic, polynomial, exponential, logarithmic, and trigonometric functions with applications to a variety of technical fields.

**MATH 141. Plane Trigonometry. (3-0-3); I, II, III.** *Prerequisite: "C" or better in MATH 093 or minimum ACT Math subscore of 20.* Trigonometric functions, trigonometric identities, inverse functions, and applications. *This course satisfies the required core-math reasoning for general education.*

**MATH 152. College Algebra. (3-0-3); I, II, III.** *Prerequisite: "C" or better in MATH 093 or minimum ACT Math subscore of 20.*

Field and order axioms; equations, inequalities; relations and functions; exponentials; roots; logarithms; sequences. *This course satisfies the required core-math reasoning for general education.*

**MATH 160. Mathematics for Business and Economics. (4-0-4); on demand.** *Prerequisite: "C" or better in MATH 093 or minimum ACT Math subscore of 20.* An introduction to finite mathematics and calculus. Systems of linear equations and inequalities, matrix algebra, linear programming, differentiation and integration; applications to business and economics.

**MATH 170. Introduction to Computer Science. (3-2-4); I, II.** *Prerequisite: MATH 152 or minimum ACT Math subscore of 22.* An overview of modern computer science; mathematical treatment of algorithms; implementation of fundamental programming principles in a modern programming language; techniques of problem solving related to computing. Designed for students who have basic familiarity with Microsoft Office applications. Cross listed with CS 170. *This course satisfies the computer competency requirement for general education.*

**MATH 174. Pre-Calculus Mathematics. (3-0-3); I, II.** *Prerequisite: "C" or better in MATH 141 or minimum ACT Math subscore of 22.* Exponential, logarithmic, and trigonometric functions; complex numbers, theory of equations. *This course satisfies the required core-math reasoning for general education.*

**MATH 175. Calculus I. (4-0-4); I, II.** *Prerequisites: "C" or better in MATH 174, minimum ACT Math subscore of 25, or MATH 141 and 152.* Functions and graphs; limits; continuity; differentiation; applications of the derivative; integration; applications of the definite integral. *This course satisfies the required core-math reasoning for general education.*

**MATH 231. Mathematics for the Elementary Teacher I. (2-2-3); I, II.** *Prerequisite: completion of a general education required core course in mathematics.* Number systems, primes, and divisibility; fractions; decimals; real numbers; algebraic sentences. Successful completion of a basic skills exam in mathematics is required for credit in this course. Designed for preservice teachers P-9.

**MATH 232. Mathematics for the Elementary Teacher II. (2-2-3); I, II, III.** *Prerequisite: MATH 231.* Introduction to probability and statistics; geometric shapes; geometry of measurement; congruence and similarity. *This course satisfies the area studies-natural and mathematical sciences for general education.* Designed for preservice teachers P-9.

**MATH 252. Boolean Algebra. (3-0-3); on demand.** *Prerequisite: MATH 152 or consent of instructor.* Study of the basic laws and operations of Boolean algebra; simplification techniques, circuit design.

**MATH 260. FORTRAN Programming. (3-0-3); I.** *Prerequisite: MATH 170 or consent of instructor.* Introduction to FORTRAN programming language. Application of mathematical techniques to problems in programming. Business, engineering, management, and modeling examples are employed to provide comprehensive knowledge of the language.

**MATH 275. Calculus II. (4-0-4); I, II.** *Prerequisite: MATH 175.* Differentiation and integration of exponential, logarithmic, and trigonometric functions; techniques of integration; numerical methods; improper integrals, infinite series; polar coordinates.

**MATH 276. Calculus III. (4-0-4); I, II.** *Prerequisite: MATH 275.* Polar coordinates; parametric equations; vectors; differential calculus of functions of several variables; multiple integration; vector calculus.

**MATH 300. Introduction to Mathematical Proof. (3-0-3); I, II, III.** *Prerequisites: MATH 141 and 152, or 174.* Propositional calculus; sets; relations; functions; Boolean algebras; cardinality, mathematical proofs.

**MATH 301. Elementary Linear Algebra. (3-0-3); II.** *Prerequisite: MATH 175 or consent of instructor.* Vector spaces; determinants; matrices; linear transformations; eigenvectors.

**MATH 303. Data Structures. (3-0-3); I, II.** *Prerequisite: CIS 205.* Key concepts of data definitions, such as lists, stacks, and queues. Recursion, graphs and trees, sorting and searching. Structured program design, elementary data structures and the study of algorithms as a tool of program design. Cross listed with CIS 303 and CS 303.

**MATH 308. Discrete Mathematics. (3-0-3); I.** *Prerequisites: MATH 170, 275, and either CS 303 or MATH 300.* An introduction to the concepts of sets and functions, mathematical logic, and proof; elementary counting principles; recurrence relations and recurrence models; algorithmic efficiency; the fundamentals of graph theory.

**MATH 312. Numerical Methods. (3-0-3); I.** *Prerequisite: MATH 275.* A basic course in numerical analysis, including error analysis, series approximation, numerical integration techniques, practical applications of matrices, solution of simultaneous non-linear equations, and curve-fitting.

**MATH 330. Geometry for Teachers (P-9). (2-2-3); I, II.** *Prerequisite: MATH 232.* Experimental and axiomatic geometry; points, lines, and planes; separations, curves and surfaces; congruence; measures; parallelism and similarity; coordinate geometry; transformations in a plane.

**MATH 332. Introduction to Finite Mathematics. (3-0-3); II.** *Prerequisite: MATH 152.* Linear programming, combinatorial analysis, probability, matrices, game theory, and graph theory. Designed for preservice teachers P-9.

**MATH 350. Introduction to Higher Algebra. (3-0-3); II.** *Prerequisite: MATH 300.* Groups, rings, integral domains, related topics.

***MATH 353. Statistics. (3-0-3); I, II, III.** *Prerequisite: completion of a general education math reasoning core course.* Introduction to statistics with applications. *This course satisfies the area studies-natural and mathematical sciences for general education.*

***MATH 354. Business Statistics. (3-0-3); I, II, III.** *Prerequisite: completion of a general education math reasoning core course.* Introduction to statistics with applications to business. *This course satisfies the area studies-natural and mathematical sciences for general education.*

*A student may receive credit toward graduation in only one of the following: MATH 353 or 354.

**MATH 355. Operations Research. (3-0-3); I.** *Prerequisites: MATH 170 and 175.* Linear, integer and dynamic programming, game theory, and scheduling.

**MATH 363. Differential Equations. (3-0-3); II.** *Prerequisite: MATH 275.* Special types of first order differential equations; linear differential equations; operator methods; Laplace transforms; series methods; applications.

**MATH 365. Introduction to Mathematical Statistics. (3-0-3); I.** *Prerequisite: MATH 275.* A calculus-based introduction to probability and statistics.

**MATH 370. College Geometry I. (3-0-3); I.** *Prerequisite: MATH 300.* Sets of axioms, finite geometries, convexity, Euclidean geometry of the polygon and circle, geometric constructions.

**MATH 371. College Geometry II. (3-0-3); II.** *Prerequisite: MATH 370.* Geometric transformations, non-Euclidean geometry, projective geometry, geometric topology, geometry of inversion.

**MATH 391. Dynamics. (3-0-3); I.** *Prerequisite: PHYS 221 or 231.* A study of motion of bodies. Kinematics and dynamics of particles and rigid bodies; work and energy; impulse and momentum. Cross listed with PHYS 391.

**MATH 402. Integrated Biology, Mathematics, and Physical Science Teaching Methods. (2-2-3); I.** *Prerequisites: admission to TEP and completion of at least 17 hours in mathematics. Co-requisite: MATH 403.* Methods course for students who desire to become teachers of middle school science and secondary school biology, physical science, or mathematics. The course provides integrated and content specific clinical experiences designed to prepare students for student teaching their subsequent roles as classroom teachers. Cross listed with BIOL 402.

**MATH 403. Integrated Biology, Mathematics, and Science Field Experiences in Teaching. (1-4-3); I.** *Prerequisites: admission to TEP and completion of at least 17 hours in mathematics. Co-requisite: MATH 402.* Course provides structured field experiences for students who desire to become teachers of secondary school biology, mathematics, or physical science. This course provides guided field experiences to acclimate the student into the culture of teaching. Cross listed with BIOL 403 and SCI 403.

**MATH 410. Introduction to Real Analysis. (3-0-3); II.** *Prerequisites: MATH 276 and 300.* Algebraic and topological properties of the reals; limits and continuity; differentiation; infinite series; Riemann integration.

**MATH 419. Probability. (3-0-3); I.** *Prerequisites: MATH 275 and 365.* A course in mathematical probability and its applications to statistical analysis.

**MATH 420. Mathematical Statistics. (3-0-3); II.** *Prerequisite: MATH 419.* Hypothesis testing and estimation; bivariate and multivariate distributions; order statistics; test of fit; nonparametric comparison of locations; distribution theory.

**MATH 455. Linear Statistical Models. (3-0-3); II.** *Prerequisites: MATH 353, 354, or 365 or equivalent.* Linear and quadratic regression models; least squares estimates; statistical inference; multicollinearity; residual analysis; selection of regression models; lack of fit.

**MATH 463. Partial Differential Equations. (3-0-3); I in odd years or on demand.** *Prerequisite: MATH 363 or consent of instructor.* An introductory course in partial differential equations. Topics include partial differential equations of first and second order and applications.

**MATH 481. Mathematics for Engineers and Scientists. (3-0-3); I.** *Prerequisites: MATH 276 and 363.* Fourier series, ordinary and partial differential equations, special functions, and integral transforms. Cross listed with PHYS 481.

**MATH 499C. Senior Capstone. (3-0-3); I, II.** *Prerequisite: junior or senior standing.* Designed to give the student an introduction to research and literature in mathematics. *This course satisfies integrative component for general education.* Cross listed with CS 499C.

**MATH 504. Topology. (3-0-3); on demand.** *Prerequisites: MATH 300 and 350 or consent of instructor.* Elementary set theory; topological spaces; metric spaces; compactness and connectedness; mapping of topological spaces; related topics.

**MATH 510. Real Variables. (3-0-3); on demand.** *Prerequisite: MATH 410.* Topological properties of Euclidean space; theory of differentiation and integration; sequences and series of functions, metric spaces.

**MATH 511. Functional Analysis. (3-0-3); on demand.** *Prerequisites: MATH 301 and 510 or consent of instructor.* Linear spaces; normed and branched spaces; Hilbert spaces; applications to sequence spaces and Fourier series.

**MATH 540. Biostatistical Methods. (3-1-4); I.** *Prerequisitie: MATH 353 or equivalent, or consent of instructor.* The purpose of this course is to extend students' knowledge in statistical concepts as applied to the health sciences, medicine, and biology. Topics include confidence intervals and hypothesis testing; sample size and power considerations; analysis of variance and multiple comparisons; correlation and regression; multiple regression and statistical control of confounding; logistic regression; survival analysis; and fundamentals of clinical trials.

**MATH 542E. Mathematical Models in Biology for Teachers. (3-0-3); I.** *Prerequisite: MATH 300 or consent of instructor.* Discrete models across a variety of biological subdisciplines. Topics include linear and nonlinear models of population, Markov models of molecular evolution, phylogenetic tree construction, and infectious disease models.

**MATH 553. Concepts in the Design of Experiments. (3-0-3); I.** *Prerequisite: MATH 353, 354, or 365.* Single factor experiments; factorial experiments; qualitative and quantitative factors; fixed, random and mixed models; nested experiments.

**MATH 555. Nonparametric Statistics. (3-0-3); II.** *Prerequisite: MATH 353, 354, or 365.* A course in basic nonparametric statistical methods and applications.

**MATH 563. Probability and Statistics for Teachers. (3-0-3); I, III in even years or on demand.** *Prerequisites: MATH 353 or equivalent, or consent of instructor.* The purpose of this course is to extend students' knowledge of probability and statistical concepts as introduced in the high school curriculum.

**MATH 573. Projective Geometry. (3-0-3); on demand.** *Prerequisite: MATH 370 or consent of instructor.* A synthetic treatment of projective geometry leading into natural homogeneous coordinates; analytic projective geometry; conics; axiomatic projective geometry; some descendants of real projective geometry.

**MATH 575. Selected Topics. (1 to 6 hrs.); I, II, III.** *Prerequisite: consent of instructor.* Topics are offered which meet the needs of the students and which are not otherwise included in the general curriculum.

**MATH 585. Vector Analysis. (3-0-3); on demand.** *Co-requisite: MATH 276.* Vector algebra; vector functions of a single variable; scalar and vector fields; line integrals; generalizations and applications.

**MATH 586. Complex Variables. (3-0-3); on demand.** *Prerequisite: MATH 276 or consent of instructor.* Algebra of complex variables, analytic functions, integrals, power series; residues and poles; conformal mappings.

**MATH 595. Topics in the Mathematics Curriculum. (1 to 6 hrs.); on demand.** *Prerequisite: consent of instructor.* New curricula developments in mathematics.

### Marketing

**MKT 304. Marketing. (3-0-3); I, II.** The basic principles of marketing and the impact of globalization, diversity, ethics, and small business marketing. An understanding of how the elements of the marketing mix (product, price, place, and promotion) are used to

create superior value for customers and achieve organizational objectives.

**MKT 339. Cooperative Education III. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior-level status. Maximum of three hours of cooperative education credit (MKT 339/439) available for option credit.

**MKT 340. Interactive E-Marketing. (3-0-3); on demand.** *Prerequisite: MKT 304 or consent of instructor.* This course examines emerging interactive technologies and their impact on and implications for marketing strategy, consumer behavior, market segmentation, advertising, and media planning. Special emphasis is placed on applying the components of the traditional marketing mix to e-commerce.

**MKT 345. Marketing Strategies for Small Business. (3-0-3); on demand.** *Prerequisite: MKT 304 or consent of instructor.* Examines the marketing methods used by small to medium-sized companies operating with limited budgets. The class will explore the formulation of a marketing plan. In addition pricing, distribution, and promotion issues for the small business will be investigated.

**MKT 350. Personal Selling. (3-0-3); I, II.** *Prerequisite: MKT 304 or consent of instructor.* The major promotional method used in American business, personal selling, involves person-to-person communication between a buyer and seller. The stages of the selling process, such as prospecting, the presentation, and the close will be explored. Not available for option credit.

**MKT 351. Sales Management. (3-0-3); on demand.** *Prerequisites: MKT 304, MNGT 301 or consent of instructor.* Sales management is the administration of a firm's personal selling function. The sales manager has many tasks which will be examined: sales planning and budgeting, estimating market potential and forecasting sales; organizing the sales force; recruiting, selecting, and training; supervising; and evaluating the sales force.

**MKT 354. Consumer Behavior, (3-0-3), I.** *Prerequisite: MKT 304 or consent of instructor. PSY 154 and SOC 101 recommended.* Examines the processes consumers use to pick, secure, use and dispose of products and services. In addition, internal forces such as personality, and external forces such as culture, which impact the decision making process, are reviewed.

**MKT 365. Services Marketing. (3-0-3); on demand.** *Prerequisite: MKT 304 or consent of instructor.* This course examines the marketing of services from a managerial perspective. Includes topics such as the unique nature of services; managing the service encounter; pricing, promoting, and distributing services; and service quality.

**MKT 370. E-tailing and Non-store Marketing (3-0-3); on demand.** *Prerequisite: MKT 304.* This course examines marketing activities and strategies from a non-store perspective. Topics covered include the interactivity of non-store and direct marketing, database management, the Internet, electronic technology, direct mail, and direct response marketing.

**MKT 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various marketing subjects will be presented periodically to supplement the basic course offerings in marketing. Credit toward degree programs must be approved by the student's advisor.

**MKT 439. Cooperative Education IV. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior level status. Maximum of three hours of cooperative education credit (MKT 339/439) available for option credit.

**MKT 451. Retail Marketing. (3-0-3); on demand.** *Prerequisite: MKT 304.* The role of retailing institutions to meet the fast-paced changes in society which confront final consumers in their purchases for personal, family, or household non-business uses. The retailing process is critically analyzed along with the environment within which it operates, and the institutions and functions that are performed.

**MKT 452. Marketing Research and Analysis. (3-0-3); I.** *Prerequisites: MATH 354 and MKT 304.* Marketing research is used by a wide variety of organizations to collect information that will assist them in making better decisions. The process of designing, gathering, analyzing, and reporting data relevant to a specific decision will be explored.

**MKT 453. Marketing Planning and Strategies. (3-0-3); I, II.** *Prerequisites: MKT 304, MNGT 301, and completion of or concurrent enrollment in all required marketing option courses, or consent of instructor.* An integrated course in marketing, systematically oriented with emphasis on the marketing mix, the formulation of competitive strategies, and special attention to market analysis, marketing information, and sales forecasting.

**MKT 454. Integrated Marketing Communication. (3-0-3); II.** *Prerequisite: MKT 304. Required for Marketing option in Business Administration.* Promotional Strategies is dedicated to demonstrating how organizations may communicate, compete and convince their target markets through the interrelationship of advertising, sales promotion, publicity and public relations.

**MKT 455. Advertising. (3-0-3); on demand.** *Prerequisite: MKT 304.* A discussion of the milestones in the evolution of advertising and a description of advertising's role in the marketing communication process. The course will investigate both the client and professional advertiser perspective. Theory and application are stressed.

**MKT 469. International Marketing. (3-0-3); II.** *Prerequisite: MKT 304.* The role of the United States in the competitive arena of world trade. Preparing students to operate and compete globally; how to find new markets to replace saturated markets, how to determine which products international customers want, how to customize products for these demands, how to best reach these customers, what pricing strategies are most appropriate, what distribution channels are adequate, and how to overcome barriers that hinder implementation of marketing programs. Cross listed with IST 469.

**MKT 476. Special Problems in Marketing. (1 to 3 hrs.); I, II, III.** *Prerequisites: senior standing and consent of department chair.* Self-directed independent study on a specific problem, based on written proposal and justification submitted by student prior to registration. Each request will be considered on its own merit in relation to the special needs, interest, and abilities of the student.

**MKT 499. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various marketing subjects will be presented periodically to supplement the basic course offerings in marketing. Credit toward degree programs must be approved by the student's advisor.

### Management

**MNGT 160. Business and Society. (3-0-3); I, II.** A basic introductory course designed to expose students to a variety of issues regarding management, marketing, finance, accounting, economics, technology, and business law. Through this course, students will

develop an understanding and an appreciation of the interaction between the world of business and society. *This course satisfies area studies-practical living for general education.*

**MNGT 199. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various management subjects will be presented periodically to supplement the basic course offerings in management. Credit toward degree programs must be approved by the student's advisor.

**MNGT 261. The Legal Environment of Business Organizations. (3-0-3); I, II.** The forms of business organizations, including sole proprietorships, partnerships, and profit and non-profit corporations. The regulatory environment and legal constraints on organizations; the relationship between business and government in policy formation; and basic legal concepts.

**MNGT 300. Quantitative Methods in Business and Economics. (3-0-3); I, II.** *Prerequisites: ECON 202, MATH 152, 354, or equivalent.* Application of mathematical and statistical techniques to business, the market systems, and the study of economic and finance. Cross listed with ECON 300.

**MNGT 301. Principles of Management. (3-0-3); I, II.** History of management, the management process, the principles of management and application in the operations of business. The fundamental concepts of management applied to such areas of business activity as organization, personnel, production, and research.

**MNGT 306. Production and Quality Management. (3-0-3); II.** *Prerequisites: MATH 152 and 354, MNGT 301.* How Total Quality Management affects operations in manufacturing and service firms. Qualitative and quantitative means for evaluating alternatives for improving customer satisfaction by improving quality, speed and flexibility or by reducing waste are described and illustrated. Statistical quality control, lean production, just-in-time inventory and production procedures, facilities location, and equipment layout are concepts usually addressed using spreadsheet software, a real world approach that facilitates student understanding and problem-solving.

**MNGT 310. Small Business Organization. (3-0-3); II.** Aspects of management that are unique to small firms; economic and social environment in which small firms function; student practice in making decisions on problems facing managers of small businesses.

**MNGT 311. Human Resource Management. (3-0-3); I.** *Prerequisite: MNGT 301.* Personnel management principles, job requirements; selection techniques; testing programs; facilitation of employee adjustment; wage and salary administration; legal aspects of labor relations; financial incentives.

**MNGT 339. Cooperative Education III. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior level status. Maximum of three hours of cooperative education credit (MNGT 339/439) available for option credit.

**MNGT 357. Business Information and Industry Analysis. (3-0-3); I.** *Prerequisite: MNGT 301.* Purpose is to assist management students in understanding the range of business information, alternative sources for information in industry and component sectors of industry.

**MNGT 362. The Legal Environment and Business Practices. (3-0-3); on demand.** *Prerequisite: MNGT 261.* Business practices, emphasizing legal problem avoidance. Areas of the law which impact business success or failure; the Uniform Commercial Code, state and federal regulations, and laws.

**MNGT 365. Financial Issues for Small Business (3-0-3); on demand.** *Prerequisites: ACCT 281, 282, and FIN 360.* Examines the financial issues small businesses deal with at start-up, and on a day-to-day basis. Students will learn how small businesses can apply financial principles to benefit the company. Cross listed with FIN 365.

**MNGT 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various management subjects will be presented periodically to supplement the basic course offerings in management. Credit toward degree programs must be approved by the student's advisor.

**MNGT 409. International Management. (3-0-3); on demand.** *Prerequisite: MNGT 301.* A global view of management within various cultures and countries. The course covers international competition, cross-national ethics, international strategy, cross-cultural management, international human resources, and international leadership. Cross listed with IST 409.

**MNGT 411. Labor Relations. (3-0-3); on demand.** *Prerequisite: MNGT 311.* Historical development of the U.S. labor movement and a comparative analysis with other Western culture labor movements. Emphasis on developing insights into labor's point of view. An introduction to labor-management negotiations and grievance procedures.

**MNGT 417. Management and Marketing of Public and Non-Profit Organizations. (3-0-3); on demand.** *Prerequisites: MKT 304 and MNGT 301.* The application of principles of management and marketing to the specific needs of public and non-profit organizations. Formulation, implementation, and evaluation strategies for management and marketing of these organizations is explored.

**MNGT 420. New Venture Creation. (3-0-3); on demand.** *Prerequisites: FIN/MNGT 365 and MKT 345.* Examines the issues small businesses deal with at start-up and on a day-to-day basis. Students will learn the steps necessary to start a small business.

**MNGT 425. Training and Development in Industry. (3-0-3); on demand.** *Prerequisites: BIS 321 or 421, MNGT 301.* Study of the relevant theories, issues, trends, and methods in training and developing adult learners in work organizations; includes program design, needs and task analysis, delivery methods, working with consultants, and program evaluations. Cross listed with BIS 425.

**MNGT 436. Decision-Making and Project Management. (3-0-3); on demand.** *Prerequisite: MNGT 306 or consent of instructor.* Presents a decision-making framework that allows students to explore and weigh three critical elements of formulating solutions for unstructured problems; root cause analysis, option analysis, and risk analysis. Also presents project management concepts to deal with the implementation of decisions and plans.

**MNGT 439. Cooperative Education IV. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior level course. Maximum of three hours of cooperative education credit (MNGT 339/439) available for option credit.

**MNGT 463. Law and Ethics in Business. (3-0-3); II.** *Prerequisite: MNGT 261 or consent of instructor.* The social responsibility of business and individuals in commerce. Value systems, externally or self-imposed, their development and operation.

**MNGT 465. Organizational Behavior. (3-0-3); I, II.** *Prerequisite: MNGT 301.* A study of human and interpersonal behavior critical to understanding, evaluating, and appraising business and social situations. Emphasis on skill and the ability to work with people, groups, and institutions.

**MNGT 475. Business Leadership and Teamwork. (3-0-3): I.** *Prerequisite: MNGT 465.* An in-depth study of effective leadership within modern organizations focused primarily upon managerial leadership. The importance and use of teams and groups within modern organizations will also be examined. Theories, research, strategic importance, and skills in the areas of leadership and teamwork will be studied.

**MNGT 476. Special Problems in Management. (1 to 3 hrs.); on demand.** *Prerequisites: senior standing and consent of department chair.* Self-directed independent study on a specific problem, based on written proposal and justification submitted by student prior to registration. Each request will be considered on its own merit in relation to the special needs, interest, and abilities of the student.

**MNGT 486. Management Internship Program. (3 to 12 hrs.); on demand.** *Prerequisites: junior or senior standing and 12 hours in major area, with 2.5 GPA in major area and consent of instructor.* The internship program involves placement of students in positions in business comparable to those filled by professional career employees. Participants work under the supervision of high level officials possessing major departmental responsibilities. Available as option credit.

**MNGT 499C. Strategic Management. (3-0-3); I, II, III.** *Prerequisites: ECON/MNGT 300, FIN 360, MKT 304, MNGT 301, MNGT 465, and senior standing.* Approaches for the integration of business functions and the development of strategies in managing domestic and global enterprises for competitive advantage. This course satisfies the integrative component for general education and is required for the BBA core.

### Military Science

**MS 101. Introduction to Military Science. (2-0-2); I.** *Co-requisite: MS 101A.* Make your first new peer group at college one committed to performing well and enjoying the experience. Increase self-confidence through team study and activities in basic drill, physical fitness, rappelling, leadership reaction course, first aid, making presentations and basic marksmanship. Learn fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environments. Participation in a weekend exercise is optional, but highly encouraged.

**MS 101A. Leadership Laboratory. (0-2-1). I.** *Co-requisite: MS 101.* Only open to (and required of) students in the associated Military Science course. Series with different roles for students at different levels in the program. Learn and practice basic skills, gain insight into advanced course in order to make an informed decision whether to apply for it. Build self-confidence and team building leadership skills that can be applied throughout life.

**MS 102. Introduction to Leadership. (2-0-2); II.** *Co-requisite: MS 102A.* Learn/apply principles of effective leading. Reinforce self-confidence through participation in physically and mentally challenging exercises with upper division ROTC students. Develop communication skills to improve individual performance and group interaction. Relate organizational ethical values to the effectiveness of a leader. Participation in weekend exercise is optional, but highly encouraged.

**MS 102A. Leadership Laboratory. (0-2-1); II.** *Co-requisite: MS 102.* Only open to (and required of) students in the associated Military Science course. Series with different roles for students at different levels in the program. Learn and practice basic skills. Gain insight into advanced course in order to make an informed decision whether to apply for it. Build self-confidence and team building leadership skills that can be applied throughout life.

**MS 201. Self/Team Development. (2-0-2); I.** *Co-requisite: MS 201A.* Learn/apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams of people. Develop skills in oral presentations, writing concisely, planning of events, coordination of group efforts, advanced first aid, land navigation, and basic military tactics. Learn fundamentals of ROTC's Leadership Assessment Program. Participation in a weekend exercise is optional, but highly encouraged.

**MS 201A. Leadership Laboratory. (0-2-1); I.** *Co-requisite: MS 201.* Only open (and required of) students in the associated Military Science course. Series with different roles for students at different levels in the program. Learn and practice basic skills. Gain insight into Advanced Course in order to make an informed decision whether to apply for it. Build self-confidence and team building leadership skills that can be applied throughout life.

**MS 202. Individual/Team Military Tactics. (2-0-2); II.** *Co-requisite: MS 202A.* Introduction to individual and team aspects of military tactics in small unit operations. Includes use of radio communications, making safety assessments, movement techniques, planning for team safety/security, and methods of pre-execution checks. Practical exercise with upper division ROTC students. Learn techniques for training others as an aspect of continued leadership development. Participation in a weekend exercise is optional, but highly encouraged.

**MS 202A. Leadership Laboratory. (0-2-1); II.** *Co-requisite: MS 202.* Only open to (and required of) students in the associated Military Science course. Series with different roles for students at different levels in the program. Learn and practice basic skills. Gain insight into advanced course in order to make an informed decision whether to apply for it. Build self-confidence and team building leadership skills that can be applied throughout life.

**MS 301. Leading Small Organizations I. (2-0-2); I.** *Co-requisite: MS 301A.* Series of practical opportunities to lead small groups, receive personal assessment and encouragement, and lead again in situations of increasing complexity. Uses small unit tactics and opportunities to plan and conduct training for lower division students both to develop such skills and as vehicles for practicing leading. Two hours and a required leadership lab, MS 301A, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

**MS 301A. Advanced Leadership Laboratory. (0-2-1); I.** *Co-requisite: MS 301.* Open only to students in the associated Military Science course. Series with different roles for students at different levels in the program. Involves leadership responsibilities for the planning, coordination, execution, and evaluation of various training and activities with basic course students and for the ROTC program as a whole. Students develop, practice, and refine leadership skills by serving and being evaluated in a variety of responsible positions.

**MS 302. Leading Small Organizations II. (2-0-2); II.** *Co-requisite: MS 302A.* Continues methodology of MS 301. Analyze tasks; prepare written or oral guidance for team members to accomplish task. Delegate tasks and supervise. Plan for and adapt to the unexpected in organization under stress. Examine and apply lessons from leadership case studies. Examine importance of ethical decision making in setting a positive climate that enhances team per-

formance. Two hours and required leadership lab, MS 302A, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

**MS 302A. Advanced Leadership Laboratory. (0-2-1); II.** *Co-requisite: MS 302.* Open only to students in the associated Military Science course. Series with different roles for students at different levels in the program. Involves leadership responsibilities for the planning, coordination, execution, and evaluation of various training and activities with basic course students and for the ROTC program as a whole. Students develop, practice, and refine leadership skills by serving and being evaluated in a variety of responsible positions.

**MS 339. Cooperative Education in Military Leadership. (0-0-4); III.** Attendance at ROTC Advanced Summer Camp. (Six weeks in duration.)

**MS 401. Leadership Challenges and Goal Setting. (2-0-2); I.** *Co-requisite: MS 401A.* Plan, conduct, and evaluate activities of the ROTC cadet organization. Articulate goals, put plans into action to attain them. Assess organizational cohesion and develop strategies to improve it. Develop confidence in skills to lead people and manage resources. Learn/apply various Army policies and programs in this effort. Two hours and a required leadership lab, MS 401A, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

**MS 401A. Advanced Leadership Laboratory. (0-2-1); I.** *Co-requisite: MS 401.* Open only to students in the associated Military Science course. Series with different roles for students at different levels in the program. Involves leadership responsibilities for the planning, coordination, execution, and evaluation of various training and activities with basic course students and for the ROTC program as a whole. Students develop, practice, and refine leadership skills by serving and being evaluated in a variety of responsible positions.

**MS 402. Transition to Lieutenant. (2-0-2); II.** *Co-requisite: MS 402A.* Continues the methodology from MS 401. Identify and resolve ethical dilemmas. Refine counseling and motivating techniques. Examine aspects of tradition and law as related to leading as an officer in the United States Army. Prepare for future as a successful Army lieutenant. Two hours and a required leadership lab, plus required participation in three one-hour sessions for physical fitness. Participation in one weekend exercise is also required, and one or two more weekend exercises may be offered for optional participation.

**MS 402A. Advanced Leadership Laboratory. (0-2-1); II.** *Co-requisite: MS 402.* Open only to students in the associated Military Science course. Series with different roles for students at different levels in the program. Involves leadership responsibilities for the planning, coordination, execution, and evaluation of various training and activities with basic course students and for the ROTC program as a whole. Students develop, practice, and refine leadership skills by serving and being evaluated in a variety of responsible positions.

### MSU (University Studies)

**MSU 099. Learning for Success. (1-0-1); I, II.** This course is required for students who are re-admitted by the Academic Standards and Appeals Committee. This course is designed to assist students with positive learning experiences in order to enhance academic success.

**MSU 101. Discovering University Life. (1-0-1); I, II.** This course is designed to support new students in making the academic, personal, and social adjustments needed for a successful University experience. This course is a University required freshman course.

**MSU 339. Cooperative Education. (1-8 hrs); I, II, III.** Prerequisite: upper division standing. A total of 8 hours may be applied to the degree. Competency-based practical/work experiences designed to integrate theoretical aspects of education with practical aspects of work experience in an organized and supervised fashion. Student must have consent of instructor prior to registration.

**MSU 399. Selected Topics/Workshop. (1-3 hrs); on demand.** *Prerequisite: Upper division standing.* Courses/workshops on various subjects frequently utilizing innovative, experimental or hands-on techniques to supplement regular curricular offerings. Credit toward the degree must be approved by student's advisor and department chair.

**MSU 400. The World of Work. (2-0-1); I, II.** *Prerequisite: senior standing or consent of instructor.* Development of skills in self-assessment, researching companies, locating job opportunities, writing job search documents, and conducting a personalized job campaign.

**MSU 476. Special Problems. (1-3 hrs); I, II, III.** *Prerequisite: Upper division standing and consent of advisor.* Designed for the purpose of permitting a student to do advanced work/research as a continuation of an earlier experience or to work in an area of special interest. Self-directed independent study based on a written proposal and justification submitted prior to the beginning of the semester. Student must have approval from the instructor prior to registration. Each request considered separately.

**MSU 499C. Senior Seminar. (3-0-3); I, II.** *Prerequisite: open only to seniors pursuing a Bachelor of University Studies degree.* An integrative course designed to forge an interdisciplinary learning experience centered around a relevant contemporary issue and to culminate the undergraduate experience by preparing for post-college life. *This course satisfies the integrative component for general education.*

### Music (Conducting)

**MUSC 271. Basic Conducting. (2-0-2); I.** *Prerequisite: Full Admission to a music-major or music-minor program as determined by audition.* Fundamentals of score reading and baton technique.

**MUSC 471. Choral Conducting. (2-0-2); II.** *Prerequisite: MUSC 271.* Baton technique, rehearsal procedures, choral diction, and style and interpretation of choral works.

**MUSC 472. Instrumental Conducting. (2-0-2); II.** *Prerequisite: MUSC 271.* Baton technique, rehearsal procedures, and style and interpretation of instrumental works.

**MUSC 473. Rehearsal Techniques for Jazz Ensembles. (2-0-2); on demand.** *Prerequisite: MUSC 271.* Special techniques needed in rehearsing jazz, pop, and rock ensembles.

### Music (Education)

**MUSE 215. Microcomputers and Music. (3-0-3); II.** Students must be able to read music in all clefs. Applications of microcomputers in music. An introduction to the current usage, implementation, and software. *This course satisfies the computer competency requirement for general education.*

**MUSE 221. Music for the Elementary Teacher. (2-0-2); I, II, III.** *Prerequisite: MUST 100, 101, or 131.* Music fundamentals and methods for teaching music to elementary school children.

**MUSE 230. Introduction to Music Education. (1-0-1); I, II.** Orientation to music teaching in the public schools.

**MUSE 325. Materials and Methods for Elementary Grades. (2-2-3); I.** *Prerequisite: MUSE 230.* Materials and methods for the elementary school with emphasis on the teaching of musical concepts through developmental techniques.

**MUSE 335. Field Experience. (1-3 hrs); on demand.** Two full days weekly of teaching under supervision in public schools in nearby communities.

**MUSE 336. Field Experience. (1-3 hrs); on demand.** Continuation of MUSE 335.

**MUSE 375. Vocal Materials and Methods. (2-0-2); II.** The teaching of general music in the junior and senior high schools with emphasis on choral activities.

**MUSE 376. Instrumental Materials and Methods. (2-0-2); II.** Instructional procedures and materials used in instrumental teaching from the elementary grades through high school.

**MUSE 377. Instrumental Repair and Maintenance. (1-1-1); I.** Demonstration and practice in simple repairs and maintenance of band and orchestral instruments.

**MUSE 378. Piano Pedagogy. (2-1-2); II.** Survey and evaluation of materials and methods for teaching class and private piano.

**MUSE 578. Teaching of Percussion. (2-0-2); on demand.** A study of the development of percussion instruments, literature, and performing techniques.

**MUSE 579. Marching Band Techniques. (2-0-2); I, III.** Techniques of preparing marching bands for performance.

**MUSE 595. Voice Pedagogy. (3-0-3); on demand.** An introduction to the physiological, acoustical, and phonetic bases of singing and private voice instruction. Emphasis on the relationship between scientific fact and the practical application of principle through the use of imagery and phonetic choice.

### Music (Class Applied)

**MUSG 123. Class Piano I. (0-2-1); I, II.**

**MUSG 124. Class Piano II. (0-2-1); I, II.** *Prerequisite: MUSG 123 Class Piano I.*

**MUSG 126. Traditional English and American Dance. (0-2-1); on demand.** Technique and style of American and English country dances on the circle, square, and contra formation.

**MUSG 135. Class Guitar I. (0-2-1); I, II.**

**MUSG 136. Class Classical Guitar. (0-2-1); I, II.**

**MUSG 137. Class Banjo. (0-2-1); on demand.**

**MUSG 183. Studio Improvisation. (0-2-1); I, II.** Jazz styles, improvisational theories and techniques, with emphasis on small group playing and supervised improvisation. May be repeated for credit.

**MUSG 211. Class Woodwinds. (0-2-1); I.** Not for woodwinds majors.

**MUSG 212. Advanced Woodwinds Techniques. (0-2-1); II.** *Prerequisites: MUSG 211 or one or more of the following: MUSP 201, 202, 203, 204, 205.* May be substituted for MUSG 211.

**MUSG 213. Class Brasswinds. (0-2-1); I.** Not for brasswinds majors.

**MUSG 214. Advanced Brasswind Techniques. (0-2-1); II.** *Prerequisite: MUSG 213 or one or more of the following: MUSP 206, 207, 208, 209, 210.* Performance techniques and teaching procedures for brasswind instruments. May be substituted for MUSG 213.

**MUSG 215. Class Harp. (0-2-1); on demand.**

**MUSG 217. Class Percussion. (0-2-1); I, II.**

**MUSG 223. Class Piano III. (0-2-1); I, II.** *Prerequisite: MUSG 124 Class Piano II.*

**MUSG 224. Class Piano IV. (0-2-1); I, II.** *Prerequisite: MUSG 223 Class Piano III.*

**MUSG 226. Class Strings. (0-2-1); I, II.**

**MUSG 235. Class Guitar II. (0-2-1); I, II.**

**MUSG 239. Class Voice. (0-2-1); I, II.**

**MUSG 245. Jazz Keyboard I. (0-2-1); I.** *Prerequisite: MUSG 124 or consent of instructor.* An introduction to jazz keyboard techniques with emphasis on ensemble playing.

**MUSG 246. Jazz Keyboard II. (0-2-1); II.** *Prerequisite: MUSG 245.* Continuation of MUSG 245.

**MUSG 345. Jazz Keyboard III. (0-2-1); I.** *Prerequisite: MUSG 246.* Jazz keyboard techniques with emphasis on solo playing.

**MUSG 346. Jazz Keyboard IV. (0-2-1); II.** *Prerequisite: MUSG 345.* Continuation of MUSG 345.

**MUSG 379. Double Reed Making. (0-2-1); on demand.** Concepts and skills of making double reeds, oboe through contrabassoon. May be repeated for credit.

**MUSG 383. Studio Improvisation. (0-2-1); I, II.** *Prerequisite: four hours of credit in MUSG 183.* May be repeated for credit.

**MUSG 583. Studio Improvisation. (0-2-1); I, II.** *Prerequisite: four hours of credit in MUSG 383.* May be repeated for credit.

### Music (History and Literature)

**MUSH 161. Literature of Music I. (2-0-2); I.** Designed to promote intelligent listening and understanding of music of various periods and styles.

**MUSH 162. Literature of Music II. (2-0-2); II.** Continuation of MUSH 161.

**MUSH 261. Music Listening. (3-0-3); I, II.** An introduction to the various styles, periods, and media of music. A general education elective; does not apply toward fulfilling music degree requirements. *This course satisfies the area studies-humanities for general education.*

**MUSH 329. Church Music. (2-0-2); on demand.** Brief history; techniques of hymn and anthem playing and/or directing; planning the worship service.

**MUSH 361. History of Music I. (3-0-3); I.** A survey of the history of music in Western Europe from its ancient Greek beginnings through the early eighteenth century. *This course satisfies the area studies-humanities for general education.*

**MUSH 362. History of Music II. (3-0-3); II.** The history of music in Western Europe, Russia, and America from the eighteenth century to the present. *This course satisfies the area studies-humanities for general education.*

**MUSH 364. African-American Music. (3-0-3); on demand.** A survey of African-American music in the U.S. from 1600 to present.

**MUSH 365. Jazz History and Literature. (3-0-3); I.** A survey of jazz history from its beginning (ca. 1850) to the present.

**MUSH 565. Music in America. (3-0-3); II.** A survey of the history of American music from colonial times to the present.

**MUSH 581. Literature of the Piano. (3-0-3); I.** Survey of the keyboard music from the sixteenth century to the present.

**MUSH 591. School Band Literature. (2-0-2); on demand.** Examination and criticism of music for training and concert use by groups at various levels of attainment.

**MUSH 592. Vocal Literature. (3-0-3); on demand.** A survey of music for solo voice ensemble, sixteenth through twentieth centuries; stylistic traits, types of composition, sources, and performance practices.

**MUSH 599. Graduate Music History Survey. (3-0-3); I.** A review of the history of music in Western Europe, Russia, and America from its ancient Greek beginnings to the present. This is a review course based on the outcomes of diagnostic entrance exams.

### Music (Ensembles)

Ensembles listed with two course numbers may be repeated for credit. After earning four hours of lower division credit (100 level), a student may enroll for upper division credit (300 level).

**MUSM 135, 335. Clarinet Choir. (0-2-1); on demand.**

**MUSM 136, 336. Woodwind Quintet. (0-2-1); on demand.**

**MUSM 161, 361. Trumpet Choir. (0-2-1); on demand.**

**MUSM 162, 362, 562. Trombone Choir. (0-2-1); on demand.**

**MUSM 163, 363, 563. Tuba and Euphonium Ensemble. (0-2-1); on demand.**

**MUSM 167, 367, 567. Brass Choir. (0-2-1); I, II.** Open to brass players.

**MUSM 168, 368, 568. Brasswind Ensemble. (0-2-1); on demand.**

**MUSM 169, 369, 569. Percussion Ensemble. (0-2-1); I, II.**

**MUSM 170, 370, 570. Concert Band. (0-2-1); II.** Open to all students.

**MUSM 171, 371, 571. Symphony Band. (0-2-1); II.** Open to all students.

**MUSM 172, 372, 572. Marching Band. (0-5-1); I.** Open to all students. Required for wind and percussion music education students. Upper division credit after earning two hours of credit.

**MUSM 178, 378. String Ensemble. (0-2-1); on demand.**

**MUSM 179, 379. Orchestra. (0-2-1); I, II.** Open to all string students and to selected wind and percussion players on demand.

**MUSM 181, 381, 581. Jazz Ensemble. (0-2-1); I, II.** Open to all students.

**MUSM 182, 382, 582. Jazz Vocal Ensemble. (0-2-1); I, II.** Open to all students.

**MUSM 183, 383, 583. Traditional Music Ensemble. (0-2-1); on demand.**

**MUSM 184, 384, 584. Guitar Ensemble. (0-2-1); I, II.**

**MUSM 187. Piano Sight Reading I. (0-2-1); I, II.** Designed to develop sight reading competence. Required for piano majors.

**MUSM 188. Piano Sight Reading II. (0-2-1); I, II.** *Prerequisite: MUSM 187 Piano Sight Reading I.* Continuation of MUSM 187.

**MUSM 189. Piano Ensemble. (0-2-1); I, II.** Preparation and performance of piano ensemble literature.

**MUSM 190, 390, 590. Vocal Ensemble. (0-2-1); on demand.**

**MUSM 191, 391, 591. University Chorus. (0-3-1); I, II.** Open to all University students interested in singing.

**MUSM 192, 392, 592. Concert Choir. (0-2-1); I, II.** Open to all students.

**MUSM 193, 393, 593. Chamber Singers. (0-3-1); I, II.** Selected group of 16 singers.

**MUSM 194, 394, 594. OperaWorks. (0-2-1); on demand.** An introduction to the techniques of musical theatre with emphasis on the integration of music and action-dramatic study of operatic roles.

**MUSM 200, 400. Student Recital. (0-1-0); I, II.** Music students and faculty present a recital each Thursday afternoon. Music students are required to take this course each semester.

**MUSM 387, 388. Accompanying I, II. (0-2-1); I, II.** Two hours of studio accompanying per week.

**MUSM 487, 488. Recital Accompanying. (0-2-1); I, II.** *Prerequisite: consent of piano faculty.* Performance of accompaniments for junior or senior recitals.

### Music (Private Applied)

**MUSP 200, 400 Performance Class**. *Prerequisite: consent of instructor.* Music major and minor students must register for MUSP 200 Performance Class (lower division) or MUSP 400 Performance Class (upper division) concurrently with Private Applied Lessons in the principal applied area. Performance Class receives no credit and is graded pass/fail, but attendance and performance in this course may affect the student's grade in Private Applied Lessons.

**Private Applied Lessons.** *Prerequisite: consent of instructor.* Development of performance skills through the study of various etudes, solos, and other literature. Private applied music courses are typically offered in the Fall and Spring terms and may be repeated for credit. 1-2 credit courses meet for 1/2 hour each week and 3 credit courses meet for 1 hour each week, for a minimum of 14 lessons each semester. Only 500 level courses can be taken for 4 credit hours, which require additional performance expectations.

**100 level:** for non-music majors or for music majors or music minors who are on probationary status.

**200 level:** lower division for undergraduate music majors or music minors. *Prerequisites: MUSG 124, MUST 233, MUST 236, 4 semesters each of MUSP 200 and MUSM 200 with passing grade of 'K", and two of the following: MUSH 161, MUSH 162, MUSH 361, MUSH 362. MUSE 230 (BME majors only), 8 credits of 200-level Private Applied in principal instrument with grade of "C" or better (BME and BA in Music majors only), 12 credits of 200-level Private Applied in principal instrument with grade of "C" or better (BM majors only).*

**400 level:** upper division for undergraduate music majors or music minors. *Prerequisite: Bachelor of Music Education majors and Bachelor of Arts Music majors and minors must complete at least 8 credits at the 200 level with a minimum grade of "C." Bachelor of Music in Performance majors must complete at least 12 credits at the 200 level with a minimum grade of "C". In addition, all Bachelor of Music Education majors, Bachelor of Music in Performance majors and Bachelor of Arts Music majors and minors are required to pass the upper division assessment prior to enrolling in the 400 level.*

**500 level:** *Prerequisite: Undergraduates must have completed MUSP 498C or MUSP 499C, meet departmental performance standards for admission to the Master of Music degree program, and meet institutional criteria for concurrent enrollment in graduate courses.*

**MUSP 101, 201, 401, 501 Private Flute**

**MUSP 102, 202, 402, 502 Private Oboe**

**MUSP 103, 203, 403, 503 Private Bassoon**

**MUSP 104, 204, 404, 504 Private Clarinet**

**MUSP 105, 205, 405, 505 Private Saxophone**

**MUSP 106, 206, 406, 506 Private Horn**
**MUSP 107, 207, 407, 507 Private Trumpet**
**MUSP 108, 208, 408, 508 Private Euphonium**
**MUSP 109, 209, 409, 509 Private Trombone**
**MUSP 110, 210, 410, 510 Private Tuba**
**MUSP 116, 216, 416, 516 Private Harp**
**MUSP 119, 219, 419, 519 Private Percussion**
**MUSP 127, 227, 427, 527 Private Violin**
**MUSP 128, 228,428, 528 Private Viola**
**MUSP 129, 229, 429, 529 Private Cello**
**MUSP 130, 230, 430, 530 Private Double Bass**
**MUSP 135, 235, 435, 535 Private Classical Guitar**
**MUSP 136, 236, 336, 536 Private Guitar**
**MUSP 137, 237, 437, 537 Private Electric Bass**
**MUSP 138, 238, 438, 538 Private Banjo**
**MUSP 140, 240, 440, 540 Private Voice**
**MUSP 141, 241, 441, 541 Private Harpsichord**
**MUSP 142, 242, 442, 542 Private Organ**
**MUSP 143, 243, 443, 543 Private Piano**
**MUSP 162, 262, 462, 562 Private Composition**
**MUSP 163, 263, 463, 563 Private Conducting**

**MUSP 360. Junior Recital. (2-0-2); I, II, III.** *Prerequisite: approval of the music faculty.* A solo public recital of at least 30 minutes.

**MUSP 470. Composition Recital. (1-0-2); I, II, III.** *Prerequisite: approval of the music faculty.* Preparation and performance in recital of student's compositions.

**MUSP 499C. Senior Recital. (3-0-3); I, II.** *Prerequisite: approval of the music faculty.* A formal recital with an accompanying research paper and oral presentation covering the works and composers to be performed. *This course satisfies the integrative component for general education.*

### Music (Theory and Composition)

Music students should enroll in the appropriate music theory and music reading courses each semester until the completion of MUST 233 and MUST 237.

**MUST 100. Rudiments of Music. (1-2-2); I, II, III.** Fundamentals of music notation and basic elements of music theory. Recorder playing, autoharp accompaniment, and singing.

**MUST 101. Introduction to Music Theory. (1-2-2); I, II.** An introduction to the basic elements of music theory.

**MUST 102. Introduction to Music Reading. (1-2-2); I, II.** An introduction to the concepts and applications of reading music, vocally and instrumentally.

**MUST 103. Practical Theory for Traditional Music. (1-2-2); I, II, III.** An introduction to music theory as applicable to tradition-based musical styles such as Bluegrass, country music, blues, and gospel. Areas covered include chord construction, various scales, harmony, transposition, etc.

**MUST 104. Traditional Vocal Harmony. (1-2-2); I, II, III.** Practical guidance in singing lead, tenor, baritone, and bass harmonies as they are performed in Bluegrass, country music, and gospel groups. Public performances are optional.

**MUST 131. Music Theory I. (2-2-3); I, II.** *Prerequisite: MUST 101 or demonstration of equivalent competency on the Music Department Entrance Examination.* An extensive study of the basic elements of music (calligraphy, rhythm, meter, pitch, materials), emphasizing monodic, two and three-voice textures; timbral qualities of the instruments; basic diatonic harmony.

**MUST 132. Music Theory II. (2-2-3); I, II.** *Prerequisite: MUST 131 or demonstration of equivalent competency on the Music Department Entrance Examination.* A continuation of MUST 131, with emphasis on three and four-voice textures, figured bass, secondary dominants, binary and ternary forms, transposition and scoring for small ensembles, and tonality changes. Supportive ear training to accompany these areas where applicable.

**MUST 133. Music Reading I. (0-2-1); I, II.** *Prerequisite: MUST 102 or determination of equivalent competency by Music Department Entrance Examination.* An ensemble approach to the development of basic skills of tonal and rhythmic reading through supervised vocal and instrumental reading experiences.

**MUST 135. Music Reading II. (1-2-2);** *Prerequisite: MUST 133.* Continuation of MUST 133.

**MUST 233. Music Reading III. (2-2-3); I, II.** *Prerequisite: MUST 135 or determination of equivalent competency by the Music Department Entrance Examination.* A continuation of MUST 135, with emphasis on the individual development of vocal and instrumental music reading skills.

**MUST 236. Music Theory III. (1-2-2); I, II.** *Prerequisite: MUST 132 or determination of equivalent competency by Music Department Entrance Examination.* A continuation of MUST 132, with emphasis on the broadening of total and rhythmic vocabulary through study of chromatic harmony and more complex metric rhythmic patterns.

**MUST 237. Music Theory IV. (1-2-2); I, II.** *Prerequisite: MUST 236 or determination of equivalent competency by the Music Department Entrance Examination.* A continuation of MUST 236, with emphasis upon Post-Impressionistic Twentieth Century materials and styles.

**MUST 263. Elementary Composition I. (1-1-2); on demand.** *Prerequisite: MUST 237 or consent of instructor.* Study and practice of basic formal compositional principles.

**MUST 264. Elementary Composition II. (1-1-2); on demand.** *Prerequisite: MUST 263.* Continuation of MUST 263.

**MUST 331. Counterpoint. (2-0-2); on demand.** *Prerequisite: MUST 237.* Writing of sixteenth and eighteenth century strict and free counterpoint, cannon, invention, fugue. Some twentieth century techniques.

**MUST 363. Intermediate Composition I. (1-1-2); on demand.** *Prerequisite: MUST 264.* Study and writing of original creative work. One hour weekly in private study; one hour in composition seminar-colloquium.

**MUST 364. Intermediate Composition II. (1-1-2); on demand.** *Prerequisite: MUST 363.* A continuation of MUST 363.

**MUST 433. Arranging for Jazz Ensembles I. (2-0-2); on demand.** Techniques of arranging for large and small jazz ensembles.

**MUST 434. Arranging for Jazz Ensembles II. (2-0-2); on demand.** *Prerequisite: MUST 433.* Continuation of MUST 433.

**MUST 465. Form and Analysis. (2-0-2); on demand.** *Prerequisites: MUST 233 and 237.* A study of the elements of musical design through aural and score analysis.

**MUST 476. Special Problems in Music. (1 to 3 hrs.); I, II, III.** *Prerequisite: consent of department chair.* Independent study and research in an area of the student's choosing. Requires completion of paper or other tangible evidence of the results of the study.

**MUST 531. Arranging. (2-0-2); on demand.** *Prerequisite: MUST 237.* Scoring, arranging, transcribing, of selected or original materials for voices and/or instruments.

**MUST 532. Advanced Arranging. (2-0-2); on demand.** *Prerequisite: MUST 531.* Continuation of MUST 531.

**MUST 563. Advanced Composition I. (1-1-2); on demand.** *Prerequisite: MUST 364.* Study, writing, and performance of students' original creative work. Private conferences and composition seminar in colloquium.

**MUST 564. Advanced Composition II. (1-1-2); I, II.** *Prerequisite: MUST 563.* Continuation of MUST 563.

**MUST 565. Form and Analysis. (3-0-3); I.** *Prerequisites: MUST 233 and 237 for undergraduates.* A study of the elements of musical design through score analysis.

### Nursing

**NUR 480. Nursing Diagnostic Seminar. (2-0-2); II.** *Prerequisite: successful completion of the first seven semesters of the BNP curriculum.* This course is designed to assess the student's nursing knowledge. Based on the assessment results, the faculty will provide review, guidance, and learning experiences to assist the student in meeting identified learning needs.

### Nursing (Associate)

**NURA 103. Nursing I. (4-6-6); I, II.** *Prerequisites: BIOL 231, BIOL 232, ENG 100, MATH 135 and official admission into the Associate Degree Nursing Program. Co-requisites: Computer competence, ENG 200, MSU 101 and PSY154.* Emphasis is on wellness, health promotion and health maintenance throughout the lifespan. Students are introduced to nursing theories and begin to use the nursing process to assess, diagnose, plan, treat, and evaluate individual responses to common physical, psychological, and social elements of the environment. Students begin to develop theoretical and clinical competence while caring for patients in health care and community settings.

**NURA 104. Nursing II. (5-9-4); I, II.** *Prerequisite: Successful completion of the first semester of the Associate Degree Nursing Program. Co-requisite: CMSP 108, NURA 105, PSY 156.* A continuation of NURA 103; Nursing I. This course continues to focus on wellness, health promotions and health maintenance issues. Emphasis is on the use of the nursing process to address acute illness and surgical care of clients across the lifespan. Students develop theoretical and clinical competence while caring for patients who are acutely ill.

**NURA 105. (5-9-4); I, II.** *Prerequisites: Successful completion of NURA 103 and NURA 104. Co-requisites: CMSP 108 and PSY 156.* An individual and human needs approach to the study of the childbearing process. This course continues to focus on wellness, health promotion and health maintenance issues. Emphasis is on the roles of the associate degree nurse for nursing care of women's health, childbearing patients, and newborns. Students develop theoretical and clinical competence while caring for female patients and newborns.

**NURA 110. LPN/and Transition Course. (3-0-3); II.** *Prerequisites: successful completion of an accredited Licensed Practical Nursing Program (LPN) and planned admission into the ADN program within two years.* This course is designed to facilitate the role transition from a licensed practical nurse to an associate degree nurse. The emphasis is on roles of the associate degree nurse, communication skills, and use of the nursing process. The course also focuses on the application of the nursing process in basic, maternity, and mental health nursing. Three hours theory per week.

**NURA 202. Nursing III. (5-9-4); I, II.** *Prerequisite: Successful completion of the first two semesters of the Associate Degree Nursing Program. Corequisite: BIOL 217, BIOL 217L, Humanities Elective.* This is the first course in the second year of the ADNP. The course builds on concepts and practice from the first year. Emphasis is on the use of the nursing process to address chronic alterations in health of individuals across the lifespan. Students develop theoretical and clinical competency while caring for chronically ill patients.

**NURA 205. Psychiatric Nursing. (5-9-4); I, II.** *Prerequisite: Successful completion of the first two semesters of the Associate Degree Nursing Program, and NURA 202. Co-requisite: BIOL 217, BIOL 217L, Humanities Elective.* A study of psychiatric nursing for individuals at any stage of the life span. Emphasis is on the role of the associate degree nurse in psychiatric nursing practice. Students use the nursing process to apply psychiatric nursing theories while caring for individuals with alterations in mental health.

**NURA 206. Nursing IV (5-9-8); I, II.** *Prerequisites: Successful completion of the first three semesters of the ADNP. Co-requisites: NURA 207.* Final semester of the ADNP. This course builds on all prior coursework. Emphasis is on application of the nursing process to address care of complex and critically ill individuals across the lifespan. Students continue to develop theoretical and clinical competence while caring for patients with complex and critical illness.

**NURA 207. Integrated Practicum. (1-9-4); I, II.** *Prerequisite: Successful completion of the first three semesters of the nursing program Co-requisite: NURA 206.* This course integrates concepts and practice needed to function in the role of the associate degree nurse as provider of care, manager of care, and member of the discipline of nursing. Includes 120 hours of concentrated clinical experience providing direct patient care. This course meets the Kentucky Board of Nursing requirement for an integrated practicum (KAR 20:320). Students apply theoretical and clinical skills to address health care issues of patients in health care facilities or health care organizations.

### Nursing (Bachelor's)

**NURB 152. Basic Concepts and Theories. (2-0-2); II.** This course is designed to introduce selected concepts and theories upon which professional nursing is based. Open to non-nursing majors and required for nursing majors.

**NURB 246. Basic Nursing Concepts I. (3-0-3); I.** *Prerequisites: successful completion of the 35 credit hours required in the freshman year and official admission to BNP. Co-requisites: BIOL 217, NURB 247, 349, and 354.* The study of human needs of individuals in all stages of the life span. The focus is on the nursing process, legal and ethical issues, professional nursing; and basic nursing concepts related to health. Three hours of theory per week.

**NURB 247. Basic Nursing Skills. (0-6-2); I.** *Prerequisites: successful completion of the 35 hours required in the freshman year and official admission to BNP. Co-requisites: BIOL 217, NURB 246, 349, 354.* Focus of this course is on the basic nursing skills that will provide a foundation for progression through the program and for professional nursing practice. Six hours of laboratory experience per week.

**NURB 258. Basic Nursing Concepts II. (5-6-7); II.** *Prerequisite: successful completion of the first three semesters of the BNP curriculum. Co-requisites: BIOL 336, HS 201, NURB 310.*

The focus is on psychosocial concepts and management of nursing care for patients at any stage of the life span with common health alterations in oxygenation, cell structure, fluid and electrolyte balance, ingestion, digestion, absorption, and elimination. Principles and concepts of teaching and learning will be examined and integrated into the management of nursing care. Clinical experiences will be designed to provide the opportunity to apply psychosocial concepts to the management of nursing care for individuals with common health alterations. Five hours of theory and six hours of clinical and/or campus lab per week.

**NURB 310. Community Health Nursing. (3-0-3); II.** *Prerequisite: successful completion of the first three semesters of the BSN curriculum. Co-requisites: BIOL 336, NURB 258 and 313.* Explores factors that influence the health of individuals, families, and groups across the life span and the role of the nurse in providing community-oriented care. Health promotion and disease prevention are emphasized. Three hours of theory per week.

**NURB 349. Pharmacology. (3-0-3); I.** *Prerequisite: open only to students officially admitted to the BNP or any registered nurse.* The introductory study of pharmacological agents used to promote, maintain, and restore health. Focuses on concepts of medication administration and the role and function of the professional nurse as related pharmacological agents. Three hours of theory per week.

**NURB 350. Nursing Care of the Childbearing Family. (2.5-4.5-4); I.** *Prerequisite: successful completion of the first four semesters of the BNP curriculum. Co-requisites: MATH 353 and NURB 351.* Study of the management of nursing care for the childbearing family during pregnancy. Normal and common alterations of pregnancy are considered. Physical, psychosocial, cultural, and developmental aspects of the childbearing family are emphasized. Two and one-half hours of theory and four and one-half hours of clinical and/or campus lab per week.

**NURB 351. Nursing Care of Children. (2.5-4.5-4); I.** *Prerequisite: successful completion of the first four semesters of the BNP curriculum. Co-requisites: MATH 353 and NURB 350.* The management of nursing care is emphasized to promote, maintain, and restore health to children from infancy through adolescence is considered. Two and one-half hours of theory and four and one-half hours of clinical and/or campus lab per week.

**NURB 354. Health Assessment. (2-3-3); I.** *Prerequisites: successful completion of 35 hours required in the freshman year and admission to the BSN (Prelicensure) Program or officially admitted to the RN (Postlicensure) Track. Co-requisites: BIOL 217, NURB 246, 247, and 349.* The performance of comprehensive physical and psychosocial health assessments as related to the role and function of the professional nurse. Normal and abnormal findings of health assessments are differentiated. Two hours of theory and three hours of laboratory experience per week.

**NURB 355. Health Assessment for the Registered Nurse. (2-3-3); I, II.** *Prerequisite: open only to registered nurses. This course may be taken prior to official admission to the Postlicensure component of the Baccalaureate Nursing Program.* The course applies clinical reasoning skills to build a higher level of performance of the comprehensive physical and psychosocial health examination. Essential components of patient assessment are studied extensively and related to the role and function of the experienced professional nurse. Normal and common abnormal health findings are studied.

**NURB 361. Introduction to Nursing Research. (3-0-3); II.** *Prerequisites: successful completion of the first five semesters of the BNP curriculum or admission to the RN (Postlicensure) Track, MATH 135 and 353. Co-requisites: NURB 363 and 370.* An introduction to the research process and utilization of nursing research as the basis for professional nursing practice. Focus is on the critiquing of nursing research to determine reliability and validity.

**NURB 363. Mental Health Nursing. (2-6-4); II.** *Prerequisite: successful completion of the first five semesters of the BNP curriculum. Co-requisites: NURB 361 and 370.* Emphasis is on the management of nursing care for patients at various stages of the life span with alterations of mental health. Two hours of theory and six hours of clinical experience and/or lab per week.

**NURB 367. Transition to Professional Nursing. (2-0-2); I, II.** *Prerequisite: open to registered nurses. May be taken prior to official admission to the postlicensure component of the Baccalaureate Nursing Program. Co-requisite: NURB 368.* Emphasis of this course will be on the socialization of the RN into the role of a baccalaureate nurse. The course will focus on professionalism in nursing, role transition, history of nursing education and issues pertinent to returning adult learners.

**NURB 368. Professional Nursing Concepts and Theories. (3-0-3); I, II.** *Prerequisite: open to registered nurses. May be taken prior to official admission to the postlicensue component of the Baccalaureate Nursing Program. Co-requisite: NURB 367.* Emphasis of this course will be on the concepts and theories of professional nursing. Essential content in this course will include the knowledge base of professional nursing, research as a basis for professional nursing, and teaching and learning in professional nursing.

**NURB 370. Adult Nursing I. (5-9-8); II.** *Prerequisite: successful completion of the first five semesters of the BNP curriculum. Co-requisites: NURB 361 and 363.* Involves the management of young, middle, and older adults across a broad continuum of health in a variety of structured and unstructured settings. Emphasis is placed on those processes which form a foundation to promote, maintain, and restore health of individuals, families, and aggregates. Five hours of theory and nine hours of clinical and/or campus lab per week.

**NURB 380. Community Health Nursing Practicum. (0-9-3); II, III.** *Prerequisites: NURB 355, 367, and 368. Co-requisite: NURB 310 or University of Kentucky equivalent.* The focus of this practicum involves guided clinical experiences in heath promotion, disease prevention, and nursing care of individuals, families, and targeted populations within various community settings.

**NURB 454. Adult Nursing II. (5-15-10); I.** *Prerequisite: successful completion of the first six semesters of the BNP curriculum.* Involves the management of nursing care for complex health care needs of young, middle, and older adults and their families in a variety of health care settings. A continuation of NURB 370 that involves adults with multiple health care problems. Five hours of theory and fifteen hours of clinical and/or lab experience per week.

**NURB 461. Nursing Leadership and Management. (3-0-3); II.** *Prerequisite: successful completion of the first seven semesters of the BNP curriculum. Co-requisites: NURB 497 and 499C.* The role and function of the professional nurse as a manager of nursing care is studied in relation to leadership and management theories, strategies and principles of management. Three hours of theory per week.

**NURB 472. Independent Study in Nursing. (1 to 6 hrs.); I, II, III.** *Prerequisites: admission to BNP and junior or senior standing.* Opportunity for in-depth study in an area of special interest in nursing.

**NURB 497. Nursing Senior Seminar. (4-0-4); I, II.** *Prerequisite: successful completion of the first seven semesters of*

*the BNP curriculum. Co-requisites: NURB 461 and 499C.* An in-depth examination of phenomena of concern to professional nursing, to include, but not limited to, current issues and trends relevant to nursing, with consideration of historical, social, legal, and ethical, political, legislative, health policies, and patient care issues that impact the practice of professional nursing.

**NURB 499C. Advanced Nursing Practicum. (0-9-3); II.** *Prerequisite: successful completion of the first seven semesters of the BNP curriculum. Co-requisites: NURB 461 and 497.* This course provides opportunities for students under supervision to apply principles from mathematics, natural sciences, humanities and nursing to the practice of professional nursing in a clinical area of interest or need. Emphasis will be on application of advanced nursing and nursing leadership/management concepts and theories. Nine hours of clinical activities per week. *This course satisfies the integrative component for general education.*

### Nursing

**NURS 100. Orientation to Health Care Professions. (1-0-1).** A study of career opportunities available in health care, the standard program requirements and an overview of the job responsibilities. Cross listed with IMS 100.

**NURS 202. Medical Terminology. (2-0-2); I, II.** The study of vocabulary components and terms related to sciences and medicine. Previous knowledge of medicine or related discipline is not necessary. Cross listed with IMS 202.

**NURS 300. Ethical and Legal Issues in Health Care. (3-0-3); I, II.** This course is an overview of the ethical and legal issues in today's health care environment. Emphasis includes such areas of discussion as confidentiality, HIV/AIDS, artificial life support, euthanasia, abortion, genetic science. Allocation of resources and professional gatekeeping. Cross listed with IMS 300. *This course satisfies the area studies-social and behavioral sciences for general education.*

**NURS 301. Selected Topics. (1 to 3 hrs.); on demand.** *Prerequisite: consent of instructor.* Investigation of specific topics of interest related to nursing and/or allied health sciences. Cross listed with IMS 301.

**NURS 302. Health Maintenance Throughout the Life Span. (3-0-3); I, II.** This course is designed to increase one's awareness of the importance of health maintenance throughout the life span. Emphasis will be on the concepts of health maintenance through health promotion and illness prevention strategies for all stages of the life span. Cross listed with IMS 302. *This course satisfies the area studies-practical living for general education.*

**NURS 303. Women's Health Care. (3-0-3); I, II.** *Prerequisites: CIS 101, CMSP 108, ENG 100, 200, or consent of instructor.* Increase one's awareness of the importance of women's health care in all dimensions. Emphasis will be placed on health maintenance issues for women that include women's developmental issues throughout their life span, general guidelines for health care (including screening and interventions), sexuality facts, health needs and problems related to the reproductive system, selected health care issues, and psychosocial concerns. *This course satisfies the area studies-practical living for general education.* Cross listed with IMS 303 and WST 474.

**NURS 304. Men's Health Issues. (3-0-3); I, II.** *Prerequisite: CIS 101, CMSP 108, ENG 100, 200, or consent of instructor.* This course is designed to increase one's awareness of the importance of men's health issues in all dimensions. Emphasis will be placed on health maintenance issues for men that include men's developmental issues throughout their life span, general guidelines for health care (including screening and interventions), sexuality facts, health needs and problems related to the reproductive system, selected health care issues, and psychosocial concerns. Cross listed with IMS 304.

**NURS 345. Global Health. (3-0-3); I, II.** Through this course, the student will develop a global awareness of societal aspects of health and disease through the critical examination of the sociopolitical constraints in health and health care of populations. The roles of community, national, and international health organizations will be examined. *Meets general education requirement in the area of practical living.* Cross listed with IMS 345 and IST 345.

**NURS 361. Leadership for the Health Care Professional. (3-0-3); I, II.** This course provides students with a knowledge base and foundations for the study and practice of leadership in health care systems. Emphasis is placed on the theories of leadership, structures of organizations in health care, and the effective/efficient use of human and material resources. Cross listed with IMS 361.

**NURS 473. Health Care Management of Children. (3-0-3); I, II.** Open to any interested student. Promotion of wellness of children and adolescents with emphasis on meeting the health care needs of children in the classroom and home. Discussion of basic first aid, common acute and chronic illness in children. Cross listed with IMS 473.

**NURS 475. Human Sexuality: A Holistic Viewpoint. (3-0-3); I, II.** Open to any interested student. A study of the biopsychosocial factors inherent with the sexuality of human beings and their influences on behavior. Cross listed with IMS 475.

### Personal Development Institute

**PDI 100. Personal Development. (1-0-1); I, II.** This is a nine-week elective course structured in the institute format. The course covers such areas as: personality enhancement, attitude improvement, building self-esteem, visual poise, sharpening social skills, and improved interpersonal relationships.

### Physical Education

**PHED 100. Golf. (0-2-1); I, II, III.** Emphasis on skill, knowledge, and techniques for individual participation.

**PHED 101. Tennis. (0-2-1); I, II, III.** Emphasis on skill, knowledge, tactics, and techniques for individual participation.

**PHED 102. Badminton. (0-2-1); I, II.** Emphasis on skill, knowledge, tactics, and techniques for individual participation.

**PHED 103. Archery. (0-2-1); I, III.** Emphasis on skill, knowledge, tactics, and techniques for individual participation.

**PHED 104. Gymnastics. (0-2-1); I.** Emphasis on self-testing activities.

**PHED 105. Conditioning. (0-2-1); I, II.** Emphasis on developing fitness through a variety of exercises and activities.

**PHED 107. Bowling. (0-2-1); I, II.** Basic movement skills involved in bowling.

**PHED 108. Restricted Physical Education. (0-2-1); I, II.** Students with either a structural or functional problem. May be repeated one time for credit.

**PHED 109. Elementary Horsemanship. (0-2-1); I, II.** Cross listed with AGR 109.

**PHED 110. Martial Arts/Self Defense. (0-2-1); I, II.** Activity course in basic martial arts techniques and etiquette, plus self defense concepts and strategies.

**PHED 113. Soccer. (0-2-1); II.** Techniques and participation in soccer.

**PHED 117. Stunts and Tumbling. (0-2-1); I, II.** Skills that promote strength, individual control and development, and group perfection.

**PHED 118. Volleyball. (0-2-1); I, II.** Rules, techniques, and participation in volleyball.

**PHED 120. Basic Rhythms. (0-2-1); I, II.** Skills and knowledge in fundamentals of dance.

**PHED 121. Modern Dance. (0-2-1); I.** Movement as means of self expression.

**PHED 122. Social Dance. (0-2-1); I, II.** Steps and combination of popular dances.

**PHED 123. Folk and Square Dancing. (0-2-1); I, II.** Movements of American square dance.

**PHED 124. Canoeing. (0-2-1); I, III.** Emphasis on skill, knowledge, and tactics in all types of streams.

**PHED 125. Basketball Skills. (0-2-1); I, II.** Skills of basketball.

**PHED 127. Racquetball. (0-2-1); I, II.** Emphasis on skill, knowledge, and strategy.

**PHED 130. Beginning Swimming. (0-2-1); I, II.** Learning to swim well enough to care for one's self under ordinary conditions.

**PHED 131. Intermediate Swimming. (0-2-1); I, II.** Perfection of standard strokes, diving.

**PHED 132. Life Saving. (0-2-1); I, II, III.** Rescue methods in all types of water.

**PHED 133. Instruction to Water Safety. (0-2-1); I, II.** *Prerequisite: current Senior Lifesaving Certificate.* Teaching methods and techniques in lifesaving.

**PHED 134. Introduction to Sailing. (0-2-1); I, II, III.** Basics of sailing, including knowledge, terminology, and skills of handling an intermediate-sized sailboat in calm waters and moderate winds.

**PHED 140. Aerobics. (0-2-1); I, II.** Emphasis on knowledge, techniques, aerobic fitness and safety methods involved with individual participation in a variety of aerobic formats.

**PHED 141. Weight Training. (0-2-1); I, II.** Emphasis on knowledge, techniques, methods, and training program development for those interested in strength development.

**PHED 142. Softball. (0-2-1); I, II.** Emphasis on skill and performance enhancement, as well as increasing basic knowledge and strategic background.

**PHED 143. Backpacking and Orienteering. (0-2-1); I, II, III.** Designed to develop a working knowledge pertaining to the fundamentals of survival camping. Focus on the development of stamina and physical endurance. Nine-week class.

**PHED 201. Introduction to Coaching. (3-0-3); I, II.** Emphasis on various coaching methods and techniques.

**PHED 204. Officiating. (2-0-2); I, II.** Interpretation of rules for major sports. Methods and techniques of officiating; laboratory experience in officiating.

**PHED 205. Lifetime Fitness (A Scientific Approach). (2-2-3); I, II, III.** *Prerequisite: complete physical examination within last year.* Designed to provide the student with scientifically-based knowledge concerning practical application of physical fitness training and evaluation procedures while participating in a fitness program.

**PHED 211. Lifeguard Training. (1-2-2); I, II, III.** *Prerequisite: PHED 132 or CPR card.* Responsibilities of lifeguards, equipment, health and sanitation, and inspection of waterfront areas.

**PHED 212. Games and Rhythms for Elementary Teachers. (3-0-3); I.** Designed to expose students to a broad range of elementary school rhythmic activities and games, as well as provide opportunities to teach these activities.

**PHED 213. Methods of Teaching Individual Sports. (0-2-1); I, II.** This course is designed to prepare students to develop safe and appropriate learning activities, content delivery, and assessment skills as these pertain to at least three different individual activities so they are prepared to include these activities in a school's physical education curriculum.

**PHED 214. Methods of Teaching Racket Sports. (0-2-1); I, II.** This course is designed to prepare students to develop safe and appropriate learning activities, content delivery, and assessment skills as these pertain to at least three different racket activities so they are prepared to include these activities in a school's physical education curriculum.

**PHED 215. Methods of Teaching Team Sports. (0-2-1); I, II.** This course is designed to prepare students to develop safe and appropriate learning activities, content delivery, and assessment skills as these pertain to at least three different team sports or activities so they are prepared to include these activities in a school's physical education curriculum.

**PHED 216. Methods of Teaching Lifetime Sports. (0-2-1); I, II.** This course is designed to prepare students to develop safe and appropriate learning activities, content delivery, and assessment skills as these pertain to at least three different lifetime sports or activities so they are prepared to include these activities in a school's physical education curriculum.

**PHED 217. Methods of Teaching Gymnastics and the Martial Arts. (0-2-1); I, II.** This course is designed to prepare students to develop safe and appropriate learning activities, content delivery, and assessment skills as these pertain to stunts, tumbling, and one martial art form so they are prepared to include these activities in a school's physical education curriculum.

**PHED 218. Methods of Teaching Dance. (0-2-1); I, II.** This course is designed to prepare students to develop safe and appropriate learning activities, content delivery, and assessment skills as these pertain to a variety of dance forms so they are prepared to include these activities in a school's physical education curriculum.

**PHED 220. Athletic Training I. (3-0-3); I.** *Prerequisites: BIOL 231 and HLTH 151.* An introduction to athletic training, including basic injury prevention, management, and rehabilitation principles.

**PHED 221. Theraputic Modalities. (1-2-2); I.** *Prerequisites: HLTH 151 and PHED 220.* **S**tudy and use of theraputic modalities for athletic injury, treatment, and rehabilitation.

**PHED 301. Evaluation in Exercise Science. (3-0-3); II.** Methods, techniques, and procedures used in evaluation of students in physical education and recreation.

**PHED 306. Functional Anatomy/Biomechanics. (3-0-3); I, II.** *Prerequisites: BIOL 231.* Study of structural and mechanical factors in human motion.

**PHED 311. Movement Exploration. (2-2-3); I, II, III.** Child-centered program with the demonstration of methods whereby a child may learn to move experimentally, expressively, and efficiently.

**PHED 315. Motor Development and Motor Learning. (3-0-3); I.** *Prerequisite: BIOL 231.* Understanding the principles of motor development and learning to use these when teaching students at various developmental stages, to promote optimal learning.

**PHED 326. Exercise Program Leadership. (2-2-3); II.** Emphasis on leadership skills, motivational techniques, choreography, administrative functions dealing with equipment purchase, organization and use, and experiences in aerobic exercise and personal training formats.

**PHED 330. Scientific Bases of Coaching. (3-0-3); I.** *Prerequisite: BIOL 231 or consent of department chair.* A study of the physiological, biomechanical, and nutritional dimensions of the coaching of sports.

**PHED 332. Principles of Strength and Conditioning. (3-0-3); I.** A study of the physiological, biomechanical, and administrative aspects of designing and supervising strength and conditioning programs for various sports.

**PHED 336. Foundations of Sport Psychology. (3-0-3); I, III.** *Prerequisite: PSY 154 or consent of department chair.* Focus on theories and practices which when understood and used can enhance the coach-athlete relationship and improve sport performance.

**PHED 340. Athletic Training II. (3-0-3); II.** *Prerequisites: BIOL 232 and PHED 220. Co-requisites: PHED 221 and 341.* An advanced course involving all aspects of the athletic training/sports medicine field.

**PHED 341. Athletic Injury Assessment. (1-2-2); II.** *Prerequisites: PHED 220 and 340*. Evaluation of athletic injuries.

**PHED 350. Coaching of Sport. (1-2-2); I, II, on demand.** May be repeated as separate sections. Students will demonstrate knowledge of sport and develop and implement sport specific experiences to improve their ability to coach effectively: a) baseball, b) basketball, c) cross country, track, and field, d) football, e) golf, f) soccer, g) softball, h) swimming, i) tennis, j) volleyball, or k) wrestling.

**PHED 360. Health and Physical Education in the Middle School. (3-0-3); I, II.** *Prerequisite: admission to TEP.* The selection and organization of material and methods of instruction for the intermediate school.

**PHED 401. Organization and Administration of Physical Education. (3-0-3); I.** Arrangement of units making up physical education program, and process of leadership by which serious aspects are brought together in a functioning whole.

**PHED 420. Administration of School Athletic Programs. (3-0-3); I, II.** Administrative principles and procedures applicable to school athletic program.

**PHED 423. Exercise Management: Special Populations. (3-0-3), I.** *Prerequisites: PHED 306, and 432.* This course will provide the students with experience in exercise management for persons with chronic disease and/or disability and to understand the integrated model of care in order to coordinate exercise with other aspects of health care.

**PHED 424. Principles and Practice of Kinesiotherapy. (3-2-4), II.** *Prerequisites: PHED 306 and admission into Exercise Science/Kinesiotherapy Program or Athletic Training.* Study and use of exercise to rehabilitate injured athletes and those with orthopedic and other disabilities. Overview of the kinesiotherapy profession, with field trips and observations of clinical therapy settings, and an introduction to the knowledge and competencies required for certification.

**PHED 430. The Psychosocial Dimensions of Sport and Physical Activity. (3-0-3); II.** *Prerequisites: PSY 154 and SOC 101.* Understandings regarding the psychological and sociological factors influencing performance in physical activities.

**PHED 432. Physiology of Exercise. (3-0-3); I, II.** Study of response of the body to muscular activity; work and efficiency, cardiorespiratory adjustment, training, and fitness. Laboratory experiences are an integral part of course.

**PHED 475. Adapted Physical Education. (2-2-3); I.** Characteristics of exceptional students with disabilities and means whereby these students can be aided by physical education. On-site adapted physical education clinic is an integral part of the course.

**PHED 477. Coaching Internship. (0-6-3); I, II, III.** *Prerequisite: completion of 75 percent of required courses in the coaching minor or consent of department chair.* Planning, leadership, supervision, and program evaluation in coaching under qualified administrative leadership and University faculty supervision. Laboratory experiences at the interscholastic and/or intercollegiate level are an integral part of the course. Application must be made through the department chair.

**PHED 490. Internship in Athletic Training. (0-18-6); I, II.** *Prerequisites: BIOL 231, PHED 220, 221, 340, and 341; admission to the Athletic Training Internship Program. Co-requisites: PHED 306 and 432.* An advanced class with hands on experience, which is required for certification.

**PHED 499D. Senior Capstone. (3-0-3); I, II.** Exercise Science. This course is a culminating experience in which students will review and use the knowledge, skills, and abilities acquired during their undergraduate program to prepare to take the professional exams required to secure desirable employment.

**PHED 550. Planning and Managing Exercise Programs. (3-0-3); II.** Emphasis upon knowledge, methods in planning, designing, managing and improving exercise programs. (Provides a sound scientific basis and a practical foundation for students interested in the exercise field and for professionals in the fitness field.)

**PHED 551. Exercise Testing and Prescription. (3-0-3); I.** *Prerequisites: PHED 432.* Knowledge and skills in the area of fitness evaluation, exercise prescription and delivery of exercise programs to normal/special populations.

**PHED 553A. Corporate Practicum. (0-9-3); I, II, III.** This course will provide students with practical experience ina corporate fitness/wellness setting.

**PHED 553B. Clinical Practicum (0-9-3); I, II, III.** *Prerequisites: completion of all core courses and PHED 551.* This course will provide students with practical experience in a clinical-based setting that includes cardiac rehabilitation.

**PHED 553C. Clinical Internship in Kinesiotherapy. (0-9-3); I, II, III.** Application of knowledge in kinesiotherapy in clinical settings, including experience in neurology, orthopedics, pediatrics, psychiatric, and geriatric departments.

**PHED 576. Special Problems in Physical Education. (1 to 3 hrs.); I, II.** Designed to meet special needs of individual students. Intensive study of approved specific problems from an area of physical education.

**PHED 599. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in physical education. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

### Philosophy

**PHIL 200. Introduction to Philosophy. (3-0-3); I, II, III.** An introduction to some of the central problems of philosophy, such as problems about free will, personal identity, knowledge, the nature of reality, right and wrong, and the meaning of life. *This course satisfies the area studies-humanities for general education.*

**PHIL 203. Social Ethics. (3-0-3); I, II, III.** An introductory survey of moral theories and their application to such contemporary moral issues as abortion, euthanasia, capital punishment, affirmative action, poverty and hunger, sexual morality, marriage, lying, cheating, lifestyle and personality, business practices, and so on. *This course satisfies the area studies-humanities for general education.*

**PHIL 300. Philosophy of Science. (3-0-3); II.** An examination of basic issues in the philosophy of science, such as scientific progress and cumulativity, the nature of scientific explanation, the nature of scientific evidence, scientific realism, the relation between theory and observation, and the relation between science and value.

**PHIL 306. Introduction to Logic. (3-0-3); I, II, III.** An introduction to the central questions in logic: What makes reasoning valid or invalid? How can we test reasoning in order to decide whether or not it is strong? What are the main kinds of reasoning and mistakes in reasoning? *This course satisfies the area studies-humanities for general education.*

**PHIL 307. Philosophy of Religion. (3-0-3); on demand.** Basic issues in philosophy of religion. For example: Are there good arguments for or against the existence of the God worshiped by traditional theists (Judaism, Christianity, Islam)? Why is there evil? What is the relationship between faith, revelation, and evidence? Do people survive death?

**PHIL 308. Philosophy of the Arts. (3-0-3); on demand.** Major theories of art, aesthetic experience, the structure of art, problems in aesthetics, and art criticism.

**PHIL 312. Symbolic Logic. (3-0-3); on demand.** An introduction to symbolic logic: How can we use symbols to represent claims and test arguments? What are the philosophical implications of contemporary developments in symbolic logic?

**PHIL 313. American Philosophy. (3-0-3); I.** Examination of the writings of leading representatives of American philosophy with special emphasis on the writings of the "classical" period.

**PHIL 320. Eastern Philosophy. (3-0-3); on demand.** An examination of the major philosophical theories of Hinduism, Buddhism, Confucianism, and Taoism. Add last sentence to read: Cross listed with IST 321.

**PHIL 321. The Meaning of Life. (3-0-3); on demand.** An investigation of various aspects of the philosophical problem of the meaning of life.

**PHIL 333. Environmental Ethics. (3-0-3); I, II.** *Prerequisite: at least sophomore standing.* An introduction to environmental ethics. Consideration to ethical theories and values as they apply to the natural environment. Emphasis on ethical aspects of such practical issues as preserving wilderness areas and wetlands, species extinction, population dynamics, forestry and mining policies, waste disposal, recycling, animal rights and liberation, domestic uses of animals and pets, sustainable agriculture, pesticide and herbicide usage, the status of embryos, genetics, biotechnology, animals as food, animal experimentation, economics, and the impact of environmental policies on diverse cultures and developing nations. *This course satisfies the area studies-humanities for general education.*

**PHIL 341. Philosophy and Death. (3-0-3); on demand.** An exploration of the central philosophical questions concerning death: What is death? Is death good, bad, or neutral? Is death something to be feared? What happens after we die?

**PHIL 351. Philosophy of Love and Sex. (3-0-3); on demand.** An exploration of the central philosophical questions concerning love and sex, with reference to classical and contemporary sources: What is love? Why do we love people? Are there different kinds of love? What is sex? What makes sex bad or good, right or wrong? What is the relationship between sex and love, if any? Cross listed with WST 351.

**PHIL 355 Ancient and Medieval Philosophy. (3-0-3); I.** The history of Western philosophy from its ancient origins through the medieval period and the beginning of the Renaissance. *This course satisfies the area studies-humanities for general education.*

**PHIL 356. Modern and Contemporary Philosophy. (3-0-3); II.** A history of Western philosophy from Renaissance to the present. *This course satisfies the area studies-humanities for general education.*

**PHIL 389. Honors Seminar in Philosophy. (3-0-3); on demand**. *Prerequisite: admission to Honors Program.* Contemporary moral issues are examined, discussed, and evaluated. The topics may vary from semester to semester.

**PHIL 399. Special Courses. (1 to 3 hrs.); on demand.** *Prerequisite: variable.* These courses are usually specialized offerings in philosophy for the advanced undergraduate student. The purpose of these courses is to enhance the existing program in philosophy.

**PHIL 403. Ethical Theory. (3-0-3); on demand.** *Prerequisite: at least one course in philosophy or consent of instructor.* Study and analysis of selected issues and readings in moral philosophy. May include normative ethics, metaethics, moral epistemology, and/or value theory.

**PHIL 410. Current Philosophy. (3-0-3); on demand.** An examination, interpretation, and evaluation of the ideas of leading representatives of Twentieth Century philosophies.

**PHIL 420. Metaphysics. (3-0-3); on demand.** *Prerequisite: at least one course in philosophy or consent of instructor.* An examination of the ultimate nature of reality, including (for example) the nature of time, space, and causation, the nature of identity and substance, the relation between particulars and universals, and the nature of mind and freedom.

**PHIL 430. Epistemology. (3-0-3); on demand.** *Prerequisite: at least one course in philosophy or consent of instructor.* An introduction to the central issues in epistemology: What is knowledge? When are beliefs rational, warranted, or justified? Do we know anything? How?

**PHIL 476. Special Problems. (1 to 3 hrs.); on demand.** *Prerequisite: permission of instructor.* The student selects an approved topic in philosophy on which to do a directed study.

**PHIL 499C. Senior Seminar in Philosophy. (3-0-3); I.** *Prerequisites: senior standing and either 15 hours in philosophy or consent of the philosophy faculty.* Examination, in a seminar setting, of issues and opportunities for philosophy majors. *This course satisfies the integrative component for general education.*

### Physics

**PHYS 109. A History of the Universe. (3-0-3); I, II.** A conceptual approach to the ideas of modern astrophysics and cosmology for non-scientists. The ideas of classical physics. Einstein's theory of relativity, quantum mechanics, fundamental particles and forces, matter and antimatter, modern cosmology, and the Big Bang will be explored. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**PHYS 110. Concepts in Astronomy. (3-0-3); I, II.** An introduction to the study of astronomical phenomena: motions of the sky, planetary science, the sun as a star, solar astrophysics, stars and stellar evolution, and cosmology-the structure and evolution of the uni-

verse. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**PHYS 199. Selected Topics. (1 to 6 hrs.); on demand.**

**PHYS 201. Elementary Physics I. (3-0-3); I, II, III.** *Prerequisite: one of the following CHEM 111, MATH 141, 174, 175, and ACT Math subscore of 22 or above.* Kinematics, laws of motion, work and energy, impulse and momentum. Gravitation, rotation and equilibrium. Elasticity, fluids and simple harmonic motion. Heat, heat transfer, thermodynamics, waves and sound. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**PHYS 201A. Elementary Physics I Laboratory. (0-2-1); I, II, III.** *Co-requisite: PHYS 201.* Laboratory for PHYS 201.

**PHYS 202. Elementary Physics II. (3-0-3); I, II, III.** *Prerequisite: PHYS 201 or ITEC 141.* Electricity and magnetism, light and optics, atomic and nuclear physics.

**PHYS 202A. Elementary Physics II Laboratory. (0-2-1); I, II, III.** *Co-requisite: PHYS 202.* Laboratory for PHYS 202.

**PHYS 211. Circuits. (3-2-4); on demand.** *Prerequisite: MATH 275. Co-requisite: PHYS 232.* Linear circuits consisting of passive and active circuit elements; sinusoidal-forcing functions and phasors; steady-state response.

**PHYS 220. The Science of Music. (3-0-3); I. II.** *Prerequisite: MATH 123 or above, or ACT MATH subscore of 18 or higher, or consent of instructor. Not applicable credit toward a physics major or minor, or the area of concentration in physics.* Properties of waves and sound; the hearing process; musical scales; production of music by wind, string, and electronic instruments; electronic recording, reproduction, and amplification; architectural acoustics. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**PHYS 221. Statics. (3-0-3); II.** *Prerequisites: MATH 275 and PHYS 231.* Vector algebra, moments of force, equivalent force systems, equilibrium, trusses, frames, beams, friction, centroids, and moments of inertia.

**PHYS 231. Engineering Physics I. (4-0-4); I.** *Co-requisite: MATH 275.* Introduction to physics for scientists and engineers. Motion, statics, kinetics, and dynamics of linear and rotational motion. Work, energy, and power. Gravitational fields, waves and fluids. Thermal properties of matter and heat transfer. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**PHYS 231A. Engineering Physics I Laboratory. (0-2-1); I.** *Co-requisite: PHYS 231.* Laboratory for PHYS 231.

**PHYS 232. Engineering Physics II. (4-0-4); II.** *Prerequisite: PHYS 231.* Electromagnetism, optics, atomic and nuclear physics.

**PHYS 232A. Engineering Physics II Laboratory. (0-2-1); II.** *Co-requisite: PHYS 232.* Laboratory for PHYS 232.

**PHYS 239. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: Consent of department.* Participation in supervised work experience in a professional environment.

**PHYS 299. Selected Topics. (1 to 6 hrs.); on demand.**

**PHYS 324. Radio Astronomy. (3-0-3).** *Prerequisite: PHYS 110 or 201 or equivalent.* A study of astrophysically interesting phenomena utilizing the techniques of the science of radio astronomy; topics include galactic structure, radio galaxies, cosmic jets and black holes, interstellar molecules and instrumentation in radio astronomy, with a major emphasis in the methods of research in experimental astrophysics.

**PHYS 332. Electricity and Magnetism. (4-0-4); II, alternate years.** *Prerequisite: PHYS 232.* Classical electricity and magnetism, Maxwell's equations, Lorentz force equation; electrodynamics, electrostatics, and magnetostatics; circuit theory, electromagnetic waves, and radiating systems.

**PHYS 339. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: Consent of department.* Participation in supervised work experience in a professional environment.

**PHYS 340. Experimental Physics. (1-4-3); II, alternate years.** *Prerequisite: PHYS 232.* Selected experiments from classical and modern physics. Computer analysis and simulation.

**PHYS 350. Nuclear Science. (3-2-4); II.** *Prerequisite: PHYS 202.* An interdisciplinary course in nuclear science and technology. Topics include nuclear and particle physics, radioactive decay processes, radiation interaction with matter, biological effects of radiation, human exposure to radiation, dose calculations, nuclear medicine, industrial and nuclear power applications, and radiation related science and society issues.

**PHYS 353. Concepts of Modern Physics. (4-0-4); I.** *Prerequisite: PHYS 232.* Special relativity, quantum mechanics, atomic and molecular structure, solid state and nuclear physics.

**PHYS 361. Fundamentals of Electronics. (2-2-3); I.** *Prerequisite: PHYS 202/202A, 232/232A or ITEC 141.* A survey of electronics: components, basic circuits, transducers, op-amps, digital circuits, microprocessors, and interfacing.

**PHYS 381. Computer Solutions to Engineering and Science Problems. (3-0-3); on demand.** *Prerequisites: PHYS 232 and MATH 260.* Applications of computer programming to problems in engineering and physics. Problems will be selected from statics, dynamics, mechanics of materials, thermodynamics, and electricity and magnetism, with an extended problem selected from the student's major area of interest.

**PHYS 391. Dynamics. (3-0-3); I, alternate years.** *Prerequisite: PHYS 221 or 231.* A study of motion of bodies. Kinematics and dynamics of particles and rigid bodies; work and energy; impulse and momentum. Cross listed with MATH 391.

**PHYS 399. Selected Topics. (1 to 6 hrs.); on demand.**

**PHYS 410. Solid State Physics. (3-0-3); on demand.** *Prerequisite: PHYS 353.* Lattice dynamics, electrons in metals, semi-conductors, and dielectric and magnetic properties of solids.

**PHYS 411. Thermodynamics. (3-0-3); II.** *Prerequisite: PHYS 231.* First and second laws of thermodynamics, power and refrigeration cycles, statistical thermodynamics, relations among properties, and equations of state.

**PHYS 412. Light and Physical Optics. (3-0-3); on demand.** *Prerequisite: PHYS 232.* Dualistic nature of light; interference, refraction, reflection, diffraction, polarization, laser action, and spectra.

**PHYS 439. Cooperative Education (1 to 8 hrs.); I, II, III.** *Prerequisite: consent of department.* Participation in supervised work experience in a professional environment.

**PHYS 452. Nuclear Physics. (3-0-3); on demand.** *Prerequisite: PHYS 232.* Binding energies, nuclear forces, transmutation of nuclei, natural and artificial radioactivity.

**PHYS 476. Special Problems. (1 to 6 hrs.); I, II, III.** *Prerequisite: consent of instructor.* Topic to be approved prior to registration.

**PHYS 481. Mathematics for Engineers and Scientists. (3-0-3); on demand.** *Prerequisite: MATH 276.* Fourier series, ordinary and partial differential equations, special functions, and integral transforms. Cross listed with MATH 481.

**PHYS 493. Quantum Mechanics. (3-0-3); on demand.** *Prerequisite: PHYS 353 or consent of instructor.* The wave function; Hermitian operators and angular momentum; Schrodinger's equation, barriers, wells, harmonic oscillators, and the hydrogen atom.

**PHYS 499. Selected Topics. (1 to 6 hrs.); on demand.**

### Paralegal Studies

**PLS 210. Introduction to Paralegalism. (3-0-3); II.** A study of law and the legal system, the responsibilities and ethics of the paralegal, and the major elements of the paralegal program.

**PLS 226. Law for the Layperson. (3-0-3); I, II.** A study of practical criminal and civil law which every citizen should know; designed to provide an understanding of a person's legal rights and responsibilities, a knowledge of everyday legal problems, and the ability to analyze, evaluate, and, in some instances, resolve simple legal disputes. This course may not be taken for Paralegal Studies credit. *This course satisfies the area studies-practical living for general education.*

**PLS 321. Legal Research. (3-0-3); I.** *Prerequisite: GOVT 141.* A study of primary and secondary legal authority, the proper form of citations and techniques for searching, validating and analyzing legal authority.

**PLS 322. Legal Writing. (3-0-3); II.** *Prerequisites: GOVT 141, PLS 210, and 321.* A study of the methods using legal authority to construct a written argument with an emphasis on legal writing style and drafting techniques.

**PLS 325. Civil Litigation for the Paralegal I. (3-0-3); I.** *Prerequisite: PLS 210, 321, 322, or consent of instructor.* An overview of the study of civil litigation, concentrating on the principles of litigation, the lawyer-client relationship, ethics, court organization, jurisdiction, and introduction to the Rules of Civil Procedure and the Rules of Evidence as they pertain to the pleading and discovery stages of litigation with emphasis on drafting documents related to discovery; and studying the procedures utilized for gathering evidence and investigating cases.

**PLS 326. Civil Litigation for the Paralegal II. (3-0-3); II.** *Prerequisite: PLS 210, 321, 322, 325, or consent of instructor.* Continues the study of the techniques of civil litigation begun in PLS 325, emphasizing the Rules of Civil Procedure and the Rules of Evidence during the pre-trial, trial, and appeal stages of civil litigation, with emphasis on drafting documents related to the pre-trial, trial and appeal stages of civil litigation.

**PLS 332. Property Law. (3-0-3); II.** *Prerequisite: PLS 210.* A study of real and personal property with an emphasis on related forms, documents, and procedures, including title examination and real estate transfers.

**PLS 333. Family Law. (3-0-3); I.** *Prerequisite: PLS 210 or equivalent or consent of instructor.* The main emphasis is the study of domestic law including modern divorce (marriage dissolution), annulments, antenuptial agreements, child support and custody, alimony, property division, and related tax consequences. Also studied briefly are spouse and child abuse remedies, the rights of women and children and the juvenile court.

**PLS 334. Torts, Personal Injury Litigation, and Insurance Law. (3-0-3); II.** A study of the law of torts with emphasis on forms, documents, and procedures related to personal injury litigation and insurance claims.

**PLS 335. Contracts and the Uniform Commercial Code. (3-0-3); I.** A practical course in simple contract law and its evolution into modern day sales law under the Uniform Commercial Code. Additionally, the course studies other aspects of the Uniform Commercial Code such as Secured Transactions, Creditor/Debtor remedies, and Negotiable Instruments.

**PLS 336. Wills, Trusts, and Estates. (3-0-3); II.** *Prerequisite: PLS 210 or equivalent, or consent of instructor.* A study of the law and practice of wills, trusts, and estate administration for the paralegal with particular emphasis on forms and documents.

**PLS 337. Corporate Law. (3-0-3); II.** The business corporation is the most versatile form of business association. This course studies the law of business corporations with an emphasis on related forms and documents.

**PLS 340. Criminal Law and Procedure. (3-0-3); II.** *Prerequisite: PLS 210.* A study of the law of crimes against persons and property, defenses to prosecution and punishment, and of criminal procedure and evidence, with an emphasis on the Kentucky Penal Code and related forms and documents.

**PLS 360. Paralegal Specialty Course. (3-0-3); on demand.** *Prerequisite: PLS 210 and consent of instructor.* A practice-oriented study of specialized areas of law not examined in the core curriculum which will emphasize the use of forms and documents. A different legal specialty will customarily be chosen each time the course is offered. May be repeated once for credit.

**PLS 476. Special Problems in Paralegal Studies. (1 to 3 hrs.); on demand.** *Prerequisite: consent of instructor. Open only to Paralegal Studies majors.* Original research project or readings in a particular subject area.

**PLS 490. Paralegal Internship. (3-0-3); I, II, III.** *Prerequisite: consent of Paralegal Studies Coordinator.* The development and application of paralegal skills through a practicum requiring the student to work 120 hours under the direct supervision of an attorney in a law office or other appropriate legal environment.

**PLS 499C. Senior Paralegal Practice Seminar. (3-0-3); I.** *Prerequisites: CIS 101 or equivalent, PLS 326, and senior standing or consent of instructor.* An advanced course to be taken prior to the paralegal internship. The course is a study in the use of and implementation of technology in the law office emphasizing document generation techniques, docket control and case management systems, time and billing systems and Computer Assisted Legal Research (CALR). *This course satisfies the integrative component for general education.*

### Psychology

**PSY 154. Introduction to Psychology. (3-0-3); I, II, III.** Course includes the application of psychological theories and principles in such major areas of psychology, including abnormal, biological, clinical, cognitive, developmental, personality, learning, sensation and perception, and social; in addition to the understanding of methods used in psychological research. *This course satisfies the area studies-social and behavioral sciences for general education.*

**PSY 156. Lifespan Developmental Psychology. (3-0-3); I, II.** *Prerequisite: PSY 154.* Covers developmental theories, principles, and characteristics of individuals across the major developmental periods: prenatal, infancy and childhood, adolescence, and adulthood. *This course satisfies the area studies-social and behavioral sciences for general education.*

**PSY 157. Psychology of Adjustment. (3-0-3); I, II.** *Prerequisite: PSY 154 or consent of instructor.* Overview of processes and adaptation and personal adjustment in family, group, and work settings. Personality theories of Erikson, White, and oth-

ers applied to process of developing for the individual a sense of competence and means of resolution of crises during life cycle.

**PSY 199. Workshop. (1 to 3 hrs.); on demand.** Workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

**PSY 276. Independent Study. (1 to 3 hrs.); I, II, III.** Professional problem in psychology.

**PSY 281. Experimental Design and Analysis I. (2-2-3); I.** *Prerequisites: PSY 154 and MATH 123 or higher.* An introduction to psychological research methods including experimental design, data analysis and presentation, report writing and proposal development (APA style), and statistical software applications (SAS). Laboratory experiences are an integral part of this course.

**PSY 282. Experimental Design and Analysis II. (2-2-3); II.** *Prerequisite: PSY 281 or consent of instructor.* Continuation of PSY 281 with special emphasis on the design and analysis of more complex experimental designs using inferential statistics and computer software applications, and original psychological experimentation by the student. Laboratory experiences are an integral part of this course.

**PSY 339. Cooperative Education. (1 to 8 hrs.); on demand.** *Prerequisite: consent of department chair.* Participation in supervised work experience in a professional environment.

**PSY 353. Industrial Psychology. (3-0-3); on demand.** *Prerequisite: PSY 154.* Applied experimental and engineering psychology. Surveys of basic engineering data with emphasis on experimental procedure, receptive and motor capacities, and their application to equipment design and other problems.

**PSY 354. Introduction to Social Psychology. (3-0-3); I, II.** *Prerequisite: PSY 154.* Scientific study of individual's relationship with social environment. Emphasis on attitudes, personality, prejudice, discrimination, dominance, role theory, social learning, social and interpersonal perception, and social movement.

**PSY 356. Cognitive Development of the Infant and Child. (3-0-3); I.** *Prerequisite: PSY 154.* Extensive examination of the cognitive and social cognitive development of the infant and child. Both the major theories of cognitive developmental psychology and the developmental processes of perception, memory, problem solving and other cognitive skills will be examined.

**PSY 358. Psychological Testing. (3-0-3); on demand.** *Prerequisite: PSY 154.* General introduction to psychological testing. Topics include interest inventories, measurement and evaluation of personality, measurement of proficiency, performance, attitudes, temperament, aptitude, capacity, and intelligence through use of group assessment instruments used in psychological research, guidance, education, social research, business, and industry.

**PSY 359. Applied Behavior Analysis. (2-2-3); on demand.** *Prerequisite: PSY 154.* Operant learning principles that govern human behavior applied to modification of behavior in clinical setting. Course is designed to give experience in dealing with behavioral problems in classroom and clinical settings. Laboratory experiences are an integral part of course.

**PSY 380. Cognitive Psychology (3-0-3); II.** *Prerequisite: PSY 154.* Scientific study of mental processes such as perception, attention, memory, language, and decision-making. Emphasis is on contemporary issues such as types of memory, the relationship between the brain and cognition, and computer models of information processing.

**PSY 384. Sensation & Perception. (2-2-3). I.** Examination of the role of perception as an information extraction process. Includes constancies, space perception, illusions, and influences of learning and experience on development of perception. Laboratory experiences are an integral part of this course.

**PSY 389. Honors Seminar in Psychology. (3-0-3).** Study and discussion of current topics, issues, and problems in a particular area of the overall discipline. Topics will vary from semester to semester.

**PSY 390. Psychology of Personality. (3-0-3); I, II, III.** *Prerequisite: PSY 154.* Introduction to major approaches, methods, and findings in field of personality, including overview of basic theories, strategies, issues, and conclusions; attention to assessment and personality change.

**PSY 399. Workshop. (1 to 3 hrs.); on demand.** Workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

**PSY 421. Physiological Psychology. (3-0-3); I.** *Prerequisite: PSY 154.* Physiological mechanisms of normal human and animal behavior. Anatomy and physiology relevant to student of sensory and motor functions, emotion, motivation, and learning.

**PSY 422. Comparative Psychology. (3-0-3); on demand.** *Prerequisite: PSY 154.* Theory and application of field and laboratory techniques used in understanding behavior of animals. Areas include: instinct, learning, motivation, sensory discrimination, heredity, and perception.

**PSY 452. Disorders of Childhood. (3-0-3); on demand.** *Prerequisites: PSY 154 and 156 or an equivalent course in human development.* Survey of childhood disorders, therapies, research, and practical issues involved in working with children, adolescents, and families in a clinical setting.

**PSY 456. Introduction to Clinical Psychology. (3-0-3); I.** *Prerequisite: PSY 154.* Survey of basic theoretical issues and research in areas of assessments and psychotherapy. Consideration of ethical, legal, and other professional problems in clinical psychology. Emphasis on clinical aspects of school psychologist's functions in working with school age children.

**PSY 465. Drugs and Behavior. (3-0-3); I.** *Prerequisite: PSY 154.* An introduction to the biological and psychological principles involved in the study of psychoactive drugs. Includes discussion of drug action, drug classification, and theories of chemical dependency.

**PSY 469. Counseling Psychology. (3-0-3); I.** *Prerequisite: PSY 154.* A survey and study of the major approaches and orientations to therapeutic intervention in mental health services. Will include coverage of supportive/crisis intervention, insight/relationship oriented therapies, and group and family therapies. Students will receive exposure to theoretical literature and practical application of the various interventions.

**PSY 470. Research Problems. (1 to 3 hrs.); I, II, III.** Independent research study of professional problem. Conferences with instructor by arrangement.

**PSY 471. Addiction Therapies. (3-0-3); on demand.** *Prerequisites: PSY 154, 421, and 465.* An introduction to the treatment of psychoactive substance use disorders and psychoactive substance-induced organic mental disorders. Includes discussion of the phases, stages, and progression of these disorders, treatment options and methods/process, maintenance procedures, and treatment outcome research findings.

**PSY 472. Practicum. (3 to 6 hrs.); I, II, III.** *Prerequisite: consent of instructor.* Practical learning experiences in school, clinical, or organizational settings under qualified supervision by a licensed/certified psychologist. Minimum of 160 hours over a minimum of eight weeks required for each three hours of credit.

**PSY 499C. Systems and Theories. (3-0-3); I, II.** *Prerequisites: PSY 154, 282, and senior standing.* Intensive study of most influential historical systems of psychology including structuralism, functionalism, associationism, behaviorism, Gestalt psychology, and psychoanalysis, and a treatment of contemporary developments. *This course satisfies the integrative component for general education.*

**PSY 575. Selected Topics. (2-2-3).** *Prerequisite: consent of instructor.* Various methods courses in instrumentation and data reduction, innovation and research design, directed study of special problems in psychology, various application courses, and others.

**PSY 576. Seminar in Developmental Research. (3-0-3); II.** *Prerequisites: PSY 156 and 282 or consent of instructor.* Intensive examination of research in contemporary developmental psychology. Emphasis on reading and evaluating current journal articles and designing research projects.

**PSY 584. Sensation & Perception. (2-2-3); III.** Examination of the role of perception as information extraction process. Includes constancies, space perception, illusions, and influences of learning and experience on development of perception. Laboratory experiences are an integral part of this course.

**PSY 586. Motivation. (2-2-3); on demand.** *Prerequisite: PSY 154.* Consideration of basis of human and animal motivation in relation to other psychological processes. Laboratory experiences are an integral part of this course.

**PSY 585. Systems and Theories. (3-0-3); I.** *Prerequisities: PSY 154 and EDSP 581 or MATH 353.* Intensive study of more influential historical systems of psychology, including structuralism, functionalism, associations, behaviorism, Gestalt psychology and psychoanalysis, and a treatment of contemporary develoments.

**PSY 589. Psychology of Learning. (3-0-3); I, III.** *Prerequisite: PSY 154.* Fundamental principles of learning, including acquisition, retention, forgetting, problem solving, and symbol formation; experimental studies; application of principles to practical problems in habit formation, development of skills, remembering, and logical thinking.

**PSY 590. Abnormal Psychology. (3-0-3); II, III.** *Prerequisite: PSY 154.* Psychology, behavior, and treatment of individuals with emotional, perceptual handicaps, and behavioral disorders; general methods used in therapy, and research in this area.

**PSY 599. Workshop. (1 to 3 hrs.); on demand.** Workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

### Regional Analysis and Public Policy

**RAPP 201. Society, Nature, & Development. (3-0-3); I.** *Prerequisites: Biol 155, Math 152, or Soc 101 (Computer Enhanced), or equivalents.* This course introduces the concepts, theories, and practices used to understand communities and regions. These concepts, theories, and practices are commonly used in government, the private sector, nonprofit organizations, and academia. Three major areas of community and regional analysis are encompassed by the course: society and culture, nature and the environment, and planning and development. Also incorporated is material on race, ethnicity, gender, and class. An interdisciplinary approach is emphasized to provide students in environmental sciences, agriculture, economics, management, law, medicine, sociology, social work, geography, and government with a foundation for understanding the social, political, and environmental contexts of situations in which they work. *This course satisfies area studies-social and behavioral sciences for general education.*

**RAPP 201. Society, Nature, and Development. (3-0-3); I.** *Prerequisites: BIOL 155, MATH 152, RAPP 200 and SOC 101 (Computer Enhanced), or equivalents.* An introduction to the concepts of region and regional analysis, with emphasis on the various disciplines employed and how they impact regional analysis. The use of regional analysis in forecasting, planning, and policy. *This course satisfies area studies-social and behavioral sciences for general education*.

**RAPP 202. Basic Computer Techniques in Regional Analysis. (2-2-3); II.** *Prerequisites: SOC 101 (Computer Enhanced) or Math 152 or Math ACT of 20 or higher or consent of the instructor.* This course fosters skill development in community and regional research through introducing computer-based research techniques that are widely used by practitioners. Research techniques and tools are introduced that address planning a study, library investigations, collecting, processing, and analyzing data, and disseminating results. Specifically, the basic skills of spreadsheet and database use are introduced along with the essential analytical skills of charting, statistics, and mapping. In addition, the course addresses Internet communications, methods of transmitting and receiving data, data collection and compilation, and oral/written communication of results. Cross-listed with GEO 202. *This course satisfies required core and computer competence for General Education.*

**RAPP 300. Seminar in Regional Issues I. (3-0-3); I.** *Prerequisite: RAPP 200.* This multidisciplinary seminar teams faculty, students, resource people and citizens in discussion, research, analysis and action plans related to specific topics and current issues in regional analysis and includes a practical focus on regional economic development and public policy. Selected topics include: housing, transportation, education, water quality, land use, air quality, wood, employment, health and health care, crime/violence, poverty and others.

**RAPP 350. Practicing Regional Analysis I. (2-12-3); on demand.** *Prerequisite: RAPP 300.* Practical experience in agency, organization, or field setting related to the student's academic program. Students will work in settings over the full semester or summer and complete a research paper, organizational analysis, position or policy paper that integrates the intellectual world with the real world.

**RAPP 376. Directed Research. (3-0-3); I, II, III.** *Prerequisite: six hours of Regional Analysis and Public Policy courses or permission of the instructor.* Focused research under the direction of an IRAPP faculty member.

**RAPP 450. Practicing Regional Analysis II. (2-12-3); on demand.** *Prerequisite: RAPP 350.* Practical experience in agency, organization, or field setting related to students' academic program. Students will work in settings and conduct research or execute projects that will be further developed as part of the requirements in RAPP 490.

**RAPP 490. Seminar in Regional Issues II. (3-0-3); II.** *Prereq-uisites: RAPP 350 and senior standing.* This seminar will focus on selected current issues in regional analysis and will include a practical focus on their effect on regional economic

development and regional policy. Persons from this region (citizens, policymakers, and activists) will be invited to bring a first-hand view of these issues.

**RAPP 560. Spatial Analysis. (3-1-3); on demand.** *Prerequisites: Inferential statistics course in social or natural sciences or consent of the instructor.* This course provides students with the background and skills to evaluate, select, and apply appropriate spatial analysis techniques to solving real-world problems and issues in public administration. A wide variety of spatial tools and applications applicable to government, business, environmental studies, and academia will be explored. Specifically, students will learn concepts of spatial analytic practice, explore the methods and techniques of applying these concepts in practice, and develop the ability to evaluate, select, and apply the appropriate techniques to real-world subjects.

### Respiratory Care

**RCP 110. Cardiopulmonary Anatomy & Physiology. (3 hrs.).** The anatomy and physiology of the respiratory and the circulatory systems are explored in detail. Emphasis is placed on the interaction of systems in gas exchange and acid-base balance. The structure and function of the chest cage, mechanics of breathing and control of respiration are also included.

**RCP 120. Theory and Principles of Respiratory Care. (4 hrs.).** Principles and techniques of therapeutic procedures used in respiratory care are covered. Included are: the safe handling and administration of medical gases; use of humidity and aerosol therapy; providing lung inflation and bronchial hygiene therapy; and airway care. The indications, contradictions, and physiologic effect of each therapy are presented with an emphasis on safety and appropriateness of care.

**RCP 125. Cardiopulmonary Evaluation. (4 hrs.).** Cardiopulmonary assessment is addressed. Topics include invasive and noninvasive blood gas analysis and interpretation, pulmonary function studies, basic laboratory data interpretation, electrocardiography, and assessment of neck and chest imaging.

**RCP 130. Pharmacology. (3 hrs.).** A detailed study of the pharmacological agents used in the practice of respiratory care. Common agents of the various drug classifications used in the treatment of patients with cardiovascular or pulmonary impairment are covered. Calculations commonly used in preparing and administering drugs are presented emphasizing the need for accuracy.

**RCP 150. Clinical Practice I. (2 hrs.).** Students will observe and assist with chest physical assessment, medical gas administration, humidity and aerosol therapy and bronchial hygiene in the assigned setting.

**RCP 175. Clinical Practice II. (2 hrs.).** Students will participate in the health care team while practicing techniques of respiratory care including airway management and bronchial hygiene in the assigned setting.

**RCP 180. Ventilatory Support. (3 hrs.).** The technological and physiological aspects of mechanical ventilation including the theory of operation, classification, and management of the patient ventilatory system are offered.

**RCP 190. Advanced Ventilatory Support. (2 hrs.).** Advanced concepts in ventilatory support including monitoring and management of the patient ventilator system are addressed.

**RCP 200. Clinical Practice III. (3 hrs.).** Students will practice adult mechanical ventilation procedures and airway management in the critical care setting while continuing to perform other respiratory care skills.

**RCP 204. Emergency & Special Procedures I. (2 hrs.).** Prepare students to participate in advanced emergency life support and special procedures.

**RCP 210. Cardiopulmonary Pathophysiology. (2 hrs.).** The etiology, diagnosis, clinical manifestations and management of cardiopulmonary disorders as related to respiratory care are addressed.

**RCP 212. Neonatal/Pediatric Respiratory Care. (3 hrs.).** Special needs of neonatal and pediatric patients are addressed. Fetal cardiopulmonary development and changes at birth are covered. Equipment, procedures and methods used in the care and evaluation of neonatal and pediatric patients are also covered. Cardiopulmonary conditions and diseases particular to neonates are discussed.

**RCP 214. Emergency & Special Procedures II. (2 hrs.).** Prepares students to assist physician in advanced diagnostic and therapeutic procedures.

**RCP 225. Clinical Practice IV. (3 hrs.).** Students will observe and practice advanced cardiopulmonary evaluation techniques while improving efficiency in the ventilatory management of adult patients. Students may also practice pediatric and neonatal mechanical ventilation techniques in the assigned setting.

**RCP 228. Preventive & Long-Term Respiratory Care. (1 hr.).** Prevention of cardiopulmonary disorders and care of individuals with long-term cardiopulmonary disability is covered. Psychosocial and physical needs of the client are addressed. Emphasis is on improving the quality of life and cardiopulmonary reserve. Special respiratory care needs of diverse client populations in a variety of settings are covered.

**RCP 250. Clinical Practice V. (3 hrs.).** Emphasis is on preparing the student to participate in effective and efficient planning, managing and delivering respiratory care to diverse client population in various settings.

**RCP 299. Selected Topics in Respiratory Care (Clinic). (1 to 4 hrs.).** A special project or experience in Respiratory Care will be selected to enhance core material in the Respiratory Care Program. It provides the student an opportunity for independent-study and specialized instruction as approved by the instructor.

### Real Estate

**REAL 105. Principles of Real Estate. (3-0-3); I, II.** A general introduction to real estate as a business and profession. Acquaints the student with a wide range of subjects necessary to the practice of real estate, including license law, ethics, listing and purchase agreements, brokerage, deeds, financing, appraisal, mortgages, and property management.

**REAL 200. Real and Personal Property Auctions. (3-0-3); on demand.** *Prerequisite: REAL 105 or consent of instructor.* Introduction to the current theory and practice of the marketing of real estate and personal property through the auction process. State laws, regulations, and ethical standards and practices which govern the profession will be covered in detail.

**REAL 303. Real Estate Market Analysis. (3-0-3); on demand.** *Prerequisite: REAL 320 or consent of instructor.* Designed to develop skills in analysis of real estate markets and to implement the results of this analysis in real estate sales and marketing management. Students should become proficient in the use of quantitative tools and interpretation of data output in real estate fields.

**REAL 309. Real Estate Land Planning and Development. (3-0-3); on demand.** *Prerequisite: REAL 105 or consent of instructor.*

A comprehensive course on the specialized field of land planning and development, emphasizing the field of home construction. Neighborhood analysis, house design, mechanical systems, and blueprint reading are stressed. Provides important background for developers, appraisers, brokers, and property managers.

**REAL 310. Real Estate Law. (3-0-3); I.** *Prerequisite: REAL 105 or consent of instructor.* Overview of real estate law, focusing on legal fundamentals including contracts, concepts of title, title examination and licensing law.

**REAL 320. Real Estate Marketing. (3-0-3); I.** *Prerequisite: REAL 105 or consent of instructor.* Designed to help real estate professionals with listing, prospecting, showing, negotiating, and closing. Furthermore, qualifying them, organizing, and promotional package design will be discussed. Marketing skill development is emphasized.

**REAL 324. Uniform Standards of Professional Appraisal Practice and Appraisal Ethics. (1-0-1); on demand.** Introduction to the ethics and competency provisions required for professional Appraisal Practice, including the Standards and Standard Rules of Real Property, Personal Property, and Business appraisal and reporting. Provides an introduction to the appraiser's responsibilities to his or her client, readers of the appraisal report and the general public.

**REAL 325. Appraisal of Residential Property. (3-0-3); I.** *Prerequisite: REAL 105 or consent of instructor.* An introduction to the current theory and practice of real estate appraisal as taught by the professional appraisal societies. Insight into the direction of appraisal and feasibility in the future.

**REAL 330. Real Estate Property Management. (3-0-3); on demand.** *Prerequisite: REAL 105 or consent of instructor.* Introduction to basic organization, administrative operation, and management of residential and commercial projects of various sizes. The financial considerations, staffing, training, and evaluation of personnel, sales methods, and promotional techniques in property management.

**REAL 331. Real Estate Finance. (3-0-3); II.** *Prerequisite: REAL 105 or consent of instructor.* Introduction to the mechanisms of real estate finance, sources of funds, principles of mortgage risk analysis, governmental agency roles, and cash flows.

**REAL 335. Real Estate Investment. (3-0-3); on demand.** *Prerequisite: REAL 105 or consent of instructor.* Theory and practices of real estate investments and the wide range of topics in this area. Reasons for and against investing, homes and business properties, sale and lease-backs, and the real estate investor.

**REAL 339. Cooperative Education III. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior level status. Maximum of three hours of cooperative education credit (REAL 339/439) available for option credit.

**REAL 345. Appraisal of Income Property. (3-0-3); on demand.** *Prerequisite: REAL 325.* Introduction to current theory and practice of income property appraisal and appraisal techniques.

**REAL 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various real estate topics will be presented periodically to supplement the basic course offerings in real estate. Credit toward degree programs must be approved by the student's advisor.

**REAL 400. Real Estate Brokerage. (3-0-3); on demand.** *Prerequisite: REAL 105 or consent of instructor.* An examination of the establishment and operation of a real estate broker's office; concentrating on the unique problems of staff recruitment and training, sales activities, marketing practices and policies, budget establishment, analysis and control, data handling, personnel policy, and professional ethics in such an agency.

**REAL 425. Advanced Property Appraisal. (3-0-3); on demand.** *Prerequisite: REAL 105 and 325 or consent of instructor.* Introduction to the responsibility of planning agencies to bring plans into closer harmony with the basic currents of economic development in the relationship between urban form and human behavior and activity patterns. Theory development, the use of models in planning, transportation systems, and other urban activities.

**REAL 439. Cooperative Education IV. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a senior level course. Maximum of three hours of cooperative education credit (REAL 339/439) available for option credit.

**REAL 476. Special Problems in Real Estate. (1 to 3 hrs.); on demand.** *Prerequisites: senior standing and consent of department chair.* Self-directed independent study on a specific problem, based on written proposal and justification submitted by student prior to registration. Each request will be considered on its own merit in relation to the special needs, interest, and abilities of the student.

### Religion

*NOTE: Credit in philosophy is not given for any of the courses in religion.*

**REL 221. World Religions I. (3-0-3); on demand.** *Prerequisite: PHIL 200 is recommended.* Origin, development, assumptions, values, beliefs, practices, great leaders, and principal events of Judaism, Christianity, Islam, and Zoroastrianism. Cross listed with IST 221.

**REL 222. World Religions II. (3-0-3); on demand.** *Prerequisite: PHIL 200 is recommended.* Origin, development, assumptions, values, beliefs, practices, great leaders, and principal events of Hinduism, Buddhism, Confucianism, Taoism, Jainism, Sikhism, and Shintoism. Cross listed with IST 222.

**REL 321. Early and Medieval Christian Thought. (3-0-3); on demand.** *Prerequisite: PHIL 200 is recommended.* Ideas concerning the nature of God, Jesus, the church, man, sin, salvation, the good life, and other issues presented by Jesus, Paul, John, and the early and medieval church fathers or leaders to the beginning of the Reformation.

**REL 322. Modern Christian Thought (1500 to 1900). (3-0-3); on demand.** *Prerequisites: REL 321 and/or PHIL 200 is recommended.* Ideas concerning the nature of God, Jesus, the church, man, sin, salvation, the good life, and other issues presented to theologians and religious leaders from the beginning of the Reformation to the twentieth century.

**REL 323. Twentieth-Century Christian Thought. (3-0-3); on demand.** *Prerequisite: REL 322 or PHIL 200 or consent of instructor.* Ideas concerning the nature of God, Jesus, the church, man, sin, salvation, the good life, and other ideas presented by major twentieth-century theologians such as Barth, Bultmann, Tillich, Niebuhr, Wieman, Hartshorne, A.T. Robertson, Karl Rahner, Karl Adam, Thomas Altizer, and Dietrich Bonhoeffer.

**REL 476. Special Problems. (1 to 3 hrs.); on demand.** *Prerequisite: 12 hours in religious studies or consent of department chair.* The student selects an approved topic in religion on which to do a directed study.

## Radiologic Sciences

**RSCI 110. Introduction to Radiologic Sciences. (1-0-1); I, II, III.** This course is designated to introduce selected concepts and theories upon which the profession of radiologic sciences is based. This course is open to non-radiologic science majors and is a requirement for admission into the Radiologic Sciences Program. One hour of didactic experience per week.

**RSCI 200. Patient Care. (2-2-3); I.** *Prerequisite: admission to Associate Degree Radiologic Science Program. Co-requisite: RSCI 206 and 210.* The study of human needs of individuals in all states of life span. The focus is on basic patient care concepts, principles, and skills, effective communication, legal and ethical issues, and related concepts such as growth and development, health and teaching/learning process. Two hours of didactic and two hours of laboratory experience per week.

**RSCI 206. Radiographic Anatomy, Positioning, and Imaging Production I. (4-2-5); I.** *Prerequisite: admission to Associate Degree Radiologic Science Program. Co-requisites: RSCI 200 and 210.* A study of radiographic anatomy, positioning, and image evaluation. Emphasis is on the radiographer's role and function in the performance of such imaging procedures as chest, bony thorax, abdomen, upper and lower extremity, and selected contrast procedures. Four hours of didactic and two hours of laboratory experience per week.

**RSCI 210. Radiographic Equipment and Imaging I. (2-2-3); I.** *Prerequisite: admission to Associate Degree Radiologic Science Program. Co-requisites: RSCI 200 and 206.* The introductory study of radiographic equipment and imaging, with emphasis on the role and function of the radiographer in image formation, radiation protection, and safety. Two hours of didactic and two hours of laboratory experience per week.

**RSCI 230. Radiography Clinical Internship I. (0-40-10); II.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum. Co-requisite: RSCI 330.* Clinical experience in an affiliated health care agency's radiology department, designated to introduce the student to the radiographer's role and function in the practice of radiography. The student will be applying concepts and skills learned in previous RSCI courses. Emphasis is on performance of imaging procedures such as chest, bony thorax, abdomen, upper and lower extremity, and selected contrast procedures. Forty hours per week in a health care agency's radiology department.

**RSCI 300. Film Critique and Evaluation. (2-0-2); I.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum. Co-requisite: RSCI 320.* Radiographic film evaluation in patient positioning, anatomy, and radiographic quality factors with an emphasis on methods to correct and improve images. Two hour of didactic per week.

**RSCI 310. Radiographic Anatomy, Positioning, and Image Production II. (3-2-4); III.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum.* A continuation of RSCI 206 which studies radiographic anatomy, positioning, and image evaluation with emphasis on the radiographer's role and function in the performance of imaging procedures such as vertebral column, hip and pelvis, cranium, facial bones, and paranasal sinuses. Three hours of didactic and two hours of laboratory experiences per week.

**RSCI 320. Radiography Clinical Internship II. (0-40-10); I.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum. Co-requisite: RSCI 330.* Clinical experience in an affiliated health care agency's radiology department, designed to continue to build on clinical experience obtained in preceding RSCI courses. Emphasis is on performance of imaging procedures such as vertebral column, hip and pelvis, cranium, facial bones, and paranasal sinuses. Forty hours per week in a health care agency's radiology department.

**RSCI 330. Imaging Pathology. (2-0-2); II.** *Prerequisites: successful completion of previous RSCI required courses listed in the curriculum. Co-requisite: RSCI 230.* A study of pathological imaging to include the cardiovascular, genitourinary, digestive and accessory organs, respiratory, nervous and musculoskeletal systems. This course will investigate the etiology, signs and systems and the primary methods of diagnosis. A major emphasis is placed on radiologic visualization of pathological conditions. Two hours of didactic experience per week.

**RSCI 335. Radiation Biology and Protection. (2-0-2) II.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum.*

*Co-requisites: RSCI 340 and 346.* A study of the effects of radiation on the cells, tissues, organs, and the entire human body at all stages of life span. The emphasis on radiation protection procedures, methods of monitoring radiation exposure. The role and function of the radiologic science technologist is discussed in regards to legal responsibility for radiation protection of the patients, other health care personnel, and the public. Two hours of didactic experience per week.

**RSCI 340. Radiographic Equipment and Imaging II. (2-2-3); II.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum. Co-requisites: RSCI 335 and 346.* An advanced study of radiographic film processing and image formation with an emphasis on the role and function of the radiographer in such areas a quality assurance, fluoroscopic imaging, digital imaging and tomography. Two hours of didactic and two hours of laboratory experience per week.

**RSCI 346. Radiation Physics and Electronics. (2-0-2); II.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum. Co-requisites: RSCI 335 and 340.* The study of radiation physics and electronics with emphasis on concepts and principles as related to the role and function of the radiographer. Two hours of didactic experience per week.

**RSCI 350. Seminar in Radiography. (2-0-2): II.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum. Co-requisites: RSCI 335, 340, and 346.* A course designed to assess the student's knowledge and application of the radiography practice. Based on assessment results, the faculty will facilitate review and learning experiences to assist the student in meeting identified learning needs. Two hours of didactic per week.

**RSCI 499C. Senior Seminar in Radiologic Sciences. (3-0-3); II.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum or consent of instructor. Co-requisite: dependent on advanced imaging option.* Students interact as both participants and presenters in a seminar environment where diagnostic imaging, health policy issues, and legal and ethical issues of health care are explored. Emphasis is on assessment of radiologic sciences competencies, oral and written skills, and preparation for a career. *This course satisfies the general education integrative component.* Three hours of didactic experience per week.

## Russian

**RUS 101. Beginning Russian I. (3-0-3); on demand.** An introduction to Russian grammar beginning with the learning of the Cyrillic alphabet and progressing through a brief introduction of conjugation of verb forms and declension of adjectives and nouns.

**RUS 102. Beginning Russian II. (3-0-3); on demand.** *Prerequisite: RUS 101 or one year of high school Russian.* A continuation of RUS 101. An analysis of Russian grammar with emphasis on writing and speaking.

**RUS 201. Intermediate Russian I. (3-0-3); on demand.** *Prerequisite: RUS 102.* A continuation of Russian grammar with emphasis on vocabulary building and language structure. Russian lecture and elementary translation exercises are introduced in this course.

**RUS 202. Intermediate Russian II. (3-0-3); on demand.** *Prerequisite: RUS 201.* A continuation of RUS 201 with additional emphasis on Russian literature, translation, conversation, and writing.

**RUS 301. Readings in Russian Literature. (3-0-3); on demand.** *Prerequisite: RUS 202.* Directed study in Russian literature. The short story, poetry, prose, and essays. Review of Russian grammar as necessary. Oral practice.

**RUS 302. Advanced Readings in Russian Literature. (3-0-3); on demand.** *Prerequisite: RUS 301.* Readings in Russian from Lermontov, Turgenev, Tolstoy, Gogol, Dostoyevski, and others. Assigned readings on Russian culture and history. Review of Russian grammar as necessary.

## Science

**SCI 103. Introduction to Physical Sciences. (3-0-3); I, II, III.** An interdisciplinary approach to the study of the physical sciences. Incorporates measurement, energy, states of matter, and the nature and process of science as they relate to the disciplines of physics, chemistry, astronomy, and the earth sciences. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**SCI 104. Modern Issues and Problems in the Physical Sciences. (3-0-3); I, II, III.** An interdisciplinary approach to study of the physical sciences. Emphasizes decision-making based on the interpretation of data and scientific arguments. Incorporates the study of scientific principles and concepts needed to understand current issues and problems related to modern science. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**SCI 109. Physical Science for the Elementary Teacher. (2-2-3); I, II.** An introduction to the study of physical science: measurement, force and motion, structure of matter, astronomy and earth science. Not acceptable for majors or minors in other physical sciences. *This course satisfies the area studies-natural and mathematical sciences for general education.*

**SCI 110. Introduction to Scientific Computing. (3-0-3;) I, II.** *Prerequisite: ACT Math subscore of 18, or "C" or better in MATH 152.* An introductory computing course emphasizing fundamental computing tools and techniques, and their application to solving scientific problems. Topics include operating systems, hardware, popular and scientific software, and electronic communication. *This course satisfies the computer competence requirement for general education.*

**SCI 111. Inquiry Physical Science for Elementary Teachers. (1-4-3); I, II.** Preservice elementary teachers will learn the essential science concepts established by the Kentucky Core content for Science, which includes topics in areas of properties of matter, force and motion, heat, light and optics, electricity and magnetism, and sound. Students will learn these science concepts through a process of direct observation of physical phenomena, making sense of those observations through inference and reason and in collaboration with fellow students and instructors. Not acceptable for majors or minors in the physical sciences. This course satisfies the general education area studies - natural and mathematical sciences.

**SCI 112. Inquiry Earth and Space Science for Elementary Teachers. (1-4-3); I, II.** Preservice elementary teachers will learn the essential science concepts established by the Kentucky Core Content for Science, which includes topics in areas of geology (rocks, minerals, soils, volcanoes, earthquakes, structure of the earth, etc.), weather (sun as the source of energy, temperature, pressure, seasonal weather patterns and weather prediction, etc.), and astronomy (sun-earth-moon system, solar systems, stars, etc.). Students will learn these science concepts through a process of direct observation of physical phenomena, making sense of those observations through inference and reason and in collaboration with fellow students and instructors. Not acceptable for majors or minors in the Earth and space sciences. This course satisfies the required core computer competency for general education.

**SCI 199. Selected Topics. (1 to 6 hrs.); on demand.**

**SCI 299. Selected Topics. (1 to 6 hrs.); on demand.**

**SCI 360. Science of Aviation. (3-0-3); on demand.** A study of airplane systems, meteorology, navigational procedures, the medical aspects pertinent to flying, and the development of aviation. With the completion of the course, the student should be able to perform successfully on the FFA examination, one of the requirements for the private pilot's license.

**SCI 402. Integrated Biology, Mathematics, and Physical Science Teaching Methods. (2-2-3); I.** *Prerequisites: admission to TEP and completion of at least 20 hours in Physical Science. Corequisite: SCI 403.* Methods course for students who desire to become teachers of middle school science and secondary school biology, physical science, or mathematics. The course provides integrated and content specific clinical experiences designed to prepare students for student teaching their subsequent roles as classroom teachers. Cross listed with BIOL 402 and MATH 402.

**SCI 403. Integrated Biology, Mathematics, and Science Field Experiences in Teaching. (1-4-3); I.** *Prerequisites: admission to TEP and completion of at least 20 hours in Physical Science. Corequisite: SCI 402.* Course provides structured field experiences for students who desire to become teachers of secondary school biology, mathematics, or physical science. This course provides guided field experiences to acclimate the the student into the culture of teaching. Cross listed with BIOL 403 and MATH 403.

**SCI 476. Special Problems. (1 to 6 hrs.); I, II, III.** *Prerequisite: consent of instructor.* Topic to be approved prior to registration. Credit available in the sciences and mathematics.

**SCI 490. Science for the Elementary Teacher. (2-2-3); I, II, III.** *Prerequisites: admission to TEP, completion of the minimum general education requirements in sciences and mathematics.* This course focuses on the development of competencies in materials and methods for teaching science to elementary children. Emphasis is placed on writing curriculum, learning the elementary science theory base, questioning strategies, best practices, science process skills, cooperative learning, technology, and assessment. Clinical and field experiences are an integral part of this course.

**SCI 497C. Senior Seminar in Physical Science Education. (2-0-2); I, II.** *Prerequisites: senior standing and admission to the professional semester in education; to be taken during the last semester of on-campus work. Pre or Co-requisite: SCI 591 or 592.* A final experience in which students will develop a set of classroom and laboratory activities that are usable as they stand in the secondary science classroom as well as learning about equipment, safety and disposal issues pertinent to teaching secondary science. This will facilitate the entry of the student into an actual teaching position. *This course, when combined with EDSE 499C, satisfies the integrative component for general education.*

**SCI 498. Senior Thesis I. (0-4-2); I.** *Prerequisite: senior or junior standing and consent of instructor.* A directed research project will be designed, data will be collected and analyzed, in consultation with a faculty advisor. A primary literature search and research proposal will be completed using library facilities and current technology. This research project will culminate with a scientific paper and oral presentation in SCI 499C. *This course, combined with SCI 499C, satisfies the integrative component for general education.*

**SCI 499C. Senior Thesis II. (0-2-1); II.** *Prerequisite: SCI 498.* Completion of the directed research project begun in SCI 498. A formal report that includes the basic literature search and appropriate experimental work will be prepared in a form suitable for submission to a scientific journal. A scientific oral presentation of the research will be made to the faculty. In addition, an oral presentation at a state, regional, or national scientific meeting will be encouraged. *This course, combined with SCI 498, satisfies the integrative component for general education.*

**SCI 521. Chemistry in the Modern World. (3-0-3); on demand.** A survey of the modern chemical industry with emphasis on industrial processes and the uses of the commodities produced as finished products. The relation of the chemical industry to society will be sketched.

**SCI 570. Earth Science. (3-0-3); III.** *Prerequisite: consent of instructor.* Selected topics from the geological sciences.

**SCI 571. Earth Science for Elementary Teachers. (3-0-3); I, II.** *Prerequisite: consent of instructor. Because the course is online and assignments involve work with children, it is important that students talk with the instructor before registering.* An earth system science approach to studying essential questions that elementary teachers can explore with their students. Assignments include hands-on activities that students conduct with elementary-aged children.

**SCI 580. History of Science. (3-0-3); III.** *Prerequisite: six hours of science credit.* Development of scientific traditions, discoveries, and concepts from the time of ancient Egypt to the present. Cross listed with BIOL 580.

**SCI 591. Science for the Middle School Teacher. (2-2-3); I.** *Prerequisites: admission to TEP and completion of the minimum general education requirements in sciences and mathematics.* A study of pedagogy, science content, and techniques applicable to the teaching of science to middle school or junior high children.

**SCI 592. Science for the Secondary Teacher. (2-2-3); II.** *Prerequisites: admission to TEP and completion of all science courses.* Concepts of teaching high school science with emphasis on laboratory techniques, test preparation, questioning, presentation methods, and care of equipment.

**SCI 599. Selected Topics. (1 to 6 hrs.); on demand.**

## Sociology

**SOC 101. General Sociology. (3-0-3); I, II, III.** The nature and dynamics of human society. Basic concepts include: culture, groups, personality, social institutions, social processes, and major social forces. *This course satisfies the area studies-social and behavioral sciences for general education.*

**SOC 203. Contemporary Social Problems. (3-0-3); I, II, III.** A systematic and objective interpretation of contemporary social problems such as crime, delinquency, poverty, race relations, and family problems, with emphasis on societal conditions under which deviance emerges and the alleviation of such deviant behavior. *This course satisfies the area studies-social and behavioral sciences for general education.*

**SOC 210. The Sociology of Deviance. (3-0-3); I.** *Prerequisite: SOC 101 or consent of instructor.* Designed to introduce the student to the sociological perspective with respect to the definition, courses, and social consequences of deviance. Cross listed with CRIM 210.

**SOC 273. Introduction to Women's Studies. (3-0-3); I, II.** *Prerequisite: completion of the nine-hour general education requirement in English and literature or consent of instructor.* A survey course designed to develop students' awareness of women's literature, poetry, contributions to science, and history, as well as an introduction to feminist theory. Women scholars of all nations and races will be highlighted. Cross listed with WST 273.

**SOC 300. Social Stratification. (3-0-3); I, II, III.** *Prerequisite: SOC 101 or consent of instructor.* This course provides a foundation for understanding social inequality and the structured nature of privilege and disadvantages in society on the basis of class. Theoretical perspectives will review systematic stratification processes informed by class, race, and gender and their intersection. Cross listed with WST 397.

**SOC 302. Population Dynamics. (3-0-3); II.** *Prerequisite: three hours sociology general education or consent of instructor.* The U.S. population, social and economic characteristics, migration, mortality, and fertility trends, influence of social factors on population processes, basic techniques of population analysis, survey of population theories, data on international migration.

**SOC 304. Social Change. (3-0-3); on demand.** *Prerequisite: three hours sociology general education or consent of instructor.* Change theories from early to contemporary scholars. Antecedents and effects of change; function, structure, and ramifications of change; normality of change in modernization; social evolution contrasted with social revolution.

**SOC 305. Cultural Anthropology. (3-0-3); I, II.** *Prerequisite: BIOL 105, SOC 101.* A study of literate and nonliterate cultures using the ethnographic approach. Universal aspects of human experience, including the family, economic, political and religious systems examined in cross-cultural perspective. *This course satisfies the area studies-social and behavioral sciences for general education.* Cross listed with WST 305. Cross listed with IST 305.

**SOC 306. Juvenile Delinquency. (3-0-3); I, II.** *Prerequisite: three hours sociology general education or consent of instructor.* The extent, ecological distribution, and theories of delinquency in contemporary American society, including a critical examination of trends and methods of treatment of delinquency. Cross listed with CRIM 306.

**SOC 312. Sociology of Sports. (3-0-3); on demand.** *Prerequisite: three hours sociology general education or consent of instructor.* The role of sports and games in the shaping and main-

taining of values in the American culture. An examination of sport as expressed in aggression displacement, human welfare, patriotism, religion, group cohesion, sex, competition, and leisure.

**SOC 315. White Collar Crime. (3-0-3); I.** This course will provide students with a variety of theoretical explanations and examples of corporate and organizational crime as well as crime committed by individuals in the workplace. Cross listed with CRIM 315.

S**OC 323. Urban Sociology. (3-0-3); on demand.** *Prerequisite: three hours sociology general education or consent of instructor.* The rise of modern cities; theoretical explanations of urbanization; and the analysis of modern urban problems.

**SOC 330. Applied Medical Sociology. (3-0-3); II.** *Prerequisite: three hours sociology general education or consent of instructor.* An examination of social, cultural, and psychological factors which influence health behaviors; an overview of health care delivery systems and policies; and an analysis of the role of social workers and other health professionals.

**SOC 333. Sociology of Gender Violence: Prospectives on Women and Intimate Partner Violence. (3-0-3); II.** *Prerequisites: SOC 101, SOC 203 or WST 273 and/or consent of instructor.* This course offers social science and experiential exposure to the controversies, theories, patterns, policies, and treatment unique to women's experiences with date, acquaintance, and spousal violence. Focus also is given to marginalized groups, including women of low income, women of color, and women in same-sex relationships. Cross listed with WST 333 and CRIM 333.

**SOC 335. The Family. (3-0-3); I.** This course provides students with information about family interpersonal and social structural dynamics in the multiculturally diverse U.S. society of the 21st century. The course will increase students' awareness about the ways in which other social institutions such as the economy, religion, and education can either negatively or positively influence family structure and function. Cross listed with SWK 335 or WST 335.

**SOC 350. The Human Experience of Sex and Gender. (3-0-3); I, II.** *Prerequisite: three hours sociology general education or consent of instructor.* Focus of course will be on meanings attached to sex and gender, theoretical explanations of those meanings, the institutions which influence perceptions and behaviors, and the impact of social definitions and practices on individuals, male and female. Cross listed with WST 350.

**SOC 354. The Individual and Society. (3-0-3); I, II, III.** The influence of group processes on individual behavior. Topics covered include personality formation and change; small group behavior and leadership patterns. *This course satisfies the area studies-social and behavioral sciences for general education.*

**SOC 363. Cross-Cultural Perspectives on the Sex Industry. (3-0-3); II.** *Prerequisite SOC 350 or WST 273 or consent of the instructor.* This course will explore current theoretical debates and empirical studies on the global sex industry. Broad topics this course will cover include the feminist sex wars, stripping, pornography, prostitution and sexual trafficking. Cross listed with WST 363.

**SOC 370. Rural Sociology. (3-0-3); I.** The cultural and social organizations of rural and urban societies with emphasis on the impact of economic changes and population movements.

**SOC 374. American Minority Relations. (3-0-3); I, III.** *Prerequisite: three hours sociology general education or consent of instructor.* Examines various processes of social and cultural contact between peoples; theories dealing with the sources of prejudice and discrimination; basic processes of intergroup relations; the reactions of minorities to their disadvantaged status; and means by which prejudice and discrimination may be combated. Cross listed with WST 374

**SOC 376. Industrial Sociology. (3-0-3); on demand.** Modern industrialization as social behavior. Social conditions in the rise of industrialism and effects on the worker; collective bargaining and industrial conflict; the industrial community, social classes, and the industrial order.

**SOC 388. Sociology of Punishment. (3-0-3); II.** *Prerequisite: CRIM/SOC 210 or consent of instructor.* This course provides the student with a background knowledge of the development of ideas and actions taken against those people who have been the objects of society's punishment. Cross listed with CRIM 388.

**SOC 399. Selected Topics. (1 to 3 hrs.); on demand.** *Prerequisite: three hours sociology general education or consent of instructor.* Unique topics and learning experiences that supplement regular course offering. May be repeated in additional subject areas.

**SOC 401. Criminology. (3-0-3); on demand.** *Prerequisite: CRIM/SOC 210 and three additional hours of CRIM or consent of instructor.* Cause, treatment, and prevention of crime. Cross listed with CRIM 401.

**SOC 405. Sociological Theory. (3-0-3); I, II, III.** *Prerequisites: three hours sociology general education or consent of instructor.* An introduction to basic theoretical approaches to the study of society and a survey of contributions to the field by major theorists.

**SOC 410. Seminar in Domestic Terrorism and White Supremacy. (3-0-3); II.** This course will provide students with an understanding of the development of a newer national white supremacy and terrorism movement ranging from militia and paramilitary organizations to the Ku Klux Klan. Ecologocial terrorism will also be discussed. Students will gain an understanding of the diversity of these groups and of their plans for change with regard to minority groups, the government, and involvement in criminal activities. Cross listed with CRIM 410.

**SOC 439. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: department approval is required.* Participation in supervised work experience in a professional environment.

**SOC 450. Research Methodology. (3-0-3); I, II, III.** *Prerequisites: three hours sociology general education and six additional hours of CRIM/SOC or consent of instructor.* Fundamental assumptions underlying sociological research; some practical experience in research design, data collection, techniques, and data analysis. Cross listed with CRIM 450.

**SOC 451. Social Science Data Analysis. (3-0-3); I, II.** *Prerequisite: SOC 450 or consent of instructor.* This course deals with the logic of data preparation and computer assisted analysis. Appropriate methods of evaluating and applying standard social science data analysis techniques are discussed and experience in utilizing these methods is provided. In addition, the course covers the basic skills required to evaluate and write research reports. Cross listed with SWK 451.

**SOC 460. Senior Seminar. (3-0-3); II.** This course is required for all sociology majors (not required for those majoring in sociology with an emphasis in Criminology).

**SOC 476. Special Problems. (1 to 3 hrs.); I, II, III.** *Prerequisites: three hours sociology general education and nine additional hours of CRIM/SOC or consent of instructor.* Arranged with the department to study some particular aspect of the field of sociology.

**SOC 499C. Senior Seminar. (3-0-3); I.** *Prerequisites: senior standing and major in sociology.* Capstone course which synthesizes various themes in sociology, examines issues and debates in the field, and explores career possibilities. *This course satisfies the integrative component for general education.*

**SOC 515. Family Dynamics. (3-0-3); II.** An intensive analysis of the family in its social context. Emphases are placed upon social interaction within the family, socio-cultural and socio-economic factors which bear influence upon it, and the relationship of the family to the total social system.

**SOC 525. The Community. (3-0-3); I.** The general character of community relations in society, the structure and function of the community as a social system, the processes of balancing community needs and resources, and planned and unplanned social change.

**SOC 540. Gerontology. (3-0-3); II.** An analysis of aging designed to provide the student with a knowledge of the social factors involved in the aging process as well as the effects of social, political, and economic conditions on welfare of the elderly.

**SOC 545. Death and Dying. (3-0-3); I.** The analysis of death and dying as social processes and problems; strategies for working with dying persons. Cross listed with SWK 545.

**SOC 555. Qualitative Research for the Social Sciences. (3-0-3); on demand.** *Prerequisite: SOC 450.* This course is designed to introduce students to the methods and issues of qualitative social science research. Topics to be covered will include the theory-method link, qualitative research design, qualitative techniques of field research (observation, in-depth interviewing, and document study), case studies and content analysis, and ethical issues.

**SOC 560. Appalachian Culture. (3-0-3); I, II.** Study of the Appalachian culture in juxtaposition to concept of cultural dynamics. Analysis of the relationship between culture, society, and personality in Appalachia.

**SOC 561. Sociology of the Law. (3-0-3); on demand.** Provide a clear understanding of the manner in which laws are formed to protect certain groups and marginalize others who are often perceived as threatening. Deconstruct specific laws by analyzing the formation of criminal law from its incipient stages of development in American society. Cross listed with CRIM 561.

### Spanish

**SPA 101. Spanish Language and Culture I. (3-0-3); I, II.** Study of listening, speaking, reading, and writing basic Spanish with emphasis on the appreciation of the culture of Spain and other Hispanic cultures. *This course satisfies the area studies-humanities for general education.*

**SPA 102. Spanish Language and Culture II. (3-0-3); I, II.** *Prerequisite: SPA 101 or placement test or consent of instructor.* Continued study of listening, speaking, reading, and writing basic Spanish with emphasis on the appreciation of the culture of Latin America and other Hispanic cultures. *This course satisfies the area studies-humanities for general education.*

**SPA 201. Intermediate Spanish I. (3-0-3); I, II.** *Prerequisite: SPA 102 or placement test or consent of instructor.* Reading of moderately difficult Spanish texts; thorough review of minimum essentials of Spanish grammar; conversational practice.

**SPA 202. Intermediate Spanish II. (3-0-3); II.** *Prerequisite: SPA 201 or placement test, or consent of instructor.* A continuation of SPA 201. Reading of more difficult texts.

**SPA 208. Spanish Phonetics and Pronunciation. (3-0-3); I or II.** *Prerequisite: SPA 101 or 102.* A contrastive study of the phonetic systems of English and Spanish, with emphasis on corrective exercises in Spanish pronunciation. Includes practice with tapes and transcriptions from the international phonetics alphabet.

**SPA 210. Spanish for Business Communication I. (3-0-3); I, II.** *Prerequisite: SPA 102 or consent of instructor.* Introduction to the world of Hispanic business and commerce and to cultural aspects of problems related to the conduct of international business. Emphasis on business terminology and vocabulary, business etiquette, and bilingual business concepts.

**SPA 211. Spanish for Business Communication II. (3-0-3; I, II.** *Prerequisite: SPA 210 or consent of instructor.* Emphasis on translation of business documents, and oral practice with business communication and interviews. Discussion of business news, advertisements, etc., and study of business documents. Appropriate practice in each area through writing and revising letters, documents and exercises.

**SPA 300. Grammar and Composition. (3-0-3); I.** *Prerequisite: SPA 202 or consent of instructor.* Review of difficult concepts of Spanish grammar. Study and analysis of writing styles. Emphasis on written composition.

**SPA 301. Survey of Peninsular Spanish Literature from 1700. (3-0-3); on demand.** *Prerequisite: SPA 202.* A survey of Spanish peninsular literature from 1700 to the present with readings from the most significant works in each literary period. Lectures, oral discussions, reports.

**SPA 302. Survey of Spanish American Literature from Colonial Times to 1880. (3-0-3); on demand.** *Prerequisite: SPA 202.* A survey of Spanish American literature from colonial times to 1880 with readings from the most significant works in each literary period. Lectures, oral discussions, reports.

**SPA 304. Spanish Culture and Civilization. (3-0-3); on demand.** *Prerequisite: SPA 202 or consent of instructor.* Study of the architecture, history, literature, music, customs, current events, and ways of life in Spain. Cross listed with IST 340.

**SPA 305. Conversation. (3-0-3); on demand.** *Prerequisite: SPA 202 or consent of instructor.* Conversation on daily subjects of current interest pertaining to the Hispanic world; acquisition of new vocabulary through reading of current material and usage in oral work.

**SPA 306. Latin American Culture and Civilization. (3-0-3); on demand.** *Prerequisite: SPA 202 or consent of instructor.* Study of the architecture, art, geography, history, literature, music, customs, current events, and ways of life on the Latin American world. Cross listed with IST 341.

**SPA 309. Explorations in Hispanic Cinema Analysis. (3-0-3); on demand.** *Prerequisite: SPA 202 or consent of instructor.* Viewing, exploration, and analysis of Hispanic films. Study of film trends and issues. Viewer's guide to film discussion and review. May be taken more than once for credit.

**SPA 399. Special Courses. (1 to 3 hrs.); on demand.** *Prerequisite: variable.* These courses are usually specialized offerings in Spanish for undergraduate students. The purpose of these courses is to enhance the existing Spanish program.

**SPA 401. Masterpieces of Spanish Literature. (3-0-3); on demand.** *Prerequisite: SPA 300.* Reading, analysis, and discussion of literary masterpieces in Spanish. Emphasis on the Middle Ages and the Golden Age.

**SPA 402. Masterpieces of Spanish American Literature. (3-0-3); on demand.** *Prerequisite: SPA 300.* Reading, analysis, and dis-

cussion of literary masterpieces in Spanish. Emphasis on modernism and contemporary literature.

**SPA 403. Spanish Stylistics. (3-0-3); on demand.** *Prerequisite: SPA 300.* Reading and analysis of different writing styles. Study of Spanish rhetorical devices. Translations and compositions in Spanish.

**SPA 432. Contemporary Spanish and Spanish American Literature. (3-0-3); on demand.** *Prerequisite: SPA 300.* A survey of significant characteristics of twentieth century Hispanic literature, including the novel, the short story, the drama, the essay, and poetry.

**SPA 440. Seminar in Hispanic Literature. (3-0-3); on demand.** *Prerequisite: SPA 300.* Group instruction and practice in research methods peculiar to Hispanic literature.

**SPA 476. Directed Studies. (1 to 3 hrs.); on demand.** *Prerequisites: consent of instructor and department chair.* This course is a directed study for the undergraduate Spanish major. Each request for the course will be considered on its own merits in relation to the special needs of the student.

**SPA 499C. Senior Seminar in Spanish. (3-0-3); on demand.** *Prerequisites: senior standing, 15 hours of upper-level Spanish courses, and/or consent of the Spanish faculty.* An integrative capstone course in Spanish. A review of key components of Spanish grammar, culture, literature and of issues related to proficiency in Spanish (speaking, listening, reading, and writing) and to career opportunities for Spanish majors. *This course satisfies the integrative component for general education.*

**SPA 503. Advanced Spanish Grammar. (3-0-3); on demand.** *Prerequisites: SPA 300 or graduate standing.* Grammatical analyses of the structure of Spanish and practice with a wide range of grammatical exercises.

**SPA 505. Linguistics and Language Teaching. (3 to 6 hrs); on demand.** *Prerequisite: Admission to the Teacher Education Program or to the MAT program.* The application of current linguistic theories to the methodology of Teaching French and Spanish; micro-teaching practice and field experiences in the four skills, grammar, and culture. The six-credit-hour course for undergraduates includes 30 clock hours of field experience (Grades P-12). Field experience is not required for graduate students in the MAT program; they must elect the 3 hour option.

**SPA 576. Directed Studies. (1 to 3 hrs.); on demand.** *Prerequisite: consent of instructor and department chair.* This course is a directed study for the advanced undergraduate and the graduate student in Spanish. Each request for the course will be considered on its own merits in relation to the special needs of the student. A maximum of nine semester hours may be earned through independent or special problem courses.

**SPA 599. Special Courses. (1 to 3 hrs.); on demand.** *Prerequisite: variable.* These courses are usually specialized offerings in Spanish for the advanced undergraduate and the graduate student. The purpose of these courses is to enhance the existing program in Spanish. A maximum of nine semester hours may be earned through independent or special problem courses.

### Sport Management

**SPMT 100. Introduction to Sport Management. (3-0-3); I, II.** The course is designed to assist students in understanding the aims, objectives, principles, policies, procedures and requirements for a successful career as a sport administrator.

**SPMT 102. Diversity in Sport and Physical Activity. (3-0-3); II.** This course has been developed to assist students in understanding the historical, philosophical, theoretical, and practical exploration and analysis of diversity and multicultural issues present in American society, and how they relate to sport and physical activity. Emphasis is placed on persons with exceptionality, ethnicity, culture, gender, youth at risk, sexual orientation, and aging.

**SPMT 200. Management of Sport and Physical Activity Programs. (3-0-3); I.** *Prerequisite: SPMT 100*. This course has been developed to assist students in understanding the management principles and procedures applicable to sport and physical activity programs. Emphasis will be on management of personnel, facilities, finances and the related legal issues applying to sport and physical activity.

**SPMT 204. Sport Finance. (3-0-3); II.** *Prerequisite: SPMT 100*. This course has been developed to assist students in understanding the basic concepts, theories and organization of financial management as applied to sport.

**SPMT 206. Ethics in Sport and Physical Activity. (3-0-3); II.** The study of moral issues related to sport in intrinsic and extrinsic dimensions, and the development of a personal philosophy regarding sport responsibility in a sport management setting.

**SPMT 304. Sport Economics. (3-0-3); I.** *Prerequisite: SPMT 204*. The study of how economic theory applies to amateur and professional sport. Topics include the cost and market structures of professional sport, the economics of stadiums and arenas, and the economic impact of sport teams on a local economy.

**SPMT 307. Sport Marketing. (3-0-3); II.** The course is designed to assist students in understanding the aims, objectives, principles, policies, procedures, and requirements for a successful career in sport marketing.

**SPMT 309. Risk Management in Sport and Physical Activity. (3-0-3); II.** This course has been developed to assist students in understanding the complexities of risk management, a distinct companion to sport law. Students will be exposed to policies, procedures, safety audits, risk reviews, and emergency action plans to combat the flood of lawsuits that confront the physical activity, recreation, and sport industries.

**SPMT 310. Governance in Sport. (3-0-3); II.** The course is designed to assist students in understanding the aims, objectives, principles, policies, procedures, and requirements for successful careers as a sport administrators.

**SPMT 380. Sport Media Relations. (3-0-3); I.** This course has been developed to introduce the student to the components necessary to manage a successful sport media relations program as well as perform all the functions of a sport information director. The preparation of materials for distribution to media outlets, such as media guides, game programs and special event publications as well as the organization of statistical information for publications will be discussed. The management of press conferences, press boxes and sport personnel interviews and the impact of technology on these events will also be covered.

**SPMT 402. Planning, Designing, and Managing Sport and Physical Activity Facilities. (3-0-3); I.** The course is designed to assist students in understanding the aims, objectives, principles, policies, procedures, and requirements for successful facility/event management. A "B" or better is required in this course for admission into the Program.

**SPMT 450. Field Experience Preparation, (2-0-2); II.** This course is designed to prepare the student for the field experience component of the program.

**SPMT 471. Sport Management Internship. (15-0-15); I, II, III.** *Prerequisites: SPMT 450, senior standing and overall GPA of 2.0 or higher.* This course will provide students with practical experiences in sport administration that might include high school, collegiate, or professional settings, not-for-profit agencies or the private sector. This course will be evaluated on a Pass-Fail basis.

**SPMT 480. Legal Aspects of Sport & Physical Activity. (3-0-3); I.** *Prerequisite: SPMT 309*. The study of legal terms and concepts and their applications to sport and physical activity. Topics to be covered include negligence, risk management, intentional torts, contract law, constitutional law, and sport and legislation.

**SPMT 481. Employee Service Management in Sport and Physical Activity Settings. (3-0-3); I.** The study of employee services in sport and physical activity settings which provides practical solutions to work/life issues enabling the organization or agency to recruit and retain a quality workforce. Programming opportunities that will be identified will assist in improving relations between employees and management, increase overall productivity, boost morale, and reduce absenteeism and turnover in sport and physical activity organizations.

**SPMT 499C. Senior Capstone. (3-0-3); II.** This course is a culminating experience in which students will review and use the knowledge, skills, and abilities acquired during their undergraduate program to prepare to take the professional exams required to secure desirable employment.

## Social Work

**SWK 210. Orientation to Social Work. (3-1-4); I, II, III.** *Prerequisite: completion of 24 hours of general education requirements or consent of instructor.* Introduction to contemporary fields of social work practice in both primary and secondary settings. The principal focus of the course is familiarization of students to the breadth and scope of professional social work intervention into contemporary societal problems.

**SWK 230. Social Welfare History and Ethics. (3-0-3); I, II.** *Prerequisite: SWK 210 or consent of instructor.* Dominant values of American society that influence both social welfare policy and social work practice will be explored through a study of the historical evolution of the institution of social welfare from the Colonial period to the present in this country. Cross listed with WST 230.

**SWK 301 Comparative Family Violence: An International Perspective. (3-0-3); I.** A comparative approach of family violence in the United States and Canada will be the primary focus of this course but may also include other countries. Family violence is divided into four topics: Partner/Spousal Abuse, Violence Against Children and Youth by Family Members, Family Violence Against Older Adults, and Cultural Issues. Content covered within these areas include: historical overview, definitions, theoretical frameworks, prevalence, incidence, research, responses, and legislation. Cross listed with IST 302. Cross listed with WST 303 also.

**SWK 310. Field Experience in Social Work. (1-2-3); I, II, III.** *Prerequisites: junior or senior standing and major or minor in social work; SWK 210 and 333 or 360.* Observation and work experience in a social work agency under the supervision of a professional.

**SWK 315. Child Welfare Services. (3-0-3); I, II.** Local, state, and national policies and programs designed to provide for the care, protection, and support of children.

**SWK 320. Human Behavior in the Social Environment-Conception to Young Adulthood. (3-0-3); I, II.** *Prerequisites: BIOL 105, PSY 154, SOC 101, SWK 230, or consent of instructor. Co-requisite: SWK 324.* A study of the development of human behavior in the context of social systems. Primary emphasis will be placed on an exploration of needs and tasks of individuals, groups, families, organizations, and communities during various life-stages of growth and development. Environmental concerns affecting women, minorities and other special populations will be examined.

**SWK 321. Human Behavior in the Social Environment-Middle Adulthood to Death (3-0-3). I, II**. *Prerequisites: BIOL 105 or 155, PSY 154, SOC 101, SWK 210, 230, 320, 324, or consent of instructor. Co-requisite: SWK 451.* A study of the development of human behavior in the context of social systems. Primary emphasis will be placed on an exploration of needs and tasks of individuals, groups, families, organizations, and communities during various life-stages of growth and development. Environmental concerns affecting women, minorities and other special populations will be examined.

**SWK 324. Social Work Research. (3-0-3); I, II, III.** *Prerequisites: MATH 123 or higher and SWK 230. Co-requisite: SWK 321.* An examination into the premises and practices of social science research. When addressing quantitative and qualitative approaches, students will explore the issues of research designs, data collection, and data analysis. In the end, students will be able to determine ways in which empirical studies can enhance their subsequent careers in the field of human services.

**SWK 325. Generalist Social Work Practice. (3-0-3). I, II.** *Prerequisites: PHIL 200 or 203, SWK 320, 321, 324 and formal program screen-in. Co-requisite: SWK 451.* A theoretical and conceptual exposure to a social work method involving a six-stage problem-solving process based upon a general systems perspective. The evolution of this method; the relationship of knowledge, values and theory to it; and its application within a bureaucratic structure are addressed.

**SWK 333. Beginning Skills for Human Service Professionals. (3-0-3); I, II, III.** This course provides students with knowledge and beginning helping skills that can be applied to assist individuals who are having social/emotional problems.

**SWK 335. The Family. (3-0-3); I.** This course provides students with information about family interpersonal and social structural dynamics in the multiculturally diverse U.S. society of the 21st century. The course will increase students' awareness about the ways in which other social institutions such as the economy, religion, and education can either negatively or positively influence family structure and function. Cross listed with SOC 335.

**SWK 340. Community Mental Health. (3-0-3); on demand.** This course provides a microscopic perspective of the institutions and programs that have evolved in response to understanding a class of persons traditionally dependent upon medicine and social programs. Emphasis will be placed upon review of the values, knowledge, and skills characteristic of the entry-level social worker in the community mental health agency. Cross listed with WST 340.

**SWK 345. Law and Social Work. (3-0-3); on demand.** This course will focus upon legal and legislative processes involving

licensing and certification of the profession; rights of clients and special populations; access to legal and social services; testifying before judicial and legislative bodies; and other legal issues and concerns facing social work practitioners.

**SWK 358. Child Abuse and Neglect. (3-0-3); I.** *Prerequisites: formal Program screen-in and/or consent of instructor.* This course is designed to provide a comprehensive introduction to child abuse and neglect from a social work perspective. Students will learn the extent of the problem, effects on children, treatment issues, and social worker's role in a multidisciplinary team approach.

**SWK 360. Crisis Intervention. (3-0-3); I, II.** Overview of strategies for addressing critical situations requiring immediate intervention. Subjects include threatened suicide, rape trauma, domestic violence, violent episodes of mental illness, and physical assaults.

**SWK 370. Substance Abuse Counseling. (3-0-3); on demand.** Causes of alcoholism and other substance abuse will be addressed as well as an overview of policy and practice issues for providing effective treatment of those afflicted. The course will include a comparison of existing treatment techniques and programs commonly used.

**SWK 380. Social Work Practice in Health Care. (3-0-3); I, II.** This course examines the practice of social work in health care settings. The roles and tasks of social workers in hospital, long-term care, hospice, and home health care settings will be discussed and analyzed. Special emphasis will be placed on rural issues that impact practice delivery in these settings.

**SWK 399. Selected Topics. (1 to 3 hrs.); on demand.** Unique topics and learning experiences that supplement regular course offerings. May be repeated in additional subject areas.

**SWK 424. Social Work Micro Practice. (3-0-3); I, II.** *Prerequisites: SWK 325, 451 and formal program screen-in. Co-requisites: SWK 426 and 430.* The development of skills related to interviewing, data collection, assessment, goal development, interventive strategy formulation, contracting, interventive counseling, and monitoring/evaluation design as they relate to the application of the social work method to micro-level individual client systems.

**SWK 426. Social Work Mezzo Skills. (3-0-3); I, II.** *Prerequisites: SWK 325, 451, and formal program screen-in. Co-requisites: SWK 424 and 430.* Continuation of the development of skills associated with the application of the social work method to mezzo-level therapeutic groups, task-centered groups, marital and family client systems.

**SWK 430. Social Policy and Planning. (3-0-3); I, II.** *Prerequisites: GOVT 242, SWK 325, 451, and formal program screen-in. Co-requisites: SWK 424 and 426.* The application of a framework of analysis to a variety of social welfare policies. This course provides an exposure to social-economical-political-legal issues affecting social welfare policy formulation, selection of delivery systems, and program funding.

**SWK 451. Social Science Data Analysis. (3-0-3); I, II.** *Prerequisites: completion of all general education requirements, SWK 320, 324 and formal program screen-in. Co-requisite: SWK 325.* This course deals with the logic of data preparation and computer assisted analysis. Appropriate methods of evaluating and applying standard social science data analysis techniques are discussed and experience in utilizing these methods is provided. In addition, the course covers the basic skills required to evaluate and write research reports. Cross listed with SOC 451.

**SWK 458. Child Abuse and Neglect Practice Skills. (3-0-3); II.** *Prerequisites: SWK 315, 358, and consent of instructor.* This course is designed to teach social work practice skills specific to child abuse and domestic violence. Students will learn interviewing and assessment skills, case planning and decision making, guidelines for court involvement, as well as cultural considerations in child rearing practices and communication/gender issues.

**SWK 497. Practicum in Social Work. (0-8-8); I, II.** *Prerequisites: SWK 325 and 451, and formal program screen-in. Co-requisites: SWK 498 and 499C.* Integration of theory and method to actual case situations assigned within a 512 hour professionally supervised field experience within a selected human service organization. *This course along with SWK 498 and 499C satisfies the integrative component for general education.*

**SWK 498. Social Work Macro Practice. (3-0-3); I, II.** *Prerequisites: SWK 424, 426, 430, and formal program screen-in. Co-requisites: SWK 497 and 499C.* Continuation of the skills associated with the application of the social work method to macro-level organizational, neighborhood and community client systems. *This course along with SWK 497 and 499C satisfies the integrative component for general education.*

**SWK 499C. Senior Seminar. (1-0-1); I, II.** *Prerequisites: SWK 424, 426, 430 and formal program screen-in; capstone semester. Co-requisites: SWK 497 and 498.* Preparation for applying and interviewing for prospective professional employment, taking state merit examinations, taking licensing and certification tests, and enrolling within graduate programs of social work. Discussions also focus upon issues at the workplace. *This course along with SWK 497 and 498 satisfies the integrative component for general education.*

**SWK 500. Special Problems. (1 to 3 hrs.); I, II, III.** *Prerequisite: consent of instructor and social work coordinator.* Arranged with department to study a particular topic in the social work field.

**SWK 520. Social Work Administration and Management. (3-0-3); on demand.** The history, nature, organizational structure, and philosophy of the administration of public programs of income maintenance and other welfare services; consideration of the role of voluntary agencies.

**SWK 535. Group Dynamics. (3-0-3); I.** This course is designed to give the student an understanding of group methods and the theories underlying the use of groups in the helping process. Special emphasis will be given to the processes that affect the development and functioning of all types of groups.

**SWK 545. Death and Dying. (3-0-3); I.** The analysis of death and dying as social processes and problems; strategies for working with dying persons. Cross listed with SOC 545.

### Theatre

**THEA 100. Fundamentals of the Theatre. (3-0-3); I.** An introduction to the theatre as an art form, its historic and organizational structure. For theatre majors and minors.

**THEA 110. Introduction to the Theatre. (3-0-3); I, II.** An introduction to the theatre as an art form, its historic and organizational structure. *This course satisfies the area studies-humanities for general education.*

**THEA 177. Theatre Production and Performance Practicum. (0-4-1); I, II.** Practical experience and opportunities in theatre production and performance.

**THEA 200. Introduction to Dramatic Literature. (3-0-3); I, II.** Representative dramatic literature from Greek antiquity to the present.

**THEA 208. Beginning Ballet. (1-4-3); on demand.** A study and application of basic ballet techniques.

**THEA 210. Technical Production. (1-4-3); II.** A study of the technical elements in theatrical production; set construction, lighting, and sound.

**THEA 225. Introduction to Theatre Production Design. (3-0-3); II.** A study of design and technical fundamentals of theatre including scenery, lighting, and costumes. The fundamentals include concept and design development, research, and communication skills.

**THEA 277. Theatre Production and Performance Practicum. (0-4-1); I, II.** Practical experience and opportunities in theatre production and performance.

**THEA 284. Acting Techniques. (3-0-3); I.** A study of acting from both the aesthetic and the practical viewpoints; exercises in pantomime and vocal techniques.

**THEA 308. Intermediate Ballet. (1-4-3); on demand.** *Prerequisite: THEA 208 or consent of Department Chair.* A further study of ballet techniques and profiles of famous dancers.

**THEA 309. Tap Dancing. (1-4-3); on demand.** A study and application of tap dance techniques.

**THEA 310. Stage Movement. (2-0-2); on demand.** The study and practice of stage fighting and movement in various historical periods.

**THEA 311. Theatre Practicum I. (1 to 3 hrs.); on demand.** To provide independent guided study for the development of specialization in specific areas of the theatre. May be repeated.

**THEA 312. Theatre Practicum II. (1 to 3 hrs.); on demand.** May be repeated.

**THEA 313. Theatre Practicum III. (1 to 3 hrs.); on demand.** May be repeated.

**THEA 315. Stage Makeup. (2-2-3); on demand.** Study and application of makeup and techniques for the stage.

**THEA 316. Stage Properties. (2-2-3); on demand.** The study and practice of stage properties, their construction, acquiring, and repair; the study of furniture history.

**THEA 317. Scene Painting. (2-2-3); on demand.** The study and practice of paints and painting techniques as they apply to the scenic artist.

**THEA 321. Stage Lighting. (2-2-3); II.** *Prerequisite: THEA 210 and 225.* The mechanical and artistic approach to stage lighting; study of electrical theory and instrument utilization.

**THEA 322. Scene Design. (2-2-3); II.** *Prerequisite: THEA 210 and 225.* The study of design theories with the creation and development of scene design projects and rendering techniques.

**THEA 325. Costume History. (3-0-3); on demand.** A study of fashion and clothing trends throughout history.

**THEA 326. Costume Design. (3-0-3); I. even years.** *Prerequisite: Theatre 225.* A study of fashion and clothing trends throughout history.

**THEA 327. Creative Sewing for the Theatre I. (1-4-3); I.** A course in creating original patterns for stage costumes and construction techniques.

**THEA 328. Creative Sewing for the Theatre II. (1-4-3); II.** A course in creating original patterns for stage costumes.

**THEA 354. Theatre History. (3-0-3); on demand.** *Prerequisite: THEA 100 or THEA 110 or consent of Department Chair.* A study of the origins and development of theatre.

**THEA 355. Theatre History II. (3-0-3); II or on demand.** *Prerequisite: THEA 100 or THEA 110 or consent of Department Chair.* A study of the origins and development of theatre in the nineteenth and twentieth centuries.

**THEA 375. Creative Dramatics. (3-0-3); I, II.** An analysis and application of principles of creative dramatics as applied to classroom curricular activities.

**THEA 377. Theatre Production and Performance Practicum. (0-4-1); I, II.** Practical experience and opportunities in theatre production and performance.

**THEA 380. Play Directing. (3-0-3); II.** *Prerequisites: THEA 100, THEA 225, and THEA 284.* Theories and principles of directing; director's interpretation; casting; planning acting and making the prompt-book.

**THEA 408. Advanced Ballet. (1-4-3); on demand.** *Prerequisite: THEA 308 or consent of instructor of Department Chair.* Advanced study of ballet techniques and profiles of historical dances.

**THEA 477. Theatre Production and Performance Practicum. (0-4-1); I, II.** Practical experience and opportunities in theatre production and performance.

**THEA 484. Styles of Acting. (3-0-3); on demand.** *Prerequisite: THEA 284.* A study of techniques for creating characters from various dramatic styles and historical periods through research and performance.

**THEA 499C. Senior Seminar Theatre. (3-0-3); II.** *Prerequisites: senior standing and completion of a minimum of 18 hours toward a major in Theatre or consent of the department chair.* This course is designed for students majoring in Theatre. It will entail individualized and group instruction, assessment and career preparation focused on disciplinary competencies and general life skills with an emphasis on the integration of knowledge and skills acquired in the program. *This course satisfies the integrative component for general education.*

**THEA 512. Playwriting. (3-0-3); on demand.** *Prerequisites: THEA 100 and 200 or consent of Department Chair.* An analysis of the structure of plays and the writing of original scripts.

**THEA 513. Advanced Play Direction. (3-0-3); on demand**. *Prerequisite: THEA 380.* To develop greater proficiency in techniques of directing as related to specific productions and staging problems.

**THEA 530. Summer Theater III. (4-0-4); III.** *Prerequisite: acceptance into summer theatre company.* Advanced assignments in set and costume design or advanced acting and directing. May be repeated.

**THEA 552. Early Dramatic Literature. (3-0-3).** A detailed study of representative plays from the Greeks to mid-nineteenth century.

**THEA 553. Modern Dramatic Literature. (3-0-3); on demand.** A detailed study of the drama from the growth of realism to the present day.

**THEA 555. Dramatic Criticism. (3-0-3); on demand.** *Prerequisite: THEA 100, 200, or consent of Department Chair.* Dramatic theory and criticism as developed through Aristotle, Horace, the middle ages, the Renaissance, and the twentieth century.

**THEA 562. Advanced Acting. (3-0-3); on demand.** *Prerequisite: THEA 284 or consent of Department Chair.* Advanced study of acting, including analysis and development of characters in acting situations.

**THEA 563. Advanced Costuming. (2-2-3); on demand.** *Prerequisite: THEA 326 or consent of Department Chair.* Designing costumes for theatrical production, making patterns, and the fabrication of garments for the stage.

**THEA 564. Advanced Scene Design. (2-2-3); on demand.** *Prerequisites: THEA 322 or consent of Department Chair.* To develop greater proficiency in the skills of scenic design as applied to specific problems and theatrical productions.

**THEA 565. Advanced Stage Lighting. (2-2-3); on demand.** *Prerequisites: THEA 321 or consent of Department Chair.* To develop proficiency in the skills of lighting specific productions; to research topics and special problems pertaining to stage lighting.

**THEA 570. Children's Theatre. (3-0-3); on demand.** *Prerequisite: THEA 100 or THEA 110 or consent of Department Chair.* A concentrated study of the problems involved in organization and production of plays for and with children.

### Veterinary Technology

**VET 108. Veterinary Clinical Anatomy. (2-2-3); I.** *Prerequisite: admission to Veterinary Technology Program.* A basic comparative anatomy of domestic animals with an emphasis on the structure and function of the major organ systems. The laboratory will include identification of anatomical structures.

**VET 110. Animal Care Techniques I. (2-4-2); I, first nine weeks.** *Prerequisite: admission to Veterinary Technology Program.* Basic animal care and management of the canine and feline species encountered in veterinary practice. The laboratory will include essential tasks related to the handling, restraint, treatment, and routine care of animals.

**VET 111. Animal Care Techniques II. (2-4-2); I, second nine weeks.** *Prerequisite: "C" or better in VET 110.* Basic animal care and management of the equine and avian species encountered in veterinary practice. The laboratory will include tasks related to the handling, restraint, treatment, and routine care of animals.

**VET 211. Animal Care Techniques III. (3-2-2); II, first nine weeks.** *Prerequisite: "C" or better in VET 111.* Basic animal care and management of common laboratory animal species. The laboratory will include essential tasks related to the handling, restraint, treatment, and routine care of laboratory animals.

**VET 212. Veterinary Surgical Nursing. (3-2-2); II, second nine weeks.** *Prerequisite: "C" or better in VET 211.* Basic veterinary surgical nursing techniques, personnel, instrumentation, equipment, and facilities with emphasis on identification, preparation, and maintenance.

**VET 216. Veterinary Clinical Pathology I. (3-2-2); II, first nine weeks.** *Prerequisite: "C" or better in VET 108 and 111.* An introduction to basic clinical pathology concepts and techniques common to veterinary practice. Includes comparative hematology, laboratory safety, equipment maintenance, quality control, and record keeping.

**VET 217. Veterinary Clinical Pathology II. (3-2-2); II, second nine weeks.** *Prerequisite: "C" or better in VET 216.* An introduction to basic clinical pathology concepts and techniques common to veterinary practice. Includes introductory parasitology, laboratory safety, equipment maintenance, quality control, and record keeping.

**VET 233. Veterinary Physiology and Pharmacology I. (3-2-2); II, first nine weeks.** *Prerequisites: MATH 135 or higher, and "C" or better in VET 108 and 111.* An integrated study of the physiology and pharmacology of vital organ systems of animals with emphasis on providing essential life-support through monitoring, evaluation, and intervention. Laboratory will include pharmacological calculations and electrocardiogram procedures.

**VET 234. Veterinary Physiology and Pharmacology II. (3-2-2); II, second nine weeks.** *Prerequisite: "C" or better in VET 233.* An integrated study of the physiology and pharmacology of the nervous system of animals with special emphasis on anesthetics. Laboratory will include pharmacological calculations and anesthetic procedures.

**VET 255. Large Animal Clinics I. (6-12-6); I.** *Prerequisite: "C" or better in VET 212, 217, and 234.* A study of clinical procedures, techniques, and preventive medicine principles related to assisting the practicing veterinarian with clinical cases, hospital management, and client education related to food animal and equine practice. Some evening and weekend duties are required.

**VET 256. Small Animal Clinics I. (6-12-6); I.** *Prerequisite: "C" or better in VET 212, 217, and 234.* A study of clinical procedures, techniques, and preventive medicine principles related to assisting the practicing veterinarian with clinical cases, hospital management, and client education related to companion animal practice. Some evening and weekend duties are required.

**VET 355. Large Animal Clinics II. (6-12-6); II.** *Prerequisite: "C" or better in VET 255.* A continuation of VET 255. A study of clinical procedures, techniques, and preventive medicine principles related to assisting the practicing veterinarian with clinical cases, hospital management, and client education related to food animal and equine practice. Some evening and weekend duties are required.

**VET 356. Small Animal Clinics II. (6-12-6); II.** *Prerequisite: "C" or better in VET 256.* A continuation of VET 256. A study of clinical procedures, techniques, and preventive medicine principles related to assisting the practicing veterinarian with clinical cases, hospital management, and client education related to companion animal practice. Some evening and weekend duties are required.

**VET 363. Veterinary Preceptorship. (0-40-1); I, II, III.** *Prerequisite: "C" or better in VET 355 and 356.* An external practicum in which the student makes the transition from school to the workplace. Emphasis is placed upon proper utilization of the knowledge and techniques learned in the academic program and on continued learning. A weekly journal of activities and case reports are required. Consists of a minimum of four weeks at forty hours per week at an approved veterinary facility.

**VET 370. Veterinary Infectious Diseases. (3-0-3); II.** *Prerequisites: VET 356 or BIOL 210 or permission of instructor.* A study of the clinical aspects of important viral, rickettsial, chlamydial, and mycoplasmal infectious diseases of the dog and cat; with emphasis on clinicaly relevant aspects of etiology, epidemiology, pathogenesis, clinical findings, diagnosis, pathologic findings, therapy, prevention, and public health considerations. The primary objective is to develop a clinical understanding of each disease process and the ability to explain it to a pet owner.

## Women's Studies

**(Cross listed courses can only be taken once for credit. If a cross listed course is taken a second time using the different prefix it will be considered a repeat.)**

**WST 120. Approaches to Literature. (3-0-3); I, II, III.** *Prerequisites: An ACT score of 18 in English and in reading or a grade of "C" or better in ENG 099 and EDEL 097.* Introduction to literary appreciation for non-majors, with emphasis on ways of reading and understanding literary texts. Topics for individual sections of the course will be designated in the course schedule for each semester. Cross listed with ENG 120. *This course satisfies area studies-humanities for general education.*

**WST 210. Introduction to Political Theory. (3-0-3); I, II.** An introductory course in political philosophy with an emphasis on familiarity with concepts of human nature, society, democracy, and revolution. *This course satisfies the area studies-humanities for general education.* Cross listed with GOVT 180.

**WST 230. Social Welfare History and Ethics. (3-0-3); I, II.** *Prerequisite: SWK 210 or consent of instructor*. Dominant values of American society that influence both social welfare policy and social work practice will be explored through a study of the historical evolution of the institution of social welfare from the Colonial period to the present in this country. Cross listed with SWK 230.

**WST 273. Introduction to Women's Studies. (3-0-3); I, II.** *Prerequisite: ENG 100 or equivalent.* An interdisciplinary course designed to introduce students to educational, historical, aesthetic, sociological, and political conceptions of gender as defined and experienced by women. *This course satisfies the area studies-social and behavioral sciences for general education.*

**WST 302. The Criminogenic Family. (3-0-3); I, II.** The course will focus on family risk factors for later delinquency and criminal behavior as well as preventative intervention and treatment. This course will examine a variety of family issues including child maltreatment, domestic violence, family alcoholism, drug addiction, family chaos, inadequate or neglectful parenting, corporal punishment, which are known risk factors for later criminal behavior. Students will gain a general understanding of the macro-level processes that have detrimental effects on family functioning and family structure. Cross listed with CRIM 300.

**WST 303. Comparative Family Violence: An International Perspective.** A comparative approach of family violence in the United States and Canada will be the primary focus of this course but may also include other countries. Family violence is divided into four topics: Partner/Spousal Abuse, Violence Against Children and Youth by Family Members, Family Violence Against Older Adults, and Cultural Issues. Content covered within these areas include: historical overview, definitions, theoretical frameworks, prevalence, incidence, research, responses, and legislation. Cross listed with SWK 301.

**WST 305. Cultural Anthropology. (3-0-3); I, II.** *Prerequisite: BIOL 105, SOC 101, or consent of instructor*. A study of literate and nonliterate cultures using the ethnographic approach. Universal aspects of human experience, including the family, economic, political and religious systems examined in cross-cultural perspective. *This course satisfies the area studies-social and behavioral sciences for general education.* Cross listed with SOC 305.

**WST 313. Women in American History. (3-0-3); II.** *Prerequisite: HIS 250.* Experiences and perceptions of women throughout American history. Significant roles and issues are emphasized. Cross listed with HIS 312.

**WST 317. Feminist Political Thought. (3-0-3); I, alternate years.** *Prerequisites: GOVT 180 and 289*. History and development of feminist political thought. Perspectives include those of Fuller, Millet, Collins, MacKinnon, and Irigiray. Cross listed with GOVT 317.

**WST 320. Women Writers and Feminist Perspectives. (3-0-3); on demand.** Women writers of the nineteenth and twentieth centuries, their feminine vision and voice. Focus on primary works; attention given to feminist criticism in both theory and practice. Cross listed with ENG 320.

**WST 322. Gender and Education. (3-0-3); I.** This course explores gender issues that affect male and female students from preschool to post-secondary education. Cross listed with EDF 322.

**WST 333. Sociology of Gender Violence: Perspectives on Women and Intimate Partner Violence. (3-0-3); II.** *Prerequisites: SOC 101, SOC 203 or WST 273 and/or consent of instructor.* This course offers social science and experiential exposure to the controversies, theories, patterns, policies, and treatment unique to women's experiences with date, acquaintance, and spousal violence. Focus also is given to marginalized groups, including women of low income, women of color, and women in same-sex relationships. Cross listed with SOC 333 and CRIM 333.

**WST 335. The Family. (3-0-3); I.** This course provides students with information about family interpersonal and social structural dynamics in the multiculturally diverse U.S. society of the 21st century. The course will increase students' awareness about the ways in which other social institutions such as the economy, religion, and education can either negatively or positively influence family structure and function. Cross listed with SOC 335.

**WST 340. Community Mental Health. (3-0-3); on demand.** This course provides a microscopic perspective of the institutions and programs that have evolved in response to understanding a class of persons traditionally dependent upon medicine and social programs. Emphasis will be placed upon review of the values, knowledge, and skills characteristic of the entry-level social worker in the community mental health agency. Cross listed with SWK 340.

**WST 350. The Human Experience of Sex and Gender. (3-0-3); I, II.** *Prerequisite: three hours sociology general education or consent of instructor*. Focus of course will be on meanings attached to sex and gender, theoretical explanations of those meanings, the institutions which influence perceptions and behaviors, and the impact of social definitions and practices on individuals, male and female. Cross listed with SOC 350.

**WST 351. Philosophy of Love and Sex. (3-0-3); on demand.** An exploration of the central philosophical questions concerning love and sex, with reference to classical and contemporary sources: What is love? Why do we love people? Are there different kinds of love? What is sex? What makes sex bad or good, right or wrong? What is the relationship between sex and love, if any? Cross listed with PHIL 351.

**WST 354. The Individual and Society. (3-0-3); I, II, III.** The influence of group processes on individual behavior. Topics covered include personality formation and change; small group behavior and leadership patterns. *This course satisfies the area studies-social and behavioral sciences for general education.* Cross listed with SOC 354.

**WST 355. Women and Politics. (3-0-3); II, alternate years.** *Prerequisites: GOVT 141 and 289.* Participation of women in American government. Gender differences in political attitudes and voting; impact of electoral laws on election of women; and impact of women on creation and implementation of policy. Cross listed with GOVT 355.

**WST 363. Cross-Cultural Perspectives on the Sex Industry. (3-0-3); II.** *Prerequisite SOC 350 or WST 273 or consent of the instructor.* This course will explore current theoretical debates and empirical studies on the global sex industry. Broad topics this course will cover include the feminist sex wars, stripping, pornography, prostitution and sexual trafficking. Cross listed with SOC 363.

**WST 374. American Minority Relations. (3-0-3); I, III.** *Prerequisite: three hours sociology general education or consent of instructor*. Examines various processes of social and cultural contact between peoples; theories dealing with the sources of prejudice and discrimination; basic processes of intergroup relations; the reactions of minorities to their disadvantaged status; and means by which prejudice and discrimination may be combated. Cross listed with SOC 374.

**WST 375. The Middle East. (3-0-3); on demand.** *Prerequisite: HIS 250.* Survey of the Moslem world beginning with the Eighth Century and culminating in the present Middle Eastern situation. Cross listed with HIS 374 and IST 374.

**WST 377. Twentieth Century Asian Wars. (3-0-3); on demand.** *Prerequisite: HIS 250 or consent of instructor.* History of war in Asia from 1932 until 1975. The course examines the Pacific War, Korean War, Vietnam War, and Cambodian Conflict from the Asian Perspective using a cultural approach. Cross listed with HIS 377.

**WST 380. Race, Class, Gender and Crime. (3-0-3); I, II.** This course focuses on the intersection of race, class and gender membership with regard to treatment within criminal justice system by police, judges, juries and actual sentencing decisions including the death penalty. The course also provides insights about the unique types of crime most likely to be perpetrated by specific demographic groups. Students will also be exposed to criminological theories that explain criminal justice system disparity, discrimination, and differences in actual offending patterns. Cross listed with CRIM 380.

**WST 397. Social Stratification. (3-0-3); I, II, III.** *Prerequisites: SOC 101 or consent of instructor.* This course provides a foundation for understanding social inequality and the structured nature of privilege and disadvantages in society on the basis of class. Theoretical perspectives will review systematic strartification processes informed by class, race, and gender and their intersection. Cross listed with SOC 300.

**WST 457. Parenting. (3-0-3); alternate years.** *Prerequisite: HS 253 or consent of instructor.* An examination of the parental roles in regard to current challenges, problems, and issues. Early intervention and family center relationships emphasized. Cross listed with HS 457.

**WST 474. Women's Health Care. (3-0-3); I, II.** *Prerequisites: CIS 101, CMSP 108, ENG 100, 200, or consent of instructor.* Increase one's awareness of the importance of women's health care in all dimensions. Emphasis will be placed on health maintenance issues for women that include women's developmental issues throughout their life span, general guidelines for health care (including screening and interventions), sexuality facts, health needs and problems related to the reproductive system, selected health care issues, and psychosocial concerns. *This course satisfies the area studies-practical living for general education.* Cross listed with NAHS 303.

**WST 476. Special Problems in Women's Studies. (3-0-3); on demand.** *Prerequisite: consent of instructor and Women's Studies Director.* This course is an independent study in Women's Studies for the undergraduate Women's Studies Minor. Each request for the course will be considered on its own merits in relation to the special needs of the student.

**WST 490. Integrative Capstone in Women's Studies. (3-0-3); II.** *Prerequisite: consent of instructor and Women's Studies Director.* This course is designed to integrate knowledge and understanding of Women's Studies issues through a mastery of research strategies and creative expressions as applied to the students' professional goals.

**WST 550. Issues in Contemporary Broadcasting. (3-0-3); on demand.** *Prerequisite: senior standing.* Treatment of current issues within the electronic media industry. Cross listed with CMEM 550.

**WST 582. American Popular Cultural and Communications Technology. (3-0-3); on demand.** *Prerequisite: senior standing.* Examination of the role and effects of major advances of communications technology on the course of American popular culture and society in the past, present, and future. Cross listed with COMM 582.

# Contact Information

| For | Who | Where | Phone |
|---|---|---|---|
| Absences | Your college dean | | |
| Academic bankruptcy | Your advisor | | |
| Academic probation | Undergraduate Programs | 701 GH | 783-2004 |
| Admission (Graduate) | Graduate Office | 701 GH | 783-2039 |
| Admission (Undergraduate) | Office of Admissions | 100 APP | 783-2000 |
| Advanced registration (Scheduling) | Your advisor | | |
| Advisor assignment | Your college dean or department chair | | |
| Career counseling | Academic Advising & Career Services | 220 AY | 783-2233 |
| Center for Critical Thinking | Director | Honors House | 783-2813 |
| Center for Academic Advising | Director | 222 AY | 783-2084 |
| Center for Academic Services | Director | 223 AY | 783-5189 |
| Guidance Counseling | Center for Academic Services | 220 AY | 783-2062 |
| Disability Services | Center for Academic Services | 214 AY | 783-5188 |
| Learning Lab | Center for Academic Services | 208 AY | 783-5200 |
| Tutoring | Center for Academic Services | 208 AY | 783-2084 |
| Supplemental Instruction | Center for Academic Services | 220 AY | 783-2084 |
| Change of major | Your advisor | | |
| Change of program | Your advisor | | |
| Change of schedule | Your advisor | | |
| Check sheets | Your advisor | | |
| Computing services | Office of Information Technology | 110 GH | 783-5000 |
| Cooperative Education | Your department chair | | |
| Correspondence courses | Distance Learning Support Services Coordinator | 408 GH | 783-2082 |
| Counseling services | Counseling and Health Services | 112 AY | 783-2123 |
| Credit by examination | Testing Center | 501A GH | 783-2526 |
| Degree application | Office of the Registrar | 201 GH | 783-2008 |
| Distance Learning Courses | Distance Learning | 408 GH | 783-2082 |
| Drop/Add | Your advisor | | |
| Extracurricular activities | Student Activities | 201 ADUC | 783-2071 |
| Fees | Office of Accounting and Budgetary Control | 207 HM | 783-2019 |
| Field Career Experiences | Your department chair | | |
| Financial Aid | Financial Aid Office | 100 APP | 783-2011 |
| Grades | Your advisor | | |
| Graduation application | Office of the Registrar | 201 GH | 783-2008 |
| Honors Program | Director | Honors House | 783-2807 |
| Housing Office | Director | TH | 783-2060 |
| International student advising | Counselor for International Students | 330 AY | 783-2096 |
| Learning Lab | Center for Academic Success | 208 AY | 783-5200 |
| Library | Library | CCL | 783-2200 |
| Loans | Financial Aid Office | 100 APP | 783-2011 |
| Minority Retention/GUSTO | Minority Retention Specialist | 227 AY | 783-5195 |
| Minority Student Advising | MSS Coordinator | 320 AY | 783-2129 |
| Minority Teacher Education Program | MTEP Coordinator | 201H GH | 783-2833 |
| Multicultural Students Services | Office of Multicultural Student Services | PL (358 Univ. St.) | 783-2668 |
| MSU 101 | First Year Program Director | 322 AY | 783-2517 |

| For | Who | Where | Phone |
|---|---|---|---|
| Non-traditional and Commuter Counseling | Coordinator Non-Traditional Commuter Services | FH 3 | 783-2102 |
| Peer Advising | First Year Program Director | 322 AY | 783-2517 |
| Placement Services | Career Services | 220 AY | 783-2233 |
| Pool | Aquatics Director | AAC | 783-2391 |
| Professional Lab. Experiences | Teacher Education Coordinator | 801 GH | 783-2891 |
| Provisional Studies | Coordinator | 213 AY | 783-2084 |
| Records, Access to | Office of the Registrar | 201 GH | 783-2008 |
| Regional Analysis | Dean | 110 CB | 783-5419 |
| Regional Campus Programs | Regional Campus Coordinator | 312 AY | 783-2605 |
| Registration (Scheduling classes) | Your advisor | | |
| Repeating a course | Office of the Registrar | 201A GH | 783-2008 |
| Residency reclassification | Office of Admissions | 100 AP | 783-2000 |
| ROTC | Military Science | 308 BA | 783-2050 |
| Scholarships | Financial Aid Office | 100 APP | 783-2011 |
| Student employment | Financial Aid Office | 100 APP | 783-2011 |
| Student Health Services | Caudill Health Clinic | AY | 783-2055 |
| Student Support Services (TRIO) | Project Director | 233 AY | 783-2614 |
| Student teaching | Director of Student Teaching | 801 GH | 783-2891 |
| Testing | Testing Coordinator | 501A GH | 783-2526 |
| Textbooks | Book Manager | ADUC | 783-2081 |
| Transcripts | Office of the Registrar | 201A GH | 783-2008 |
| Transfer of credits | Office of the Registrar | 201A GH | 783-2008 |
| TV courses | Distance Learning Support Services Coordinator | 408 GH | 783-2082 |
| Veterans Affairs | Office of the Registrar | 201A GH | 783-2008 |
| Wellness | Wellness Center | WC | 783-2083 |
| Withdrawals | | | |
| From class | Your advisor | | |
| From school | Office of the Registrar | 201A GH | 783-2008 |
| Women's Studies | Coordinator | 204 RA | 783-5414 |
| Workstudy | Financial Aid Office | 100 APP | 783-2011 |
| Writing Center | Department of EFL&P | 402 CB | 783-5101 |

# Administrative Directory

## Board of Regents

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Jean M. Dorton, Paintsville
Brian Gay, Student Regent
Paul C. Goodpaster, Morehead
Terry Irons, Faculty Regent
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Lora Pace, Staff Regent
Helen C. Pennington, West Liberty
Jill Hall Rose, Winchester

## Officers of the Board

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Helen C. Pennington, Vice Chair
Michael R. Walters, Treasurer
Carol Johnson, Secretary

## Office of the President

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Carol Johnson, Assistant to the President
Jane V. Fitzpatrick, General Counsel
Dayna Seelig, Special Assistant to the President

## University Administration

Barbara A. Ender, Vice President for Development
Keith Kappes, Vice President for University Relations
Michael R. Moore, Provost and Executive Vice President
Beth Patrick, Vice President for Planning, Budgets, & Technology
Michael R. Walters, Vice President for Administration & Fiscal Services
Madonna Weathers, Vice President for Student Life

## College of Business

Robert Albert, Dean
Bruce Grace, Chair, Department of Accounting, Economics, & Finance
Elizabeth A. Regan, Chair, Department of Information Systems
Gregory R. Russell, Chair, Department of Management, Marketing, & Real Estate

## College of Education

Cathy Gunn, Dean
Lynne Fitzgerald, Chair, Department of Health, Physical Education, & Sport Sciences
Jim Knoll, Chair, Department of Curriculum and Instruction
Wayne Willis, Chair, Department of Professional Programs in Education

## Caudill College of Humanities

J. Michael Seelig, Dean
Yvonne Baldwin, Chair, Department of Geography, Government, & History
Robert Franzini, Chair, Department of Art
Philip Krummrich, Chair, Department of English, Foreign Languages, & Philosophy
M. Scott McBride, Chair, Department of Music
Robert Bylund, Interim Chair, Department of Sociology, Social Work, & Criminology

Bonnie Noyes, Chair, Department of Military Science
Robert H. Willenbrink, Chair, Department of Communication & Theatre

## College of Science & Technology

Gerald DeMoss, Dean
Dora Ahmadi, Chair, Department of Mathematics & Computer Science
Antonino Carnevali, Chair, Department of Physical Sciences
R. Lane Cowsert, Chair, Department of Agricultural & Human Sciences
Barbara Dehner, Chair, Department of Imaging Sciences
David Magrane, Chair, Department of Biological & Environmental Sciences
Ben Malphrus, Director of Space Science Center
Ronald Skidmore, Interim Chair, Department of Psychology
Erla G. Mowbray, Chair, Department of Nursing
Ahmad Zargari, Chair, Department of Industrial & Engineeering Technology

## College of Business

*The date in parentheses after the name is that of first appointment to a position on the faculty of this University.*

**Department of Accounting, Economics, & Finance**

Ali Ahmadi, associate professor (1995), Ph.D., University of Oklahoma
Robert Albert, associate professor (1995), Ph.D., University of Cincinnati
Roland Buck, professor (1983), Ph.D., Texas A&M University
Rosemary Carlson, professor (1983), D.B.A., University of Kentucky
*Lisa Cave, associate professor (2004), Ph.D., University of Kentucky
Thomas Creahan, associate professor (1996), Ph.D., University of Cincinnati
E. Rich Criscione, assistant professor (2005), A.B.D. University of Mississippi
Terry Elliott, associate professor (1988), C.P.A., M.S.A., Marshall University
Teame Ghirmay, assistant professor, (2001), Ph.D., Southern Illinois University
Bruce Grace, associate professor (1999), Ph.D., Louisiana State University
Ishappa Hullur, associate professor (1989), Ph.D., University of Kentucky
Scott Meisel, assistant professor (2002), Ph.D., Kent State University
Green Miller, professor (1979), Ph.D., University of Kentucky
Chien-Chih Peng, assistant professor (2002), Ph.D., University of Kentucky
Sharon Walters, associate professor (1987), C.P.A., M.B.A., Morehead State University
L. K. Williams, professor (1988), D.B.A., University of Kentucky
Mesghena Yasin, professor (1986), Ph.D., University of Cincinnati
**Joint appointment with IRAPP*

**Department of Information Systems**

Haiwook Choi, associate professor (2001), Ph.D., Southern Illinois University
Donna Everett, associate professor (1996), Ed.D., University of Houston
David Green, assistant professor (2005), Ph.D., Southern Illinois University
Steven Hunt, professor (1997), Ed.D., University of Georgia
Hilary Iwu, associate professor (1988), Ph.D., University of Nebraska
Euijin Kim, assistant professor (2002), Ph.D., Southern Illinois University
Donna Kizzier, associate professor, (1999), Ed.D., University of Nebraska-Lincoln
Randy McCoy, associate professor (1997), Ed.D., University of Georgia
Sam Nataraj, associate professor, (2003), P.h.D., Wichita State University
Elizabeth Regan, professor (1998), Ph.D., University of Connecticut
Scott Wymer, assistant professor (2002), Ph.D., Pennsylvania State University

**Department of Management, Marketing, & Real Estate**

Lary Cowart, associate professor (1997), Ph.D., University of Georgia
Michael Harford, professor (1988), J.D., Wake Forest University
Ahmad Hassan, assistant professor (2003), P.h.D., Mississippi State University
Ken Henderson, associate professor (2000), Ph.D., Florida State University

Michelle Kunz, associate professor (1988), Ph.D., University of Tennessee
Barbara Lyons, assistant professor (2001), Ph.D., Griffith University, Brisbane, Australia
Fatma Mohamed, assistant professor (2006), A.B.D., Mississippi State University
Mary Peggy Osborne, associate professor (1979), A.B.D., University of Kentucky
Gregory R. Russell, associate professor (2004), Ph.D. University of South Carolina

## College of Education

### Department of Curriculum and Instruction

Krista Barton, instructor (1996), M.A., Morehead State University
Sharon Benton, instructor (2005), M.A., Morehead State University
Charlotte Bromagen, instructor (1973), M.A., Eastern Kentucky University
Roger Cleveland, assistant professor (1998), Ed.D., University of Cinncinnati
Betty Collins, instructor (1969), M.A., Morehead State University
Martha Decker, assistant professor, (2004), Ed.D., University of Memphis
Rosemarie Gold, highly skilled educator, M.A., Morehead State University
Daniel Grace, associate professor (1986), Ph.D., University of Oregon
Cathy Gunn, professor, (2005), Ph.D., University of Oregon
Diana Haleman, associate professor (2000), Ed.D., University of Kentucky
David Hamblin, assistant professor (2003), Ph.D., Indiana University
Kitty Hazler, assistant professor (2002), Ph.D., Ohio University
Kevin Jones, assistant professor (2005), Ph.D., Utah State University
James Knoll, professor (1994), Ph.D., Syracuse University
Karen Lafferty, associate professor (1997), Ed.D., Indiana University of Pennsylvania
Lesia Lennex, associate professor (1996), Ed.D., University of Tennessee
Wanda Letendre, associate professor (1999), Ed.D., West Virginia University
Sara Lindsey, assistant professor (2005), Ed.D., University of Louisiana
Buford McWright, visiting assistant professor (2005), Ed.D., Texas A&M University
Christopher Miller, assistant professor (2004), Ed D., University of Kentucky
Timothy Miller, associate professor (1988), Ed.D., Ball State University
Adele Moriarty, associate professor (1996), Ed.D., University of Alabama
Kimberely Nettleton, instructor (2005), M.A., Georgetown College
David Peterson, associate professor (1991), Ed.D., East Tennessee State University
Edna Schack, professor (1987), Ed.D., Illinois State University
Markham Schack, professor (1987), Ed.D., Oklahoma State University
Kimberlee Sharp, assistant professor (1995), M.Ed., Wright State University
Mee-Ryoung Shon, assistant professor (2001), Ph.D., Texas A&M University
Timothy Simpson, assistant professor (2005), M.A., Miami (Ohio) University
Christine Walton, assistant professor (1995), M.A., The University of Findlay
Anne Wells, instructor (1978), M.A., Morehead State University
Melinda Willis, associate professor (1996), Ed.D., University of Kentucky

### Department of Health, Physical Education, & Sport Sciences

Steve Chen, assistant professor (2004), Ph. D., United States Sports Academy
Jennifer Dearden, assistant professor (2004), Ed.D., University of Kentucky
Lynne Elizabeth Fitzgerald, professor (1986), Ed.D., Temple University
Teresa Hardman, associate professor (1995), Ph.D., Southern Illinois University
Michael Hypes, assistant professor (2002), D.A., Middle Tennessee State University
Julia Hypes, assistant professor (2002), Ph.D., Indiana State University
Monica A. Magner, associate professor (1991), Ed.D., West Virginia University
John Newsome, associate professor (1999), Ph.D., Florida State University
Manuel Probst, associate professor (2000), Ed.D., University of Kentucky
Shonna Snyder, assistant professor (2004), Ed.D., Perdue University
Kate Tessmer, assistant professor (2005), A.B.D. University of Pittsburg

### Department of Professional Programs in Education

Lola Aagaard-Boram, assistant professor (2001), Ph.D., University of Oklahoma
Deborah Abell, associate professor (1995), Ph.D., Indiana State University
Victor Ballestero, associate professor (1998), Ed.D., University of Kentucky
David Barnett, assistant professor (2002), Ed.D., University of Kentucky
Kay Bartosz, assistant professor (2004), Ph.D., University of Tennessee
James Canipe, associate professor (2000), Ph.D., University of Tennessee
Beverly Klecker, assistant professor (2001), Ph.D., Ohio State University
Dean Owen, professor (1977), Ph.D., University of Florida
John Peregoy, assistant professor (2002), Ph.D., Syracuse University
Ron Skidmore, associate professor (1999), Ph.D., University of Kentucky
Patricia Stevens, professor (2003), Ph.D., Mississippi State University
Sam Wright, assistant professor (2003), Ph.D., Indiana State University
Wayne Willis, professor (1988), Ph.D., University of Oklahoma

## Caudill College of Humanities

### Department of Art

David Bartlett, professor (1980), M.F.A., University of Michigan
Robert Campbell, assistant professor (2006), M.F.A., University of Michigan
Dixon Ferrell, associate professor (1980), M.F.A., University of Mississippi
Robert Franzini, professor (1980), M.F.A., University of Iowa
Braden Frieder, assistant professor (2006), Ph.D., University of Wisconsin-Madison
Deeno Golding, associate professor (1994), M.F.A., Savannah College of Art and Design
Joy Gritton, associate professor (1997), Ph.D., UCLA
Elizabeth Mesa-Gaido, associate professor (1994), M.F.A., Ohio University
Gary Mesa-Gaido, associate professor (1994), M.F.A., Ohio University
Greg D. Penner, assistant professor, (2000), M.F.A., University of Cincinnati
Emma Perkins, associate professor (2000), A.B.D., University of Kentucky
Stephen Tirone, professor (1982), M.F.A., University of Wisconsin

### Department of Communication & Theatre

Ann M. Andaloro, assistant professor (2003), Ph.D., Bowling Green State University
Lawrence S. Albert, professor (1986), Ph.D., Pennsylvania State University
Joan Atkins, assistant professor (1992), M.A., Morehead State University
Michael Biel, professor (1978), Ph.D., Northwestern University
Paul Denayer, assistant professor (2006), M.F.A., Kent State University
Elizabeth Noel Earl, assistant professor (1991), Ph.D., Ohio University
Tricia Farwell, assistant professor (2005), Ph.D., Arizona State University
Robert E. Frank, associate professor (1997), Ph.D., University of Georgia
Dale Greer, assistant professor (1982), M.A., Morehead State University
Jeffrey Hill, assistant professor (2002), M.F.A., Southern Illinois University
Janet Kenney, associate professor (1994), Ph.D., University of Oregon
Calvin O. Lindell, assistant professor (1985), M.A., Abilene Christian University
Erin McLain-Bishop, assistant professor (2005), M.F.A., University of Nebraska-Lincoln, NE
Janet McCoy, assistant professor (2005), Ph.D., Bowling Green State University
John V. Modaff, professor (1987), Ph.D., Southern Illinois University
Michael R. Moore, professor (1997), Ph.D., University of Missouri Columbia
Deborah L. Plum, assistant professor (1989), Ph.D., Ohio University
Kenneth Sexton, assistant professor (1993), Ph.D., University of Georgia
Ashley Suttlar, assistant professor (2006), M.F.A., Temple University
Cathy Thomas, associate professor (1994), Ph.D., Ohio University
Denise Watkins, associate professor (2000), M.F.A., Michigan State University
Robert H. Willenbrink, professor (2002), Ph.D., Bowling Green State University

**Department of English, Foreign Languages, & Philosophy**

Ann M. Adams, associate professor (1998), Ph.D., Bowling Green State University
Karen Bardsley, assistant professor (2003), Ph.D., McGill University
Vicente Cano, professor (1985), Ph.D., University of Georgia
Kathryn A. Carlson, assistant professor (2003), University of Massachusetts
C. Glen Colburn, associate professor (1991), Ph.D., University of Texas at Austin
Scott A. Davison, professor (1995), Ph.D., University of Notre Dame
George Eklund, associate professor (1989), M.F.A., University of Iowa
Mark Graves, assistant professor (2005), Ph.D., Bowling Green State University
Eugene B. Hastings, professor (1989), Ph.D., University of Texas
Frances L. Helphinstine, professor (1966), Ph.D., Indiana University
Sylvia Henneberg, associate professor (1998), Ph.D., University of Georgia
Chris Holbrook, assistant professor (2003), M.F.A., University of Iowa
Terry L. Irons, professor (1993), Ph.D., University of Missouri
Philip Krummrich (2002), professor, Ph.D., University of Illinois
Kathryn C. Mincey, associate professor (1990), M.A., Morehead State University
Ronald D. Morrison, professor (1988), Ph.D., University of Kansas
Sarah Morrison, professor (1988), Ph.D., University of Kansas
L. Layne Neeper, associate professor (1993), Ph.D, Pennsylvania State University
Wendell O'Brien, associate professor (1992), Ph.D., Johns Hopkins University
Nancy Peterson, associate professor (1992), Ph.D., University of Texas at Austin
Robert Royar, associate professor (1994), Ph.D., University of Louisville
John R. Secor, associate professor (1988), Ph.D., University of North Carolina
Karen Taylor, assistant professor (2005), Ph.D., University of Georgia
Jack L. Weir, professor (1990), Ph.D., Rice University
Crystal Wilkinson, writer in residence (2006), M.F.A., Spalding University

**Department of Geography, Government, & History**

Royal Berglee, associate professor (2000), Ph.D., Indiana State University
Verdie Craig, assistant professor (2002), Rutgers University
*Zachary J. Bortolot, assistant professor (2004), Ph.D., Virginia Polytechnic Institute and State University
*Daikwon Han, assistant professor (2005), State University of New York at Buffalo
Jason Holcomb, associate professor (2000), Ph.D., Kansas State University
Gary O'Dell, assistant professor (2001), Ph.D., University of Kentucky
*Steven Parkansky, associate professor (1999), Ph.D., State University of New York
**Joint appointment with IRAPP*

**Government and Paralegal Studies**

*Stefan Brooks, assistant professor (2006), Ph.D., University of Houston
Ric Caric, professor (1990), Ph.D., University of North Carolina
Christopher Diaz, assistant professor (2003), Ph.D., Texas A&M
Gregory T. Goldey, associate professor (1997), Ph.D., University of Oklahoma
William Green, professor (1984), Ph.D., State University of New York at Buffalo
*Michael W. Hail, assistant professor (1999), Ph.D., University of Delaware
*Stephen J. Lange, assistant professor (2005), Ph.D., Boston College
Stephen Herzog, associate professor (1996), J.D., Chase College of Law
Sara Jones, assistant professor (2005), A.B.D., Claremont Graduate University
M. Noelle N'Diaye, assistant professor (2005), A.B.D., West Virginia University
Dianna Murphy, associate professor (1996), J.D., University of Kentucky
Randall D. Swain, assistant professor (2004), Ph.D.., University of Alabama
**Joint appointment with IRAPP*

**History**

Yvonne Baldwin, professor (1992), Ph.D., University of Kentucky
Jeffrey Dennis, assistant professor (2001), Ph.D., University of Notre Dame

John Ernst, professor (1995), Ph.D., University of Kentucky
John Hennen, associate professor (1996), Ph.D., West Virginia University
Thomas Kiffmeyer, associate professor (2000), Ph.D., University of Kentucky
Adrian Mandzy, associate professor (2001), Ph.D., York University
Alana Scott, associate professor (1995), Ph.D., Florida State University
Kristina DuRocher Wilson, assistant professor (2005), A.B.D., University of Illinois at Urbana-Champaign

**Department of Military Science**

Scott Anderson, Sergeant, assistant chief instructor (2000)
Michael L. Campbell, Master Sergeant, chief instructor (1999)
Hollis D. Isham, Major (Ret), assistant professor (1999), M.A., Troy State University
Bonnie A. Noyes, Lieutenant Colonel, professor (2004), M.S., United States Air University
Ralph Phillips, Master Sergeant, senior instructor (2004)
Darren A. Sundys, Captain, assistant professor (2005), B.S., Morehead State University

**Department of Music**

Michael D. Acord, associate professor (1989), M.M., Michigan State University
Stacy A. Baker, associate professor (1996), D.M.A., University of Michigan
Suanne H. Blair, assistant professor (1969), M.M., University of Southern California
Susan D. Creasap, associate professor (1996), D.A., Ball State University
Greg J. Detweiler, associate professor (1998), D.M.A., University of Illinois at Urbana-Champaign
Janean Freeman, instructor (2004), M.M., Morehead State University
James B. Geiger, keyboard technician (1999), Diploma, University of Cincinnati College-Conservatory of Music
Glenn Ginn, assistant professor (2005), M.M., University of North Texas
June Grice, assistant professor (2005), Ph.D., University of Iowa
Larry Curtis Hammond, associate professor (1993), D.M., Florida State University
Chia-Ling Hsieh, instructor (2004), M.M., University of Cincinnati College-Conservatory of Music
Larry W. Keenan, professor (1967), M.Mus., Indiana University
Jeanie K. Lee, associate professor, (2000), D.M.A.., University of Michigan
Ricky R. Little, associate professor (1995), D.M.A., Ohio State University
Brian S. Mason, assistant professor (2000), M.Mus., University of Nevada at Las Vegas
M. Scott McBride, professor, (2003), Ph.D, University of Oklahoma
Richard Miles, professor (1985), Ph.D., Florida State University
Nathan Nabb, assistant professor (2005), M.M., Northwestern University
Frank Oddis, associate professor (1977), M.M., East Carolina University
David William Oyen, associate professor (1999), D.M.A., Ohio State University
Roma Prindle, associate professor (1993), D.M.A., Hartt School of Music
Robert D. Pritchard II, professor (1972), Mus. A.D., Boston University
Steven D. Snyder, assistant professor (2001), D.M.A., University of Texas at Austin
Paul F. Taylor, associate professor (1990), D.M.A., University of Wisconsin-Madison
Gordon L. Towell, associate professor (1995), D.M.E., University of Cincinnati College-Conservatory of Music
John E. Viton, associate professor (1988), D.M.A., Yale University
Gregory Wing, assistant professor (2002), M.M., Indiana University

**Department of Sociology, Social Work, & Criminology**

Mona Abdel-Meguid, assistant professor (2006), A.B.D., Ohio State University
Bernadette C. Barton, assistant professor (2000), Ph.D., University of Kentucky
Edward Breschel, associate professor (1994), Ph.D., Duke University
Robert A. Bylund, professor (1979), Ph.D., Pennsylvania State University
Cynthia Faulkner, assistant professor (2001), Ph.D., University of Texas at Arlington
Samuel Faulkner, assistant professor (2001), Ph.D., University of Texas at Arlington
Raymond Hall, instructor, (1997), M.A., Morehead State University
Constance L. Hardesty, associate professor (1994), Ph.D., University of Kentucky
Latonya Hesterburg, assistant professor (2003) A.B.D,. University of Kentucky
Mary Margaret Just, associate professor (1998), Ph.D., University of Texas

Rebecca Katz, associate professor (1995), Ph.D., University of Oklahoma
Shondra Nash, assistant professor (2002), Ph.D., University of Kentucky
Clarenda Phillips, associate professor (2000), Ph.D., University of Illinois
*Edward Reeves, professor (1984), Ph.D., University of Kentucky
Susanne Rolland, associate professor (1994), Ph.D., Emory University
*David R. Rudy, professor (1980), Ph.D., Syracuse University
J. Michael Seelig, professor (1983), J.D., Capital University
Judith A. Stafford, associate professor (1989), Ph.D., Ohio State University
*Paul D. Steele, associate professor (2006), Ph.D., University of Texas
Erik Swank, associate professor (1996), Ph.D., Ohio State University
Suzanne Tallichet, associate professor (1993), Ph.D., Pennsylvania State University
**Joint appointment with IRAPP*

## College of Science & Technology

### Department of Agricultural & Human Sciences

Robert Lane Cowsert, professor (1994), Ph.D., University of Tennessee at Knoxville
Debby A. Johnson, associate professor (1988), Ph.D., University of Kentucky
Erin LeCompt, Equestrian Coach (1998), B.A., Miami University
Barbara Lewis, assistant professor (1981), M.A., C.V.T., Morehead State University
Adam Kantrovich, assistant professor (2002), Ph.D., Virginia Polytechnic Institute
Madeline Murphy, instructor (2000), M.S., Virginia State University
Kimberly M. Peterson, assistant professor (2006), D.V.M. Colorado State University
Phillip E. Prater, associate professor (1998), D.V.M., Ohio State University
Charles Brent Rogers, associate professor (1984), Ph.D., University of Arkansas
Scott W. Rundell, associate professor (1984), D.V.M., Michigan State University
Marilyn Y. Sampley, professor (1987), Ph.D., Texas Women's University
Judith G. Willard, associate professor (1977), Ph.D., University of Kentucky
Troy Wistuba, assistant professor (2003), M.S., Kansas State University
Joseph C. Fraley, farm manager (1997), B.S., Morehead State University

### Department of Biological & Environmental Sciences

Gerald L. DeMoss, professor (1968), Ph.D., University of Tennessee
Darrin L. DeMoss, associate professor (1997), Ph.D., Marshall University
David J. Eisenhour, associate professor (1997), Ph.D., Southern Illinois University
Michael E. Fultz, assistant professor (2004), Ph.D., Marshall University
Geoffrey W. Gearner, professor (1990), Ph.D., Texas A&M University
Janelle M. Hare, assistant professor (2003), Ph.D., University at Albany School of Public Health
Malinda B. McMurry, instructor (1994), M.S., Texas A&M University
David T. Magrane, professor (1976), Ph.D., University of Arizona
Sean T. O'Keefe, assistant professor (2001), Ph.D., University of California at Berkeley
David K. Peyton, assistant professor (2001), Ph.D., University of Kentucky
*Brian C. Reeder, professor (1989), Ph.D., Ohio State University
Allen C. Risk, professor (1996), Ph.D., University of Tennessee
David J. Saxon, professor (1967), Ph.D., Southern Illinois University
David P. Smith, associate professor (1997), Ph.D., University of North Texas
Craig A Tuerk, professor (1993), Ph.D., University of Colorado
Stephanie M. Welter, assistant professor (2005), Ph.D., Indiana University
Carol L. Wymer, associate professor (1998), Ph.D., Pennsylvania State University
**Joint appointment with IRAPP*

### Clinical Faculty

Allan Hallquist (1980), M.D., M.T. (ASCP), State University of New York (St. Elizabeth Medical Center)
Lisa Cecil (1981), M.T. (ASCP), B.S., Brescia College (Owensboro - Mercy Health System)
James A. Dennis (1967), M.D., Medical University of South University (Methodist Hospital of Kentucky)
Marie Keeling (1982), M.D., University of Louisville (University of Louisville)

Betty Martin (1986), M.T. (ASCP), B.S., Pikeville College (Methodist Hospital of Kentucky)
Susan Miller (1982), Ph.D., Catholic University of America (University of Louisville)
Brian E. Ward (1987), M.D., University of Indiana (Owensboro - Mercy Health System)
Madelon Zady (1976), M.T., M.A.T., University of Louisville (University of Louisville)

**Department of Imaging Sciences**

Marcia Cooper, associate professor (1994), M.S.R.S., Midwestern State University
Jacklynn K. Darling, associate professor (1979), M.S., Morehead State University
Barbara Dehner, associate professor (1982), M.S.R.S., Midwestern State University
Linda N. Donathan, assistant professor (2006), M.S., Morehead State University
Jeffrey C. Fannin, assistant professor (2001), M.S.R.S., Midwestern State University
Cynthia Gibbs, associate professor (1990), M.A., Morehead State University
Wretha Goodpaster, associate professor (1998), M.S.R.S., Midwestern State University

**Clinical Faculty**

Sabrina Adams, Radiography (Pikeville Medical Center)
Betty Addington, Sonography (Highlands Regional Medical Center)
Joe Akers, Radiography (Hazard ARH)
Brooke Angel, Sonography (Central Baptist Hospital)
Jackie Apel, Sonography (Bethesda Hospital)
Jason Applegate, Radiography (Meadowview Regional Medical Center)
Debbie Arnett, Sonography (Kings Daughters Medical Center)
Greg Bartley, Magnetic Resonance (Our Lady of Bellefonte Hospital)
Lynn Beck, Sonography (St. Elizabeth Medical Center)
Barbara Beeghly, Sonography (St. Elizabeth Medical Center)
Susan Black, Sonography (Cabell Huntington Hospital)
Dean Blair, Computed Tomography (Central Baptist Hospital)
Jamie Blair, Magnetic Resonance (Baptist Hospital East)
Mary Broderick, Radiography (Jewish Hospital)
Harold Chandler, Sonography (Pattie A. Clay Regional Medical Center)
Melanie Collins, Sonography (Kentucky River Medical Center)
Robert Cox, Radiography (Hazard ARH)
Mark Damron, Radiography (Pikeville Medical Center)
Rachel Dick, Magnetic Resonance (Central Baptist Hospital)
Betty Euton, Magnetic Resonance (Southern Ohio Medical Center)
Tim Ferguson, Sonography (Mary Chiles Hospital)
Linda Fitzpatrick, Computed Tomography (Kings Daughters Medical Center)
Mike Fletcher, Magnetic Resonance (Baptist Hospital East)
Bonnie Frisby, Magnetic Resonance (Jewish Hospital)
Stephanie Frye, Radiography (Frankfort Regional Medical Center)
JaDonna Fulkerson, Radiography (Jewish Hospital & St. Mary's Healthcare)
Allison Fultz, Radiography (St. Claire Regional Medical Center)
Linda Ginter, Sonography (Paul B. Hall Medical Center)
Tom Haller, Magnetic Resonance (Bethesda North)
Anne Hayes, Sonography (Our Lady of Bellefonte Hospital)
Bobbie Hedge, Computed Tomography (St. Elizabeth Medical Center)
Kenny Holbrook, Magnetic Resonance (Mountain Medical Imaging Center)
Regina Holbrook, Sonography (Mountain Medical Imaging Center)
Theresa Hollan, Sonography (St. Claire Regional Medical Center)
Gina King, Radiography (Fleming County Hospital)
Elaine Lacroix, Sonography (Central Baptist Hospital)
David Leach, Radiography (Morgan County ARH)
Danielle Lewis, Computed Tomography (Cabell Huntington Hospital)
Carol McCord, Sonography (Maysville OB/GYN Association)
Susan McKenzie, Computed Tomography (Our Lady of Bellefonte Hospital)

Deborah McMahan, Computed Tomography (Bethesda Hospital)
John Meade, Radiography (Highlands Regional Medical Center)
Patty Meade, Radiography (Pattie A. Clay Medical Center)
Amy Montgomery, Sonography (Paul B. Hall Medical Center)
Jeanette Music, Radiography (Three Rivers Medical Center)
Valerie Music, Radiography (Three Rivers Medical Center)
Kenneth Myers, Computed Tomography (Pikeville Medical Center)
Jennifer Pack, Radiography (Mary Chiles Hospital)
Ashley Patton, Radiography and Magnetic Resonance (St. Claire Regional Medical Center)
Tamara Ramsey, Sonography (Jewish Hospital)
Patricia Rhoten, Computed Tomography (Jewish Hospital)
Candy Rice, Sonography (Cabell Huntington Hospital)
Jan Riley, Magnetic Resonance (KY Diagnostic Center)
Angela Rogers, Sonography (Pattie A. Clay Medical Center)
Lori Seibert, Computed Tomography (Southern Ohio Medical Center)
Melissa Smith, Computed Tomography (Pikeville Medical Center)
Mike Snoddy, Sonography (Kings Daughters Medical Center)
Patricia Spellman, Sonography (Clark Regional Medical Center)
Mary Sommer, Sonography (Southern Ohio Medical Center)
Marsha Wall, Sonography (UK Bluegrass High Risk OB)
Robin Walton, Sonography (Fleming County Hospital)
Kevin Wampler, Sonography (Three Rivers Medical Center)
Lewis White, Computed Tomography (Highlands Regional Medical Center)
Jamie Williams, Computed Tomography (Mountain Medical Imaging Center)
Kathy Wright, Sonography (Bethesda North)
Shelly Yearsley, Radiology (Georgetown Community Hospital)

**Department of Industrial & Engineering Technology**

Gabriel Alungbe, assistant professor (2006), Ph.D., University of Florida
Faroug Al-Hourani, assistant professor (2004), Ph.D., University of Wisconsin
William R. Grisé, professor (1994), Ph.D., University of Texas
Xiaolong Li, assistant professor (2006), A.B.D., University of Cinncinnati
Patrick Mason, instructor (2002), M.S., Morehead State University
Jaby Mohammed, assistant professor (2006), A.B.D., University of Louisville
W. Charles Patrick, professor (1985), Ph.D., Virginia Polytechnic Institute and State University
Ronald Spangler, associate professor (1987), Ph.D., University of Kentucky
Rodney B. Stanley, associate professor (1986), Ed.D., University of Kentucky
You Yuqiu, assistant professor (2005), A.B.D., Indiana State University
Ahmad Zargari, professor (1994), Ph.D., Bowling Green State University

**Department of Mathematics and Computer Science**

Dora Cardenas Ahmadi, associate professor (1995), Ph.D., University of Oklahoma
Sue Beck, instructor (1997), M.A., Morehead State University
Robin Blankenship, assistant professor (2005), Ph.D., Louisana State University
Richard Blanton, instructor (2000), M.S., Marshall University
Douglas Chatham, assistant professor (2001), Ph.D., University of Tennessee
Vivian Flora Cyrus, associate professor (1994), Ph.D., University of Kentucky
Michael Dobranski, assistant professor (2003), Ph.D., University of Kentucky
Gerd H. Fricke, professor (1999), Ph.D., Kent State University
Charles Rodger Hammons, professor (1971), Ph.D., University of Kentucky
Lloyd R. Jaisingh, professor (1985), Ph.D., Texas Tech University
Kathryn M. Lewis, associate professor (1999), Ph.D., Purdue University
Russell May, assistant professor (2001), Ph.D., North Texas State University
Troy Meadows, instructor (2002), B.S., Morehead State University
Timothy O'Brien, assistant professor (2003), Ph.D., Kansas State University

David Pollitte, instructor (2002), A.M.E.D., Morehead State University
Christie R. Perry, assistant professor (2004), M.A., Morehead State University
Randy K. Ross, associate professor (1986), M.A., Marshall University
Chris Schroeder, assistant professor (2002), Ph.D., Kansas State University
Duane Skaggs, technology coordinator (1998), M.A., University of Kentucky

**Department of Nursing**

Nathania Bush, assistant professor (2004), M.S.N., University of Kentucky
Tara Clark, assistant professor (2005), M.S.N., Vanderbilt University
Cheryl Clevenger, assistant professor (1990), M.S.N., University of Kentucky
Kim Clevenger, assistant professor (2005), M.S.N., Bellarmine University
Donna Corley, associate professor (1992), M.S.N., University of Kentucky
Janet Gross, professor (1983), D.S.N., University of Alabama at Birmingham
Teresa Howell, associate professor (1999), M.S.N., University of Kentucky
Stephanie Johnson, assistant professor (2004), M.S.N., Bellarmine University
Lucille Mays, associate professor (1990), M.S.N., University of Kentucky
Erla Mowbray, professor (2005), Ph.D., University of Kentucky
Mary Shoemaker, assistant professor (2004), M.S.N., Xavier University
Michelle A. Walters, assistant professor (2002), M.S.N., University of Kentucky
Brenda Wilburn, associate professor (1992), M.S.N., Marshall University

## Department of Physical Sciences

**Chemistry**

Silvia Atim, assistant professor (2006), Ph.D., University of North Texas
Zexia K. Barnes, associate professor (1988), Ph.D., Michigan State University
Mark T. Blankenbuehler, associate professor (1999), Ph.D., University of Kentucky
Rita K. Calhoun, PS Lab Supervisor (1994), Ph.D., University of Kentucky
Nathan Coker, assistant professor (2004), Ph. D., University of Cincinnati
Herbert C. Hedgecock Jr., assistant professor (1980), Ph.D., University of Tennessee
Ann M. MacIntosh, associate professor (1999), Ph.D., Michigan State University

**Geosciences**

Marshall Chapman, associate professor (1997), Ph.D., University of Massachusetts
Eric A. Jerde, associate professor (2000), Ph.D., University of California
Charles E. Mason, associate professor (1983), M.S., George Washington University
Steven K. Reid, associate professor, (1992), Ph.D., Texas A&M University

**Physics**

Ignacio Birriel, assistant professor (2001), Ph.D., University of Pittsburgh
Jennifer Birriel, assistant professor (2001), Ph.D., University of Pittsburgh
Antonino Carnevali, professor (2001), Ph.D., University of Tennessee
Kent Price, assistant professor (2001), Ph.D., University of North Carolina
Capp D. Yess, associate professor (1997), Ph.D., University of Kansas

**Science Education**

Robert D. Boram, professor (1991), Ph.D., University of Oklahoma
Jennifer O'Keefe, instructor of science (2003), M.S., Texas A&M University
Michael Wallace, assistant professor (2002), Ph.D., University of Missouri
Joan M. Whitworth, associate professor (1995), Ph.D., University of Colorado

**Department of Psychology**

Laurie L. Couch, associate professor (1997), Ph.D., University of Tennessee
Cary Feria, assistant professor (2004), Ph.D., University of California Irvine
Lynn Haller, associate professor (1992), Ph.D., Miami University
Shari L. Kidwell, assistant professor (2001), Ph.D., Wayne State University

Bruce A. Mattingly, professor (1980), Ph.D., University of Kentucky
David R. Olson, associate professor (1990), Ph.D., Oklahoma State University
Sean Reilley, assistant professor (2002), Ph.D., University of Cincinnati
Gilbert Remillard, assistant professor (2004), Ph.D., University of Manitoba
Ilsun M. White, professor (2001), Ph.D., Indiana University
Wesley O. White, associate professor (2001), Ph.D., Indiana University

**Space Science Center**

Michael Combs, telescope operations engineer (2002), M.S., Morehead State University
Bedri A. Cetiner, assistant professor (2004), Ph.D., Yildiz Technical University
Jeff Kruth, antenna engineer (1978), B.S.E.E., University of Pittsburgh
Benjamin K. Malphrus, professor (1991), Ed.D., West Virginia University

## Institute for Regional Analysis & Public Policy

Zachary J. Bortolot, assistant professor (2003), Ph.D., Virginia Polytechnic Institute and State University
Stefen Brooks, assistant professor (2006), Ph.D., University of Houston
Lisa Cave, assistant professor (2004), Ph.D., University of Kentucky
Michael W. Hail, assistant professor (1999), Ph.D., University of Delaware
Daikwon Han, assistant professor (2002), Ph.D., University at Buffalo, Buffalo New York
Timothy Hare, assistant professor (2003), Ph.D., Suny University at Albany
Stephen J. Lange, assistant professor (2004), Ph.D., Boston College
Christine E. McMichael, assistant professor (2003), Ph.D., San Diego State University
Steven Parkansky, associate professor (1999), Ph.D., State University of New York
Brian C. Reeder, professor (1989), Ph.D., Ohio State University
Edward Reeves, professor (1984), Ph.D., University of Kentucky
David R. Rudy, professor, (1980), Ph.D., Syracuse University
Paul Steele, associate professor, (1975), Ph.D., University of Texas

## Athletics

**Coaches**

Erin Aubry, head soccer coach (2005), B.A., Northwestern University
Matt Ballard, head football coach (1994), M.A., Georgetown College
Rex Chaney, head golf coach (1961), R.Ed., Indiana University
Kevin Deweese, head strength & conditioning coach (2005), B.A., University of Kentucky
Gary Dunn, assistant football coach (1999), M.A., Calfornia University of Pennsylvania
Kevin Fulton, men's and women's tennis coach (2005), B.S., University of Louisville
Chris Garner, assistant football coach (2004), B.A., University of Findley
John Gilliam, defensive coordinator (1994), M.A., Morehead State University
James D. Gordon, head volleyball coach (2003), M.S., University of Kentucky
Kris Grunwald, assistant volleyball coach (2005), M.A., Florida State University
John Jarnagin, head baseball coach (1995), M.S., Middle Tennessee State University
Shambrica Jones, assistant women's basketball coach (2005), B.A., University of Kentucky
Jill Karwoski, head softball coach (2003), M.A., Morehead State University
Dan Lindsey, head track & cross country coach (1987), M.A., Morehead State University
Matthew Mitchell, head women's basketball coach (2005), B.B.A., Mississippi State University
Lee Moon, assistant Men's Basketball Coach (2006), M.Ed., University of Florida
Zack Moore, assistant football coach (2002), M.A., Morehead State University
Gina Ramacci, assistant softball coach (2004), B.A., DePaul University
Walter Rybka, men's and women's rifle coach (1996), M.A., Eastern Michigan University
Rob Taylor, assistant baseball coach (2006), M.A., Morehead State University
Rob Tenyer, assistant football coach (2001), A.B., Olivet College
Donnie Tyndall, head men's basketball coach (2006), M.S., Louisiana State University
Matt Webber, assistant women's basketball coach (2005), B.S., University of Kentucky
Barry Wortman, assistant men's basketball coach (2006), M.A., Tennessee State University

### Camden-Carroll Library

Elsie Pritchard, Dean of Library Services (1982), M.L.S., University of Pittsburgh
Ray Bailey, librarian II (2004), M.L.I.S., University of South Florida
Donna Baker, librarian I (2006), M.L.S., University of North Carolina at Chapel Hill
Pamela Colyer, librarian II (2001), M.S.L.S., University of Kentucky
Tom Kmetz, librarian III (1997), M.S.L.I.S., University of Illinois
Jennifer Little, librarian III (2001), M.L.S. Columbia University
Linda Lowe, librarian II (1979), M.S.L.S., University of Kentucky
Lisa Nichols, librarian I (2005), M.S.L.I.S., University of Illinois
Carol Nutter, librarian IV (1978), M.S.L.S., University of Kentucky
Granuaile O'Flanagan, librarian II (1990), M.S.L.S., University of Kentucky
Clara B. Potter, librarian IV (1987), M.S.L.S., University of Kentucky
Jason Vance, librarian III (2001), M.S., Simmons College

# Faculty Emeriti

Palmer Adkins, assistant professor of HPER
John Alcorn, associate professor of accounting
Lindsey Back, professor of government
Larry Besant, librarian IV
David M. Brumagen, professor of biology
Janice Brumagen, associate professor of nursing
Roland Burns, professor of geography
Fred M. Busroe, associate professor of biology
Wade Cain, associate professor of chemistry
Glenna Campbell, associate professor of English
Rodger Carlson, professor of marketing
Rex Chaney, associate professor of HPER
Betty M. Clarke, assistant professor of English
William Clark, professor of geography
L. Bradley Clough, professor of psychology
Dorothy Conley, assistant professor of elementary education
Gary C. Cox, professor of geography
Diane Cox, assistant professor of education
David Cutts, professor of physics
Larry Dales, assistant professor of journalism
Richard Daniel, professor of education
Bernard Davis, professor of banking
Paul Ford Davis, professor of education
Anna Lee Demaree, professor of psychology
Charles Derrickson, professor of agriculture
G. Ronald Dobler, professor of English
Mignon Doran, director emeritus of PDI
Gretta Duncan, assistant professor of education
Johnson E. Duncan, professor of music
Ronald G. Eaglin, professor
Jane Ellington, associate professor of human sciences
Maurice E. Esham, professor of science
Ronald L. Fiel, professor of science
Carolyn Flatt, assistant professor of PDI
Donald Flatt, professor of history
R. Jay Flippin, associate professor of music
Ben Flora, professor of mathematics
Jerry Franklin, assistant professor of education
Kent Freeland, professor of education
Johnnie G. Fryman, associate professor of mathematics
E. Glenn Fulbright, professor of music
Christopher Gallaher, professor of music
Carol Ann Georges, assistant professor of education
Shirley Gish, professor of speech
James E. Gotsick, professor of psychology
Robert Gould, professor of geography
John Graham, assistant professor of accounting
Nancy Graham, assistant professor of human sciences
Colleta Grindstaff, assistant professor of education
Robert Grueninger, assistant professor of education
Oval Hall, assistant professor of education
Bernard G. Hamilton, assistant professor of German
Karen Hammons, assistant professor of education
Rodger Hammons, professor of mathematics
Coleene Hampton, instructor of education
Robert T. Hayes, associate professor of industrial education
Jack Henson, instructor of business education
Katherine Herzog, associate professor of education
Charles Hicks, professor of education
Charles Holt, professor of history
Ryan Howard, professor of art
Bernice Howell, instructor of education
Jerry F. Howell, Jr., professor of biology
Richard Hunt, associate professor
David K. Hylbert, professor of geoscience
Broadus Jackson, professor of history
Glenn Johnston, professor of mathematics
Charlie L. Jones, associate professor of mathematics
Dennis Karwatka, professor of industrial education
Freda Kilburn, professor of nursing
John Kleber, professor of history
Allen Lake, associate professor of biology
William Layne, professor of communication
Joyce LeMaster, associate professor of English
Perry E. LeRoy, professor of history
Robert J. Lindahl, professor of mathematics
Travis Lockhart, professor of theatre
Robert Lorentz, assistant professor of marketing
Earle Louder, professor of music
George M. Luckey Jr., professor of philosophy
Sue Luckey, professor of business education
Alton Malone, librarian III

Frank M. Mangrum, professor of philosophy
James D. Mann, associate professor of mathematics
Jose M. Maortua, professor of art
Ted Marshall, professor of social work
James C. Martin, associate professor of agriculture
Paul McGhee, professor of education
Leslie E. Meade, professor of biology
Robert Meadows, professor of management
Rodney Don Miller, professor of education
Mark G. Minor, professor of English
Dixie M. Moore, assistant professor of mathematics
Ethel J. Moore, assistant professor of Latin
Charles Morgan Jr, professor of psychology
Thomas Morrison, professor of economics
Edward Morrow, assistant professor of English
Olga Mourino, professor of Spanish
Edward G. Nass, associate professor of industrial education
Barbara Neimeyer, associate professor of special education
Elizabeth Nesbitt, assistant professor of HPER
Larry Netherton, instructor of communication
Mary Jo Netherton, associate professor of French
Hazel Nollau, assistant professor of education
Gordon Nolen, associate professor of mathematics
Eugene Norden, assistant professor of music
Helen Northcutt, assistant professor of business education
Phyllis Oakes, professor of elementary education
John W. Oakley, assistant professor of sociology
Rose Orlich, professor of English
Gretta Gaye Osborne, assistant professor of HPER
James Osborne, assistant professor of HPER
John Osborne, assistant professor of accounting
Gail Ousley, assistant professor of business education
Ted Pack, instructor of mathematics
Ted Pass, professor of biology
Margaret Patton, associate professor of sociology
Charles A. Payne, professor of chemistry
Essie C. Payne, assistant professor of English
Lamar B. Payne, professor of chemistry
Charles J. Pelfrey, professor of English
Jack Peters, professor of management
Robert E. Peters, associate professor of education
John C. Philley, professor of geoscience
Tony C. Phillips, associate professor of chemistry
Bill B. Pierce, professor of marketing
Sibbie Playforth, assistant librarian
Mary Anne Pollock, associate professor of education
Betty Porter, professor of nursing
James Powell, professor of education
Dreama Price, associate professor of education
Madison E. Pryor, professor of biology
James Quisenberry, professor of speech
Paul A. Raines, professor of HPER
C. Victor Ramey, associate professor of science
Diane Ris, professor of education
Meade Roberts, professor of industrial education
James R. Robinson, assistant professor of geography
Glenn Rogers, professor of English
Judy Rogers, professor of English
Harold Rose, professor of education
Raymond Ross, assistant professor of music
Adolfo E. Ruez, associate professor of Spanish
Layla Sabie, professor of education
Mohammed Sabie, professor of HPER
George Sadler, associate professor of HPER
Joe D. Sartor, associate professor of art
Joyce Saxon, associate professor of mathematics
Howard L. Setser, professor of biology
John K. Stetler, associate professor of music
Lucretia M. Stetler, associate professor of music
Lawrence R. Stewart, professor of education
Stellarose M. Stewart, instructor of education
George Tapp, professor of psychology
Carolyn Taylor, associate professor of human sciences
Stephen S. Taylor, professor of education
Dan S. Thomas, professor of education
M. K. Thomas, professor of English
Charles Thompson, professor of HPER
Pepper Tyree, assistant professor of industrial education
Gary Van Meter, associate professor of accounting
Vasile Venettozzi, professor of music
William Weikel, professor of education
Randall Wells, professor of education
Sue Wells, assistant professor of education
Alban Wheeler, professor of sociology
Charles J. Whidden, professor of physics
Mont Whitson, professor of sociology
Patsy Whitson, associate professor of social work
Helen Williams, librarian IV
Marium Williams, associate professor of education
Betty Jean Wilson, librarian IV
Jack Wilson, professor of speech
Robert Wolfe, associate professor of agriculture
Clark D. Wotherspoon, professor of education
Thom Yancy, associate professor of communication
Don B. Young, assistant professor of art
Stephen Young, professor of education

# General Education Goals

The purpose of Morehead State University's general education component is to equip all students with the knowledge and skills to live fulfilling and productive lives as educated citizens of the world.

### Students will be expected to demonstrate the ability to:

**A. Communicate accurately and effectively.**
Students must be proficient in both written and spoken English.

**B. Locate, select, organize, and present information efficiently.**
Students must be able to retrieve and organize information from various disciplines and to use appropriate computer technologies.

**C. Think and reason analytically.**
Students must be able to use methods of scientific inquiry, understand and apply mathematical concepts, and reason logically by evaluating, analyzing, and synthesizing information.

**D. Make informed and ethical value decisions.**
Students must make responsible decisions after considering the moral, aesthetic, and practical implications of their actions.

**E. Function responsibly in the natural, social, and technological environment.**
Students must recognize and understand both the dynamics and social implications of political, environmental, and scientific processes.

**F. Recognize and respond to aesthetic values in creative human expression.**
Students should develop an appreciation for the arts and the humanities.

**G. Develop life skills.**
Students should develop knowledge, skills, and behaviors which promote well being.

**H. Recognize and value the multicultural nature of American society and respect the rights of all citizens.**
Students must consider how others think and live in order to develop understanding of and respect for the cultural diversity within American society.

**I. Analyze global issues in the context of cultural diversity.**
Students must understand the diversity as well as the commonality of world inhabitants and understand the need to act responsibly as world citizens.

# Students' Rights in Access to Records

This information is provided to notify all students of Morehead State University of the rights and restrictions regarding inspection and release of student records contained in the Family Educational Rights and Privacy Act of 1974 (Public Law 93-380) as amended.

**Definitions**

1. "Eligible student" means a student who has attained 18 years of age or is attending an institution of postsecondary education.
2. "Institution of postsecondary education" means an institution which provides education to students beyond the secondary school level.
3. "Secondary school level" means the educational level (not beyond grade 12), at which secondary education is provided, as determined under state law.

**I. Students' Rights to Inspection of Records and Review Thereof**

1. Any student or former student of Morehead State University has the right to inspect and review any and all "official records, files, and data directly related to" the student. The terms "official records, files, and data" are defined as including, but not limited to:
   a. Identifying data
   b. Academic work completed
   c. Level of achievement (grades, standardized achievement test scores)
   d. Attendance data
   e. Scores on standardized intelligence, aptitude, and psychological tests
   f. Interest inventory results
   g. Family background information
   h. Teacher or counselor ratings and observations
   i. Verified reports of serious or recurrent behavior problems
   j. Cumulative record folder
2. The institution is not required to make available to students confidential letters of recommendation placed in their files before January 1, 1975.
3. Students do not have the right of access to records maintained by the University's law enforcement officials.
4. Students do not have direct access to medical, psychiatric, or similar records which are used solely in connection with treatment purposes. Students are allowed the right to have a doctor or other qualified professional of their choice inspect their medical records.
5. Procedures have been established by the University for granting the required access to the records within a reasonable time, not to exceed 45 days from the date of the request.
6. The University shall provide students an opportunity for a hearing to challenge the content of their records to ensure that the records are not inaccurate, misleading, or otherwise in violation of the privacy or other rights of the student.
   a. Informal Proceedings: Morehead State University may attempt to settle a dispute with the parent of a student or the eligible student regarding the content of the student's education records through informal meetings and discussions with the parent or eligible student.
   b. Formal Proceedings: Upon the request of either party (the educational institution, the parent, or eligible student), the right to a hearing is required. If a student, parent, or educational institution requests a hearing, the Vice President for Student Life shall make the necessary arrangements. The hearing will be established according to the procedures delineated by the University.

**II. Restrictions on the Release of Student Records**

1. Morehead State University will not release records without written consent of the students except to:
   a. Other local educational officials, including teachers of local educational agencies who have legitimate educational interest.
   b. Officials of other schools or school systems in which the student intends to enroll, upon the condition that the student be notified of the transfer and receive a copy of the record desired, and have an opportunity to challenge the contents of the records.
   c. Authorized representatives of the Comptroller General of the United States, the Secretary of Education or an administrative head of an education agency, in connection with an auditor evaluation of federally supported programs; or
   d. Parents of dependent students.
2. Morehead State University will not furnish personal school records to anyone other than the described above unless:
   a. Written consent of the student is secured, specifying the records to be released, the reasons for the release, identifying the recipient of the records, and furnishing copies of the materials to be released to the student; or
   b. The information is furnished in compliance with a judicial order or pursuant to a subpoena, upon condition that the student is notified of all such orders or subpoenas in advance of compliance therewith.

**III. Provisions for Students Requesting Access to Records**

The student or former student must file a certified and official request in writing to the registrar of the University for each review.

**IV. Provisions for Authorized Personnel Requesting Access to Records**

1. Authorized personnel must provide positive identification and indicate reasons for each request for examination.
2. Authorized personnel who have legitimate educational interests may review students' records, showing cause.
3. Other persons must have specific approval in writing from the student for release of information. This approval must specify the limits (if any) of the request.

# University Academic Calendar

## Fall Semester - 2006

**August**

| | | |
|---|---|---|
| 16 | Wednesday | - Campus-wide Convocation; division, college, and department meetings |
| 17 | Thursday | - Class scheduling in academic depart ments |
| 18 | Friday | - Class scheduling in academic depart ments<br>- Residence halls open for freshmen to move in<br>- Last day for payment or deferment of tuition and fees |
| 21 | Monday | - All on-campus and off-campus classes begin<br>- Late fee in effect |
| 25 | Friday | - Last day for 100% refund of refund able fees (partial or full withdrawal) |
| 28 | Monday | - Last day to: register for credit, add a class or change sections, change from audit to credit, change from credit to audit, change to pass-fail option |

**September**

| | | |
|---|---|---|
| 1 | Friday | - Last day for 75% refund of refundable fees |
| 4 | Monday | - Labor Day (no day or night classes or office hours) |
| 11 | Monday | - Last day for 50% refund of refundable fees |
| 18 | Monday | - Last day for 25% refund of refundable fees<br>Last day to drop a first half-semester class with an automatic grade of "W" |

**October**

| | | |
|---|---|---|
| 4 | Wednesday | - Last day for reinstatement of fall schedule |
| 13 | Friday | - First half-semester classes end |
| 16 | Monday | - Mid-term grade reports due in Registrar's Office by 9 a.m.<br>- Second-half semester classes begin<br>- Last day to add a second-half semester class |

**November**

| | | |
|---|---|---|
| 1 | Wednesday | - Last day to drop a full-term course or withdraw from school with an auto matic grade of "W" |
| 13- 16 | Monday-Thursday | - Advance Registration for Spring 2007 |
| 20 | Monday | - Last day to drop a second-half semester class with a grade of "W" |
| 22-24 | Wednesday-Friday | - Thanksgiving Break |
| 27 | Monday | - Classes resume |

**December**

| | | |
|---|---|---|
| 11 | Monday | - FINAL EXAMINATIONS |
| 12 | Tuesday | - FINAL EXAMINATIONS |
| 13 | Wednesday | - Reading day for final exams (no classes) |
| 14 | Thursday | - FINAL EXAMINATIONS |
| 15 | Friday | - FINAL EXAMINATIONS |
| 16 | Saturday | - Commencement, 10:30 a.m. |
| 18 | Monday | - Grades due in Registrar's Office by 9 a.m. |

## Spring Semester - 2007

**January**

| | | |
|---|---|---|
| 10 | Wednesday | - Campus-wide Convocation; division, college, and department meetings |
| 11 | Thursday | - Class scheduling in academic departments |
| 12 | Friday | - Class scheduling in academic departments<br>- Last day for payment or deferment of tuition and fees without penalty |
| 15 | Monday | - Martin Luther King Jr. Day (no classes, or office hours) |
| 16 | Tuesday | - All on-campus and off-campus classes begin<br>- Late fee in effect |
| 22 | Monday | - Last day for 100% credit of creditable fees (partial or full withdrawal) |
| 23 | Tuesday | - Last day to: register for credit, add a class or change sections, change from audit to credit, change from credit to audit, or change to pass-fail option |
| 29 | Monday | - Last day for 75% credit of creditable fees (partial or full withdrawal) |

**February**

| | | |
|---|---|---|
| 1 | Thursday | - Class schedules dropped for students who have not paid or deferred tuition and fees<br>Last day to defer online |
| 5 | Monday | - Last day for 50% credit of creditable fees (partial or full withdrawal) |
| 12 | Monday | - Last day for 25% credit of creditable fees (partial or full withdrawal)<br>Last day to withdraw from a first-half semester class with an automatic grade of "W" |

**March**

| | | |
|---|---|---|
| 1 | Thursday | - Last day for reinstatement of Spring schedule |
| 9 | Friday | - First half-semester classes end |
| 12 | Monday | - Mid term grade reports due in Registrar's Office by 9 a.m.<br>- Second half-semester classes begin<br>- Last day to add a second half-semester class |
| 19-23 | Monday-Friday | - Spring Break |
| 29 | Thursday | - Last day to drop a full-term course or withdraw from school with an automatic grade of "W" |

**April**

| | | |
|---|---|---|
| 6 | Friday | - Last day to drop a second half-semester class with a grade of "W" |
| 9-12 | Monday-Thursday | - Advance Registration for Summer I, II, and Fall 2007 |

**May**

| | | |
|---|---|---|
| 7 | Monday | - FINAL EXAMINATIONS |
| 8 | Tuesday | - FINAL EXAMINATIONS |
| 9 | Wednesday | - Reading day for final exams (no classes) |
| 10 | Thursday | - FINAL EXAMINATIONS |
| 11 | Friday | - FINAL EXAMINATIONS |
| 12 | Saturday | - Commencement, 10:30 a.m. |
| 14 | Monday | - Grades due in Registrar's Office by noon |

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## S



## T



## U

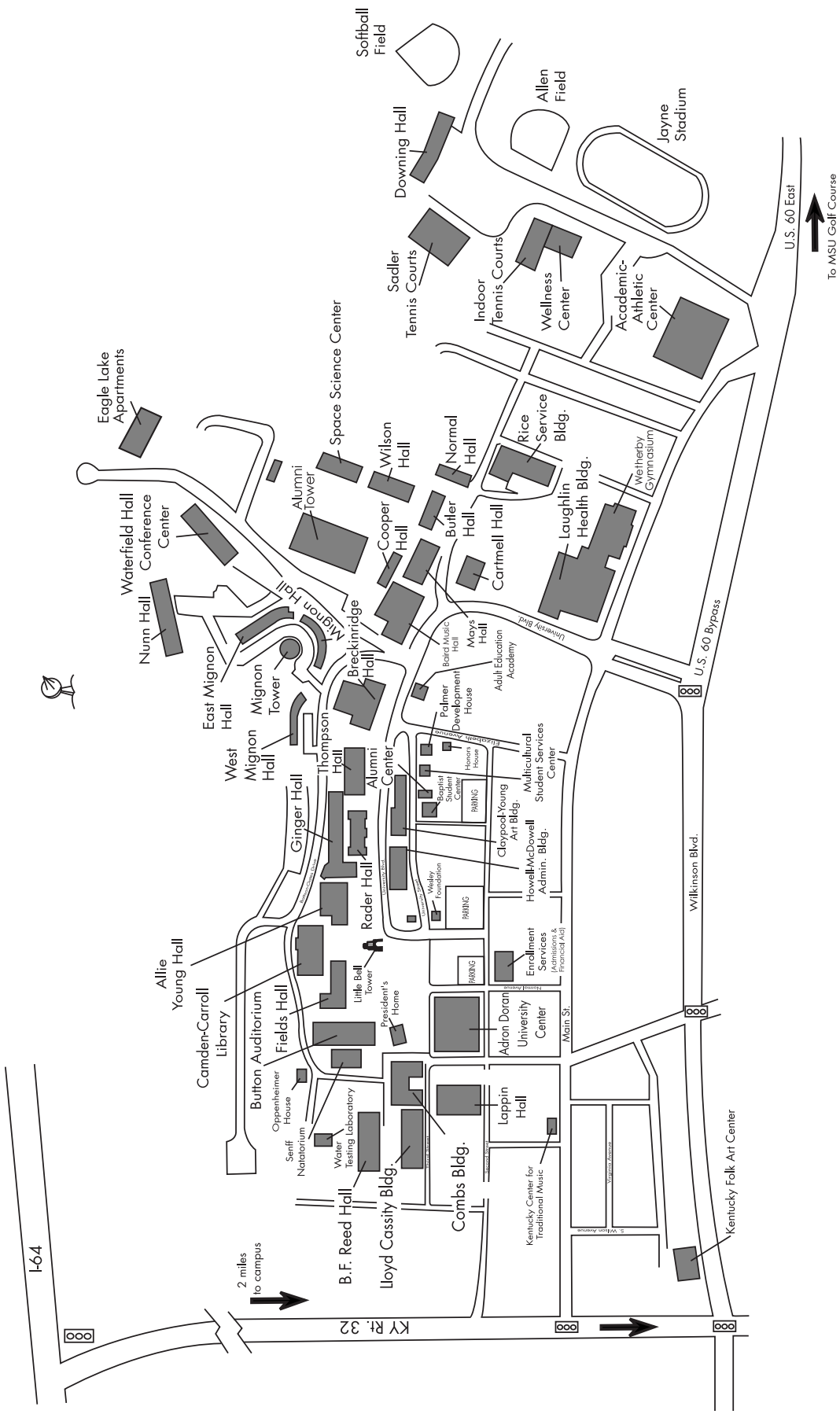


## V



## W

# Campus Map


Softball Field
Allen Field
Jayne Stadium
Downing Hall
Sadler Tennis Courts
Indoor Tennis Courts
Wellness Center
Academic-Athletic Center
U.S. 60 East
To MSU Golf Course
Eagle Lake Apartments
Space Science Center
Waterfield Hall Conference Center
Alumni Tower
Wilson Hall
Normal Hall
Rice Service Bldg.
Wetherby Gymnasium
Nunn Hall
Mignon Hall
Cooper Hall
Butler Hall
Cartmell Hall
Laughlin Health Bldg.
University Blvd
Mays Hall
Baird Music Hall
Adult Education Academy
U.S. 60 Bypass
East Mignon Hall
Mignon Tower
Breckinridge Hall
Palmer Development House
West Mignon Hall
Thompson Hall
Alumni Center
Honors House
Multicultural Student Services Center
Ginger Hall
Baptist Student Center
PARKING
Claypool-Young Art Bldg.
Rader Hall
Wesley Foundation
Howell-McDowell Admin. Bldg.
Allie Young Hall
Enrollment Services (Admissions & Financial Aid)
Camden-Carroll Library
Little Bell Tower
President's Home
Button Auditorium
Fields Hall
Adron Doran University Center
Main St.
Wilkinson Blvd.
Oppenheimer House
Senff Natatorium
Water Testing Laboratory
Lappin Hall
B.F. Reed Hall
Lloyd Cassity Bldg.
Combs Bldg.
Kentucky Center for Traditional Music
Kentucky Folk Art Center
I-64
2 miles to campus
KY Rt. 32

# Notes


MOREHEAD STATE UNIVERSITY
LUX
1887
KENTUCKY