

# Morehead State University

## Undergraduate Catalog 2002-2003

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Volume 60

August 2002

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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.

Morehead State University reserves the right to change, without notice, its academic regulations, policies, fees, and curricula by action of the Kentucky Council on Postsecondary Education and/or the Morehead State University Board of Regents. 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.

Morehead State University is committed to providing equal educational opportunity to all persons regardless of race, color, national origin, age, religion, marital status, sex, or educationally-unrelated disabilities in its educational programs, activities, employment policies, and admission of students to any program of study as required by Title IX, Title IV, and Section 504. Morehead State University is in compliance with the Americans With Disabilities Act. Inquiries should be addressed to Affirmative Action Officer, Morehead State University, 358 University Street, Morehead, KY 40351-1689.

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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**

American Veterinary Medical Association  
Association of Collegiate Business Schools and Programs  
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 Council for the Accreditation of Teacher Education  
National League for Nursing Accrediting Commission  
American Bar Association approval of Paralegal Studies  
American Dietetic Association approval of Didactic Program in Dietetics  
American Dietetic Association developmental accreditation of the Dietetic Internship

## **Membership**

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

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## Campus Building Abbreviations

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

## About the University

With a co-educational enrollment of about 9,000 and a full-time teaching faculty of 327, Morehead State University offers 76 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 2001)

### Vision Statement

#### **The President and Board of Regents share this vision for Morehead State University:**

Morehead State University was founded upon and continues to embrace the ideal that all persons should have opportunity to participate in higher education. With immense pride in its past and great promise for its future, the University intends to emerge in the first decade of the 21st century as an even stronger institution recognized for superb teaching and learning with exemplary programs in teacher education, space-related science and technology, entrepreneurship, visual and performing arts, regional engagement and international opportunity.

### Core Values

The University strives to exemplify these core values:

- An academic enterprise committed to providing optimal opportunities for teaching and learning.
- A scholarly community that values ideas, individuals and innovation.
- A culturally diverse organization dedicated to the personal worth of its members.
- A public institution fully accountable for its actions, outcomes and resources.

### Mission Statement

#### **Who We Are:**

We are a community of learners that includes teachers, scholars, staff, and students, accredited as a comprehensive University serving the eastern region of the Commonwealth of Kentucky.

#### **What We Do:**

We offer quality higher education opportunities and training in a collegial environment of open inquiry and educational interaction. We continually pursue academic education, professional development, and research in the belief that learning is a life-long process. We are dedicated to serving as both an important educational resource and as a positive role model for our community.

#### **Where We Are Going:**

We commit to preparing ourselves for the challenges and opportunities of the 21st century, and to improving the quality of life for the community in which we live and work, while protecting and preserving the unique history and heritage of our service region and the Commonwealth of Kentucky.

### Strategic Goals

- Academic Excellence and Student Success
- Excellence in Student Support
- Enrollment Growth and Retention Gains
- Effective Administration
- Enhanced Reputation and Productive Partnerships

# Course Abbreviations

ACCT	Accounting	ITL	Italian
AGR	Agriculture	LAT	Latin
ART	Art	LSIM	Library Science and Instructional Media
BIOL	Biology	MATH	Mathematics
BIS	Business Information Systems	MFT	Manufacturing Technology
CHEM	Chemistry	MIN	Mining Technology
CIS	Computer Information Systems	MKT	Marketing
CMAP	Communication (Advertising/Public Relations)	MNGT	Management
CMEM	Communication (Electronic Media)	MS	Military Science
CMJN	Communication (Journalism)	MSCI	Marine Science
CMSP	Communication (Speech)	MSU	University Studies
COMM	Communication (General)	MUSC	Music (Conducting)
CON	Construction Technology	MUSE	Music (Education)
CRIM	Criminology	MUSG	Music (Class Applied)
CS	Computer Science	MUSH	Music (History and Literature)
ECON	Economics	MUSM	Music (Ensembles)
EDAD	Education (Administration)	MUSP	Music (Private Applied)
EDAH	Education (Adult and Higher)	MUST	Music (Theory and Composition)
EDEC	Education (Early Childhood)	NAHS	Nursing and Allied Health Sciences
EDEE	Education (Early Elementary—P-5)	NURA	Nursing (Associate)
EDEL	Education (Elementary)	NURB	Nursing (Bachelor's)
EDEM	Education (Early Elementary and Middle Grades)	PDI	Personal Development Institute
EDF	Education (Foundations)	PHED	Physical Education
EDGC	Education (Guidance and Counseling)	PHIL	Philosophy
EDMG	Education (Middle Grades—5-9)	PHYS	Physics
EDSE	Education (Secondary)	PLS	Paralegal Studies
EDSP	Education (Special)	PSY	Psychology
EDUC	Education (Professional)	RAPP	Regional Analysis
EET	Electricity-Electronics Technology	RSCI	Radiologic Sciences
ENG	English	REAL	Real Estate
FIN	Finance	REL	Religion
FNA	Fine Arts	ROB	Robotics
FRN	French	RUS	Russian
GCT	Graphics Communications Technology	SCI	Science
GEO	Geography	SOC	Sociology
GEOS	Geoscience	SPA	Spanish
GER	German	SWK	Social Work
GOVT	Government	THEA	Theatre
HIS	History	VET	Veterinary Technology
HLTH	Health	VOC	Vocational Education
HON	Honors	WEL	Welding Technology
HS	Human Sciences	WST	Women's Studies
IECE	Interdisciplinary Early Childhood Education		
IET	Industrial Education and Technology		
IST	International Studies		

# Programs of Study

Subject	Degree	Program	Teacher Cert.	Page
Accounting	BBA	Option		54
Agricultural Education	BS	Area	Yes	130
Agricultural Science With Following Options:	BS	Area, Major, Minor		130
Agribusiness		Option		132
Agriculture Economics		Option		132
Agromony		Option		132
Animal Science		Option		132
General Agriculture		Option		133
Golf Course Management		Option		133
Horticulture		Option		133
Agricultural Technology With Following Options:	AAS	Associate		134
Agribusiness		Option		135
Agricultural Production		Option		135
Equine Technology		Option		135
Ornamental Horticulture		Option		135
Art	BA	Area, Major, Minor	Yes	96
Biological Science (Teaching)	BS	Area	Yes	146
Biology (Non-Teaching Major)	BS	Major, Minor		146
Business and Information Technology Education	BBA	Option	Yes	59
Business Information Systems	BBA, AAB	Option, Minor		58
		Associate		65
Chemistry	BS	Area, Major, Minor		181
Enivronmental Chemistry	BS	Option		181
Coaching		Minor		86
Communications With Following Emphasis:	BA	Area, Minor		97
Electronic Media Production and Management		Emphasis		98
Electronic Media News		Emphasis		98
Journalism		Emphasis		98
Advertising-Public Relations		Emphasis		98
Computer Information Systems		Emphasis		98
Creative Writing		Emphasis		98
Criminology (also see Sociology)		Option, Minor, Two-year		56
Early Child Education Program		Option		103
Economics		Area, Emphasis, Minor		126
Elementary Education - P-5	BA	Area	Yes	71
Middle Grades - 5-9	BA	Area	Yes	55
English	BA	Option	Yes	73
		Area	Yes	75
		Area	Yes (Area)	100
Environmental Science	BS	Area, Major		102
		Minor		147
		Area, Minor		148
		IRAPP Emphasis		

# Programs of Study

Subject	Degree	Program	Teacher Cert.	Page
Exercise Science, with options	BS	Area		91
Finance	BBA	Option		55
French	BA	Major	Yes	104
		Minor		104
Geography	BA	Major, Minor		107
		IRAPP Emphasis		107
Geology	BS	Area, Major, Minor		182
Government	BA	Major, Minor		108
		IRAPP Emphasis		109
Health Teaching	BA	Major, Minor	Yes	86
Health Promotion	BA	Major, Minor		87
History	BA	Major, Minor		110
Human Sciences With Following Options:	AAS	Associate		143
Child Development		Option		144
Hospitality Management		Option		144
Human Sciences With Following Options:	BS	Area		140
Child Development		Option		142
Dietetic		Option		142
Hotel, Restaurant, and Institutional Management		Option		143
Horsemanship		Minor		136
Industrial Technology With Following Options:	AAS	Associate		153
Construction/Mining Technology		Option		154
Electrical/Electronics Technology		Option		154
Graphic Communications Technology		Option		154
Manufacturing/Robotics Technology		Option		154
Industrial Technology with Following Options:	BS	Area, Major		154
Construction/Mining Technology		Option		155
Electricity/Electronics Technology		Option		155
Graphic Communications Technology		Option		156
Manufacturing/Robotics Technology		Option		156
Industrial Education with the Following Options:	BS	Area	Yes	158
Orientation/Exploration		Option	Yes	159
Preparation		Option	Yes	159
Interdisciplinary Early Childhood Education	BA	Area	Yes	71
Interdisciplinary International Studies		Minor		128
Interdisciplinary Women's Studies		Minor		127
Integrated Science		Minor		183
Legal Studies		Minor		112
Linguistics		Minor		102

# Programs of Study

Subject	Degree	Program	Teacher Cert.	Page
Literature		Minor		103
Management	BBA	Option, Minor		61
Marketing	BBA	Option, Minor		62
Mathematics	BS	Area, Major	Yes	160
		Minor		161
Computer Science	BS	Area		161
Mathematics - Non-Teaching	BS	Area, Major		160
Mathematics - Teaching	BS	Major	Yes	161
Statistics		Minor		161
Medical Technology	BS	Area		150
Military Science		Minor		115
Music	AB	Major, Minor		115
	BM	Area		118
		Certificate		120
Music Education	BMED	Area	Yes	115
Nursing	AAS	Associate		162
Nursing	BSN	Area, Four-year		165
Paralegal Studies	AB	Major		111
Philosophy	AB	Major, Minor		106
Physical Education	AB	Major	Yes	86
Physical Science Teaching	BS	Area	Yes	89
Physics with Following Options:				
Computational Physics				
Engineering Physics (Mechanical)				
Engineering Physics (Electrical)				
Pre-Chiropractic				149
Pre-Dentistry				149
Pre-Engineering				185
Pre-Forestry				136
Pre-Law				112
Pre-Medicine				151
Pre-Optometry				186
Pre-Pharmacy				151
Pre-Podiatric Medicine				152
Pre-Physician Assistant				152
Pre-Physical Therapy				151
Pre-Veterinary Medicine				136
Psychology	AB	Area, Major, Minor		187



# Programs of Study

Subject	Degree	Program	Teacher Cert.	Page
Radiologic Science	BS	Four-year		174
Real Estate	AAS	Associate		171
Respiratory Care	BBA	Option, Minor		63
Secondary Education	AAS	Associate	Yes	178
Social Studies	BA	Area	Yes	94
Social Work	BSW	Area		112
Social Work with Regional Analysis	BSW	IRAPP Emphasis		121
Sociology	BA	Major, Minor		123
Sociology with Regional Analysis Emphasis	BA	IRAPP Emphasis		124
Sociology (Criminology)	BA	Area, Emphasis, Minor		126
Spanish	BA	Major	Yes	125
Special Education	BA	Minor		105
Special Education (Learning and Behavior Disorders)	BA	Major	Yes	106
Special Education (Moderate and Severe Disability)	BA	Minor		77
Speech Communication	BA	Area	Yes	85
Technical & Professional Writing	BA	Area	Yes	77
Theatre	BA	Area	Yes	78
University Studies	BUS, AA	Major	Yes	81
Veterinary Technology	BA	Minor	Yes	97
Vocational Family and Consumer Science Education	BA	Minor		99
Women's Studies	BS	Major	Yes	103
		Minor		99
		Area		100
		Associate		29
		Area		137
		Minor		138
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*\*Degree abbreviations on page 26.*

# 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 the Office of Admissions. 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 Application requires applicants to report all criminal convictions, other than minor traffic violations. Juvenile offenses shall not be reported. 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 the Office of Admissions.

Requests for applications or questions concerning admissions should be directed to the Office of Admissions, Morehead State University, Morehead, KY 40351-1689, telephone (606) 783-2000, toll free 1-800-585-6781, or fax (606) 783-5038. 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 the Office of Admissions. For additional information for entering these programs contact the Office of Admissions.

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 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 Office of the Associate Vice President for Graduate and Undergraduate Programs. 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 Center for Academic Advising, 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 Center for Academic Advising (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 if applicable.

### **Admission as a Transfer Student**

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

#### **Admission Policy**

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 the Associate Vice President for Graduate and Undergraduate Programs. 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 12 semester hours of transfer credit may be admitted, at the discretion of the Director of Admissions, 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, phone (606) 783-2008

#### **Transfer of credits from Regionally Accredited Colleges**

Credits you have earned from regionally accredited colleges or universities will be accepted for transfer (but may not be accepted toward a particular degree).

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 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 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.

### **Scholarships, Grants, and Tuition Waivers**

New out-of-state transfer students may qualify for tuition rates that are almost the same as in-state rates. Minimum criteria for consideration:

1. Be admitted to MSU unconditionally;
2. Have a cumulative transfer GPA of at least 2.0;
3. Have a minimum of 12 hours of accepted transfer credits;
4. Be a new transfer student with a minimum ACT composite of 18 and living in an eligible out-of-state county that borders Kentucky or in another designated county; or
5. Be a new transfer student outside the qualifying counties with a minimum ACT composite of 20 (or SAT equivalent);
6. Be a new transfer student with an associate's degree from an accredited institution;
7. Must live in University housing.

**Criteria for renewal:** satisfactory academic progress as defined for financial aid recipients.

#### **Tuition Assistance Grant (TAG)**

Value per year varies. Minimum criteria for consideration:

1. Be unconditionally admitted to MSU as an out-of-state student;
2. Have a minimum ACT composite of 20;
3. Be admitted to MSU as a new freshman or a new transfer student (with at least 12 hours of complete college work);
4. New freshmen must have an Admission Index of 500-549 for \$1,200 award; 550-599 for \$1,500 award; 600 and over for \$2,000 award;
5. New transfer students must have a transfer GPA of 3.0 for \$1,200 award, 3.25 for \$1,500, 3.5 for \$2,000.

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

#### **Transfer Student Award**

Value varies based on Transfer Index as follows:

- 650 or higher - \$2,000
- 600-649 - \$1,500
- 550-599 - \$1,000
- 500-549 - \$750

Minimum criteria for consideration:

1. Be admitted to MSU as a transfer student from any accredited college or university;

2. Be a resident of Kentucky;
3. Have completed at least 12 hours of college work;
4. Have a minimum ACT composite of 20.

**Criteria for renewal:** maintain a minimum cumulative 3.0 GPA.

All recipients of the above scholarships, grants, and tuition waivers must agree to continuous full-time enrollment (fall and spring semesters) and continuous residence in University housing (fall and spring semesters). Recipients from Rowan and contiguous counties living at home and commuting to campus may request a waiver of the requirement to live in University housing.

The number of scholarships, grants, and tuition waivers awarded each year will depend upon the availability of funds.

### **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 Admissions: (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 and a minimum score of 82 is required on the Michigan Examination); (*Note: Students who successfully complete the English as a Second Language Program at MSU may use their graduation certificates in lieu of the TOEFL*); and (4) official verification of financial resources. You should apply at least two 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 than 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; and (4) official verification of financial resources.

**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](mailto: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 for Fall 2002**

**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.

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

**Total Credits:** 22 (15 required credits; seven 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.

By Fall 2004, students must have earned two credits in the same foreign language.

\*\*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, 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 24 credit hours. If you do not complete all developmental requirements within your first 24 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 Support and Retention.

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 the Office of Admissions a completed Undergraduate Admission and Scholarship Application, and have your high school guidance counselor’s recommendation for admission. 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 the Office of 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 at another institution, you may be eligible for admission as a visiting student. You should submit to the Office of 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 the Office of 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 14 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 2.5 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 Vice President for Graduate and Undergraduate Programs.

### **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 application for admission, 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 the Office of Admissions 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 College, Hazard Community College, Maysville Community College, Prestonsburg Community College, and Southeast Community College. For more information, contact the Office of Admissions (606) 783-2000 at Morehead State University or the admissions offices at the community 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, phone (606) 783-2008.

# Housing Fee Schedule

## Residence Hall Rates

	Semester	Summer		Semester	Summer
<b>Women's Halls</b>			<b>Co-educational Halls</b>		
Mignon	\$1,078.00	\$323.00	Butler (Honors Leadership Residential College)	\$1,008.00	\$306.00
Nunn	\$1,078.00	\$323.00	Cartmell	\$1,053.00	\$314.00
Regents (freshmen)	\$1,053.00	\$314.00	East Mignon (freshmen residential college)	\$1,078.00	\$323.00
Thompson	\$1,160.00	\$338.00	Fields	\$1,160.00	\$338.00
<b>Men's Halls</b>			Mignon Tower	\$1,078.00	\$323.00
Alumni Tower	\$1,053.00	\$314.00	West Mignon	\$1,078.00	\$323.00
Cooper	\$1,053.00	\$314.00	University Farm	\$439.00	
Gilley Apartments (fraternity only)	\$1,160.00	\$338.00	(Plus Ag. Dept. work assignments)		
Wilson (freshmen)	\$1,053.00	\$314.00	Mays Hall Apartments*	\$280.00 per month	

- Rental rates are established for **standard occupancy** of two persons per room or four persons per suite.
- Rates are based on the 2002-03 fee schedule and **do not** include time periods when the residence halls are closed (i.e. Thanksgiving, Holiday Break, Spring Break, semester breaks, etc.). An additional fee is charged for students remaining on campus during these time periods.
- Room rent for each term is due in full at the beginning of the

term. Rates include telephone service and basic television cable. Deposit (refundable) \$100.00.

\*Mays Hall Apartments are offered on the priority basis to: (1) non-traditional students (23 years of age and older), (2) graduate students, (3) students needing year-round housing with priority given to full-time upper class students, and (4) married couples. Rates subject to change. Rent is due by the 10th of each month.

## Family Housing

Deposit (refundable) .....	\$100.00
One bedroom (air-conditioned - furnished) per month .....	\$307.00
One bedroom (air-conditioned - unfurnished) per month .....	\$275.00
One bedroom (furnished) per month .....	\$260.00
One bedroom (unfurnished) per month .....	\$235.00
New Lakewood Terrace: one bedroom apartment (furnished) per month .....	\$500.00
New Lakewood Terrace: two bedroom apartment (furnished) per month .....	\$700.00

*Rates include utilities, telephone, and basic TV cable. Monthly rental rates are due by the 10th of each month.*

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



## 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.

**Scholarships** are generally awarded on the basis of academic achievement or special talent. They 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 Programs** provide part-time employment for eligible students to help with educational expenses. The work schedule is built around the student's academic schedule.

Students or prospective students with questions related to their residency for fee assessment purposes should contact the Office of Admissions for additional information or for the necessary forms used in making a determination.

## Fees

### Housing

Housing is provided in 13 residence halls and nearly 108 family housing units. All residence halls and family housing apartments are within less than a 10-minute walk of on-campus classrooms.

Residence hall room rental ranges from \$1,008 to \$1,160 per semester. Family housing accommodations range from \$215 to \$350 per month. (These are 2002-03 rates.)

All single, full-time undergraduate students who are under the age of 21 and have earned fewer than 60 hours of college credit must live in University housing and purchase a meal plan of their choice each semester. Single parents with custody of a child, married students, veterans, transfer students with 60+ credit hours, and students commuting from their parent's home address, may qualify for a waiver of this policy. **Housing/Dining waiver requests must be approved by the close of business on the last day before registration. Students applying for the waiver after this deadline may be assessed mandatory fees based on the University's refund policy.** (See refund policy section.) When you complete the Residence Hall Application/Data Sheet, you may indicate the residence hall in which you wish to live and the person(s) you would like to have for a roommate. (All roommate requests must be a mutual request.) Requests for room/roommate changes may be made after the semester begins. **All changes** must be approved by the Office of Student Housing.

Prospective students may apply for University housing by indicating on the admissions application their intent to reside on campus or online via the MSU Web site at [www.moreheadstate.edu](http://www.moreheadstate.edu).

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 \$100 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 additional information about housing, contact the Office of Student Housing, Morehead State University, UPO Box 2525, Thompson Hall, Morehead, KY 40351-1689, telephone (606) 783-2060, fax (606) 783-

5062, or online at [www.moreheadstate.edu/units/housing](http://www.moreheadstate.edu/units/housing). Every effort is made to hold costs to a minimum. If you are a student with less than 60 credit hours, you pay only the registration, housing, and meal fees and a few minor incidental fees when you register at the beginning of each semester. If you are a student with 60 credit hours or more, you pay only the registration and housing fees and a few minor incidental fees when you register at the beginning of each semester. Books and supplies can be purchased at reasonable prices at the University Bookstore. Books may be sold back to the store at the end of the semester. Meals are purchased either on a pay-as-you-go basis or in advance through a Dining Club membership.

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

As a matter of policy, access to higher education is provided so far as feasible at reasonable cost to residents of the state. It is the long-standing practice of the Council on Postsecondary Education to require students who are not Kentucky residents to meet higher admission standards and 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 or graduate students who enroll for nine hours or more during fall and spring terms. 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 and graduate students taking nine-12 credit hours. An additional per credit hour fee will be charged to undergraduate students enrolled for more than 18 credit hours and to graduate students enrolled for more than 12 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 tuition**

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

## **Financial Information**

Tuition and mandatory fees (2002-03) per academic semester for full-time Kentucky resident undergraduate students are \$1,463. For full-time undergraduate students who are not residents of Kentucky, tuition and mandatory fees are \$3,890. For out-of-state students who live in an eligible county or otherwise qualify, tuition and mandatory fees are \$1,563.

For part-time Kentucky residents, tuition and mandatory fees are \$122 per semester hour of credit, while for those part-time undergraduate students who are not residents of Kentucky, it is \$325 per semester hour of credit. All fees are subject to change.

The rates above should include the Student Activity and Service Fee. The full-time rates apply to undergraduate students enrolled for 12-18 credit hours. Additional credit hour fees, as listed above, will be charged to undergraduate students enrolled for more than 18 credit hours and to graduate students enrolled for more than 12 credit hours.

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.

### Registration Billings

Billings will be mailed approximately three to four weeks prior to registration to those students who advance register for classes. If you advance register for your classes, you have the following options in completing the registration process:

1. Pay your fees in advance and avoid Business Days;
2. Pay your fees at Business Days;
3. Pick up a refund check, due as a result of financial aid awarded in excess of your fees;
4. Make arrangements for payment of your fees through deferred payment with the Office of Accounting and Budgetary Control at the time of Business Days.

Morehead State University accepts the following methods of payment:

- |               |                      |
|---------------|----------------------|
| 1. Cash       | 6. American Express  |
| 2. Check      | 7. Discover          |
| 3. MasterCard | 8. Deferred Payment* |
| 4. Visa       | 9. Financial Aid     |
| 5. Online Web |                      |

#### Procedures for payment of your balance due

Balance due payments may be paid by:

1. Pay by phone prior to Business Days at (606) 783-2849.
2. Pay by phone during Business Days at (606) 783-5212.
3. Mail balance due, addressed to Morehead State University, Office of Accounting and Budgetary Control, 207 Howell-McDowell Administration Building, Morehead, KY 40351-1689. Mail payment so that it can reach our office by the Friday prior to "Business Days" or,
4. Pay in person at one of the Extended Campus Centers (by the last day of "Business Days."). Or, pay by phone at a number listed below. Payment by phone must be prior to Business Days.

#### MSU at Ashland

Ashland, KY  
800-648-5370  
(606) 327-1777

#### MSU at Jackson

Jackson, KY  
800-729-5225  
(606) 666-2800

#### MSU at Prestonsburg

Prestonsburg, KY  
800-648-5372  
(606) 886-2405

#### MSU at West Liberty

West Liberty, KY  
800-648-5371  
(606) 743-1500

If you are expecting some type of financial aid or

## 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 80 percent of the students attending MSU receive scholarships or financial aid.

The type and amount of financial aid is generally based upon demonstrated financial need, academic

achievement, test scores, and other personal 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, 305 Howell-McDowell, 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 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.

student loan to pay your balance due, check in the Directory of Classes for details concerning deferment, loans, financial aid, and Campus or Extended Campus dates, times or questions that you may have. Pay online at [www.moreheadstate.edu](http://www.moreheadstate.edu).

If you have any questions please contact the Office of Accounting & Budgetary Control at (606) 783-2019, or write to us at the following address:

**Morehead State University**  
**Office of Accounting and Budgetary Control**  
**207 Howell-McDowell Administration Bldg**  
**Morehead, KY 40351**

**Or send E-mail to: [fees@moreheadstate.edu](mailto:fees@moreheadstate.edu)**

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.

### **Refunds**

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

#### **Fall or Spring Semester Refund Adjustments**

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

Percent Refund

First five class days* of the semester	75%
Next ten class days of the semester	50%
Next five class days of the semester	25%

No refunds are given after the first 20 days of the semester.

\*Class days begin the first day of the semester.

### **Summer Session Refund Adjustments**

**On-campus/ Extended Campus**

Percent Refund

First two class days* of the session	75%
Next four class days of the session	50%
Next two class days of the session	25%

No refunds are given after the first eight days of the session.

\*Class days begin the first day of the session.

Adjustable fees include tuition, housing, and course fees.

### **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**

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 comple-

tion for this purpose is defined as receiving a grade of “D” or better.

2. If one-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 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, R, U, N, W, WP, or WF.
3. For undergraduate students, grades of E, F, I, IP, R, U, N, 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 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 sup-

porting 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 immediately 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 priority filing deadline is March 15. The following are descriptions of the scholarships awarded through the Office of Financial Aid.

#### **Presidential Scholarship**

Value per year varies with a maximum of \$6,000. To qualify you must be admitted to MSU as an entering freshman and meet one of the following criteria:

1. Be a National Merit Scholar or Finalist; \$6,000.
2. Be a valedictorian or salutatorian from MSU’s Kentucky service region, with an ACT composite of at least 30; \$5,000.
3. Be a National Merit Semi-Finalist or a Kentucky Governor’s Scholar (who has successfully completed the Governor’s Scholars Program) with an ACT Composite of at least 28; \$4,000.
4. Other applicants with a minimum GPA of 3.75 and a minimum ACT Composite of 28 or any Kentucky Governor’s Scholars (who has successfully completed the Governor’s Scholars Program) will be considered for awards that range from \$2,000 to \$4,000.

**Criteria for renewal:** Achieve a minimum cumulative 3.0 GPA during each of the first two semesters

and a minimum cumulative 3.25 GPA for each semester thereafter.

*Note: Students awarded the Presidential Scholarship are required to participate in the Leadership Program.*

### **Regional Honors Scholarship**

Value per year varies as follows:

- Highest ranking ACT composite of 27 or higher-\$3,000, second highest ranking-\$2,500;
- Highest ranking ACT composite of 25 or higher-\$2,500, second highest ranking-\$2,000
- Highest ranking ACT composite of 20 or higher-\$2,000, second highest ranking-\$1,500.

Minimum criteria for consideration:

1. Be admitted to MSU as an entering freshman.
2. Be a graduate of a high school within MSU's Kentucky service region.
3. Be recommended by high school.
4. Be the highest ranking or second highest ranking academic achiever coming to MSU from that high school.
5. Have at least a cumulative 3.5 high school GPA (on a 4.0 scale) based on seven semesters of work.

**Criteria for renewal:** Achieve a minimum cumulative 3.0 GPA during each of the first two semesters and a minimum cumulative 3.25 GPA thereafter.

*Note: Students awarded the Regional Honors Scholarship are required to participate in the Leadership Program.*

### **Regents Scholarship**

Value per year varies based on Admissions Index as follows:

- 650+ - \$2,000
- 600-649 - \$1,500
- 550-599 - \$1,000
- 500-549 - \$750

To qualify, you must be admitted to MSU as an entering freshman, meet the Admissions Index as stated above, and have a minimum ACT composite of 20.

**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.

### **Tuition Waivers and Grants for New Out-of-State Students**

New, out-of-state, first-time, freshmen students may qualify for tuition rates that are almost the same as in-

state rates. Minimum criteria for consideration:

1. Be admitted to MSU unconditionally;
2. Be an out-of-state student with a minimum of 18 ACT composite (or SAT equivalent) living in a county that is on Kentucky's border or in another designated county; or
3. Be a child or grandchild of an active MSU alumnus with a minimum 18 ACT composite (or SAT equivalent); or
4. Be an out-of-state student with a minimum ACT composite score of 25 (or SAT equivalent).

New, out-of-state transfer students may also qualify for these out-of-state tuition waivers. Minimum criteria for consideration:

1. Be admitted to MSU unconditionally;
2. Have a cumulative transfer GPA of at least 2.0;
3. Have a minimum of 12 hours of accepted transfer credits;
4. Be a new transfer student with a minimum ACT composite of 18 and living in a county that borders Kentucky or in another designated county; or
5. Be a new transfer student outside the qualifying counties with a minimum ACT composite of 20 (or SAT equivalent).

### **Tuition Assistant Grant (TAG)**

Value per year varies.

Minimum criteria for consideration:

1. Be admitted to MSU as an **out-of-state** student;
2. Have a minimum ACT composite of 20;
3. Be admitted to MSU as a new freshman, or a new transfer student (with at least 12 hours of completed college work);
4. New freshmen must have an Admission Index of 500-549 for \$1,200 award; 550-599 for \$1,500 award; 600 and over for \$2,000 award;
5. New transfer students must have a transfer GPA of 3.0 for \$1,200 award, 3.25 for \$1,500, 3.5 for \$2,000.

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

### Transfer Student Award

Value varies based on Transfer Index as follows:

- 650+ - \$2,000
- 600-649 - \$1,500
- 550-599 - \$1,000
- 500-549 - \$750

Minimum criteria for consideration:

1. Be admitted to MSU as a transfer student from any accredited college or university;
2. Be a resident of Kentucky;
3. Have completed at least 12 hours of college work;
4. Have a minimum ACT Composite of 20.

**Criteria for renewal:** Maintain a minimum cumulative 3.0 GPA.

### Alumni Award

\$500 or \$750 value per year.

Minimum criteria for consideration: To be considered for the Alumni Award, at least one parent or grandparent of the applicant must be an active member of the MSU Alumni Association (as defined and certified by the Office of Alumni Relations). **In addition, the applicant must:**

1. Be admitted to MSU as an entering freshman or transfer student;
2. Have a minimum ACT Composite of 18 for a \$500 award; 20 for a \$750 award;
3. Have an Admissions Index of at least 500; transfer students must have at least a cumulative 3.0 GPA (on a 4.0 scale) for the equivalent of at least one full term.

### 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 grade-point average 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.

**Criteria for renewal:** Achieve a minimum cumulative 2.75 G.P.A. during each of the first two semesters and a minimum cumulative 3.0 GPA for each semester thereafter. Transfer students must maintain a minimum 3.0 GPA.

### Minority Student Leadership Award

\$650 value per year.

Minimum criteria for consideration:

1. Be admitted to MSU as an entering freshman;
2. Be an individual whose predominant ethnic background is African American, Hispanic, American Indian or Alaskan native, Asian, or Pacific Islander;
3. Be a Kentucky resident;
4. Have demonstrated achievement in academic and/or extracurricular activities.

**Criteria for renewal:** Maintain a minimum cumulative 2.5 GPA.

### Leadership Award

\$650 value per year.

Minimum criteria for consideration:

1. Be admitted to MSU as an entering freshman;
2. Have exhibited strong leadership and achievement capabilities in school and community activities;
3. Have a minimum ACT Composite of 18;
4. Have a minimum 2.5 high school GPA based on seven semesters of work.

**Criteria for renewal:** Maintain a minimum cumulative 2.5 GPA.

### Information for Scholarship Applicants

*All recipients of the above scholarships, grants, and waivers must agree to continuous full-time enrollment (fall and spring semesters) and continuous residence in University housing (fall and spring semesters). Recipients from Rowan and contiguous counties living at home and commuting to campus may request a waiver of the requirement to live in University housing. 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, Morehead State University, UPO Box 697, 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 \$150 per school month. Contact the Professor of Military Science, MSU, UPO Box 1361, 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.

**Northeast Kentucky Hospital Foundation Nursing Student Scholarship.** For needy students from Northeast Kentucky who demonstrate acceptable academic achievement. 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, UPO Box 698, 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, or sociology 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, Lloyd Cassity 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 \$4,000 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 \$1,260 per academic year.

**Work-Study Programs.** The work-study programs provide salaried work in a variety of offices and departments at the University; participants are paid every two weeks. 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 \$4,500 for the first two years of study, with a maximum of \$9,000 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 stepparents 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, PO 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 Subsidence Allowance.** For eligible individuals enrolled in advanced military science classes. Consists of a tax-free allowance of \$200 per school month. Contact the Professor of Military Science, MSU, UPO Box 1361, Morehead, KY 40351-1689, telephone (606) 783-2050.

## Scholarships and Awards Renewal

Scholarships and awards may and often do require higher standards for renewal. Please consult your award information and the University's renewal guidelines regarding your particular scholarship award. 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
<b>Presidential Scholarship</b> up to \$6,000 per year	3.00	3.25
<b>Regional Honors Scholarship</b> up to \$3,000 per year	3.00	3.25
<b>Regents Scholarship</b> up to \$2,000 per year	2.75	3.00
<b>Tuition Assistance Grant</b> up to \$2,000 per year	2.75	3.00
<b>Transfer Student Award</b> up to \$2,000 per year	3.00	3.00
<b>Alumni Award</b> up to \$750 per year	2.75	3.00
<b>Minority Student Leadership Award</b> \$650 per year	2.50	2.50
<b>Leadership Award</b> \$650 per year	2.50	2.50

# 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 Sciences
- AS—Associate of Science
- BA—Bachelor of Arts
- BBA—Bachelor of Business Administration
- BM—Bachelor of Music
- BMED—Bachelor of Music Education
- BS—Bachelor of Science
- BS—Bachelor of Science in Radiologic 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 6-9 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.

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 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.

### \*General Education Courses

#### I. Required Core ..... 15 hours

*Writing I (100 level) — 3 hours*

ENG 100—Writing I ..... 3

*Oral Communications (100 level) — 3 hours*

CMSP 108—Fundamentals of Speech

Communication ..... 3

*Math Reasoning (100 level) — 3 hours*

*Choose one course from the following list:*

MATH 123—Introduction to Statistics;

MATH 131—Mathematics Reasoning and

Problem Solving;

MATH 135—Mathematics for Technical Students;

MATH 141—Plane Trigonometry;

MATH 152—College Algebra;

MATH 174—Precalculus Mathematics; or

MATH 175—Analytic Geometry and

Calculus I ..... 3

*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 and

Publication Techniques I;

EDUC 222—Computing Tools for Educators;

MUSE 215—Microcomputers and Music; or

RAPP 200—Basic Computer Techniques

in Regional Analysis, or

SCI 110—Introduction to Scientific

Computing

*Writing 2 (200 level)—3 hours*

ENG 200—Writing II ..... 3

Area Studies. Choose from PL, HUM, S&BS, or

NM ..... 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.

Morehead State University

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 383—Small Group Communication  
CMSP 390—Conflict and Communication  
ENG 205—Language: Culture and Mind  
ENG 211—Introduction to World Literature I  
ENG 212—Introduction to World Literature II  
ENG 220—Approaches to Literature  
ENG 293—Introduction to Creative Writing  
FNA 160—Understanding the Visual Arts  
FRN 101—Beginning French I  
FRN 205—French Culture and Civilization  
GOVT 180—Introduction to Political Theory  
GOVT 230—Introduction to Comparative Politics  
HIS 201—Global Studies  
HIS 202—American 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  
SPA 101—Spanish Language and Culture I  
SPA 102—Spanish Language and Culture II  
THEA 110—Introduction to the Theatre

**B. Natural and Mathematical Sciences ..... 9 hours**

*Choose three courses from the following list:*

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 111—Principles of Chemistry I  
GEO 101—Physical Geography  
GEOS 106—Introduction to Geology  
GEOS 108—Physical Geology  
MATH 232—Math 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 231—Engineering Physics I

SCI 103—Introduction to Physical Sciences  
SCI 104—Modern Issues and Problems in  
the Physical Sciences  
SCI 109—Physical Science for Elementary Teachers

**C. Social and Behavioral Sciences ..... 9 hours**

*Choose three courses from the following list:*

AGR 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  
GEO 100—Fundamentals of Geography  
GEO 300—World Geography  
GOVT 141—United States Government  
GOVT 230—Introduction to Comparative Politics  
GOVT 362—Current World Problems  
HIS 210—Early World Civilization  
IET 300—Technology and Society  
NAHS 300—Ethical and Legal Issues  
in Health Care  
PSY 154—Introduction to Psychology  
PSY 156—Lifespan Development Psychology  
RAPP 201—Introduction to Regional Analysis  
SOC 101—General Sociology  
SOC 203—Contemporary Social Problems  
SOC 305—Cultural Anthropology  
SOC 354—The Individual and Society  
WST 273—Introduction to Women’s Studies

**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 in 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  
NAHS 302—Health Maintenance  
Throughout the Lifespan  
NAHS 303—Women’s Health Care  
NAHS 304—Men’s Health Issues  
NAHS 345—Global Health  
PLS 226—Law for the Layperson

\*For a listing of the General Education Goals see the appendix on page 275.

\*\*Diverse courses may be proposed for the Practical Living category. For example, this category could include courses that promote health and well being or personal financial management.

**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 Speech
- CRIM 499C—Senior Criminology Capstone
- EDSE 499C—Teacher in Today’s Schools (2 hrs)
- 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—Senior Capstone
- MNGT 499C—Business Policies and Problems
- MSU 499C—Senior Seminar
- MUSP 498C—Senior Recital
- MUSP 499C—Senior Recital
- NURB 499C—Advanced Nursing Practicum
- PHED 499C—Senior Capstone
- PHIL 499C—Senior Seminar in Philosophy
- PSY 499C—Systems and Theories
- PLS 499C—Senior Paralegal Practice Seminar
- SCI 498—Senior Thesis I
- SCI 499C—Senior Thesis II
- SOC 499C—Senior Seminar
- SPA 499C—Senior Seminar in Spanish
- SWK 497—Practicum in Social Work
- SWK 498—Social Work Practice Skills III
- SWK 499C—Senior Seminar
- THEA 499C—Senior Seminar Theatre

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 Center for Academic Advising, 222 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 18 semester hours of general education requirements as follows:

**General Education Courses**

**Writing I (100 level) ..... 3 hours**

ENG 100—Writing I

**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—Mathematics Reasoning and Problem Solving

MATH 135—Mathematics for Technical Students

MATH 141—Trigonometry

MATH 152—College Algebra

MATH 174—Precalculus, or

MATH 175—Analytic Geometry and 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 and Publication Techniques I

EDUC 222—Computing Tools for Educators

MUSE 215—Microcomputers and Music

RAPP 200—Basic Computer Techniques in Regional Analysis;

SCI 110—Introduction to Scientific Computing

**Writing 2 ..... 3 hours**

ENG 200—Writing II

**Humanities ..... 3 hours**

*Choose one course from the following list:*

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 383—Small Group Communication

CMSP 390—Conflict and Communication

ENG 205—Language: Culture and Mind

ENG 211—Introduction to World Literature I

ENG 212—Introduction to World Literature II

ENG 220—Approaches to Literature

ENG 293—Introduction to Creative Writing

FNA 160—Understanding the Visual Arts

FRN 101—Beginning French I

FRN 205—French Culture and Civilization

GOVT 180—Introduction to Political Theory

GOVT 230—Introduction to Comparative Politics

HIS 201—Global Studies

HIS 202—American 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

SPA 101—Spanish Language and Culture I

SPA 102—Spanish Language and Culture II

THEA 110—Introduction to the Theatre

**Social and Behavioral Sciences ..... 3**

*Choose one from the following list:*

AGR 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

GEO 100—Fundamentals of Geography

GEO 300—World Geography

GOVT 141—United States Government

GOVT 230—Introduction to Comparative Politics

GOVT 362—Current World Problems

HIS 210—Early World Civilization

IET 300—Technology and Society

NAHS 300—Ethical and Legal Issues in Health Care

PSY 154—Introduction to Psychology

PSY 156—Lifespan Development Psychology

RAPP 201—Introduction to Regional Analysis

SOC 101—General Sociology

SOC 203—Contemporary Social Problems

SOC 305—Cultural Anthropology

SOC 354—Individual and Society

WST 273—Introduction to Women’s Studies

**Associate of 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, Center for Academic Advising, 222 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 as-

essment activities. For further information about requirements, contact the Office of Undergraduate Programs, 201 Ginger Hall, (606) 783-2004.

# **Academic Regulations and Procedures**

## **Registration**

To register, you must be admitted to the University. Registration packets for new students are available at the Office of Admissions, 301 Howell-McDowell Administration Building.

## **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.

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 Admissions.

## **Advance Registration**

Students currently enrolled are encouraged to advance register for courses for the following semester or summer term. Complete instructions are published in the term's Directory of Classes.

## **Late Registration**

Students are encouraged to register according to the timetable in the published Directory of Classes. Late registrants are assessed a \$50 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, 301 Howell-McDowell. 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 the department chair in which the class is offered 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 unusual 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 with a GPA of at least 2.5 may enroll concurrently in courses for graduate credit according to the following limitations:

Undergraduate Credit Needed for Degree Completion	Graduate Credit Allowed
9	3
6	6
3	9

If the work for a baccalaureate degree is being completed during a summer term, the combined course load

may not exceed six hours. Application forms are available in the Office of Graduate Programs, 701 Ginger Hall. Approval must be granted prior to registration.

### 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.

### **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 ex-

cuse the student from class responsibilities. Some examples of reasons to 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.

If the instructor has determined that class participation is necessary for the student to meet course objectives, all students will abide by the attendance policy applicable to that course.

### **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). “I” is calculated as an “E” in computation of GPA for the current term.

**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; 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 to-

ward 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 64 hours at MSU and earn a cumulative 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

At the end of each semester and summer term, a final grade report is sent to you at your permanent address. Midterm grade reports are not mailed, but should

be picked up from your advisor. There are no midterm grade reports for summer terms.

### Transcripts

Request official transcripts in writing to the Office of the Registrar, 201 Ginger Hall or online at [moreheadstate.edu](http://moreheadstate.edu). Requests received by noon are ready for pickup or mailing by noon of the next working day. Official transcripts are \$2 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 276 for the full text of the regulation regarding access to records.

### Scholastic Standing

*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.

**Probation.** Students failing to meet the scholastic standards listed above are placed on academic probation. 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 GPA. Students enrolled on academic probation are subject to academic suspension if they fail to attain the minimum standards listed above. A student on academic probation is allowed continued enrollment on a semester-by-semester

probationary status as long as a 2.0 GPA is maintained each term. A student on academic probation 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 probation should retake as many classes as possible in which they earned a grade of “E,” “D,” or “U.” Students on probation will be required to meet with their advisor for academic counseling. Students on probation for a second successive semester must enroll in MSU 099.

**Suspension.** A student will be suspended from the University following two consecutive probationary semesters. The dismissal period following a fall semester is the spring semester; following a spring semester the dismissal period is the fall semester. During a dismissal period, a student will be ineligible to enroll for any credits at Morehead State University.

A student who is suspended under this policy may:

1. Re-enroll after the lapse of one semester (excluding summer school); or
2. 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. Requests for appeals are made in writing to the Office of the Dean of Undergraduate Programs, 201 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 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 parties 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 employ-

ees 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 workshop) 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 Guide*, *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 letter 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 receiving 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**

### **Extended Campus Centers**

Morehead State University maintains four extended campus centers in Ashland, Jackson, Prestonsburg, and West Liberty, Ky., 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.

#### **MSU at Ashland**

1401 Winchester Avenue

Ashland, KY 41101

(606) 327-1777 or 800-648-5370

BA (Elementary Education)

BBA (Accounting and Management)

BSN (RN Track)

Bachelor of University Studies



**MSU at Jackson**

1170 Main Street  
Jackson, KY 41339  
(606) 666-2800 or 800-729-5225  
BA (Elementary Education)  
BBA (Management)  
Bachelor of University Studies

**MSU at Prestonsburg**

719 University Drive  
Prestonsburg, KY 41653  
(606) 886-2405 or 800-648-5372  
BA (Elementary Education)  
BBA (Accounting and Management)  
BSN (RN-BS Track)  
Bachelor of Social Work  
Bachelor of University Studies

**MSU at West Liberty**

155 Continental Drive  
West Liberty, KY 41472  
(606) 743-1500 or 800-648-5371  
Associate of University Studies

**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.

**Regional Sites**

Undergraduate classes are also offered at various locations throughout the University's service region. Courses are offered in Maysville, Mt. Sterling, Hindman, 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 Support and Retention**

The Office of Academic Support and Retention operates as a unit within the Office of Academic Outreach and Support, phone (606) 783-2062. It comprises five distinct academic support programs: Center for Academic Advising, Center for Academic Services, Career Services, First Year Programs, and Provisional Studies Program,

**The Center for Academic Advising**

This office provides academic advising to those students who are undecided about a college major, seeking a two-year or four-year University Studies degree, or not currently seeking a degree. The professional advisors encourage and assist students in exploring various academic, career, and life choices as they relate to deciding upon an academic program. The staff helps students become familiar with the various resources available at MSU. For more information or assistance, call (606) 783-2084.

**Center for 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, note-takers, and tutoring. The staff coordinates efforts to address the accessibility needs and class accommodations with instructors of stu-

dents with physical or learning disabilities. For 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 Planning Classes.** 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. 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.

### **Career Services**

The Office of Career Services, 322 Allie Young Hall, provides a full range of career-related services for current students and alumni. Services include career counseling, vocational testing, job search workshops, cooperative education placements, resume development and evaluations, videotaped interviews, and access to an extensive career resource library and Web site. A one-hour credit course, MSU 400, is offered to assist graduating seniors in the job search process. Graduating students also have access to national and regional job vacancy lists, on-campus interview opportunities, on-campus and online job fairs, and development of personal credential files. Students are welcome to visit the office any weekday between 8 a.m. and 4:30 p.m. if they desire help with career concerns or call (606) 783-2233 to

make an appointment for individual help.

### **Office of First Year Programs**

The Office of First Year Programs 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. 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 Program staff. 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 every two or three weeks.

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) 783-2084.

## **Instructional Support**

### **Academic Advisement 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 Center for Academic Advising, 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 genera-

tion 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.

### **Writing Center**

The Writing Center, located in the Combs Building, Room 402, is staffed by trained readers who can talk with students about writing assignments, discipline-specific writing conventions, topic development, drafts, revision, or usage questions. The Writing Center offers MSU students a supportive resource center staffed by people who can talk with them about any and all of the writing they're attempting across the curriculum.

### **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.

### **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 also helps link these students to academic and campus resources for concerns such as study habits, time management, family, career, and financial needs.

### **Computer Resources**

Morehead State University, through the Office of Information Technology, provides a variety of computing resources in support of instructional, administrative, alumni and research activities. For instructional purposes, the University provides access through three Hewlett-Packard minicomputers and 2000+ microcomputers on

35 local area networks. Full access to national and international networks is provided via the Internet and the World Wide Web. The University supports administrative functions with a Hewlett-Packard K350.

There are numerous devices strategically located throughout the campus to give students, faculty, and staff convenient access to these computing resources. Information Technology staff provide seminars to train users in the effective use of various 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, including overseas travel. 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.

### Testing Center

The Testing Center provides testing services to the University and the region. Testing is conducted on a daily basis by appointment. 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 perma-

nent 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](http://www.collegeboard.org).

<b>Examination</b>	<b>Equivalent MSU Course</b>
Biological Sciences .....	BIOL 105
Physical Sciences .....	SCI 103
Math Skills .....	MATH 131
Fine Arts .....	FNA 160
Social Sciences .....	SOC 101
History .....	HIS 201 or HIS 210
American Government .....	GOVT 141
American History I .....	HIS 220
American History II .....	HIS 202
Analysis & Interp. of Literature ....	ENG 202
Topics in Literature .....	ENG 220
Calculus with Elem. Functions .....	MATH 175
College Algebra .....	MATH 152
College French, Level I & II .....	FRN 101, FRN 102
College German, Level I & II .....	GER 101, GER 102
College Spanish, Level I & II .....	SPA 101, SPA 102
Freshman Coll. Comp. & Portfolio.	ENG 100
General Biology .....	BIOL 105
General Chemistry .....	CHEM 101
Human Growth & Development....	EDF 211
Introductory Psychology .....	PSY 154
Introductory Business Law .....	MNGT 261
Introductory Educ. Psychology .....	EDF 311

## Morehead State University

Principles of Accounting .....	ACCT 281
Principles of Busn. Management ...	MNGT 160
Principles of Macroeconomics .....	ECON 201
Principles Marketing .....	MKT 304
Principles of Microeconomics .....	ECON 202
Introductory Sociology .....	SOC 101
Trigonometry .....	MATH 141
Western Civilization I .....	HIS 210
Western Civilization II .....	HIS 110

Physics C .....	PHYS 202 and PHYS 202A
Psychology .....	PSY 154
Spanish Language .....	SPA 101
Spanish Literature .....	SPA 102
U. S. History .....	HIS 220

### 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
Biology .....	BIOL 105
Chemistry .....	CHEM 101
Computer Science .....	CIS 101
Economics/Macroeconomics .....	ECON 201
Economics/Microeconomics .....	ECON 202
English Language & Composition .....	ENG 100
English Literature & Composition .....	ENG 220
European History .....	HIS 201
French Language .....	FRN 101
French Literature .....	FRN 102
German Language .....	GER 101
Government & Policies: Comparative .....	GOVT 230
Government & Policies: U. S. ....	GOVT 141
Latin .....	LAT 101
Math Calculus AB .....	MATH 175
Math Calculus BC .....	MATH 275
Music: History & Literature .....	MUSH 162
Music: Theory .....	MUST 101
Physics B .....	PHYS 201 and PHYS 201A

### 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.
- 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. Con-

tact the Testing Center, 501A Ginger Hall, (606) 783-2526 for information about the exam.

### **University Counseling Center**

The University Counseling Center (UCC), located in 112 Allie Young Hall, provides psychological services to enrolled students. The staff consists of a staff psychologist, substance abuse educator, and counselors.

Services provided to students include individual and group counseling and psychotherapy, and outreach programming for substance abuse education. Programs and services provide a critical resource for students as they face stressful adjustments to academic life, interpersonal relationships and personal development. All counseling communication and records are held with strict confidentiality to ensure student privacy.

Services are available from 8 a.m. to 4:30 p.m., Monday through Friday with evening appointments scheduled as needed.

**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 assertiveness training, stress management, depression, eating disorders, and dealing with roommate conflicts. Special-need support groups are provided. Call (606) 783-2123 for information.

**Substance Abuse Education.** The UCC provides a variety of educational programming addressing issues related to alcohol and drug abuse. The substance abuse educator 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.

**Student Wellness Office and Peer Education Program.** This program is designed to contribute to the development of a healthy and satisfying lifestyle for members of the University community. Trained student volunteers give 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; tolerance and dealing with differences; and stress. The office is also a resource center for handouts, other speakers, and information on other health and wellness topics.

### **Minority Student Affairs**

The office provides assistance and support to minority students at MSU. Coordination of campus activities is conducted throughout the year to ensure inclusion of educational, cultural, and social programs for minority students. Minority student adjustment and retention are promoted by assisting student leadership and advising individuals and organizations on student life/personal development goals. Through these efforts, the office provides cultural enrichment and academic support for minority students while increasing cross-cultural understanding for the total campus community.

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### **International Student Services**

The Counselor for International Students 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 International Counselor when:

1. applying to extend or change visas;
2. transferring to or from the University;
3. dropping classes below a full-time enrollment;
4. leaving the University for any reason;
5. accepting part-time employment for the first time or engaging in summer employment;
6. changing residence;
7. seeking practical training or its extension; and
8. obtaining Social Security forms.

The counselor for international students is available at 330 Allie Young Hall, phone (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, phone (606) 783-2024.

### **English Language Center**

Morehead State University's English as a Second Language Program is operated by the English Language Center (ELC). Students take intensive courses in grammar, reading, writing, conversation, listening comprehension, and developmental speech. Students take an average of 20 hours of classes per week for each semester. Students are tested for English proficiency and placed into the level of study that matches their needs. The ELC classes are very small, averaging 10-12 students each.

This makes it possible for instructors and tutoring assistants to give special personal attention to each student. Students are encouraged to participate in all University activities. Students who successfully complete advanced-level studies at the ELC are able to enroll at MSU without the prerequisite international English Language Proficiency Exam. For further information contact the English Language Center at (606) 783-2015.

### **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. Active members receive several benefits such as discounts on concert tickets and season football or basketball tickets, a financial aid program for dependent children, and invitations to special events and activities.

The Alumni Association plans and coordinates Homecoming weekend in October of each year for alumni to return to MSU for a variety of activities.

### **Camden-Carroll Library**

Camden-Carroll Library (CCL) is the information center of Morehead State University. The library's collection of books, periodicals, government documents, electronic databases, and other non-print media supports the University's curriculum and provides a wealth of resources to meet students' research, recreation, and personal enrichment needs. Print materials not owned by CCL may be requested through interlibrary loan.

"Information literacy" may be identified as a set of skills necessary to compete in today's service-oriented economy. The library affords students the opportunity to develop these skills through hands-on-experience with sophisticated information storage and retrieval systems. An online catalog of Library holdings is provided through UNICORN, CCL's automated system, WEBCAT, a Web-based version of the catalog, allows live links to Internet sources. A variety of online databases, indexes, and electronic journals is available through FirstSearch. All these resources are accessible to MSU faculty, staff, and students at the library and

through the campus network. Library staff members are available to recommend sources and to help define research needs and suggest search strategies.

The Learning Resource Center, First Floor Tower, supplies audio-visual materials and is the site of one of the University's microcomputer labs. The LRC maintains a selection of microcomputer software, as well as video recordings, cd-roms, tapes, and other materials. LRC orientation sessions may be arranged by calling (606) 783-5102.

The Learning Technology Lab, Fourth Floor Tower, offers MSU faculty, staff, and students an opportunity to incorporate technology into their educational experience. The lab includes color scanners, digital cameras, video capture/edit capability, color printers, and a wide variety of software packages. Lab hours are Monday through Wednesday, 9 a.m. to 9 p.m. and Thursday through Friday, 9 a.m. to 5 p.m.

Instruction in library use is provided by library staff on a one-to-one basis and in group settings. LSIM 101, a one-hour credit class in use of library resources and retrieval systems, is offered each semester. Individuals and groups may schedule library orientation/instruction sessions by calling (606) 783-5114.

The library is open seven days a week. Regular hours are 7:30 a.m. to 11 p.m., Monday through Thursday; 7:30 a.m. to 6 p.m., Friday; 9 a.m. to 5 p.m., Saturday; and 1 p.m. to 11 p.m., Sunday. Hours are subject to change during vacation periods. Call (606) 783-2200 for current information.

Additional information about the library and its services can be found on CCL's Web page at [www.moreheadstate.edu/units/library](http://www.moreheadstate.edu/units/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 and remuneration for each work experience. Semesters of on-campus course work are alternated with semesters of salaried employment in an environment closely associated with the student's program of study. For additional information, contact your advisor, department chair or the Office of Career Services, 322 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 the Department of Geography, Government & History. The seminars carry three semester hours credit and the internships carry 15 semester hours credit. For additional information and application forms, contact the Department of Geography, Government & History, 350 Rader Hall or call (606) 783-2655.

## **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 and/or program of study requirements. Admission requirements are the same as for on-campus enrollment. A registration fee is charged in addition to tuition. For an application contact the Office of Distance Learning, 408 Ginger Hall, (606) 783-2082. (All on-campus students must have dean or advisor approval for telecourse enrollment.)

## **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. Others may register as special status students if they hold a high school diploma or a General Education Development (GED) certificate.

Admission for correspondence study as a special status classification does not necessarily qualify participants for regular admission to residence study. However, a student may apply for admission to residence study at any time after the special status has been granted. A high school diploma or GED is required. Tuition is the same as the current undergraduate, in-state, hourly fee.

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 detail, 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.

## **Institute for Regional Analysis & Public Policy**

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.

In collaboration with the departments of Biological & Environmental Sciences, Geography, Government, & History, and Sociology, Social Work & Criminology, IRAPP offers five undergraduate programs (environmental science, geography, government, social work, and sociology) that include a unifying core of six courses in Regional Analysis. Regional Analysis examines real world issues and potentials with awareness that multi-level systems and location affect peoples' social, economic, political, and ecological lives.

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 Hardwood Institute, the Institute for Correctional Research and Training, the Small Business Development Center, the Center for Community and Economic Development, the Office of Geographic and Cartographic Services, 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, e-commerce, wildlife management, mapping of hazardous materials flow, and tourism development.

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, UPO 1220, Morehead, KY 40351-1689, phone (606) 783-5419, e-mail [d.rudy@moreheadstate.edu](mailto:d.rudy@moreheadstate.edu).

## Honors Program

The 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 which fulfill general education requirements. Upper division students participate in at least two honors seminars, and seniors undertake an independent study project in their major fields.

Members of the program receive special opportunities and recognitions. They may enroll for additional credit hours each semester; have their major field content requirements altered for greater flexibility; receive special library privileges, including a separate study room; participate in cultural enrichment trips to concerts, plays, and museums in surrounding cities; participate in a twice yearly "seminar week" 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 3.4 GPA. The Honors Program awards 11 scholarships each year to entering freshmen. If you would like more information or admission forms, contact the Honors Program Director, Morehead State University, UPO Box 665, Morehead, KY 40351-1689, (606) 783-2807.

# 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](mailto:r.albert@moreheadstate.edu)

### **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 Accounting, Economics & Finance**

BBA - Accounting Option

BBA - Economics Option

BBA - Finance Option

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

BBA - Management Option

BBA - Marketing Option

BBA - Real Estate Option

### **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.

### **The College**

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, and Real Estate.

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, except those majoring in Business Administration.

All of MSU's business programs are accredited by the Association of Collegiate Business Schools and Programs. Less than 30 percent of all business programs in the U.S. are fully accredited.

The College offers state-of-the-art computer labs and classrooms with Internet connections and use of up-to-date business software programs that employers indicate are used in today's business environment. Business students have the opportunity to use computer software packages to gain experience in word processing, spreadsheet applications, accounting, and programming languages, giving them an advantage when they seek employment after graduation.

### **The 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.

### **The 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, 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 Norris Beckley, Office of Minority Affairs, Transportation Cabinet; Marcheta T. Blackburn, Kentucky National Bank; James H. Booth, Beech Fork Processing, Inc.; J. Hagan Codell, The First National Bank of Jackson; Bridgett Collier, Turf Town Properties, Inc.; Larry Columbia, Kroger; Sara Walter Combs, Division I Judge, Kentucky Court of Appeals; Wally Ewers, Shoney's Restaurant; Billy Joe Hall, Linsco/Private Ledger Financial Services; Rickey D. Harp, Farmers Bank and Capital Trust Company; William J. Jessie, Kentucky Electric Steel, Inc.;

Jerry Johnson, National City Bank; Leslie Kauffman, South-Western Publishing; John P. Knight, Sumitomo Electric Wiring Systems, Inc.; Dan Markwell, Trademark Insurance and Investments, Inc.; Susan Martin, Jockey Club; David Michael, Community Holding Company; Roger Meade, Meade and Associates; Mark Neff, St. Claire Medical Center; Denny Northcutt, Northcutt and Son Home for Funerals, Inc.; Laura Phipps, Mountain Rural Telephone; Jeff Riley, Kentucky Lottery Corporation; Karen C. Seiler, Micro Computer Solutions; John D. Sewell, First National Bank; Mike Shields, Owingsville Banking Company; Patricia B. Skeans, Morehead National Bank; C. K. Stacy, II, Bank of the Mountains; George Stevens, United States Achievement Academy; John Taylor, Peyton's Northern Distribution Center; Dennis Wallingford, Toyota Motor Manufacturing; Joyce Crouch Whiting, Toyota Motor Manufacturing, Inc.; Gary Wientjes, Morehead Clinic Pharmacy; Harold Wilson, Caswell Prewitt Reality, Inc.; and Gary K. Young, Pikeville National Bank.

### Organizational Systems

#### Research Association (OSRA)

The College of Business is home to the national office of the Organizational Systems Research Association ([www.OSRA.org](http://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 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 27-30.

#### Required Core

ENG 100—Writing I .....	3
ENG 200—Writing II .....	3
CMSP 108—Fundamentals of Speech Communication .....	3
MATH 152—College Algebra .....	3

CIS 101—Computers for Learning .....	3
<b>Total .....</b>	<b>15</b>

#### 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
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#### Natural and Mathematical Sciences

MATH 354—Business Statistics .....	3
Any two courses from BIOL, SCI, CHEM, PHYS, or GEOS 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 .....	•
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#### Integrative Component

*MNGT 499C—Business Policies and Practices .....	•
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<b>General Education Total .....</b>	<b>42</b>
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#### BBA Supplemental General Ed. Requirements-

ECON 202—Principles of Microeconomics .....	3
ECON/MNGT 300—Quantitative Methods in Business and Economics .....	3
Any ECON Course Above 300 .....	3
Non Business Free Electives .....	13
<b>Supplemental Total .....</b>	<b>22</b>

<b>General Ed. and Supplemental Total .....</b>	<b>64</b>
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#### 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 .....	•
FIN 264—Personal Finance .....	3

PSY 154—Introduction to Psychology .....	•
MNGT 261—The Legal Environment of Business Organizations .....	3
CIS 101—Computers for Learning .....	•
MATH 152—College Algebra .....	•
SOC 101—General Sociology .....	•
<b>Total .....</b>	<b>12</b>

- Business Information Systems
- Computer Information Systems
- Economics
- Finance
- Business and Information Technology Education
- Management
- Marketing
- Real Estate

**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.

ACCT/FIN 375—Accounting Analysis & Financial Decision-Making .....	3
BIS 321—Business Communication .....	3
BIS 421—Business & Technical Presentations ..	3
CIS 311—Management Information Systems ....	3
ECON/MNGT 300—Quantitative Methods in Business and Economics .....	•
FIN 360—Business Finance .....	3
MKT 304—Marketing .....	3
MNGT 301—Principles of Management .....	3
MNGT 465—Organizational Behavior.....	3
MNGT 499C—Business Policies & Problems ...	3
MSU 400—World of Work (Bus. Areas) .....	1
Any ECON course above 300 .....	•
<b>Total .....</b>	<b>28</b>

**Options**

*Choose one option from those listed.*

<b>Total .....</b>	<b>24</b>
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<b>Grand Total Business Hours .....</b>	<b>64</b>
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<b>Total Credit Hours for BBA Degree .....</b>	<b>128</b>
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• Course hours have been counted in another area.

\*Students are required to have an integrative component within the General Education requirements.

**Option Requirements**

All students choosing the BBA degree must complete a 24 credit hour field of specialization which is to be selected from the following fields of study and approved by the academic advisor:

Accounting

**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. Also, please note the required 13 hours of non-business electives may not be used to help fulfill the requirements for a second BBA option.

**Competencies Required in BBA Programs**

**Students completing the BBA program will have:**

1. An understanding of ethical conduct and sound ethical reasoning.
2. An understanding of global business issues.
3. An understanding of the influence of political, social, legal, regulatory, environmental, and technological issues on business.
4. An understanding of demographic diversity within the business environment.
5. Foundational skills in accounting, finance, behavioral science, economics, marketing, mathematics, statistics, and computer technology.
6. Strong computer and technology skills.
7. Strong written communication skills.
8. Strong oral communication skills.

**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
- COB Student Advisor Survey
- BBA Core External Assessment Program
- COB Co-Op Employer Performance Appraisals

**General Business Minor**

(For non-business administration majors)

**Business Minor Requirements**

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

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

- 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 24 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 I .....	3
ACCT 483—Auditing I .....	3
Approved accounting electives .....	6
<b>Total .....</b>	<b>24</b>

**Approved electives for the Accounting Option:**

ACCT 391—Accounting Information Systems ..	3
ACCT 428—Governmental Accounting .....	3
ACCT 482—Advanced Accounting .....	3
ACCT 487—Advanced Tax Accounting II .....	3
ACCT 490—Cost Accounting II .....	3

**Department of Accounting,  
Economics & Finance**

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

**Accounting**

**Faculty**

T. Elliott, P. Jones, S. Meisel, S. Walters, L. 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

**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, T. Creahan, T. Ghirmay,  
G. Miller, M. Phillips (IRAPP), M. Yasin

**Program Competencies**

Students completing the program should:

1. Be prepared for entry level management trainee position in a manufacturing or service industry, a public sector of the economy, or in any other ma-

for (profit or non-profit) enterprise.

2. Be qualified for graduate study in economics, finance, or other fields directly related to economics by completing a sequence of courses which prepares them to (a) do basic analysis of economics and financial events, (b) prepare written reports concerning economic and financial events useful for making managerial and other business decisions, (c) present oral reports concerning economic and financial events.

**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 (pp. 52-53) and free electives must be completed. The option is composed of 24 hours of specialized courses in economics.

ECON 302—Labor Economics .....	3
ECON 341—Public Finance .....	3
ECON 342—Money and Banking .....	3
ECON 350—Intermediate Microeconomics .....	3
ECON 410—History of Economic Thought .....	3
ECON 447—International Economics .....	3
ECON 451—Intermediate Macroeconomics .....	3
Approved economic elective .....	3
<b>Total .....</b>	<b>24</b>

**Approved electives for the Economics Option**

ECON 303—Introduction to Econometrics .....	3
ECON 305—Comparative Economic Systems ..	3
ECON 401—Environmental Economics .....	3
ECON 403—Urban and Regional Economics ....	3
ECON 455—Economics Development and Growth .....	3
FIN 373—Investments .....	3
FIN 472—Portfolio Analysis .....	3
FIN 485—International Finance .....	3

MATH 175—Analytic Geometry and Calculus I .....	4
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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. Ping

**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 (pp. 52-53), and free electives must be completed. The option is composed of 24 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 .....	9
<b>Total .....</b>	<b>24</b>

\*Students choosing the Personal Financial Planning track must take ACCT 387 instead of FIN 490.

**Approved Finance Option Elective Courses**

ACCT 487—Advanced Tax Accounting II .....	3
ECON 341—Public Finance .....	3
ECON 447—International Economics .....	3
FIN 325—Bank Management .....	3
FIN/ECON 342—Money and Banking .....	3
FIN 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 .....	9

**Financial Planner Track (CFP)**

Finance Core .....	15
FIN 372—Retirement Planning and Employee Benefits .....	3
FIN 374—Estate Planning & Taxation .....	3
FIN 376—Risk Management & Insurance .....	3

**Chartered Financial Analyst Track**

Finance Core .....	15
FIN 472—Portfolio Analysis .....	3
Approved electives .....	6

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**

B. Bailey, H. Choi, S. Hunt, A. Illia, G. Kelley,  
E. Kim, D. Kizzier, R. McCoy, E. Regan, S. Wymer

With the explosion of the Internet and a growing dependency on information systems 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 systems 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. Demonstrate knowledge of problem-solving within the context of information systems.
2. Appreciate the importance of information systems for organizations and understand how technology is used to manage information within organizational settings.
3. Apply concepts and processes of computer information systems development.
4. Design and implement a wide variety of information systems in a workplace environment.
5. Understand the characteristics of databases as they are used in the business environment and become familiar with theoretical and application database structures, creation, modification, processing, and physical representation.
6. Code a fairly complex problem in a programming language and have that program execute successfully.



7. Understand the fundamentals of telecommunications and networking in a computer environment.

**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

In addition to the option courses, students must complete the general education, BBA core (pp. 52-53) and general electives. The option is composed of 24 hours of specialized courses in computer information systems.

**BBA**

**Computer Informations Systems Option**

CIS 101—Computers for Learning .....	•
CIS 200—Logic and Design of Computer Programs .....	3
CIS 205—C/C++ Programming, or CIS 215—Structured Programming COBOL I .....	3
CIS 305—C++ Programming II, or CIS 315—Structured Programming COBOL II .....	3
CIS 325—Analysis and Design of Information Systems .....	3
CIS 426—Database Management Systems .....	3
CIS 440—Telecommunications and Networking .....	3
CIS 490—IT Project Management and Systems Project .....	3
Approved CIS electives .....	3
<b>Total .....</b>	<b>24</b>

**Approved electives for the CIS Option**

CIS 202—Introductory Programming with Visual Basic .....	3
CIS 205—C/C++ Programming I .....	3
CIS 211—Advanced Microcomputer Applications .....	3
CIS 303—Data Structures .....	3
CIS 305—C++ Programming II .....	3
CIS 314—JAVA Programming .....	3
CIS 339 or 439—Cooperative Education .....	3
CIS 350—Computer Systems Support .....	3
CIS 405—Web Development Strategies & E-Commerce .....	3

CIS 414—Designing & Implementing Collaborative Solutions .....	3
CIS 430—Advanced Topics in Information Systems .....	3
CIS 442—Network Administration .....	3
CIS 443—Advanced Network Administration .....	3

**Minor in Business Administration  
Computer Information Systems  
(for non-business majors)**

**Requirements for minor in CIS**

CIS 200—Logic and Design of Computer Programs .....	3
CIS 202—Introductory Programming with Visual Basic .....	3
CIS 205—C/C++ Programming, or CIS 215—Structured Programming COBOL I .....	3
CIS 305—C++ Programming II, or CIS 315—Structured Programming COBOL II .....	3
CIS 311—Management Information Systems .....	3
CIS 440—Telecommunications and Networking .....	3
CIS approved electives .....	6
<b>Total .....</b>	<b>24</b>

**Approved electives for the CIS Minor**

CIS 211—Advanced Microcomputer Applications .....	3
CIS 314—JAVA Programming .....	3
CIS 325—Analysis and Design of Information Systems .....	3
CIS 350—Computer Systems Support .....	3
CIS 405—Web Development Strategies & E-Commerce .....	3
CIS 426—Database Management Systems .....	3
CIS 430—Advanced Topics in Information Systems .....	3
CIS 442—Network Administration .....	3

# Business Information Systems

## Faculty

D. Everett, E. Harris, S. Hunt,  
H. Iwu, D. Kizzier, E. Regan

Forecasts reveal that businesses that will dominate the global economy of the future will be information-based, technology-based, or knowledge-based organizations. Against this scenario, the emerging information technologies are also 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 gives emphasis to understanding 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, PC and end-user computing specialist, technology coordinator, electronic meeting facilitator, multimedia design specialist, web authoring consultant, help-desk administrator, and LAN administrator.

The BBA in BIS follows the nationally-validated Organizational & End-User Information Systems Curriculum, published by the Organizational Systems Research Association (OSRA), which now has its national headquarters at Morehead State University. Additional information about this area of concentration may be obtained at [www.moreheadstate.edu/colleges/business/bis/](http://www.moreheadstate.edu/colleges/business/bis/).

## 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. Assess the need for, design, implement, and evaluate information technology training programs for

- business professionals working in organizations.
3. Analyze the needs of end-users in a variety of business functions and recommend information systems solutions to improve performance.
4. Assess the need for, implement, and evaluate networking environments, business hardware, and software application tools.
5. Apply information technology to support workplace performance at all organizational levels.
6. Analyze comprehensive cases relating to the planning and implementation of information technology in organizations, identify problems and issues associated with end-user information systems, and recommend strategies or activities for solving IT problems.
7. Identify Internet business models and design Web sites to meet business objectives.

## Assessment Procedures

Nationally Validated Information Management Exam  
Focus Group Survey  
COB Internal Survey  
COB Co-Op Employer Performance Appraisals

## Bachelor of Business Administration Business Information Systems Option

In addition to the option courses, students must complete the general education, BBA core (pp. 52-53), and general electives. The option is composed of 24 hours of specialized courses in both Business Information Systems (BIS) and Computer Information Systems (CIS).

### BIS Option Requirements

BIS 320—Web Design and Multimedia	
Applications .....	3
BIS 345—Knowledge Management .....	3
BIS 425—Training and Development	
for Industry .....	3
BIS 440—End-User Information Systems .....	3
CIS 211—Advanced Microcomputer	
Applications .....	3
Approved electives .....	9
<b>Total .....</b>	<b>24</b>

### Approved Electives for the BIS Option

BIS 290—Integrated Software Solutions .....	3
BIS 350—Computer Systems Support .....	3
BIS 420—Collaborative Technologies .....	3
CIS 325—Analysis & Design of	
Information Systems .....	3

*CIS 405—Web Development Strategies & E-Commerce .....	3
*CIS 414—Designing & Implementing Collaborative Solutions .....	3
*CIS 426—Database Management Systems .....	3
CIS 430—Advanced Topics in IS .....	3
CIS 440—Telecommunications and Networking ..	3
CIS 442—Network Administration .....	3
CIS 443—Advanced Computer Networking Administration .....	3
*CIS 490—IT Project Management & Systems Project .....	3
BIS 398—Practicum in Information Systems, or CIS 339—Cooperative Education, or CIS 439—Cooperative Education .....	3
*May require additional course prerequisites	

**Minor in Business Administration  
Business Information Systems  
(for non-business majors)**

**Course Requirements**

BIS 290—Integrated Software Solutions .....	3
BIS 320—Web Design and Multimedia Applications .....	3
BIS 345—Knowledge Management .....	3
BIS 425—Training and Development for Industry .....	3
BIS 440—End-user Information Systems .....	3
CIS 211—Advanced Microcomputer Applications .....	3
CIS/BIS—Approved Electives .....	6
<b>Total .....</b>	<b>24</b>

**Approved Electives for BIS Minor**

BIS 321—Business Communications .....	3
BIS 350—Computer Systems Support .....	3
BIS 420—Collaborative Technologies .....	3
CIS 440—Telecommunications and Networking ..	3
CIS 442—Network Administration .....	3

**Business and 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
- TEDS Follow-Up Data (Perkins)
- 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. Vocational approval also may be received after completing 2,000 hours of acceptable work experience.

**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
ENG 100—Writing I .....	3
ENG 200—Writing II .....	3
CMSP 108—Fundamentals of Speech Communication .....	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 pp. 52-53) .....* 9

*Natural and Mathematical Sciences*

MATH 354—Business Statistics .....

Any two courses from BIOL, SCI, CHEM, PHYS, or GEOS courses listed under General Education (three hours per prefix) .....

3

6

*Social and Behavioral Sciences*

ECON 201—Prin. of Macroeconomics .....

ECON 202—Prin. of Microeconomics .....

PSY 154—Introduction to Psychology .....

3

3

3

*Practical Living*

FIN 264—Personal Finance .....

3

**Integrative Component**

BIS 499C—Teaching Methods in Business and Information Technology Education .....

MSU 101—Discovering University Life .....

**General Education Total .....** 49

3

1

**BBA Core for Business and Information**

**Technology Education Option**

ACCT 281—Principles of Financial Accounting .....

ACCT 282—Principles of Managerial Accounting .....

BIS 321—Business Communications .....

BIS 421—Business and Technical Presentations .....

CIS 311—Management Information Systems ....

MKT 304—Marketing .....

MNGT 261—The Legal Environment .....

One approved MKT elective .....

MSU 400—World of Work (Business Area) .....

**Total .....** 25

3

3

3

3

3

3

3

3

1

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

BIS 117—Advanced Document Processing .....	3
BIS 320—Web Design and Multimedia Applications .....	3
BIS 350—Computer Systems Support .....	3
BIS 420—Collaborative Technologies .....	3
BIS 425—Training and Development for Industry .....	3
BIS 440—End-User Information Systems .....	3
*BIS 499C—Teaching Methods in Business and Information Technology Education .....	*
CIS 211—Advanced Microcomputer Applications .....	3
CIS 440—Telecommunications and Networking, or CIS 442—Network Administration .....	3
<b>Total .....</b>	<b>24</b>

\* 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 211—Human Growth and Development .....	3
EDF 311—Learning Theories in the Classroom .....	3
EDMG 306—Development and Learning in the Middle Grades .....	3
EDSE 333—Field Experiences in Secondary Classrooms .....	2
EDSE 499C—Teacher in Today’s Schools .....	2
EDSE 416—Student Teaching .....	12
EDSP 332—Teaching the Exceptional Student .....	2
<b>Total .....</b>	<b>30</b>

\*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**

**Robert D. Hatfield, Chair**  
(606) 783-2748  
313 Combs Building

**Management  
Faculty**

R. Berry, C. Caudill, M. Harford, R. Hatfield,  
N. Landrum, S. Spiller, G. Tanner, J. Turner

**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 (pp. 52-53) and free electives must be completed. The Management Core is the five required courses in Management common to all three 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
<b>Total .....</b>	<b>15</b>

*Students must choose a “track” to complete the 24 hours in the Management Option.*

**Management Track (General)**

<b>Management Option Core .....</b>	<b>15</b>
MNGT 357—Business Research and Industry Analysis .....	3
Management Elective (MNGT prefix) .....	3
Business Elective chosen from approved electives .....	3

**Entrepreneurship Track**

<b>Management Option Core .....</b>	<b>15</b>
MKT 345—Marketing Strategies for Small Business .....	3
MNGT/FIN 365—Financial Issues for Small Business .....	3
MNGT 420—New Venture Creation .....	3

**International Management Track**

<b>Management Option Core .....</b>	<b>15</b>
ECON 447—International Economics, or FIN 485—International Finance .....	3
MKT 469—International Marketing .....	3
MNGT 409—International Management .....	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 Internship, **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 Analysis .....	3
MNGT 362—The Legal Environment and Business Policies .....	3
MNGT 409—International Management .....	3

MNGT 411—Labor Relations .....	3
MNGT 417—Management and Marketing of Public and Nonprofit Organizations .....	3
MNGT 420—New Venture Creation .....	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

**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 (pp. 52-53) and free electives must be completed. The option is composed of 24 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—Promotional Strategies .....	3
MKT 469—International Marketing .....	3
Approved Marketing electives (two of the six hours must have a MKT prefix)	6
<b>Total .....</b>	<b>24</b>

**Approved electives for the Marketing Option**

ECON 403—Urban and Regional Economics ....	3
MKT 305—Purchasing .....	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 417—Management and Marketing of Public and Nonprofit Organizations. ....	3
MKT 451—Retail Marketing .....	3
MKT 455—Advertising .....	3
MKT 465—Distribution Management .....	3
MKT 476—Special Problems in Marketing .....	3
MNGT 310—Small Business Organization .....	3
MNGT 362—The Legal Environment and Business Practices .....	3
MNGT 411—Labor Relations .....	3
MNGT 463—Law and Ethics in Business .....	3
REAL 303—Real Estate Market Analysis .....	3
REAL 320—Real Estate Marketing .....	3

**Minor in Business Administration**

**Marketing**

(for non-business majors)

**Requirements for Marketing Minor**

MKT 304—Marketing .....	3
MKT 340—Interactive e-Marketing .....	3
MKT 350—Personal Selling .....	3
MKT 354—Consumer Behavior .....	3
MKT 454—Promotional Strategies .....	3
Approved Marketing Minor electives .....	9
<b>Total .....</b>	<b>24</b>

**Approved electives for the Marketing Minor**

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 465—Distribution Management .....	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 (pp. 52-53), and free electives must be completed. The option is composed of 24 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 .....	9
<b>Total .....</b>	<b>24</b>

**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 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**

(for non-business majors)

**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
<b>Total .....</b>	<b>24</b>

**Associate of Applied  
Business (AAB) Degrees**

**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
ECON 202—Principles of Microeconomics .....	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
General Electives .....	4
<b>Total .....</b>	<b>31</b>

**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 .....	3
MNGT 301—Principles of Management .....	3
<b>Total .....</b>	<b>18</b>

**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 .....	•
CIS 200—Logic and Design of Computer Programs .....	3
CIS 202—Introductory Programming with Visual Basic .....	3
CIS 205—C/C++ Programming I, or CIS 215—Structured Programming COBOL I .....	3
Approved CIS Electives .....	6
<b>Total .....</b>	<b>15</b>
<b>Total hours for degree .....</b>	<b>64</b>



**Approved Electives for CIS Option**

BIS 320—Web Design & Multimedia .....	3
CIS 211—Advanced Microcomputer Applications .....	3
CIS 305—C++ Programming II.....	3
CIS 314—JAVA Programming .....	3
CIS 315—Structured Programming COBOL II..	3
CIS 350—Computer Systems Support .....	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 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. 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
ECON 202—Principles of Microeconomics .....	3
ENG 100—Writing I .....	3
ENG 200—Writing II .....	3
FIN 264—Personal Finance .....	3
MATH 131—General Mathematics (or higher) .....	3
Humanities (Choose one from approved list) .....	3
General Electives .....	4
<b>Total .....</b>	<b>31</b>

**Business Core**

ACCT 281—Principles of Financial Accounting I .....	3
ACCT 282—Principles of Managerial Accounting II .....	3
BIS 321—Business Communications .....	3
MKT 304—Marketing .....	3
MNGT 261—Legal Environment of Business Organizations .....	3
MNGT 301—Principles of Management .....	3
<b>Total .....</b>	<b>18</b>

**BIS (AAB) Option Requirements**

*Choose six courses from the following*

BIS 116—Basic Word Processing .....	3
BIS 117—Advanced Document Processing .....	3
BIS 240—Information Resource and Knowledge Management .....	3
BIS 290—Integrated Software Solutions (required) .....	3
BIS 320—Web Design and Multimedia Applications .....	3
CIS 200—Logic & Design of Computer Programs .....	3
CIS 211—Advanced Microcomputer Applications .....	3
<b>Total .....</b>	<b>18</b>
<b>Total for degree .....</b>	<b>64</b>

# College of Education

## College of Education at a Glance

### **Dan H. Branham, Dean**

100 Ginger Hall

(606) 783-2040

E-mail: [d.branham@moreheadstate.edu](mailto:d.branham@moreheadstate.edu)

### **Department of Elementary, Reading, & Special Education**

BS - 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 Leadership & Secondary Education**

Students must consult with an advisor in the academic area in which certification is sought.

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

BA - Physical Education P-12

BS - Exercise Science

BA - Health P-12

BA - Health Promotions

BA - Sport Management

### **Educational Service Unit**

Teacher Education Program Admissions

Student Teaching Placement

Clinical & Field Scheduling

Teacher Certification

Kentucky Teacher Internship Program

Kentucky Principal 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 Committee. 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 laboratory 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 clinical and field experience component. Placements are made in cooperation with instructors and the Coordinator of Clinical and Field Experiences.

All education majors are required to complete a minimum of 150 hours of clinical and field experiences prior to student teaching. One-half of these shall be devoted to experiences in the public schools (field experiences).

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 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 Credit by Examination 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 is purchased in the University Bookstore. The policies set forth in the 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 teaching certification); learning and behavior disorders and early elementary (LBD and P-5 teaching certification); learning and behavior disorders and middle grades (LBD and 5-9 teaching certification); moderate and severe disability (MSD teaching certification); moderate and severe disability and early elementary (MSD and P-5 teaching certification); or moderate and severe disability and middle grades (MSD and 5-9 teaching certification).

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

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, or music.

### **Admission to Teacher Education**

Any student making application to the TEP must first be admitted to the University. The student should apply for admission to the teacher education program. IET majors should apply while enrolled in VOC 207 and/or Human Growth and Development. Failure to apply at the sophomore level may result in an extended program.

### **Admission to TEP**

Students making application to the TEP must submit a portfolio to the TEP Coordinator. 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. \*Three recommendations.
5. A statement of the student's philosophy of education.

tion, including the relationship of education to society (maximum of three typed pages).

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. Proof of ACT scores.
8. Proof of additional test scores as required.
9. Proof of successful completion of the writing proficiency requirement.

\*These items cannot be older than one year at the time of the student's application to the TEP.

### **Transfer Students**

Transfer students need coursework or portfolio evidence of pre-professional knowledge. The portfolio will be reviewed at the time of transfer.

### **Writing Proficiency Requirement**

Effective with the Fall 2002 Semester, students applying for the TEP at MSU must pass the Writing Subtest of the Pre-Professional Skills Test (PPST) to qualify for admission to the program. Students having a completed writing sample file in the Education Service Unit can use that score in lieu of the PPST Writing Test during the Fall 2002, Spring 2003, and Summer 2003 terms only. Effective with the Fall 2003 Semester, only the PPST Writing Test will be considered for admission.

The PPST Writing 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 (located in 501 GH). The computer-based version is available at Sylvan Learning Centers, including those located in Lexington, Covington, and Louisville. Contact Sylvan 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.

### **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 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. Three recommendations stating the applicant's

qualifications must accompany the portfolio (must be written within the past calendar year).

4. The student must have a minimum ACT score of 21 with minimum subtest scores of 10 or ACT score of 18 with minimum subtest scores of 10 and Pre Professional Skills Test (PPST) scores of Reading 173, Writing 172, Math 173, or Computer format reading 320, writing 318, math 318, or 1200 Graduate Record Exam (GRE) or SAT 990.
6. Successful completion of prerequisite courses, with grades of "C" or better (EDF 207, EDF 211, PSY 154, and CMSP 108) and prescribed clinical and field experiences.
7. Demonstrated proficiency in oral and written communication (successful completion of ENG 100 and ENG 200; minimum grade of "C" in each course).
8. Demonstrate moral, ethical, and social behavior commensurate with the standards of the school and community at large.
9. Successful completion of an interview with the Department Admissions Interview Committee.
10. 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 the requirements listed above.
11. 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) requirements for certification, and (4) no felony convictions.

Once these items are checked off 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 Committee as to the TEP admission status.

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 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 students maintaining admission requirements. Any student denied admission to or suspended from the TEP may reapply for admission once each semester.

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

AGR 388—Methods of Curriculum Development  
 AGR 392—Methods of Instructional Technology  
 AGR 470—Methods of Instruction  
 AGR 471—Seminar  
 AGR 476—Special Problems in Agriculture Education  
 AGR 499C—Senior Seminar  
 AGR 585—Teaching Agricultural Mechanics  
 ART 300—Elementary Materials and Methods  
 ART 321—Materials & Methods for Secondary Art  
 BIOL 485—Biology Teaching Methods  
 EDEC 527—The Pre-School Child  
 EDEC 528—Activities and Materials in Early Child. Ed.  
 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  
 EDF 311—Learning Theories for Teachers  
 EDMG 332—Read. Strategies for the Mid. Grade Tch.  
 EDMG 341—Teaching Math in the Middle Grades  
 EDMG 342—Teaching Soc. St. in the Middle Grades  
 EDMG 343—Language Arts in the Middle Grades  
 EDSE 312—Teaching Skills and Media  
 EDSE 333—Field Experiences in Secondary Classrooms  
 EDSP 332—Teaching the Exceptional Student  
 EDUC 476—Reading in the Secondary School  
 EDUC 582—Discipline and Classroom Management  
 ENG 500—Studies in English for Teachers  
 FRN 405—Linguistics and Language Teaching  
 GEO 450—The Teaching of Social Studies  
 HIS 450—The Teaching of Social Studies  
 HLTH 304—Health in the Secondary School  
 HLTH 377—Clin. and Field Exper. in Sch. Hlth. (P-12)  
 HS 332—Field Experiences in Human Sciences  
 HS 388—Methods of Curriculum Development  
 HS 392—Methods of Instructional Technology  
 HS 470—Methods of Instruction  
 IET 388—Methods of Curriculum Development

IET 392—Instructional Technology  
 IET 393—Methods in Vocational Industrial Education  
 IET 470—Teaching Methods of Instruction  
 IET 496—Organization and Mgmt. of the Lab.  
 MATH 373—Principles and Techniques of Mathematics  
 MATH 374—Clin. and Field Exp. in Teach. Math  
 MATH 471—Seminar  
 MATH 499C—Senior Capstone  
 MUSC 271—Basic Conducting  
 MUSDC 471—Choral Conducting  
 MUSC 472—Instrumental Conducting  
 MUSE 230—Introduction to Music Education  
 MUSE 325—Materials and Methods for Elem. Grades  
 MUSE 335—Field Experience  
 MUSE 375—Vocal Materials & Methods  
 MUSE 376—Instrumental Materials & Methods  
 PHED 300—Physical Education in the Elem. School  
 PHED 303—Physical Ed. in the Secondary School  
 PHED 360—Health & Phys. Ed. in the Middle School  
 PHED 475—Adapted Physical Education  
 SCI 490—Science for the Elementary Teacher  
 SCI 591—Science for the Middle School Teacher  
 SCI 592—Science for the Secondary Teacher  
 SPA 405—Linguistics and Language Teaching

### Admission Requirements for the Professional Semester

Application for student teaching must be filed within the first two weeks of the semester immediately preceding the semester in which the student expects to enroll in the professional semester. Student teaching application forms can be obtained from Director of Student Teaching, 801 Ginger Hall. To be eligible for the professional semester, the student must have completed the following requirements:

1. Admission to and good standing in TEP.
2. Completion of prerequisite courses in sequence of professional education. **Secondary certification program**—EDF 207, 211, 311, EDSE 312, and EDSP 332 and required methods or field experience courses. AGR—VOC 207, EDF 211, EDSP 332, AGR 388, 392 and 470, IET—VOC 207, EDF 211, EDSP 332, IET 392 and 470, HS—VOC 207, EDF 211 and 311, EDSP 332, EDMG 332, EDEM 330, HS 388, 392, and 470. **P-5 certification program**—EDF 207 and 211, EDEL 301, EDEE 305, 321, 322, 323, 327, and 331, EDEM 330, EDSP 230, EDUC 582, SCI 490. **Middle grades certification program**—EDF 207 and 211, EDEL 301, EDEM 330, EDMG 306, 332, 341, 342, 343, and 347, EDSP 230, EDUC 582,

and SCI 591(for science component only). **LBD and MSD certification program**—elementary education requirements plus EDSP 350, 360, 537 or 547, 551, 553, 555 and 557. **Interdisciplinary Early Childhood Education**—EDF 207 and 211, IECE 301, 345, 410, 411 and 412.

3. Successfully completed field experiences associated with courses in the professional education sequence (e.g., EDSE 333). Transfer or substitution of required education courses is dependent upon applicant completing appropriate pre-laboratory experiences. Documentation is required.
4. Present minimum GPA at MSU as well as an overall GPA of 2.5 that includes all transfer courses of 2.5 on a 4.0 scale on all courses attempted (all transfer courses are included in calculating the GPA).
5. Present minimum GPA standing of 2.5 on 4.0 scale on all course work completed in area of concentration, major(s) and academic components.
6. Completion of a minimum of 90 semester hours.
7. Present official copy of the degree audit checksheet depicting approved area of concentration/major for teacher certification.
8. Completed 75 percent of course requirements in area of concentration or major teaching field and academic components (to include required methods courses).
9. Have a minimum of one semester residence (12 hours) at MSU.
10. Student teaching candidates must submit copies of score reports for all required PRAXIS tests prior to beginning their student teaching semester. Students with less than the minimum required score must meet with their advisors to develop a study strategy and a plan for retaking the test(s) prior to graduation.

*Courses for which application must be scheduled with the director of student teaching one semester in advance include:*

- AGR 478—Student Teaching Practicum
- EDEE 423—Supervised Student Teaching Practicum
- EDMG 446—Supervised Student Teaching
- EDSE 416—Student Teaching
- 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
- IET 478—Student Teaching Practicum

### **Recommendation for Certification**

Regulations of the KDE 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 certificate 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 certification must meet all certification requirements in effect at the time of their application for certification.

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

All teacher 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 1999-2000 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 new accountability measures in the form of new reporting requirements for institutions and states on teacher preparation and licensing. The data that will be 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 9, 2001: 1) how well individuals who complete our teacher preparation programs during the 1999-2000 academic year performed on initial state licensing and certification PRAXIS assessment requirements in their areas of spe-

cialization; 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. On 12 assessments with fewer than 10 test takers, our program completers achieved pass rates of 100 percent; these included the assessments for Secondary Math, Middle Grades English, Secondary Biology, Secondary Physical Science, Middle Grades Sciences, Industrial Education, Home Economics, Agriculture, and Special Education/Moderate to Severe Disabilities. Of the 12 individual assessments reported by ETS with 10 or more test takers, our program completers achieved pass rates of 90 percent or better on eight out of 12, and five of these were 95 percent or better. Only one assessment had a reported pass rate below 85 percent.

Morehead State University welcomes the opportunity to participate in this process that will provide data to all teacher preparation institutions and allow us to begin to align our curriculum to address issues that will ensure improved teacher quality. To see pass rate results, turn to the catalog appendix, pages 272-273.

## Department of Elementary, Reading & Special Education

Mar y Anne Pollock, Chair

301 Ginger Hall

(606) 783-2598

### Elementary Education

#### Faculty

S. Blair, M. Decker, K. Freeland, D. Haleman,  
K. Hammons, K. Hazler, K. Lafferty, W. Letendre,  
P. McGhee, T. Miller, A. Pennell, D. Peterson,  
M. Pollock (Chair), D. Price, E. Schack, M. Schack,  
M. Shon, M. Willis, W. 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 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 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 150 hours
- Writing sample
- Portfolio
- PRAXIS Exams

**Bachelor of Science**

**Area of Concentration Interdisciplinary Early Childhood Education (IECE)**

<b>Program Requirements .....</b>	<b>46</b>
EDEM 499C—Senior Seminar .....	3
HS 200—Family Perspectives .....	3
HS 201—Principles of Nutrition .....	3
HS 253—Child Growth and Development (required for TEP) .....	4
HS 254—Preschool Administration .....	4
HS 257—Care and Development: Prenatal, Infant and Toddler .....	3
HS 327—Maternal, Infant, and Child Nutrition .	3

HS 332—Field Experience .....	4
HS 354—Preschool Programs and Environment .....	3
HS 358—Public Policy for Children and Families .....	3
HS 457—Parenting .....	3
HS 467—Trends and Issues in Early Childhood Development .....	1
NAHS 473—Health Care Management of Children .....	3
PHED 311—Movement Exploration .....	3
PSY 356—Cognitive Development of the Infant and Child .....	3

**Professional Education ..... 33**

EDF 207—Foundation of Education .....	3
IECE 301—At Risk Infants and Toddlers .....	3
IECE 345—Preschool Programs for Special Needs Children .....	3
IECE 410—Role of Teacher: Designing Language and Cognitive Activities for Diverse Groups .....	3
IECE 411—Role of Teacher: Creating a Learning Environment for Diverse Groups .....	3
IECE 412—Role of Teacher: Designing the Implementation of Creative Play Activities for Young Children .....	3
IECE 425—Practical Student Teaching .....	12
IECE 457—Professional Assessment .....	3

**Approved Electives ..... 5**

EDF 211—Human Growth and Development ....	3
EDSP 320—Introduction to Corrective Speech ..	3
EDUC 222—Computing Tools for Education ....	3
HS 353—Program Planning for Infants and Toddlers .....	2
HS 363—Family Economics .....	3
SWK 315—Child Welfare Services .....	3

**General Education ..... 46**

CMSP 108—Fundamentals of Speech Communications .....	3
ENG 100—Writing I .....	3
ENG 200—Writing II .....	3
MSU 101—Discovering University Life .....	1

*Choose three hours from the following math reasoning courses:*

BIOL 110—Biological Science for Elementary Teachers	
CIS 101—Computers for Learning	
EDUC 222—Computing Tools for Educators	
MATH 123—Introduction to Statistics	



MATH 131—Mathematical Reasoning and Problem Solving	(Capstone Course) .....	3
MATH 141—Trigonometry		
MATH 152—College Algebra		
MATH 174—Precalculus		
PSY 154—Introduction to Psychology		
SCI 109—Physical Science for the Elementary Teacher .....		3

*Natural Science General Education Requirement:*

GEO 100—Fundamentals of Geography .....	3
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*Choose three hours from the following Social and Behavioral Sciences courses:*

ECON 201—Principles of Macroeconomics		
ECON 202—Principles of Microeconomics		
GOVT 141—United States Government		
SOC 101—General Sociology .....	3	

*Humanities General Education Requirement, choose three hours:*

FNA 160—Understanding the Visual Arts		
HLTH 151—Wellness: Theory to Action		
HS 101—Nutrition & Well-Being .....	3	

**Bachelor of Arts**

**Area of Concentration**

**Early Elementary (P-5)**

<b>Education .....</b>	<b>35</b>
EDEE 305—Learning Theories and Practices in Early Elementary .....	3
EDEE 321—Number Concepts and Mathematics .....	3
EDEE 322—Teaching Social Studies in Early Elementary Grades .....	3
EDEE 323—Language Arts for Early Elementary .....	3
EDEE 331—Reading for Early Elementary Teachers .....	3
EDEL 301—Media Strategies .....	2
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 582—Discipline and Classroom Management .....	3
SCI 490—Science for Elementary Teachers .....	3

**Integrated Component**

**(Professional Semester) .....**

<b>15</b>	
EDEE 423—Supervised Student Teaching Practicum .....	12
EDEM 499C—Senior Teaching Seminar	

**Related Studies .....**

<b>18</b>	
ART 121—School Art .....	3
EDEE 327—Literature and Materials for Young Readers .....	3
HLTH 301—Health, Safety and Nutrition for Early Elementary .....	2
MATH 231—Math for the Elementary Teacher I (prerequisite math reasoning course) ..	3
MUST 100—Rudiments of Music .....	2
MUSE 221—Music for Elementary Teachers ....	2
PHED 311—Movement Exploration .....	3

**General Education .....**

<b>45</b>	
CMSP 108—Fundamentals of Speech Communication .....	3
ENG 100—Writing I .....	3
ENG 200—Writing II .....	3

*Choose three hours from the following math reasoning courses:*

CIS 101—Computers for Learning		
EDUC 222—Computing Tools for Educators		
MATH 123—Introduction to Statistics		
MATH 131—Mathematical Reasoning and Problem Solving		
MATH 141—Trigonometry		
MATH 152—College Algebra		
MATH 174—Precalculus .....	3	

**Humanities Elective:**

*Choose three hours from the following:*

ART 263—Art History I		
ART 264—Art History II		
ART 265—Art History III		
CMEM 210—Media Literacy		
ENG 205—Language: Culture and Mind		
ENG 220—Topics in Literature		
ENG 293—Creative Writing		
FNA 160—Understanding the Visual Arts		
MUSH 261—Music Listening		
MUSH 361—History of Music I		
MUSH 362—History of Music II		
GOVT 210—Introduction to Political Theory		
HIS 201—Global Studies		
HIS 202—American Studies		
PHIL 203—Social Ethics		
PHIL 306—Introduction to Logic		
CMSP 350—Communication: Culture and Diversity		
CMSP 390—Conflict and Communication		
THEA 110—Introduction to Theatre		
A foreign language course		

HIS 201—Global Studies, or	
HIS 202—American Studies .....	3
PHIL 200—Introduction to Philosophy .....	3
BIOL 110—Biological Science for Elementary Teachers .....	3
SCI 109—Physical Science for Elementary Teachers .....	3
PSY 154—Introduction to Psychology .....	3
MATH 232—Math for the Elementary Teacher II (prerequisite MATH 231) .....	3
GOVT 141—United States Government, or *GOVT 362—Current World Problems .....	3
GEO 100—Fundamentals of Geography, or *SOC 305—Cultural Anthropology, or *GEO 300—World Geography .....	3
HLTH 151—Wellness: Theory in Action, or HS 101—Nutrition and Well Being .....	3
<i>*Meets the non-western culture course requirement. One non-western culture course must be completed</i>	

**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. Please note that a GPA of 2.5 is required in all components.

**English/Communications ..... 21**

CMSP 300—Oral Communication .....	3
CMSP 100—Voice and Articulation, or CMSP 200—Oral Interpretation, or CMSP 210—Listening, or CMSP 310—Interpersonal Communication, or CMSP 383—Group Discussion .....	3
ENG 392—Teaching Writing in Elementary and Middle Grades .....	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	
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
ART 263—Introduction to Art History I .....	3
ART 264—Introduction to Art History II .....	3

**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 Communication .....	3
FNA 160—Appreciation of Fine Art .....	3
MUSE 221—Music for the Elementary School 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 300—Oral Communication .....	3
CMSP 310—Interpersonal Communication .....	3
THEA 110—Introduction to Theater .....	3
THEA 375—Creative Dramatics .....	3
THEA 570—Children’s Theater .....	3

**Foreign Language/French ..... 21**

FRN 101—Beginning French .....	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—Beginning Spanish I ..... 3  
 SPA 102—Beginning Spanish 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 .. 3  
 Elective—Spanish ..... 3

**Mathematics ..... 21**

CIS 101—Computers for Learning, or  
 EDUC 222—Computers 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 Math ..... 3  
 MATH 330—Geometry for Teachers ..... 3

**Science ..... 21**

SCI 109—Science for Elementary Teachers  
 or higher with a lab ..... 3  
 BIOL 110—Biology for Elementary Teachers  
 or higher with a lab ..... 3  
*Choose 15 hours rom the following courses:*  
 BIOL 150—Introductory Plant 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—Biology Workshop ..... 3  
 GEOS 108—Physical Geology ..... 4  
 GEOS 240—Oceans ..... 3  
 GEOS 376—Environmental Geology ..... 3  
 PHYS 110—Concepts in Astronomy ..... 3  
 SCI 570—Earth Science ..... 3

**Social Studies ..... 21**

GEO 300—World Geography, or  
 GEO 360—Physiography of the US, or  
 GEO 366—Political Geography, or

GEO 390—Weather and Climate ..... 3  
 HIS 323—Kentucky History ..... 3  
 PSY 354—Social Psychology, or  
 PSY 390—Psychology of Personality ..... 3  
 SOC 374—American Minority Relations, or  
 SOC 515—Family Dynamics ..... 3  
 Elective—History 300 or above ..... 3  
 ECON 101—Introduction to U.S. Economics, or  
 ECON 201—Principles of Economics I, or  
 ECON 202—Principles of Economics II  
 GOVT 141—U.S. 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 U.S. History, or  
 HIS 202—American Studies, or ..... 6

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

**Education ..... 35**

EDEL 301—Media Strategies ..... 2  
 EDF 207—Foundations of Education ..... 3  
 EDF 211—Human Growth and Development .... 3  
 EDMG 306—Devt. and Learn. in Mid. Grades .. 3  
 EDEM 330—Foundations of Reading ..... 3  
 EDMG 332—Reading Strategies for  
 Middle Grade Teachers ..... 3  
 EDMG 347—Literature and Materials for  
 the Preadolescent ..... 3  
 EDMG 341—Teaching Mathematics in  
 Middle Grades ..... 3  
 EDMG 342—Teaching Social Studies in  
 Middle Grades ..... 3  
 EDMG 343—Language Arts for Middle Grades 3  
 EDSP 230—Education of Exceptional Children 3  
 EDUC 582—Discipline and Classroom  
 Management ..... 3

**Integrated Component  
 (Professional Semester) ..... 15**

EDEM 499C—Senior Teaching Seminar ..... 3  
 EDMG 446—Supervised Student Teaching ..... 12

**Related Studies ..... 6**

MATH 231—Math for Elementary Teachers I ... 3  
 PHED 360—Health and Physical Education  
 in the Middle School ..... 3

**General Education ..... 45**

CMSP 108—Fundamentals of Speech  
 Communication ..... 3  
 ENG 100—Writing I ..... 3  
 ENG 200—Writing II ..... 3

Choose three hours from the following math reasoning courses:

- CIS 101—Computers for Learning
- EDUC 222—Computing Tools for Educators
- MATH 123—Introduction to Statistics
- MATH 131—Mathematical Reasoning and Problem Solving
- MATH 141—Trigonometry
- MATH 152—College Algebra
- MATH 174—Precalculus ..... 3

**Humanities Elective:**

Choose three hours from the following courses:

- ART 263—Art History I
- ART 264—Art History II
- ART 265—Art History III
- CMEM 210—Media Literacy
- ENG 205—Language: Culture and Mind
- ENG 220—Topics in Literature
- ENG 293—Introduction to Creative Writing
- FNA 160—Understanding the Visual Arts
- MUSH 261—Music Listening
- MUSH 361—History of Music I
- MUSH 362—History of Music II
- GOVT 210—Introduction to Political Theory
- CMSP 350—Communication, Culture and Diversity
- CMSP 390—Conflict and Communication
- THEA 110—Introduction to Theatre
- A foreign language course
  
- HIS 201—Global Studies, or
- HIS 202—American Studies ..... 3
- PHIL 200—Introduction to Philosophy ..... 3
- BIOL 110—Biological Science for Elementary Teachers ..... 3
- SCI 109—Physical Science for Elementary Teachers ..... 3
- MATH 232—Math for the Elementary Teachers II (prerequisite MATH 231) ..... 3
- PSY 154—Introduction to Psychology ..... 3
- GOVT 141—United States Government, or
- \*GOVT 362—Current World Problems ..... 3
- GEO 100—Fundamentals of Geography, or
- \*GEO 300—World Geography; or
- \*SOC 305—Cultural Anthropology ..... 3
- HLTH 151—Wellness: Theory in Action; or
- HS 101—Nutrition and Well Being ..... 3
- \*One non-western culture course
- \*Meets non-western culture course requirement.

**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, mathematics, and special education/LBD. Students selecting special education/LBD as an academic component must complete the total program for LBD certification, which will exceed 24 hours because the six-hour supervised student teaching practicum is included. However, the LBD and Middle Grades supervised student teaching practicum requirements are taken in the same semester, with each assignment comprising half the semester student teaching field hours. Each is six credit hours for a total of 12 credit hours of student teaching.

**5-9 Academic Components**

A GPA of 2.5 is required in all academic components.

**English/Communications ..... 24**

- CMSP 108—Fundamentals of Speech Communication ..... 3
- EDMG 347—Literature and Materials for Pre-Adolescents ..... 3
- ENG 390—Professional Writing, or
- ENG 391—Advanced Expository Writing, or
- ENG 392—Teaching Writing in Elementary or Middle Grades, or
- ENG 395—Poetry Writing, or
- ENG 396—Fiction Writing, or
- ENG 583—Advanced Poetry Writing, or
- ENG 584—Advanced Fiction Writing, or
- ENG 591—Technical Writing I ..... 6
- ENG 305—Introduction to Linguistics, or
- ENG 394—Language and Society, 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
- ENG 500—Studies in English for Teachers ..... 3
- ENG elective—300 to 500 level ..... 3

**Mathematics ..... 24**

- CIS 202—Introductory Programming with Visual Basic ..... 3
- MATH 141—Plane Trigonometry, or
- MATH 174—Pre-Calculus Mathematics ..... 3
- MATH 152—College Algebra ..... 3
- MATH 231—Mathematics for the Elementary Teacher I ..... 3
- MATH 232—Mathematics for the Elementary Teacher II ..... 3
- MATH 300—Introduction to Math. Proof, or
- \*MATH 304—Logic and Set Theory ..... 3
- MATH 332—Introduction to Finite Math. .... 3
- MATH 370—College Geometry I ..... 3

**Special Education/LBD ..... 30**  
 EDSP 320—Introduction to Corrective Speech .. 3  
 EDSP 350—Characteristic of Individuals with  
 Mental Retardation and Orthopedic Handicaps 3  
 EDSP 360—Characteristics of Individuals with  
 Learning and Behaviors Disorders ..... 3  
 EDSP 537—Educational Assessment  
 of Exceptional Children ..... 3  
 EDSP 551—Curriculum for Preschool  
 Exceptional Children ..... 3  
 EDSP 553—Language Arts for Exceptional  
 Children ..... 3  
 EDSP 555—Prescriptive Teaching for  
 Learning & Behavioral Disorders ..... 3  
 EDSP 557—Content Areas & Career  
 Preparation for Exceptional Children ..... 3  
 EDSP 435—Supervised Teaching Practicum ..... 6  
 \*Will require a course substitution.

**Social Studies ..... 24**  
 ECON 101—Intro. to American Economics, or  
 ECON 201—Principles of Economics I ..... 3  
 GEO 300—World Geography ..... 3  
 GOVT 141—U.S. Government ..... 3  
 HIS 210—Early World Civilization ..... 3  
 HIS 201—Global Studies ..... 3  
 HIS 220—Early U.S. History ..... 3  
 HIS 202—American Studies ..... 3  
 SOC 203—Contemporary Social Problems, or  
 SOC 205—The Family, or  
 SOC 305—Cultural Anthropology, or  
 SOC 354—The Individual and Society, or  
 SOC 374—American Minority Relations ..... 3

**Science ..... 28-31**  
 BIOL 110—Biology for the Elementary Teacher  
 or higher with a lab ..... 3  
 BIOL 210—Zoology, or  
 BIOL 352—Animal Natural History ..... 3  
 BIOL 150—Plant Science, or  
 BIOL 215—Botany, or  
 BIOL 351—Plant Natural History ..... 3-4  
 CHEM 101/101L—Principles of Chemistry ..... 4  
 GEOS 108—Physical Geology ..... 4  
 PHYS 201/201L—Elementary Physics ..... 4  
 SCI 591—Science for Middle School Teachers .. 3  
 CHEM 201/201L—Survey of Chemistry (4 hrs), or  
 GEOS 201—Historical Geology (3 hrs), or  
 PHYS 202/202L—Elementary Physics II (4 hrs), or  
 PHYS 110—Concepts in Astronomy (3 hrs), or  
 SCI 570—Earth Science (3 hrs) ..... 4-6

## Special Education

### Faculty

D. Grace, J. Knoll, E.. Lombardo, 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**

**Learning and Behavior Disorders**

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 learning and behavior disorders in grades P-12. Students have the following three options for obtaining LBD certification:

1. Single certification to teach students with learning and behavior disorders at any grade level (P-12).
2. LBD certification **and** certification to teach in the early elementary grades (P-5).
3. LBD certification **and** certification to teach in the middle grades (5-9).

**1. Area of Concentration in LBD**

**Special Education ..... 27**

- 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 360—Characteristics of Learning and Behavior Disorders ..... 3
- EDSP 537—Educational Assessments of Exceptional Children ..... 3
- EDSP 551—Curriculum for Pre-School Exceptional Children ..... 3
- EDSP 553—Language Arts for Exceptional

- Children ..... 3
- EDSP 555—Prescriptive Teaching for Children with Learning and Behavior Problems ..... 3
- EDSP 557—Content Areas and Career Preparation for Exceptional Students ..... 3

**Education ..... 32**

- EDEE 305—Learning Theories and Practices in Early Elementary ..... 3
- EDEM 330—Foundations of Reading ..... 3
- EDEE 321—Number Concepts and Mathematics ..... 3
- EDEE 322—Teaching Social Studies in Early Elementary Grades ..... 3
- EDEE 323—Language Arts for Early Elementary ..... 3
- EDEE 331—Reading for Early Elementary Teachers ..... 3
- EDEL 301—Media Strategies ..... 2
- EDF 207—Foundations of Education ..... 3
- EDF 211—Human Growth and Development .... 3
- EDUC 582—Discipline and Classroom Management ..... 3
- SCI 490—Science for the Elementary Teacher .. 3

**Integrated Component**

**(Professional Semester) ..... 15**

- EDEE 423—Student Teaching ..... 6
- EDEM 499C—Senior Teaching Seminar ..... 3
- EDSP 435—Student Teaching - LBD ..... 6

**Related Studies ..... 18**

- ART 121—School Art I ..... 3
- EDEE 327—Literature and Materials for Young Readers ..... 3
- HLTH 301—Health, Safety and Nutrition for Early Elementary ..... 2
- MATH 231—Math for the Early Elementary Teacher I ..... 3
- MUST 100—Rudiments of Music ..... 2
- MUSE 221—Music for Elementary Teachers .... 2
- PHED 311—Movement Exploration ..... 3

**General Education ..... 45**

- CIS 101—Computers for Learning, or
- EDUC 222—Computing Tools for Educators .... 3
- CMSP 108—Fundamentals of Speech Communication ..... 3
- ENG 100—Writing I ..... 3
- ENG 200—Writing II ..... 3
- MATH 123—Introduction to Statistics
- MATH 131—Mathematical Reasoning and Problem Solving

MATH 141—Trigonometry, or  
MATH 152—College Algebra, or  
MATH 174—Precalculus ..... 3

**Humanities Elective**

*Choose three hours from the following courses:*

ART 263—Art History I  
ART 264—Art History II  
ART 265—Art History III  
CMEM 210—Media Literacy  
ENG 205—Language: Culture and Mind  
ENG 220—Topics in Literature  
ENG 293—Introduction to Creative Writing  
FNA 160—Understanding the Visual Arts  
GOVT 210—Introduction to Political Theory  
HIS 201—Global Studies  
HIS 202—American Studies  
MUSH 261—Music Listening  
MUSH 361—History of Music I  
MUSH 362—History of Music II  
PHIL 203—Social Ethics  
PHIL 306—Introduction to Logic  
THEA 110—Introduction to Theatre, or  
A foreign language course

HIS 201—Global Studies, or  
HIS 202—American Studies ..... 3  
PHIL 200—Introduction to Philosophy ..... 3  
BIOL 110—Biology for Elementary Teachers ... 3  
SCI 109—Physical Science for Elementary  
Teachers ..... 3  
MATH 232—Math for the Elementary  
Teachers II (prerequisite MATH 231) ..... 3  
PSY 154—Introduction to Psychology ..... 3  
GOVT 141—United States Government, or  
\*GOVT 362—Current World Problems ..... 3  
GEO 100—Fundamentals of Geography, or  
\*GEO 300—World Geography, or  
\*SOC 305—Cultural Anthropology ..... 3  
HLTH 151—Wellness: Theory in Action, or  
HS 101—Nutrition and Well Being ..... 3  
\*Meets non-western culture course requirement. One non-

western culture course must be completed.

**2. Area of Concentration in LBD and Early  
Elementary P-5**

**Special Education ..... 27**  
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 360—Characteristics of Individuals with  
Learning Disabilities and Behavior Disorders .. 3

EDSP 537—Educational Assessments of  
Exceptional Children ..... 3  
EDSP 551—Curriculum for Pre-School  
Exceptional Children ..... 3  
EDSP 553—Language Arts for Exceptional  
Children ..... 3  
EDSP 555—Prescriptive Teaching for Children  
with Learning and Behavior Problems ..... 3  
EDSP 557—Content Areas and Career  
Preparation for Exceptional Students ..... 3

**Education ..... 32**

EDEE 305—Learning Theories in Early  
Elementary Classroom ..... 3  
EDEM 330—Foundations of Reading ..... 3  
EDEE 321—Number Concepts and  
Mathematics ..... 3  
EDEE 322—Teaching Social Studies in Early  
Elementary ..... 3  
EDEE 323—Language Arts in Early  
Elementary ..... 3  
EDEE 331—Reading Strategies ..... 3  
EDEL 301—Media Strategies ..... 2  
EDF 207—Foundations of Education ..... 3  
EDF 211—Human Growth and Development .... 3  
EDUC 582—Discipline and Classroom  
Management ..... 3  
SCI 490—Science for Elementary Teachers ..... 3

**Integrated Component**

**(Professional Semester) ..... 15**

EDEE 423—Student Teaching ..... 6  
EDEM 499C—Senior Teaching Seminar  
(capstone course) ..... 3  
EDSP 435—Student Teaching - LBD ..... 6

**Related Studies ..... 18**

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

**General Education ..... 45**

CIS 101—Computers for Learning, or  
EDUC 222—Computing Tools for Educators .... 3  
CMSP 108—Fundamentals of Speech  
Communication ..... 3

ENG 100—Writing I ..... 3  
 ENG 200—Writing II ..... 3  
 MATH 123—Introduction to Statistics, or  
 MATH 131—Mathematical Reasoning  
 and Problem Solving, or  
 MATH 141—Trigonometry, or  
 MATH 152—College Algebra, or  
 MATH 174—Precalculus ..... 3

**Humanities Elective**

*Choose three hours from the following courses:*

- ART 263—Art History I
- ART 264—Art History II
- ART 265—Art History III
- CMEM 210—Media Literacy
- ENG 205—Language: Culture and Mind
- ENG 220—Topics in Literature
- ENG 293—Introduction to Creative Writing
- FNA 160—Understanding the Visual Arts
- GOVT 210—Introduction to Political Theory
- MUSH 261—Music Listening
- MUSH 361—History of Music I
- MUSH 362—History of Music II
- PHIL 203—Social Ethics
- PHIL 306—Introduction to Logic
- THEA 110—Introduction to Theatre, or  
 A foreign language course

HIS 201—Global Studies, or  
 HIS 202—American Studies ..... 3  
 PHIL 200—Introduction to Philosophy ..... 3  
 BIOL 110—Human Anatomy ..... 3  
 SCI 109—Physical Science for Elementary  
 Teachers ..... 3  
 MATH 232—Math for Elementary  
 Teachers II (prerequisite MATH 231) ..... 3  
 PSY 154—Introduction to Psychology ..... 3  
 GOVT 141—United States Government, or  
 \*GOVT 362—Current World Problems ..... 3  
 GEO 100—Fundamentals of Geography, or  
 \*GEO 300—World Geography, or  
 \*SOC 305—Cultural Anthropology ..... 3  
 HLTH 151—Wellness: Theory in Action, or  
 HS 101—Nutrition and Well Being ..... 3  
 \*Meets the non-western culture course requirement. One  
 non-western culture course must be completed.

**Early Elementary**

**Academic Component ..... 21-23**

The academic component may be chosen from English, art, music, fine arts-multidisciplinary, speech-theatre, French, Spanish, mathematics, science, or social studies (see Early Elementary Program for list of spe-

cific courses in each component).

**3. Area of Concentration in LBD  
 and Middle Grades (5-9)**

**Special Education ..... 27**  
 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 360—Characteristics of Learning  
 and Behavior Disorders ..... 3  
 EDSP 537—Educational Assessment of  
 Exceptional Children ..... 3  
 EDSP 551—Curriculum for Pre-School  
 Exceptional Children ..... 3  
 EDSP 553—Language Arts for the  
 Exceptional Child ..... 3  
 EDSP 555—Prescriptive Teaching for Children  
 with Learning and Behavior Problems ..... 3  
 EDSP 557—Preparation for Exceptional  
 Students ..... 3

**Education ..... 32**

EDEL 301—Media Strategies ..... 2  
 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  
 the Middle Grades ..... 3  
 EDMG 347—Literature and Materials for  
 Preadolescents ..... 3  
 EDMG 332—Reading Strategies for the  
 Middle Grades ..... 3  
 EDMG 341—Teaching Math in the  
 Middle Grades ..... 3  
 EDMG 342—Teaching Social Studies in  
 the Middle Grades ..... 3  
 EDMG 343—Teaching Language Arts in  
 the Middle Grades ..... 3  
 EDUC 582—Discipline and Classroom  
 Management ..... 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, or  
 MUST 100—Rudiments of Music, and  
 MUSE 221—Music for Elementary Teachers .. 3-4



MATH 231—Mathematics for the Elementary  
Teacher I ..... 3

**General Education ..... 45**

EDUC 222—Computing Tools for Educators, or  
CIS 101—Computers for Learning ..... 3

CMSP 108—Fundamentals of Speech  
Communication ..... 3

ENG 100—Writing I ..... 3

ENG 200—Writing II ..... 3

MATH 123—Introduction to Statistics, or  
MATH 131—Mathematical Reasoning  
and Problem Solving, or  
MATH 141—Trigonometry, or  
MATH 152—College Algebra, or  
MATH 174—Precalculus ..... 3

**Humanities Elective**

*Choose three hours from the following courses:*

ART 263—Art History I  
ART 264—Art History II  
ART 265—Art History III  
CMEM 210—Media Literacy  
ENG 205—Language: Culture and Mind  
ENG 220—Topics in Literature  
ENG 293—Introduction to Creative Writing  
FNA 160—Understanding the Visual Arts  
GOVT 210—Introduction to Political Theory  
HIS 201—Global Studies  
HIS 202—American Studies  
MUSH 261—Music Listening  
MUSH 361—History of Music I  
MUSH 362—History of Music II  
PHIL 203—Social Ethics  
PHIL 306—Introduction to Logic  
THEA 110—Introduction to Theatre, or  
A foreign language course

HIS 201—Global Studies, or  
HIS 202—American Studies ..... 3

PHIL 200—Introduction to Philosophy ..... 3

BIOL 110—Biological Science for Elementary  
Teachers ..... 3

SCI 109—Physical Science for Elementary  
Teachers ..... 3

MATH 232—Math for the Elementary  
Teacher II (prerequisite MATH 231) ..... 3

PSY 154—Introduction to Psychology ..... 3

GOVT 141—United States Government, or  
\*GOVT 362—Current World Problems ..... 3

GEO 100—Fundamentals of Geography, or  
\*GEO 300—World Geography, or  
\*SOC 305— Cultural Anthropology ..... 3

HLTH 151—Wellness: Theory in Action, or  
HS 101—Nutrition and Well Being ..... 3

\*Meets the non-western culture course requirement. One  
non-western culture course must be completed.

**Middle Grades Academic**

**Component (minimum) ..... 24**

The component must be chosen from English, sci-  
ence, social studies, and mathematics (see Middle Grades  
Program for list of specific courses in each component).

**Moderate and Severe Disabilities Program**

This program prepares individuals for professional  
certification for teaching students with moderate and  
severe disabilities in grades P-12. Students have the fol-  
lowing three options for obtaining MSD certification:

1. Single certification to teach students with moder-  
ate and severe disabilities at any grade level (P-12).
2. MSD certification and certification to teach the  
early elementary grades (P-5).
3. MSD certification and certification to teach in  
middle grades (5-9).

**1. Area of Concentration in MSD**

**Special Education ..... 33**

EDSP 230—Education of Exceptional Children .. 3

EDSP 235—Including Students with Diverse  
Needs in the Classroom ..... 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 370—Assessment of Students with MSD .. 3*

*EDSP 371—Field Experience in Assessment  
of Students with MSD ..... 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**

EDSP 551—Curriculum for Pre-School  
Exceptional Children ..... 3

*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 ..... 23**

EDEE 305—Learning Theories in Early  
Elementary Classroom ..... 3

EDEE 321—Number Concepts and Mathematics ..... 3  
 EDEE 323—Language Arts in Early Elementary ..... 3  
 EDEE 331—Reading Strategies ..... 3  
 EDEL 301—Media Strategies ..... 2  
 EDEM 330—Foundations of Reading ..... 3  
 EDF 207—Foundations of Education ..... 3  
 EDF 211—Human Growth and Development .... 3

**Integrated Component**

**(Professional Semester) ..... 15**  
 EDSP 437—Student Teaching Practicum-MSD . 12  
 EDEM 499C—Senior Teaching Seminar ..... 3

**Related Studies ..... 16**

ART 121—School Art I ..... 3  
 EDEE 327—Literature and Materials for Young Readers ..... 3  
 HLTH 301—Health, Safety and Nutrition for Early Elementary ..... 2  
 MATH 231—Mathematics for the Elementary Teachers I ..... 3  
 MUST 100—Rudiments of Music ..... 2  
 PHED 311—Movement Exploration ..... 3

**General Education ..... 45**

ENG 100—Writing I ..... 3  
 ENG 200—Writing II ..... 3  
 CMSP 108—Fundamentals of Speech Communication ..... 3  
 MATH 123—Introduction to Statistics, or  
 MATH 131—Mathematical Reasoning and Problem Solving, or  
 MATH 141—Trigonometry, or  
 MATH 152—College Algebra, or  
 MATH 174—Precalculus ..... 3  
 EDUC 222—Computing Tools for Educators, or  
 CIS 101—Computers for Learning ..... 3

**Humanities Elective**

*Choose three hours from the following courses:*

- ART 263—Art History I
- ART 264—Art History II
- ART 265—Art History III
- CMEM 210—Medial Literacy
- ENG 205—Language: Culture and Mind
- ENG 220—Topics in Literature
- ENG 293—Introduction to Creative Writing
- FNA 160—Understanding the Visual Arts
- GOVT 210—Introduction to Political Theory
- HIS 201—Global Studies
- HIS 202—American Studies

MUSH 261—Music Listening  
 MUSH 361—History of Music I  
 MUSH 362—History of Music II  
 PHIL 203—Social Ethics  
 PHIL 306—Introduction to Logic  
 THEA 110—Introduction to Theatre, or  
 A foreign language course

HIS 201—Global Studies, or  
 HIS 202—American Studies ..... 3  
 PHIL 200—Introduction to Philosophy ..... 3  
 BIOL 110—Biological Science for Elementary Teachers ..... 3  
 SCI 109—Physical Science for Elementary Teachers ..... 3  
 MATH 232—Math for the Elementary Teacher II (prerequisite MATH 232)..... 3  
 PSY 154—Introduction to Psychology ..... 3  
 GOVT 141—United States Government, or  
 \*GOVT 362—Current World Problems ..... 3  
 GEO 100—Fundamentals of Geography, or  
 \*GEO 300—World Geography, or  
 \*SOC 305—Cultural Anthropology ..... 3  
 HLTH 151—Wellness: Theory in Action, or  
 HS 101—Nutrition and Well Being ..... 3  
 \*Meets the non-western culture course requirement. One non-western culture course must be completed.

**2. Area of Concentration in MSD and Early Elementary (P-5)**

**Special Education ..... 33**  
 EDSP 230—Education of Exceptional Children ..... 3  
 EDSP 235—Including Students with Diverse Needs in the Classroom ..... 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 370—Assessment of Students with MSD ..... 3*  
*EDSP 371—Field Experience in Assessment of Students with MSD ..... 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**  
 EDSP 551—Curriculum for Pre-School Exceptional Children ..... 3  
*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 ..... 32**

- EDEE 305—Learning Theories in Early Elementary Classroom ..... 3
- EDEE 321—Numbers Concepts and Mathematics ..... 3
- EDEE 322—Teaching Social Studies in Early Elementary ..... 3
- EDEE 323—Language Arts in Early Elementary ..... 3
- EDEE 331—Reading Strategies ..... 3
- EDEL 301—Media Strategies ..... 2
- EDEM 330—Foundations of Reading ..... 3
- EDF 207—Foundations of Education ..... 3
- EDF 211—Human Growth and Development .... 3
- SCI 490—Science for Elementary Teachers ..... 3
- EDUC 582—Discipline and Classroom Management ..... 3

**Integrated Component**

**(Professional Semester) ..... 15**

- EDEE 423—Supervised Student Teaching ..... 6
- EDEM 499C—Senior Teaching Seminar ..... 3
- EDSP 437—Student Teaching Practicum-MSD . 6

**Related studies ..... 18**

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

**General Education ..... 45**

- EDUC 222—Computing Tools for Educators, or CIS 101—Computers for Learning ..... 3
- CMSP 108—Fundamentals of Speech Communication ..... 3
- ENG 100—Writing I ..... 3
- ENG 200—Writing II ..... 3
- MATH 123—Introduction to Statistics, or MATH 131—Mathematical Reasoning and Problem Solving, or MATH 141—Trigonometry, or MATH 152—College Algebra, or MATH 174—Precalculus ..... 3

**Humanities Elective**

*Choose three hours from the following courses:*

- ART 263—Art History I
- ART 264—Art History II
- ART 265—Art History III
- CMEM 210—Medial Literacy
- ENG 205—Language: Culture and Mind
- ENG 220—Topics in Literature
- ENG 293—Introduction to Creative Writing
- FNA 160—Understanding the Visual Arts
- GOVT 210—Introduction to Political Theory
- HIS 201—Global Studies
- HIS 202—American Studies
- MUSH 261—Music Listening
- MUSH 361—History of Music I
- MUSH 362—History of Music II
- PHIL 203—Social Ethics
- PHIL 306—Introduction to Logic
- THEA 110—Introduction to Theatre, or A foreign language course

- HIS 201—Global Studies, or
- HIS 202—American Studies ..... 3
- PHIL 200—Introduction to Philosophy ..... 3
- BIOL 110—Biological Science for Elementary Teachers ..... 3
- SCI 109—Physical Science for Elementary Teachers ..... 3
- MATH 232—Math for the Elementary Teacher II (prerequisite MATH 231) ..... 3
- PSY 154—Introduction to Psychology ..... 3
- GOVT 141—United States Government, or \*GOVT 363—Current World Problems ..... 3
- GEO 100—Fundamentals of Geography, or \*GEO 300—World Geography, or \*SOC 305—Cultural Anthropology ..... 3
- HLTH 151—Wellness: Theory in Action, or HS 101—Nutrition and Well Being ..... 3
- \*Meets the non-western culture course requirement. One non-western culture course must be completed

**Early Elementary**

**Academic Component (minimum) ..... 21**

The academic component must be chosen from English, art, music, fine arts-multidisciplinary, speech-theatre, French, Spanish, mathematics, or social studies (see Early Elementary Program for list of specific course required in each component).

**3. Area of Concentration in MSD  
and Middle Grades (5-9)**

**Special Education ..... 33**  
 EDSP 230—Education of Exceptional Children ..... 3  
 EDSP 235—Including Students with Diverse Needs in the Classroom ..... 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 370—Assessment of Students with MSD .. 3*  
*EDSP 371—Field Experience in Assessment of Students with MSD ..... 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**  
 EDSP 551—Curriculum for Pre-School Exceptional Children ..... 3  
*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 ..... 32**  
 EDEL 301—Media Strategies ..... 2  
 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 the Middle Grades ..... 3  
 EDMG 332—Reading Strategies for the Middle Grades ..... 3  
 EDMG 341—Teaching Math in the Middle Grades ..... 3  
 EDMG 342—Teaching Social Studies in the Middle Grades ..... 3  
 EDMG 343—Teaching Language Arts in the Middle Grades ..... 3  
 EDMG 347—Literature and Materials for Preadolescents ..... 3  
 EDUC 582—Discipline and Classroom Management ..... 3

**Integrated Component (Professional Semester) ..... 15**  
 EDEE 423—Supervised Student Teaching ..... 6  
 EDEM 499C—Senior Teaching Seminar ..... 3  
 EDSP 437—Student Teaching Practicum-MSD . 6

**Related studies ..... 6-7**  
 ART 121—School Art I, or  
 MUST 100—Rudiments of Music, **and**  
 MUSE 221—Music for Elementary Teachers ... 3-4  
 MATH 231—Mathematics for the Elementary Teachers I ..... 3

**General Education ..... 48**  
 EDUC 222—Computing Tools for Educators, or  
 CIS 101—Computers for Learning ..... 3  
 CMSP 108—Fundamentals of Speech Communication ..... 3  
 ENG 100—Writing I ..... 3  
 ENG 200—Writing II ..... 3  
 MATH 123—Introduction to Statistics, or  
 MATH 131—Mathematical Reasoning and Problem Solving, or  
 MATH 141—Trigonometry, or  
 MATH 152—College Algebra, or  
 MATH 174—Precalculus ..... 3

**Humanities Elective**

*Choose three hourse from the following courses:*

ART 263—Art History I  
 ART 264—Art History II  
 ART 265—Art History III  
 CMEM 210—Medial Literacy  
 ENG 205—Language: Culture and Mind  
 ENG 220—Topics in Literature  
 ENG 293—Introduction to Creative Writing  
 FNA 160—Understanding the Visual Arts  
 GOVT 210—Introduction to Political Theory  
 HIS 201—Global Studies  
 HIS 202—American Studies  
 MUSH 261—Music Listening  
 MUSH 361—History of Music I  
 MUSH 362—History of Music II  
 PHIL 203—Social Ethics  
 PHIL 306—Introduction to Logic  
 THEA 110—Introduction to Theatre, or  
 A foreign language course

HIS 201—Global Studies, or  
 HIS 202—American Studies ..... 3  
 PHIL 200—Introduction to Philosophy ..... 3  
 BIOL 110—Biological Science for Elementary Teachers ..... 3  
 SCI 109—Physical Science for Elementary Teachers ..... 3  
 MATH 232—Math for the Elementary Teacher II (prerequisite MATH 231)..... 3  
 PSY 154—Introduction to Psychology ..... 3

GOVT 141—United States Government, or *GOVT 363—Current World Problems .....	3
GEO 100—Fundamentals of Geography, or *GEO 300—World Geography, or *SOC 305—Cultural Anthropology .....	3
HLTH 151—Wellness: Theory in Action, or HS 101—Nutrition and Well Being .....	3
*Meets the non-western culture course requirement. One non-western culture course must be completed.	

**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).

**Portfolio Requirements**

All MSD students will complete a required portfolio component in the following courses:

1. EDSP 370 and EDSP 371—Assessment and Planning Portfolio
2. EDSP 373 and EDSP 375—Curriculum and Instruction Design Portfolio
3. EDSP 356, EDSP 374, and EDSP 375—Instruction and Classroom Management Portfolio
4. EDSP 437—Preservice Teacher Portfolio

**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 .	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 360—Characteristics of Individuals with Learning Disabilities and Behavior Disorders .	3
EDSP 537—Educational Assessment of Exceptional Children, or Advisor approved course from MSD Program ...	3

EDSP 555—Prescriptive Teaching for Children with Learning and Beh. Problems, or Advisor approved course from MSD Program ...	3
EDSP 320—Introduction to Corrective Speech, or PSY 359—Applied Behavior Analysis .....	3
Electives (approved by advisor) .....	6
Laboratory experiences EDSP 435 or EDSP 436 .....	4
<b>Total .....</b>	<b>34</b>

**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 360—Characteristics of Individuals with Learning Disabilities and Behavior Disorders .	3
EDSP 537—Educational Assessment of Exceptional Children, or Advisor approved course from MSD Program ...	3
EDSP 555—Prescriptive Teaching for Children with Learning and Beh. Problems, or Advisor approved course from MSD Program ...	3
PSY 359—Applied Behavior Analysis .....	3
Laboratory experiences EDSP 435 or EDSP 436 .....	4
<b>Total .....</b>	<b>25</b>

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

Dayna S. Brown, Chair

201 Laughlin Health Building  
(606) 783-2180

The Department of Health, Physical Education & Sport Sciences offers general education courses, majors and minors in health promotion, a major in physical education, and a minor in 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

M. Ballard, W. Breeding, D. Brown, L. Fitzgerald,  
J. Jarnagin, L. Litter, J. VanSickle

### Minor

PHED 201—Introduction to Coaching .....	3
PHED 220—Athletic Training I .....	3
PHED 330—Scientific Bases of Coaching .....	3
PHED 332—Principles of Strength & Conditioning .....	3
PHED 336—Foundations of Sport Psychology ..	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 .....	3
PHED 477—Internship in Coaching .....	3
<b>Total .....</b>	<b>25</b>

*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

D. Brown, R. Grueninger,  
T. Hardman, W. Kerr, S. Levin, M. Martin

### 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

### 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 health

education programs are HLTH 151, one physical activity course, CIS 101 or EDUC 222, BIOL 231 and 232.

**Major (Health Promotion)**

HLTH 160—Foundations in Health .....	3
HLTH 205—Psychological Health .....	3
HLTH 206—Principles of Nutrition .....	3
HLTH 230—Community Health.....	3
HLTH 302—Evaluation in Health Education and Health Promotion .....	3
HLTH 310—Health and Wellness Promotion .....	3
HLTH 360—Family Health .....	3
HLTH 425—Planning and Managing Health/Wellness Programs .....	3
HLTH 430—Consumer Health .....	3
HLTH 470—Practicum .....	15
HLTH 490—Issues in Health .....	3
HLTH 499C—Senior Seminar in Health Promotion .....	3
HLTH 518—Use and Abuse of Drugs .....	3

**Minor (Health Promotion)**

HLTH 160—Foundations in Health .....	3
HLTH 205—Psychological Health .....	3
HLTH 310—Health and Wellness Promotion .....	3
HLTH 360—Family Health .....	3
HLTH 430—Consumer Health .....	3
HLTH 477—Field Experiences in Health .....	3
HLTH 490—Issues in Health .....	3
HLTH 518—Use and Abuse of Drugs .....	3

**Major (Health Education P-12)**

HLTH 160—Foundations in Health .....	3
HLTH 203—Safety and First Aid .....	3
HLTH 205—Psychological Health .....	3
HLTH 206—Principles of Nutrition .....	3
HLTH 230—Community Health.....	3
HLTH 302—Evaluation in Health Education and Health Promotion .....	3
HLTH 360—Family Health .....	3
HLTH 430—Consumer Health .....	3
HLTH 475—The School Health Program.....	3
HLTH 490—Issues in Health .....	3
HLTH 518—Use and Abuse of Drugs .....	3

**Required Professional Education Classes:**

HLTH 300—Health in the Elementary School ...	2
HLTH 304—Health in the Secondary School.....	2
HLTH 377—Clinical and Field Experiences in School Health P-12 .....	2

**Suggested Course Sequence  
Health Promotions Major  
Freshman Year**

**First Semester**

General Education Core .....	9
HLTH 151—Wellness: Theory in Action.....	3
HLTH 203—Safety and First Aid .....	3
<b>Total .....</b>	<b>15</b>

**Second Semester**

General Education Core .....	15
HLTH 160—Introduction to Health .....	3
<b>Total .....</b>	<b>18</b>

**Sophomore Year**

**First Semester**

General Education Requirements .....	3
HLTH 206—Introduction to Nutrition.....	3
HLTH 230—Community Health.....	3
PSY 154—Introduction to Psychology .....	3
Minor .....	6
<b>Total .....</b>	<b>18</b>

**Second Semester**

General Education Requirements .....	3
BIOL 231—Human Anatomy .....	3
CIS 101—Computers for Learning, or EDF 211—Human Growth and Development ....	3
EDUC 222—Computing Tools for Educators ....	3
HLTH 205—Psychological Health .....	3
Minor .....	6
<b>Total .....</b>	<b>18</b>

**Junior Year**

**First Semester**

BIOL 232—Human Physiology .....	3
HLTH 302—Evaluation in Health .....	3
HLTH 310—Health and Wellness Promotion .....	3
Minor .....	6
<b>Total .....</b>	<b>15</b>

**Second Semester**

HLTH 360—Family Health .....	3
HLTH 425—Planning and Managing Health and Wellness.....	3
HLTH 430—Consumer Health .....	3
HLTH 490—Issues in Health .....	3
Minor .....	3
<b>Total .....</b>	<b>15</b>

**Senior Year**

**First Semester**

HLTH 499C—Senior Seminar in Health Promotion .....	3
HLTH 518—Use and Abuse of Drugs .....	3
Minor, or General Education Requirements .....	9
<b>Total .....</b>	<b>15</b>

**Second Semester**

**Professional Semester**

HLTH 470—Practicum .....	15
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**P-12 Health Major**

**Freshman Year**

**First Semester**

General Education Requirements .....	9
HLTH 151—Wellness: Theory in Action .....	3
HLTH 203—Safety and First Aid .....	3
<b>Total .....</b>	<b>15</b>

**Second Semester**

General Education Requirements .....	15
HLTH 160—Foundations in Health .....	3
<b>Total .....</b>	<b>18</b>

**Sophomore Year**

**First Semester**

General Education Requirements .....	3
EDF 207—Foundations of Education .....	3
HLTH 206—Principles of Nutrition .....	3
HLTH 230—Community Health .....	3
PSY 154—Introduction to Psychology .....	3
Minor .....	3
<b>Total .....</b>	<b>18</b>

**Second Semester**

CIS 101—Computers for Learning .....	3
CMSP 108—Fundamentals of Speech Communication .....	3
EDF 211—Human Growth and Development ....	3
HLTH 205—Psychological Health .....	3
Minor .....	3
<b>Total .....</b>	<b>15</b>

**Junior Year**

**First Semester**

BIOL 231—Human Anatomy .....	3
EDF 311—Learn Theories in the Classroom .....	3
EDSE 333—Field Experience in Secondary Classrooms. ....	2
HLTH 302—Evaluation in Health .....	3
Minor .....	6
<b>Total .....</b>	<b>17</b>

**Second Semester**

General Education Requirement .....	3
EDSE 312—Teaching Skills and Media .....	3
HLTH 300—Health in Elementary School .....	2
HLTH 360—Family Health .....	3
HLTH 490—Issues in Health .....	3
Minor .....	3
<b>Total .....</b>	<b>17</b>

**Senior Year**

**First Semester**

EDSP 332—Teaching the Exceptional Student ..	2
HLTH 304—Health in the Secondary School. ....	3
HLTH 475—The School Health Program .....	3
HLTH 518—Use and Abuse of Drugs .....	3
Minor .....	6
<b>Total .....</b>	<b>18</b>

**Second Semester**

HLTH 499D—Senior Seminar in Health Education .....	1
<b>Professional Semester</b>	
EDSE 499C—Teacher in Today’s Schools .....	2
EDSE 416—Student Teaching .....	12
<b>Total .....</b>	<b>15</b>

**Bachelor of Arts**

**Physical Education Teaching P-12**

**Faculty**

D. Brown, L. Fitzgerald, R. Grueninger,  
W. Kerr, M. Magner, J. 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

The physical education curriculum emphasizes the study of the art and science of teaching human motion in sport, dance, and exercise. The major entails 39-45 semester hours. Teacher certification, primary through high school (P-12) requires an additional 28 semester hours. A minor is not offered.

The Teaching P-12 content core comprises seven classes.

Specific general education courses required as part of the Physical Education Major include BIOL 231, CIS 101 or EDUC 222, HLTH 151, SOC 101, and PSY 154 (“C” or better).

### Content Courses

PHED 150—Introduction to Physical Education .....	3
PHED 205—Lifetime Fitness .....	3
PHED 301—Evaluation in Physical Education and Recreation .....	3
PHED 315—Motor Development and Motor Learning .....	3
PHED 306—Kinesiology .....	3
PHED 430—Psychosocial Dimensions of Sport .....	3
PHED 432—Physiology of Exercise .....	3
<b>Total .....</b>	<b>21</b>

### Teacher Certification Courses (P-12)

See “Teacher Education Program” and “Professional Experiences.”

<b>Complete each of the following .....</b>	<b>6</b>
PHED 213—Individual Sports .....	1

PHED 214—Racket Sports .....	1
PHED 215—Team Sports .....	1
PHED 216—Lifetime Pursuits and Leisure Activity .....	1
PHED 217—Gymnastics and Martial Arts .....	1
PHED 218—Dance .....	1
PHED 212—Games and Rhythmical Activities for Elementary Teachers .....	3
PHED 300—Physical Education in the Elementary School .....	3
PHED 303—Physical Education in the Secondary School .....	3
PHED 475—Adapted Physical Education .....	3
PHED 499C—Senior Capstone .....	1
<b>Subtotal .....</b>	<b>19</b>

**Professional Education .....** 26

**Total .....** 45

### Suggested Sequence of Courses for Teaching P-12 Physical Education Major Freshman Year

#### First Semester

Select four courses fulfilling General Education Requirements .....	12
PHED 150—Introduction to Physical Ed. ....	3
PHED 216—Lifetime Pursuits and Leisure Activities, and/or .....	1
PHED 217—Gymnastics and Martial Arts, and/or .....	1
PHED 218—Dance .....	1
<b>Semester Total .....</b>	<b>16-17</b>

#### Second Semester

Select five courses fulfilling General Education Requirements .....	15
PHED 213—Individual Sport	
PHED 214—Racket Sports, and/or	
PHED 215—Team Sports .....	1-2
<b>Semester Total .....</b>	<b>16-17</b>

### Sophomore Year

#### First Semester

Select three courses fulfilling General Education Requirements .....	9
EDF 207—Foundation of Education .....	3
PHED 301—Evaluation in Health, Physical Education, and Recreation .....	3
Minor or Second Major .....	3
<b>Semester Total .....</b>	<b>18</b>

**Second Semester**

BIOL 231—Human Anatomy .....	3
EDF 211—Human Growth and Development ....	3
PHED 212—Games and Rhythms for Elementary Teachers .....	3
PHED 213—Individual Sports, and/or	
PHED 214—Racket Sports, and/or	
PHED 215—Team Sports .....	1
Minor or Second Major .....	6
<b>Semester Total .....</b>	<b>16-17</b>

**Junior Year**

**First Semester**

Select one course fulfilling General Education Requirements .....	3
EDF 311—Learning Theories in the Classroom..	3
PHED 315—Motor Development and Motor Learning .....	3
PHED 300—Physical Education in the Elementary School .....	3
PHED 205—Lifetime Fitness .....	3
PHED 216—Lifetime Pursuits and Leisure Activity, and/or	
PHED 217—Gymnastics and Martial Arts, and/or	
PHED 218—Dance .....	1
<b>Semester Total .....</b>	<b>16-17</b>

**Second Semester**

<b>(Education Methods and Technology)</b>	
EDSE 312—Teaching Skills and Media .....	3
PHED 306—Kinesiology .....	3
PHED 303—Physical Education in the Secondary School .....	3
PHED 475—Adapted Physical Education .....	3
Minor or Second Major .....	6
<b>Semester Total .....</b>	<b>18</b>

**Senior Year**

**First Semester**

PHED 432—Physiology of Exercise .....	3
PHED 430—Psychosocial Dimensions of Sport and Physical Activity .....	3
Minor .....	12
<b>Semester Total .....</b>	<b>18</b>

**Second Semester**

EDSE 499C—Teacher in Today’s Schools .....	2
EDSE 416—Student Teaching .....	12
PHED 499D—Senior Capstone .....	1
<b>Semester Total .....</b>	<b>15</b>

**Exercise Science**

**Faculty**

D. Brown, J. Crandall, R. Grueninger, 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

**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 General Chemistry I.....	3
CIS 101—Computers for Learning .....	3
HLTH 151—Wellness: Theory to Action .....	3
MATH 123—Introduction to Statistics .....	3
PHIL 203—Social Ethics, or	
PHIL 306 Introduction to Logic .....	3
PHED 499D—Integrative Capstone .....	3
PHYS 201—Elementary Physics I, or	
SCI 103—Introduction to Physical Sciences .....	3
PSY 154—Introduction to Psychology .....	3
SOC 101—Introduction to 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 Promotion and Risk Reduction .....	3
PHED 150—Introduction to Physical Education and Exercise Science .....	3
PHED 205—Lifetime Fitness .....	3
PHED 220—Athletic Training I .....	3
PHED 301—Evaluation in Health, Phys. Education .....	3
PHED 306—Kinesiology .....	3
PHED 315—Motor Development and Motor Learning .....	3
PHED 326—Exercise Program Leadership .....	3
PHED 332—Principles of Strength and Conditioning .....	3
PHED 423—Exercise Testing and Prescription for Special Populations .....	3
PHED 432—Exercise Physiology .....	3
<b>Total .....</b>	<b>45</b>

**Option 1: Corporate Wellness/Clinical**

PHED 424—Principles and Practice of Kinesiotherapy, or	
PHED 475—Adapted Physical Education .....	4
PHED 550—Planning and Managing Exercise Programs .....	3
PHED 551—Exercise Testing and Prescriptions ..	3
PHED 553A—Corporate Practicum .....	3
PHED 553B—Clinical Practicum .....	3
<b>Total .....</b>	<b>15-16</b>

**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
<b>Total .....</b>	<b>16</b>

**Freshman Year**

<b>First Semester</b>	
Select four classes fulfilling General Education Requirements .....	12
PHED 150—Introduction to Physical Education	3
<b>Semester Total .....</b>	<b>15</b>

<b>Second Semester</b>	
Select five classes fulfilling General Education Requirements .....	15

PHED 205—Lifetime Fitness .....	3
<b>Semester Total .....</b>	<b>18</b>

**Sophomore Year**

<b>First Semester</b>	
Select one course fulfilling General Education requirements .....	3
BIOL 231—Human Anatomy .....	3
MATH 123—Introduction to Statistics .....	3
HLTH 203—Safety and First Aid .....	3
HLTH 206—Principles of Nutrition .....	3
<b>Semester Total .....</b>	<b>18</b>

<b>Second Semester</b>	
Elective—Social Science (PSY 154 or SOC 101) .....	3
CIS 101—Computers for Learning .....	3
BIOL 232—Human Physiology .....	3
PHED 220—Athletic Training .....	3
ENG 200—Writing II .....	3
<b>Semester Total .....</b>	<b>15</b>

**Junior Year**

<b>First Semester</b>	
HLTH 310—Health and Wellness Promotion .....	3
Elective (PSY 154 or SOC 101) .....	3
PHED 315—Motor Development and Motor Learning .....	3
HLTH 310—Health Promotion and Risk Reduction .....	3
PHED 332—Principles of Strength and Conditioning .....	3
<b>Semester Total .....</b>	<b>18</b>

<b>Second Semester</b>	
PHED 306—Kinesiology .....	3
PHED 432—Physiology of Exercise .....	3
PHED 326—Exercise Program Leadership .....	3
PHED 423—Exercise Testing and Prescription for Special Populations .....	3
Elective .....	3
<b>Semester Total .....</b>	<b>15</b>

**Senior Year**

<b>First Semester</b>	
PHED 499D—Senior Capstone .....	3
PHED 550—Planning and Managing Exercise Programs, or .....	3
PHED 424—Principles and Practice in Kinesiotherapy .....	3
PHED 551—Exercise Testing and Prescription, or .....	3
PHED 475—Adapted Physical Education .....	4
3 electives or 2 electives and PHED 553A .....	9

<b>Semester Total</b> .....	<b>18</b>
<b>Second Semester</b>	
PHED 553 B or C .....	3
Three Electives .....	9
<b>Semester Total</b> .....	<b>12</b>
<b>Total Hours</b> .....	<b>132</b>

Choose six additional hours from the list of available courses .....	6
Practical Living (FIN 264 required by program) ..	3
PHED 499D—Senior Capstone .....	3
<b>Total</b> .....	<b>48</b>

## Sports Administration

### Faculty

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. Field experience in sport management.

### Assessment Procedures

Senior capstone course

### Sports Management Major

#### General Education Core Requirements

##### Required Core

CMSP 108—Fundamentals of Speech Communication .....	3
ENG 100—Writing I .....	3
ENG 200—Writing II .....	3
MATH .....	3
Computer Competence (CIS 101 program supplemental required) .....	3

##### Area Studies

Humanities (CMSP 350 required by program) ... 3

Choose six additional hours from the list of available courses ..... 6

Natural and Mathematical Sciences  
Choose three courses from the list ..... 9

Social and Behavioral Sciences  
(ECON 201 required by program) ..... 3

### Business

ACCT 281—Principles of Accounting I .....	3
ACCT 282—Principles of Accounting II .....	3
CIS 311—Introduction to Management Information .....	3
ECON 202—Principles of Microeconomics .....	3
FIN 360—Business Finance .....	3
MKT 304—Marketing .....	3
MKT 454—Promotional Strategies .....	3
MNGT 261—The Legal Environment of Business Organizations .....	3
MNGT 301—Principles of Management .....	3
MNGT 311—Human Resource Management .....	3
<b>Total</b> .....	<b>30</b>

### Communications

Choose one of the following .....	3
CMAP 382—Principles of Public Relations	
CMAP 383—Principles of Advertising	
CMAP 482—Public Relations Practices	

Choose two of the following ..... 6

CMEM 151—Introduction to Broadcasting Techniques	
CMEM 358—Sports Writing	
CMEM 357—Sportscasting	
CMEM 435—Interviewing Electronic Media	

Choose two of the following ..... 6

CMSP 385—Persuasion	
CMSP 383—Small Group Communication	
CMSP 390—Conflict and Communication	
CMJN 491—Law and Ethics of the Press .....	3
CMEM 459—Electronic Media and Law/Regulations .....	3

### Health, Physical Education, and Recreation

PHED 202—Intro. to Sports Administration .....	3
PHED 203—Facility and Event Management ....	3
PHED 307—Sports Marketing .....	3
PHED 308—Governance in Sports .....	3
PHED 401—Organization and Administration of Physical Education .....	3
PHED 408—Pre-practicum .....	1

PHED 430—The Psychosocial Dimensions of Sport and Physical Activity .....	3
PHED 471—Internship .....	15
<b>Total .....</b>	<b>34</b>

**Total Program Hours ..... 133**

**Suggested course sequence for  
Sport Management Concentration  
Freshman Year**

**First Semester**

CIS 101—Computers for Learning (or equivalent) .....	3
CMEM 151—Intro. to Broadcasting Tech. ....	3
ECON 201—Principles of Macroeconomics .....	3
ENG 100—Writing I .....	3
PHED 202—Introduction to Sports Administration .....	3
<b>Total .....</b>	<b>15</b>

**Second Semester**

CMSP 108—Fundamentals of Speech Communication .....	3
ECON 202—Principles of Microeconomics .....	3
FIN 264—Personal Finance .....	3
MATH .....	3
PHED 203—Facility/Event Management .....	3
<b>Total .....</b>	<b>15</b>

**Sophomore Year**

**First Semester**

ACCT 281—Principles of Accounting I .....	3
CMSP 350—Communication, Culture and Diversity .....	3
ENG 200—Writing II .....	3
MKT 304—Marketing .....	3
MNGT 261—The Legal Environment of Business Organizations .....	3
<b>Total .....</b>	<b>15</b>

**Second Semester**

ACCT 282—Principles of Accounting II .....	3
CMAE Elective .....	3
MNGT 301—Principles of Management .....	3
PHED 307—Sports Marketing .....	3
Humanities Elective .....	3
<b>Total .....</b>	<b>15</b>

**Junior Year**

**First Semester**

CIS 311—Management Information Systems ....	3
CMEM Elective (choose 357, 358, or 435) .....	3
CMSP (choose from 383, 385, or 390) .....	3

MNGT 311—Human Resource Management ....	3
PHED 308—Governance in Sport .....	3
<b>Total .....</b>	<b>15</b>

**Second Semester**

CMEM 459—Electronic Media Law and Regulation .....	3
CMSP Elective (choose 383, 385, or 390) .....	3
FIN 360—Business Finance .....	3
Two electives from Gen. Ed. Natural and Mathematical Sciences .....	6
<b>Total .....</b>	<b>15</b>

**Senior Year**

**First Semester**

MKT 454—Promotional Strategies .....	3
PHED 401—Organization and Administration of Athletics .....	3
PHED 430—Psychosocial Dimensions of Sport and Physical Activity .....	3
Natural and Mathematical Science elective .....	3
Social and Behavioral Science elective .....	3
<b>Total .....</b>	<b>15</b>

**Second Semester**

CMJN 491—Law and Ethics of the Press .....	3
PHED 408—Pre-Practicum .....	1
PHED 499D—Senior Capstone .....	3
Social and Behavioral Science elective .....	3
Elective .....	3
<b>Total .....</b>	<b>13</b>

**Summer Semester**

PHED 471—Internship .....	15
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**Concentration Total ..... 133**

## Department of Leadership & Secondary Education

Paul McGhee, Interim Chair

503 Ginger Hall

(606) 783-2261

### Faculty

L. Aagaard-Boram, B. Klecker,

L. Lennex, R. Skidmore

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 (phone 783-2065). 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 in the Classroom ..	3
EDSE 312—Educational Methods and Technology .....	3
EDSP 332—Teaching the Exceptional Student ..	2
EDSE 333—Field Experiences in Secondary Classrooms .....	2
<i>(required for some majors)</i>	

#### General Education Course

PSY 154—Introduction to Psychology .....	3
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#### Professional Semester ..... 14

EDSE 499C—Teacher in Today's Schools .....	2
EDSE 416—Student Teaching .....	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.*

# 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](mailto:m.seelig@moreheadstate.edu)

### **Department of Art**

BA - Art

### **Department of Communication & Theatre**

BA - Communication with options:

Advertising-Public Relations/Organizational Communication

Applied Communication

Journalism

Production

BA - Theatre

### **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**

BMED - Music Education

BM - Music Performance

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

### Art

#### Faculty

D. Bartlett, D. Ferrell, R. Franzini, J. Gawne,  
D. Golding, J. Gritton, E. Mesa-Gaido,  
G. Mesa-Gaido, 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 and Alumni Employer 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 I .....	3
ART 214—Painting Techniques I .....	3
<i>Choose two of three</i> .....	6
ART 263—Art History I	
ART 264—Art History II	
ART 265—Art History III	
<i>Choose one of two</i> .....	3
ART 245—Ceramics	
ART 294—Sculpture I	
<i>Choose one of three</i> .....	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
<b>Art Major (minimum) credits .....</b>	<b>36</b>

#### 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, Commercial Art, Art History, Art Education, Internship Courses as choices) .....	12
<b>Art Concentration (minimum) credits .....</b>	<b>54</b>



**Art Major with Teacher Cert. 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
<i>Choose two of three</i> .....	6
ART 263—Art History I	
ART 264—Art History II	
ART 265—Art History III	
<i>Choose one of two</i> .....	3
ART 245—Ceramics	
ART 294—Sculpture I	
<i>Choose one of three</i> .....	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 Material and Methods ...	3
ART 321—Materials and Methods for Secondary Art .....	3
<b>Art Major (minimum) credits</b> .....	<b>36</b>

**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
<b>Art Concentration (minimum) credits</b> .....	<b>54</b>

**Required Courses for Certification from  
the College of Education**

EDEL 333—Fundamentals of Elementary Education .....	4
EDF 207—Foundations of Education .....	3
EDF 211—Human Growth and Development ....	3
EDF 311—Learning Theories in the Classroom .	3
EDSE 312—Teaching Skills and Media .....	3
EDSP 332—Teaching the Exceptional Child ....	2
EDSE 499C—Teacher in Today’s Schools .....	2
EDSE 416—Student Teaching .....	12
<b>Total</b> .....	<b>32</b>

**Studio Art Minor**

ART 101—Two-Dimension Foundation .....	3
ART 102—Three-Dimensional Foundation .....	3
ART 103—Color Foundation .....	3
<i>Choose two of three</i> .....	6
ART 263—Art History I	
ART 264—Art History II	

ART 265—Art History III	
<i>Choose one of two</i> .....	3
ART 245—Ceramics	
ART 294—Sculpture I	
<i>Choose one of three</i> .....	3
ART 351—Intaglio Printmaking	
ART 352—Lithographic Printmaking	
ART 373—Basic Black and White Photography	
ART elective .....	3
<b>Studio Art Minor (minimum) credits</b> .....	<b>24</b>

**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
<b>Art History Minor (minimum) credits</b> .....	<b>21</b>

**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, T. Ashmore, J. Atkins, M. Biel, N. Earl,  
R. Frank, D. Greer, J. Hill, J. Kenney, G. LaFleur,  
C. Lindell, J. Modaff, D. Plum, S. Serini,  
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 tech-

niques 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 requires 39 hours of courses within the Department as well as two specific departmental General Education courses (CMEM 210—Media Literacy - Humanities, and CMAP 166—Desktop Publishing I - Computer Competence) and Senior Seminar (Integrative Component). Students must also have a minor.

*All students majoring in Communication will take the following core courses:*

- COMM 110—History of Communications Media
- COMM 220—Communication Theory
- COMM 320—Introduction to Research Methods in Communication

There are four options for specialization within the major. Each option has four required courses, and the rest of the courses a student takes will be determined by the student's interest after discussions with his or her advisor.

#### Advertising/Public Relations/ Organizational Communications

- CMAP 382—Principles of Public Relations
- CMAP 383—Principles of Advertising
- CMSP 367—Introduction to Organizational Communications
- CMSP 371—Professional Communication Practices and Standards

### Applied Communication

- CMSP 230—Interpersonal Communication
- CMSP 350—Communication, Culture, and Diversity
- CMSP 371—Professional Communication Practices and Standards
- CMSP 390—Communication and Conflict

### Journalism

- CMJN 201—Newswriting and Reporting I
- CMJN 300—Newsgathering
- CMJN 301—Newswriting and Reporting II
- CMJN 492—Law and Ethics of the Press

### Production

- CMEM 101—Elements of Production I
- CMEM 201—Elements of Production II
- CMEM 341—Writing for Electronic Media
- CMEM 390—Web Design

Students will then choose, with their advisors, 15 hours of approved electives. All courses in the COMM, CMSP, CMAP, CMEM, and CMJN prefixes are eligible along with approved courses from outside the department, depending on the student's interests. Three hours of internship credit will be permitted to count toward the Major. Additional hours may be used as credit hours toward the degree

All students must have a minor. The only minors within the department permitted for students majoring in Communication are Speech Communication and Theatre.

### Minors

#### Advertising

- CMAP 166—Desktop Publishing & Techniques I ..... 3
- CMAP 366—Desktop Publishing & Techniques II ..... 3
- CMAP 383—Principles of Advertising ..... 3
- CMAP 390—Web Design ..... 3
- CMAP 483—Advertising Design ..... 3
- CMAP 484—Advertising Copy Writing ..... 3
- CMAP 584—Psychology of Advertising ..... 3
- Total ..... 21**

#### Electronic Media Journalism

- CMEM 101—Elements of Production I ..... 3
- CMEM 344—Broadcast News and Public Affairs ..... 3
- CMEM 444—Electronic Newsgathering ..... 3

CMJN 201—News Writing and Reporting .....	3
CMJN 300—Newsgathering .....	3
CMJN 492—Law and Ethics of the Press .....	3
Elective .....	3
<b>Total .....</b>	<b>21</b>

**Electronic Media Production**

CMEM 101—Elements of Production I .....	3
CMEM 201—Elements of Production II .....	3
CMEM 340—Video Production & Direction I .....	3
CMEM 341—Writing for the Electronic Media .....	3
CMEM 350—Audio Production and Direction .....	3
CMEM 390—Electronic Media Web Layout and Design I .....	3
Elective .....	3
<b>Total .....</b>	<b>21</b>

**Organizational Communication**

CMSP 230—Interpersonal Communication .....	3
CMSP 367—Introduction to Organizational Communication .....	3
CMSP 567—Organizational Communication .....	3
Electives (which can include ENG 390, CMAP 382 and 482) .....	12
<b>Total .....</b>	<b>21</b>

**Print Journalism**

CMJN 201—News Writing and Reporting .....	3
CMJN 204—Copyreading and Editing .....	3
CMJN 285—Photojournalism .....	3
CMJN 300—Newsgathering .....	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
<b>Total .....</b>	<b>21</b>

**Print Media Production**

CMAP 166—Desktop Publishing and Publication Techniques I .....	3
CMAP 366—Desktop Publishing and Publication Techniques II .....	3
CMEM 390—Web Design .....	3
CMJN 201—News Writing and Reporting .....	3
CMJN 204—Copyreading and Editing .....	3
CMJN 285—Introduction to Photojournalism .....	3
Electives .....	3

<b>Total .....</b>	<b>21</b>
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**Public Relations**

CMAP 166—Desktop Publishing & Techniques I .....	3
CMAP 382—Principles of Public Relations .....	3
CMAP 385—Public Relations Techniques .....	3
CMAP 482—Public Relations Practices .....	3
CMSP 367—Introduction to Organizational Communication .....	3
Electives .....	6
<b>Total .....</b>	<b>21</b>

**Speech Communication**

COMM 220—Introduction to Communication Theory .....	3
CMSP 383—Small Group Communication .....	3
CMSP 385—Persuasion .....	3
12 hours from courses with CMSP prefix .....	12
<b>Total .....</b>	<b>21</b>

**Theatre**

**Faculty**

W. Layne, T. Lockhart, R. Willenbrink, D. Watkins

**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**

**Major**

THEA 100—Fundamentals of the Theatre .....	3
THEA 200—Introduction to Dramatic Literature .....	3
THEA 210—Technical Production .....	3
THEA 284—Acting Techniques .....	3

THEA 315—Stage Make-Up .....	3
THEA 320—Scenographic and Drawing Techniques .....	3
THEA 322—Scene Design .....	3
THEA 354—Theatre History .....	3
THEA 380—Play Directing .....	3
CMSP 100—Voice and Articulation I .....	3
Theatre Electives .....	6
<b>Total .....</b>	<b>36</b>

**Minor**

THEA 100—Fundamentals of the Theatre .....	3
THEA 200—Introduction to Dramatic Literature .....	3
THEA 210—Technical Production .....	3
THEA 284—Acting Techniques .....	3
THEA 320—Scenographic and Drawing Techniques .....	3
THEA 322—Scene Design .....	3
THEA 380—Play Directing .....	3
<b>Total .....</b>	<b>21</b>

**Department of English,  
Foreign Languages &  
Philosophy**

**Philip Krummrich, Chair**  
103 Combs Building  
(606) 783-2185

**English**

**Faculty**

A. Adams, G. Colburn, G. Eklund,  
F. Helphinstine, S. Henneberg, T. Irons,  
P. Krummrich, K. Mincey, R. Morrison, S. Morrison,  
L. Neeper, B. Peters, N. Peterson, R. Royar

**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

**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 (Teaching 8-12)**

**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

**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 501—General Semantics

**Writing ..... 6**

*Select one course from the following:*  
 CMJN 301—Advanced News Writing and Reporting  
 CMJN 465—Editorial Writing  
 CMJN 560—Reviews and Criticism  
 ENG 390—Professional Writing  
 ENG 391—Advanced Expository Writing  
*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—Creative Non-Fiction  
 CMJN 358—Sports Writing  
 CMJN 364—Feature Writing

**Speech ..... 6**

*Select one course from the following:*  
 CMSP 200—Oral Interpretation  
 CMSP 309—Public Speaking  
*Select one course from the following:*  
 CMSP 310—Interpersonal Communication  
 CMSP 382—Argumentation and Debate  
 CMSP 383—Group Discussion

**Journalism ..... 3**

CMJN 201—Newswriting and Reporting

**Theatre ..... 9**

THEA 210—Technical Production  
*Select one course from the following:*  
 THEA 100—Fundamentals of the Theatre  
 THEA 110—Introduction to the Theatre  
*Select one course from the following:*  
 THEA 284—Acting Techniques  
 THEA 380—Play Directing

**English Language Arts Pedagogy ..... 9**

ENG 382—Writing in Secondary Schools  
 ENG 500—Studies in English for Teachers  
*Select one course from the following:*  
 CMJN 504—School Publications  
 SPCH 495—Administering the  
 Communications Program

**Electives ..... 12**

*Select one multicultural course from the following:*  
 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  
*Select one literary period course from the following:*  
 ENG 436—English Renaissance  
 ENG 441—Restoration and 18th Century Literature  
 ENG 442—Romantic Writers  
 ENG 443—Victorian Writers  
 ENG 444—Twentieth Century British Literature  
 ENG 545—Seventeenth 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—English Novel  
 ENG 552—Early Dramatic Literature  
 ENG 553—Modern Drama  
 ENG 563—American Fiction  
 ENG 570—Introduction to Film Literature

*Supplemental Requirements*  
 Foreign Language ..... 6  
 (Six semester hours in one foreign language, e.g., French,  
 Spanish, German, Italian, Latin)  
 EDUC 576—Reading in the Secondary School .. 3  
**Total ..... 72**

**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

**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 ..... 3**

*Select one course from the following:*  
 ENG 305—Introduction to Linguistics  
 ENG 315—Structure of English  
 ENG 393—History of the English Language  
 ENG 394—Language and Society  
 ENG 501—General Semantics  
 ENG 505—Linguistics: Grammar

**Writing ..... 6**

- ENG 390—Professional Writing
- ENG 391—Advanced Expository Writing
- ENG 395—Poetry Writing
- ENG 396—Fiction Writing
- ENG 397—Creative Non-Fiction
- ENG 583—Advanced Poetry Writing
- ENG 584—Advanced Fiction Writing

**Literature Electives ..... 12**

*Select one multicultural course from the following:*

- 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

*Select one literary period course from the following:*

- 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

*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—English Novel
- ENG 552—Early Dramatic Literature
- ENG 553—Modern Drama
- ENG 563—American Fiction
- ENG 570—Introduction to Film Literature

**English elective ..... 3**

*Select any 300-level or higher English course from the literature categories above not already used to fulfill a program requirement, or one of the following:*

- ENG 367—Old Testament Literature
- ENG 368—New Testament Literature
- ENG 528—Literary Criticism

**Supplemental Requirements**

**Foreign Language ..... 6**

(Six semester hours in one foreign language, e.g., French, Spanish, German, Italian, Latin)

**Total ..... 36**

**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 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 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—Fundamentals of C/C++ Programming

MATH—170 Introduction to Algorithms

MATH 252—Boolean Algebra

MATH 260—FORTRAN Programming

MATH 300—Introduction to Mathematical Proof

PHIL 306—Introduction to Logic

PHIL 312—Symbolic Logic

**Total Hours ..... 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 and 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 497—Technical Editing ..... 3

ENG 439—Cooperative Education ..... 3

**Technology Course**

CMAP 366—Desktop Publishing II ..... 3

**Electives ..... 9**

*Select three courses from one of the specific tracks listed below (ART; CIS/BIS; or GCT); or build a program of any three 200-level or higher across the tracks.*

*ART Track*

ART 109—Intro 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 399—Web Development

CIS 101—Computers for Learning

CIS 200—Logic and Structured Design for  
Computer Programs

CIS 202—Object-Oriented Programming  
in Visual BASIC

CIS 205—Fundamentals of C/C++ Programming

CIS 399—JAVA Programming

*Graphics Track*

GCT 103—Fundamentals of Technical Graphics

GCT 203—Technical Drawing II

GCT 303—Technical Illustration

GCT 315—Computer Aided Design

**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 410—Contemporary Philosophy

PHIL 405—History of Philosophy I

PHIL 406—History of Philosophy II

PHIL 389—Honors Seminar in Philosophy

**History ..... 3**

*Select one of the following courses:*

HIS 220—Early American History

HIS 202—American Studies

HIS 325—History of the South

HIS 357—The Renaissance and Reformation

HIS 351—England to 1688

HIS 352—England since 1688

HIS 313—Religion in American History

**Total ..... 21**

*The minor in literature does not include the general education requirements in composition (six hours).*

## French

### Faculty

E. Hastings, M. Netherton, J. Secor

### 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

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
<b>Total .....</b>	<b>30</b>

### Teaching (P-12)

Teaching majors must choose FRN 405—Linguistics and Language Teaching in addition to the 30 hours of work specified above (33 hours total).

All majors must take the capstone course, FRN 499C, in addition to the 30 or 33 hours specified above.

### 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
<b>Total .....</b>	<b>21</b>

\*Students with two years of high school French should enroll in FRN 102; students with four years of high school French should enroll in FRN 201.

It is strongly recommended that French be started in



the freshman year and that the courses be taken without interruption.

## 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

- Mid-point proficiency exams
- Exit proficiency exams
- Student portfolios

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 is a prerequisite for all other 300-and-above numbered courses except SPA 305 and SPA 320.*

## Bachelor of Arts

### General Education Requirements ..... 48

*See general education requirements for the University.*

### Major

#### Basic Language ..... 12

SPA 101—Spanish Language and Culture I

SPA 102—Spanish Language and Culture II

SPA 201—Intermediate Spanish I

SPA 202—Intermediate Spanish II

#### Advanced Language ..... 3

SPA 300—Grammar and Composition

#### Spanish Literature

#### (select one 300 and one 400 course) ..... 6

SPA 301—Survey of Peninsular Spanish Literature from 1700

SPA 302—Survey of Spanish American Literature from Colonial Times to 1880

SPA 401—Masterpieces of Spanish Literature

SPA 402—Masterpieces of Spanish American Literature

#### Approved 300-500 level electives ..... 9

#### Total ..... 30

### Teaching (P-12)

Teaching majors must choose SPA 405—Linguistics and Language Teaching in addition to the 30 semester hours of work specified above (33 hours total). SPA 320—Hispanic Culture and Civilization is recommended for those students who will take the PRAXIS II Exam.

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 33 hours requirements listed above, the non-teaching and the teaching majors must complete SPA 499C—Senior Seminar in Spanish (three semester hours). 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

<b>Basic Language</b> .....	<b>12</b>
SPA 101—Spanish Language and Culture I	
SPA 102—Spanish Language and Culture II	
SPA 201—Intermediate Spanish I	
SPA 202—Intermediate Spanish II	
<b>Advanced Language</b> .....	<b>3</b>
SPA 300—Grammar and Composition	
<b>Approved 300-500 level electives</b> .....	<b>6</b>
<b>Total</b> .....	<b>21</b>

Students who come to the University with:

- one semester of Spanish in high school should take SPA 101;
- two or three semesters of Spanish in high school should take SPA 102;
- four or five semesters of Spanish in high school should take SPA 201;
- six semesters of Spanish in high school should take SPA 202.

It is strongly recommended that Spanish be started in the freshman year and that the courses be taken without interruption.

### German, Italian, Latin

#### Faculty

M. Netherton, J. Secor

No academic programs in these languages are available. Please refer to the course description section for course offerings.

### Philosophy

#### Faculty

S. Davison, G. Luckey, 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

PHIL 200—Introduction to Philosophy .....	3
PHIL 306—Introduction to Logic .....	3
PHIL 405—Ancient and Medieval Philosophy ..	3
PHIL 406—Modern and Contemporary Philosophy .....	3
PHIL 499C—Senior Seminar in Philosophy .....	3
Additional credit in philosophy approved by the department .....	15
<b>Minimum for a major</b> .....	<b>30</b>

#### Minor

PHIL 200—Introduction to Philosophy .....	3
PHIL 306—Introduction to Logic .....	3
PHIL 405—Ancient and Medieval Philosophy ..	3
PHIL 406—Modern and Contemporary Philosophy .....	3
Additional credit in philosophy approved by the department .....	9
<b>Minimum for a minor</b> .....	<b>21</b>

### Religious Studies

#### Faculty

G. Luckey, J. Weir

There are no academic programs in religious studies, but courses are available. Please refer to the Descriptions of Courses section for course offerings.

**Department of  
Geography, Government  
& History**

Yvonne Baldwin, Chair

350 Rader Hall  
(606) 783-2655

**Geography**

**Faculty**

H. Barcus (IRAPP), R. Berglee,  
J. Holcomb, G. O'Dell, 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 24-hour minor.

Appropriate educational experiences and training are provided to prepare persons for entry into careers in teaching, 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

Portfolios

**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—Introduction to Spatial Analysis .....	3
GEO 211—Economic Geography .....	3
GEO 499C—Senior Seminar .....	3
Human Geography	
elective (311, 315, 366, 370) .....	3
Physical Geography	
elective (360, 390, 505, 590) .....	3
Techniques elective (349, 350) .....	3
Other GEO electives .....	9
<b>Minimum for a major .....</b>	<b>33</b>

**Minor**

GEO 100—Fundamentals of Geography .....	3
GEO 101—Physical Geography .....	3
GEO 201—Introduction to Spatial Analysis .....	3
GEO 499C—Senior Seminar .....	3
<i>One course from two of the following areas:</i>	
Human Geography elective (311, 315, 366, 370)	
Physical Geography elective (360, 390, 505, 590)	
Techniques elective (349, 350) .....	6
Other GEO electives .....	6
<b>Minimum for a minor .....</b>	<b>24</b>

**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.

GEO 349—Cartography .....	3
GOVT 324—Environmental Law and Policy .....	3
<i>Electives in systematic geography must be selected with the approval of the student's faculty advisor.</i>	
GEO 100—Fundamentals of Geography .....	3
GEO 101—Physical Geography .....	3
GEO 201—Introduction to Spatial Analysis .....	3
GEO 499C—Senior Seminar in Geography .....	3
<i>One course from two of the following areas:</i>	
Human Geography (311, 315, 366, 370)	
Physical Geography (360, 390, 505, 590)	
Techniques (349, 350) .....	6
Other GEO electives .....	6
<b>Minimum for a minor .....</b>	<b>24</b>

**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—Introduction to Spatial Analysis .....	3
GEO 211—Economic Geography .....	3
GEO 349—Cartography .....	3
GEO 499C—Senior Seminar .....	3
Other GEO electives .....	12
<b>Total .....</b>	<b>30</b>

**Regional Analysis Courses**

RAPP 200—Basic Computer Techniques in Regional Analysis .....	3
RAPP 201—Introduction to 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
<b>Total .....</b>	<b>18</b>

**Supplemental Requirements**

ECON 401—Environmental Economics, or

**Government**

**Faculty**

L. Back, R. Caric, G. Goldey, W. Green,  
 M. Hail (IRAPP), S. Herzog,  
 D. Murphy, S. Robbins (IRAPP)

**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.

**Assessment Procedures**

Capstone course  
 Major Field Achievement Test

**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 340-349; 351-359)
2. Political Theory (GOVT 310-319)
3. Comparative Politics (GOVT 300-309, 330-339)
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 340-349; 351-359)

2. Political Theory (GOVT 310-319)
3. Comparative Politics (GOVT 300-309, 330-339)
4. International Politics (GOVT 360-369)

**Required Advances Courses**

GOVT electives .....	3
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**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 210—Introduction to Political Theory ....	3
GOVT 230—Introduction to Comparative Politics .....	3
GOVT 381—Methods of Political Inquiry .....	3

### Group I Electives

*Select three from the following:*

GOVT 347—American Public Policy .....	3
GOVT 351—Public Administration .....	3
GOVT 364—International Relations .....	3
GOVT 242—State and Local Government .....	3
GOVT 344—Kentucky Government .....	3

### Group II Free Electives

*Any GOVT electives including courses not selected in group I. GOVT 499C—Senior Seminar (recommended).*

### Regional Analysis Courses

RAPP 200—Basic Computer Techniques in Regional Analysis .....	3
RAPP 201—Introduction to 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—Cartography .....	3
GOVT 324—Environmental Law and Policy .....	3

## History

### Faculty

Y. Baldwin, J. Dennis, J. Ernst, J. Hennen,  
T. Kiffmeyer, A. Mandzy, A. Scott,

### 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 on-line 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 History, 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
HIS 399—Special Topics in History (Junior Seminar) .....	3
HIS 499C—Senior Seminar in History .....	3
Advanced Electives in History .....	6
<b>Minimum for Major .....</b>	<b>33</b>

### Minor

HIS 201—Global Studies .....	3
HIS 202—American Studies .....	3
HIS 210—Early World History, 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
<b>Minimum for Minor .....</b>	<b>24</b>

### 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.

- 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:

- HIS 322—Appalachia or HIS 323—Kentucky
- HIS 311—Native American History, or HIS 321—American Frontier

*Students are not permitted to use HIS 544—Historical Tours as credit toward the history major or minor.*

## Paralegal Studies

### Faculty

W. Green, S. Herzog, D. Murphy

### Program Competencies

Students are expected to possess:

- 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.
- The ability to apply the basic principles of law within specialized areas.
- The ability to function within the context of the modern law office using up-to-date technologies to create legal forms, documents and exhibits, and to conduct legal research.
- The ability to recognize and value the varied nature of the human condition across individuals and culture groups through paralegal practice.
- The ability to analyze, recognize, investigate, and coherently summarize legal issues.

### 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 ad-

ministrative agencies as allowed by law.

The B.A. 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 B. A. 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) ..... 1-3

##### Required Courses

PLS 210—Introduction to Paralegalism ..... 3  
 PLS 321—Legal Research ..... 3  
 PLS 322—Legal Writing ..... 3  
 PLS 325—Civil Litigation I ..... 3  
 PLS 326—Civil Litigation II ..... 3  
 PLS 332—Property Law ..... 3  
 PLS 334—Torts, PI 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

##### 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 .. 3  
 GOVT 321—Constitutional Law ..... 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—Legal Specialty Course .....	3
PLS 476—Special Problems in Paralegal Studies .....	3
<b>Elective total .....</b>	<b>6</b>
<b>Total .....</b>	<b>39</b>

### Minor in Legal Studies

#### Program Requirements

PLS 321—Legal Research .....	3
PLS 325—Civil Litigation I .....	3
PLS 332—Property Law .....	3
PLS 334—Torts, Personal Injury and Insurance..	3
PLS 335—Contracts and the UCC .....	3
PLS 340—Criminal Law .....	3
<b>Sub-total .....</b>	<b>18</b>

*Plus six semester hours from the following list (at least one elective course must have a PLS prefix):*

GOVT 303—Comparative Constitutional Law ..	3
GOVT 321—Constitutional Law .....	3
GOVT 322—Courts and Civil Liberties .....	3
GOVT 324—Environmental Law .....	3
PLS 333—Family Law .....	3
PLS 336—Wills, Trusts, and Estates .....	3
PLS 337—Corporate Law .....	3
PLS 360—Paralegal Specialty .....	3
<b>Total for Minor .....</b>	<b>24</b>

*Specific general education courses required by the program:*

CIS 201—Introduction to Computers .....	3
GOVT 141—U.S. Government .....	3
PLS 226—Law for the Layperson .....	3

### Pre-Law

#### Faculty

L. Back, W. Green, 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, J. Dennis, J. Ernst, G. Goldey, J. Hennen, J. Holcomb, T. Kiffmeyer, A. Mandzy, G. O'Dell, A. Scott

#### Program Competencies

##### Students are expected to possess:

1. The capacity to teach at the secondary level in at least four 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.

### 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 7 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

<b>General Education Requirements</b> .....	<b>48</b>
<i>See general education requirements for the University.</i>	
<b>History Component</b> .....	<b>27</b>
HIS 201—Global Studies .....	3
HIS 202—American Studies .....	3
HIS 210—Early World History .....	3
HIS 220—Early American History .....	3
*HIS 250—Practicing History .....	3
HIS 305 or 306 .....	3
HIS 310, 311, or 312 .....	3
HIS 352, 355, 356, 358, or 359 .....	3
HIS 370, 372, 373, 374, or 376 .....	3

### Economics, Geography, Government, Sociology

*The student must complete the three clusters listed.*

<i>Geography</i> .....	9
GEO 101—Physical Geography .....	3
GEO 211, 310-344 (Choose one) .....	3
GEO 300—World Geography .....	3
<i>Government</i> .....	9
GOVT 141—United States Government .....	3
GOVT 242 or 230 .....	3
GOVT 333, 342, 354, or 362 .....	3
<i>Sociology</i> .....	9
SOC 101—General Sociology .....	3
SOC 203 or 374 .....	3
SOC 305 or 354 .....	3

### Distributional Course

ECON 101, 102, 201, or 202 .....	3
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### Advanced Electives .....

300 level GEO, HIS, GOVT, or SOC	<b>6</b>
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### Content Methods Component .....

HIS 499D—Teaching Social Studies .....	3
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Offered fall semesters only; must be completed prior to student teaching semester.

*\*HIS 250 will satisfy the GOVT 289 prerequisite for advanced courses in government (applies to social studies students only).*

## Department of Military Science

Lieutenant Colonel John Karaus, Chair

Button Auditorium

(606) 783-2050

### Faculty

Sergeant S. Anderson, Master Sergeant M. Campbell,  
Sergeant First Class J. Hughes,  
Major H. Isham, Captain J. Odell

### Program Competencies

1. Medically qualified men and women must meet the precommissioning 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 Na-

tional 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 \$350-\$400 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 five-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 ap-

proximately 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 \$300 per semester for books and supplies. A \$250-\$400 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 three- or two-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.

*Note: There is only one approved military history course, and it is offered only in the spring semester. Exceptions/substitutions to any of these courses must be approved in writing by the Professor of Military Sci-*

ence or his designated representative.

**Written Communication**

CMEM 341—Writing for the Electronic Media . 3  
 CMJN 201—News Writing and Reporting I ..... 3  
 ENG 100—Writing I ..... 3  
 ENG 192—Technical Composition ..... 3  
 ENG 391—Advanced Expository Writing ..... 3  
 ENG 509—Theories of Teaching Writing ..... 3  
 ENG 591—Technical Writing I ..... 3  
 PHIL 306—Introduction to Logic ..... 3

**Military History**

HIS 318—American Military History ..... 3  
*Alternate History options only with PMS approval*  
 HIS 307—Vietnam and Watergate ..... 3  
 HIS 317—United States Foreign Relations ..... 3  
 HIS 361—Twentieth Century Europe ..... 3

**Computer Literacy**

CIS 101—Computers for Learning ..... 3  
 CIS 202—Introductory Programming with  
 Visual Basic ..... 3  
 CIS 203—PC Productivity Tools ..... 3  
 CIS 211—Advanced Microcomputer  
 Applications ..... 3  
 CIS 215—Structured Programming COBOL I... 3  
 CIS 315—Structured Programming COBOL II.. 3

**Minor**

\*6 to 8 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

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**  
**Christopher Gallaher, Chair**  
 106 Baird Music Hall  
 (606) 783-2473

**Faculty**

M. Acord, S. Baker, S. Blair, S. Creasap,  
 G. Detweiler, C. Gallaher, C. Hammond,  
 L. Keenan, J. Lee, R. Little, B. Mason, R. Miles,  
 E. Norden, F. Oddis, D. Oyen,  
 R. Prindle, R. Pritchard, R. Ross, S. Snyder,  
 P. Taylor, G. Towell, J. Viton, G. Wing

**Bachelor of Music Education  
 Program Competencies**

**Performance**

Students are required to declare a principal area of performance. A jury examination is required at the end of each semester. Students may elect to do a formal public recital or appear in solo performance on no less than three student recitals during the junior and senior years, enroll in an ensemble appropriate to their major instruments each semester except the professional semester, study each of the instrument groups (strings, woodwinds, brass, percussion, voice), and four hours of class piano.

**Music Theory**

Students are required to complete four semesters of music theory and three semesters of music reading to gain a basic understanding of the common elements of

music (melody, harmony, rhythm, etc.).

### **Music Literature/History**

Students should develop a historical perspective of music, particularly in regard to the various style periods.

### **Conducting**

Students must develop skills in choral or instrumental conducting.

### **Music Education**

Students should be able to teach new generations of students to experience the joy of expressing themselves through music.

In addition to the competencies listed, the Department of Music adheres to and complies with the “Competencies Common to All Professional Degrees in Music,” as stated in the current National Association of Schools of Music Handbook.

### **Assessment Procedures**

- Survey of graduates
- Performance recitals
- Exit interview
- Senior capstone course

The Department of Music offers a Bachelor of Music Education degree for those preparing to teach music; a Bachelor of Music degree for those planning careers as performers, theorists, or composers, and a major and minor within the Bachelor of Arts curriculum. Musical training and performance opportunities are also provided for students who are not planning musical careers.

### **General Requirements**

Placement examinations and/or auditions are given in music theory, applied music (principal instrument or voice), and piano to all new music students during registration week of the fall and spring semesters. The results are used for advisement as to course and program enrollment.

Music students are required to register for student recital each semester. Regular attendance at student recital and other music programs presented on campus is expected of music students. Attendance records are kept by the chair of the Department of Music.

### **Piano Proficiency Requirements**

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. Students with some previous keyboard background are to take the Piano Placement Examination which is given during registration week.

Students pursuing the Bachelor of Music Education degree with sufficient previous keyboard training may be exempted from the class piano sequence by passing the Piano Proficiency Examination. Students in this degree program who place in an advanced level of class piano may substitute music electives to fulfill music credit requirements.

Students pursuing the Bachelor of Music degree or the Bachelor of Arts degree and successfully completing the Piano Proficiency Examination prior to the completion of Class Piano IV must fulfill the remaining required hours of piano/keyboard specified in the catalog.

### **Curriculum Change**

A student wishing to change from one music curriculum to another, or to make a change of principal applied area, must receive departmental approval to do so. A committee of faculty representing the appropriate specialties will be appointed to make recommendations to the department chair as the suitability of the change and the applicability of credits already earned toward the new curriculum.

### **Applied Music Music Fees**

Each half-hour private lesson per week,	
per semester .....	\$45.00
Junior recital (two hours credit) .....	\$45.00
Senior recital (two hours credit) .....	\$45.00
Senior recital (three hours credit) .....	\$75.00
Graduate recital .....	\$75.00
Composition recital .....	\$75.00

### **Private Applied Music**

Each music student is required to designate a principal area of private music study and to enroll for credit in this area each semester except the professional semester. Credit may also be earned in secondary areas.

With departmental permission, private instruction may be taken by students not following a music curriculum, in which case the course standards may be differ-

ent from those expected of music students. Beginning instruction will be handled, whenever possible, as class applied study rather than private study.

Credit allowed for private applied music is variable, depending on the number of lessons per week and the program in which the student is enrolled. In a given area of private study, a student is expected to practice at least one hour per day for each hour of credit being earned.

### Recitals

Recitals may be presented for credit by students who have been given approval to do so by the music faculty. Approval should be requested prior to the final private applied music examination preceding the semester in which the recital will be presented. Recital credit may be substituted for, or earned in addition to, private applied music credit.

### Required Recital Attendance Policy

Philosophically, the music faculty of the Department of Music support the concept that attending concerts is an essential ingredient of a professional musician's training. Therefore, it is expected that students will attend recitals/concerts at MSU as part of the overall study at this institution. Each faculty member who teaches applied music has implemented a policy that reflects this attitude and has established guidelines for the number of recitals required and the effect on the applied music grade.

### Ensembles

Each music student is required to participate in a major ensemble representing his or her primary performing medium each semester of residence except the student teaching semester. Ensemble assignments are determined by the department with consideration given to both student and departmental needs.

Marching band is required each fall semester for instrumental music education degree students whose principal area of private applied music is a wind or percussion instrument. All instrumental majors are required to take at least two semesters of vocal ensemble.

*Note: Piano majors pursuing the BMED degree will enroll in University Chorus or Concert Choir each semester as their major ensemble. Piano majors in the BM degree option may take Piano Ensemble or Accompanying as their major ensemble.*

Ensembles may be taken with or without credit. A maximum of eight hours of credit in ensembles may be

applied toward fulfilling the requirements of music curricula. (Refer to the curricula requirements listed previously.)

## Bachelor of Music Education

This program is designed for students who are planning for careers as music teachers in the public schools. It includes the requirements for a 12-grade music certificate in either vocal or instrumental music. An option for vocal and instrumental certification is also available.\*\*

*Note: 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 TEP.*

<b>Applied Music</b> .....	<b>31-33</b>
Principal applied area .....	14
Ensembles, at least two vocal .....	7-9
*Class Piano .....	4
Class voice and instruments .....	6
<b>*Music Theory</b> .....	<b>16</b>
Music Theory I-IV .....	10
Music Reading I-III .....	6
<b>Music History and Literature</b> .....	<b>10</b>
Literature of Music I-II .....	4
History of Music I-II .....	6
<b>Conducting</b> .....	<b>4</b>
Basic Conducting .....	2
Choral Conducting, or	
Instrumental Conducting .....	2
<b>Music Education</b> .....	<b>6</b>
Introduction to Music Education .....	1
Elementary Materials and Methods .....	3
Vocal or Instrumental Materials and Methods ....	2
Field Experience .....	1
<b>Total</b> .....	<b>68-70</b>

\*Exemption or advanced placement possible.

\*\*Requirements for Provisional Certificate: Vocal Music K-12:

**Completion of Instrumental Requirements**

Private Voice .....	4
Vocal Ensemble (additional) .....	3
Class Guitar .....	1
Vocal Materials and Methods .....	2
Choral Conducting .....	2
<b>Total .....</b>	<b>12</b>

**Requirements for Provisional Certificate  
Instrumental Music K-12**

**Completion of Vocal Requirements**

Private Applied (Instrumental) .....	3
Instrumental Ensemble .....	3
Advanced Woodwinds .....	1
Advanced Brasswinds .....	1
Instr. Materials and Methods .....	2
Instrumental Conducting .....	2
<b>Total .....</b>	<b>12</b>

**Bachelor of Music  
Program Competencies**

**Performance**

Students must declare a principal area of performance. A jury examination is required at the end of each semester, and the student must perform a half-hour Junior Recital and a one-hour Senior Recital after completing a recital hearing in the semester prior to the intended recital date; must participate in an ensemble appropriate to the major instrument each semester; must develop keyboard skills and skills in a secondary instrument as deemed appropriate to the principal instrument.

**Music Theory/Analysis/Composition**

Students are required to complete four semesters of music theory and three semesters of music reading. These requirements are intended to give each student a basic understanding of the common elements of music (melody, harmony, rhythm, etc.) and to serve as preparation of study in more advanced courses.

**Music Literature/History**

Students should develop an historical perspective of music, particularly in regard to the various style periods.

**Conducting**

Students are expected to develop skills in choral and instrumental conducting.

In addition to the competencies listed, the Department of Music adheres to and complies with the “Competencies Common to All Professional Degrees in Mu-

sic,” as stated in the current National Association of Schools of Music Handbook.

**Assessment Procedures**

- Survey of graduates
- Performance recitals
- Exit interview
- Senior capstone course

This program is designed for students who are planning for professional careers in music either as performers or as private teachers. It does not meet the requirements for certification to teach in the public schools.

<b>Music Theory .....</b>	<b>18</b>
Music Theory I-IV .....	10
Music Reading I-III .....	6
Form Analysis .....	2

<b>Music History and Literature .....</b>	<b>10</b>
Literature of Music I-II .....	4
History of Music I-II .....	6

<b>Ensembles .....</b>	<b>8</b>
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<b>Conducting .....</b>	<b>4</b>
Basic Conducting .....	2
Instrumental or Choral Conducting .....	2

<b>Total .....</b>	<b>40</b>
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*Note: Jazz and studio music students shall take basic conducting. To complete their conducting requirement, they will take MUSC 473—Rehearsal Techniques for Jazz Ensembles.*

In addition to the above courses, each Bachelor of Music degree student must complete the requirements for one of the following specializations:

**Voice**

Private Voice .....	16
Class Voice (Diction) .....	1
Junior Recital .....	2
Senior Recital .....	3
Class and/or Private Keyboard .....	6
Languages (a minimum of six semester hours each in French and German) .....	12
<b>Total .....</b>	<b>40</b>

**Piano**

Private Piano .....	19
Private Organ and/or Harpsichord .....	7
Junior Recital .....	2
Senior Recital .....	3
Class Voice .....	1
Piano Literature .....	3

Piano Pedagogy .....	2
Electives .....	3
<b>Total .....</b>	<b>40</b>

**Organ or Harpsichord**

Private Organ or Harpsichord .....	19
Class or Private Piano .....	7
Junior Recital .....	2
Senior Recital .....	3
Class Voice .....	1
Piano Pedagogy .....	2
Piano Literature .....	3
Electives .....	3
<b>Total .....</b>	<b>40</b>

**Strings**

Private Strings .....	19
Class Piano and/or Private Keyboard .....	7
Junior Recital .....	2
Senior Recital .....	3
Electives .....	8
Class Voice .....	1
<b>Total .....</b>	<b>40</b>

**Wind and Percussion Instruments**

Private Lessons in Major Instrument .....	19
Junior Recital .....	2
Senior Recital .....	3
Class Piano and/or Private Keyboard .....	7
Class Voice .....	1
Arranging .....	4
Music electives .....	4
<b>Total .....</b>	<b>40</b>

**Theory/Composition**

Composition .....	12
Arranging .....	4
Counterpoint .....	2
Recital of Original Compositions .....	3
Class and/or Private Keyboard .....	6
Electives .....	6
Private Lessons in Major Instrument or Voice ....	7
<b>Total .....</b>	<b>40</b>

**Jazz and Studio Music**

Private Applied Music .....	12
Junior Recital .....	2
Senior Recital .....	3
Jazz Keyboard .....	2
*Class Piano and/or Jazz Keyboard .....	2
*Jazz History and Literature .....	3
Arranging for Jazz Ensembles I and II .....	4
Studio Improvisation .....	7

Music electives .....	3
<b>Total .....</b>	<b>40</b>

\*Jazz Keyboard majors take Jazz Keyboard. All other Jazz majors take Class Piano.

*Note: Students pursuing the Jazz and Studio Music Degree shall complete nine hours of specific general education courses: CIS 201—Intro. to Computers; ECON 201—Prin. of Economics; and SOC 374—American Minority Relations.*

**Bachelor of Arts**

**Program Competencies (Music)**

Students are expected to:

1. Declare a principal area of performance with a jury examination at the end of each semester.
2. Perform in an appropriate ensemble.
3. Develop keyboard skills.
4. Develop an historical perspective of music.
5. Gain a basic understanding of the common elements of music.

**Assessment Procedures**

- Survey of graduates
- Performance recitals
- Exit interviews

**Major**

This program provides for the study of music within a liberal arts curriculum. Emphasis is on the study and performance of musical literature. It is suitable for preparing students for careers in music other than performance and teaching music in the public schools.

Applied Music .....	22
Private Lessons .....	14
Ensembles .....	4
Class or Private Piano .....	4
Music Theory .....	16
Music Theory I-IV .....	10
Music Reading I-III .....	6
Music History and Literature .....	10
Literature of Music I and II .....	4
History of Music I and II .....	6
<b>Total .....</b>	<b>48</b>

**Minor**

Applied Music .....	14
Private Lessons .....	8
Ensembles .....	4
Class or Private Piano .....	2
Music Theory .....	9

Music Theory I-II .....	6
Music Reading I-II .....	3
Music Literature I and II .....	4
<b>Total .....</b>	<b>27</b>

**Minor in Traditional Music Studies**

The 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, which have affected everything from blues to Bluegrass music. The Traditional Music Studies Program addresses issues of community, style, commercialism, and revival. Some of the regionally affected genres to be 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.

<b>Applied Music .....</b>	<b>14</b>
Private Lessons .....	10
Ensembles .....	4
<b>Music Theory .....</b>	<b>4</b>
MUST 103—Practical Theory for Traditional Music .....	2
MUST 104—Traditional Vocal Harmony .....	2
<b>Music History .....</b>	<b>3</b>
MUSH 261—Music Listening (Folk and Traditional Music) .....	3
<b>Total .....</b>	<b>21</b>

**Music Teacher’s National Association (MTNA)  
Certificate Program**

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 this professional certification at two levels: (1) Associate and (2) Professional. By offering courses in this curriculum, MSU will be endorsing and supporting the major MTNA mandate “that professional studio teaching is a worthwhile career, and as such, deserves to be held accountable by a regulatory agency.”

<b>Associate Certificate</b>	
MUSE 378—Piano Pedagogy .....	2
MUSH 161—Literature of Music I .....	2
MUSH 162—Literature of Music II .....	2
MUST 131—Music Theory I .....	3
MUST 132—Music Theory II .....	3
MUST 133—Music Reading I, or	
MUST 135—Music Reading II .....	3
MUSW 476—Special Problems in Music .....	2
Private Study .....	12
<b>Total .....</b>	<b>29</b>

<b>Professional Certificate</b>	
MUSE 378—Piano Pedagogy .....	2
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
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
MUSW 476—Special Problems in Music .....	2
Private Study .....	24
<b>Total .....</b>	<b>54</b>

After completing the course work listed, the candidate must present a teaching and performing demonstration before a jury chosen by the MTNA national certificate chairperson. It should be made clear that this is a professional certification and that no credential is granted by MSU.



## Department of Sociology, Social Work & Criminology

Ted Marshall, Chair

347 Rader Hall

(606) 783-2656

### Social Work

#### Faculty

J. Lott, T. Marshall, M. Just, S. Rolland,

M. Seelig, J. Stafford, E. Swank,

C. Faulkner, S. Faulkner

#### 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 acquiring, comprehension and application of knowledge, to analysis, synthesis, and evaluation of generalist social work practice.

##### Students will:

1. Be able to discuss the scope of the social work profession.
2. Comprehend and explain both the history and change of the institution of social welfare and the role of the profession of social work within it. Be able to discuss the effect these changes had on different populations.
3. Be able to recall and apply cardinal values of the profession (as they are outlined in the code of ethics) and apply these values to ethical dilemmas faced by professional social workers.
4. Discuss social work's person-in-environment focus as it applies to changing needs of individuals, groups, families, organizations, and communities in various stages of development.
5. Understand and be able to apply a generalist "change process" based upon General Systems Theory to various-sized client systems in all practice areas.
6. Be able to comprehend and analyze how legislative, judicial, administrative and other political processes effect social welfare policy and social programs.
7. Learn methods for monitoring and evaluating their own day-to-day practice and use these methods in a practicum setting. Be able to demonstrate that they can critically analyze a research article and

thus are knowledgeable consumers of research.

8. Obtain practical experience in working with individuals, groups, families, organizations, and communities as a primary part of their undergraduate educations.
9. Develop a broad understanding of the human condition and an appreciation of racial, religious, gender-based, ethnic, class, and gay/lesbian issues related to differences and oppression.

#### Assessment Procedures

Surveys of graduates

Student Portfolios

#### Bachelor of Social Work (BSW)

Social work is a human service profession that meets 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, and entire communities.

#### Admission Requirements and Procedures

The BSW Program has a selective admission procedure. Enrollment in the program is limited. In the event there are more qualified applicants than available positions, the top qualified 30-35 students will be admitted for the fall and spring semesters.

#### 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. 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 dis-

cuss 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. The top 30-35 qualified students will be accepted each fall and spring semester. 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, and SWK 324—Research Methodology; 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 of Environmental Science .....	3
ENG 390—Professional Writing .....	3
GOVT 141—United States Government, or GOVT 242—State and Local Government .....	3
GOVT 322—Courts and Civil Liberties, or SWK 345—Law and Social Work .....	3
MATH 123 or 131 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—Social Work Theory and Method ....	3
SWK 424—Social Work Practice Skills I .....	3
SWK 426—Social Work Practice Skills II .....	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 Practice Skills III .....	3

SWK 499C—Senior Seminar .....	1
Social Work Electives (only courses taught by someone with SWK degree will be accepted) .	6
General Electives (left to take) .....	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
<b>Semester Total .....</b>	<b>16</b>

**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 GOVT 242—State & Local Government .....	3
MATH 123—Introduction to Statistics or higher ..	3
PHIL 200—Introduction to Philosophy, or PHIL 203—Social Ethics .....	3
<b>Semester Total .....</b>	<b>15</b>

**Sophomore Year**

**First Semester**

ENG 200—Writing II .....	3
SOC 203—Contemporary Social Problems .....	3
**SWK 210—Orientation to Social Work .....	4
General Education Area Studies Humanities .....	3
General Electives .....	3
<b>Semester Total .....</b>	<b>16</b>

**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
<b>Semester Total .....</b>	<b>18</b>

**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
<b>Semester Total .....</b>	<b>18</b>

**Second Semester**

ENG 390—Professional Writing .....	3
**SOC 321—Human Behavior in the Social Environment—Middle Adulthood to Death .....	3
**SWK 325—Social Work Theory and Method ..	3
**SWK 451—Social Science Data Analysis .....	3
General Elective .....	3
Social Work Electives .....	3
<b>Semester Total .....</b>	<b>18</b>

**Senior Year**

**First Semester**

**SWK 424—Social Work Practice Skills I .....	3
**SWK 426—Social Work Practice Skills II .....	3
**SWK 430—Social Policy and Planning .....	3
SWK Electives .....	3
General Electives .....	4
<b>Semester Total .....</b>	<b>16</b>

**Second Semester**

**SWK 497—Practicum in Social Work .....	8
**SWK 498—Social Work Practice Skills III .....	3
**SWK 499C—Senior Seminar .....	1
<b>Semester Total .....</b>	<b>12</b>
<b>Total for Degree .....</b>	<b>128</b>

\*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 a Certification Public Child Welfare. This is a statewide certification created in collaboration with eight other universities and the State Cabinet for Families and Children.

**Public Child Welfare Certification Program**

- SWK 315—Child Welfare Services
- 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 take an emphasis in IRAPP (Institute for Regional Analysis & 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. Understand the breadth and scope of the social work profession.
2. Understand both the evolution of the institution of social welfare and the role of the profession of social work within it.
3. Understand cardinal values of the profession, how they are incorporated into a code of ethics, and how they apply to ethical dilemmas faced by professional social workers.
4. Understand social work’s person-in-environment focus as it applies to changing needs of individuals, groups, families, organizations and communities in various stages of development.
5. Understand and be able to apply a generalist problem-solving process based upon General Systems Theory to various-sized client systems in all practice areas.
6. Understand legislative, judicial, administrative, and political processes as they affect social welfare policy and social programs.
7. Learn methods for monitoring and evaluating their own day-to-day practice.
8. Obtain practical experience in working with individuals, groups, families, organizations and communities as a primary part of their undergraduate education.
9. Have a broad understanding of the human condition and an appreciation of racial, religious, gender-based, ethnic and gay/lesbian issues related to difference and oppression.
10. The ability to carry out studies in their areas of expertise that include a significant analysis of regional resources and issues.

11. The ability to present research and policy reports that are comprehensible to audiences of various public policymakers.
12. The ability to interpret the output of regional resources analyses and their potential use in formulating public policy.

**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 200—Basic Computer Techniques in Regional Analysis .....	3
RAPP 201—Introduction to Regional Analysis ..	3
RAPP 350—Practicing Regional Analysis I .....	3
RAPP 300—Seminar in Regional Issues 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—Social Work Theory and Method ....	3
SWK 424—Social Work Practice Skills I .....	3
SWK 426—Social Work Practice Skills II .....	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 Practice Skills III .....	3
SWK 499C—Senior Seminar .....	1
Social Work Electives (only courses taught by someone with SWK degree will be accepted) .....	3
<b>Total .....</b>	<b>18</b>

**Supplemental Requirements**

ECON 401—Environmental Economics, or GEO 349—Cartography I .....	3
GOVT 324—Environmental Law and Policy .....	3
<b>Total .....</b>	<b>22</b>

**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**

**Faculty**

B. Barton, E. Breschel, R. Bylund, S. Eliason,  
C. Hardesty, C. Hensley (IRAPP), R. Katz, C. Phillips,  
E. Reeves (IRAPP), D. Rudy (IRAPP), S. Tallichet

**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.

**Sociology - Criminology Emphasis**

**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. Basic interviewing, counseling, and relationship skills required of criminal justice professionals.
4. Reasoning skills and writing abilities so that they can apply sociological principles to criminal justice roles.
5. Applied skills through practicum experiences.

### Assessment Procedures

Exit examination required of all majors  
 Survey of graduates  
 Senior seminar

Sociology programs provide 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 present 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 courses in the Sociology and Sociology (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 three courses:*

SOC 300— Social Stratification .....	3
SOC 350—The Human Experience of Sex and Gender .....	3
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 .....	12
<b>Total Hours .....</b>	<b>36</b>

### 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
<b>Total Hours .....</b>	<b>24</b>

## Sociology with an Area of Concentration 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, 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 and social policies on crime and criminal justice.
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 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
<i>(Prerequisites for 499C include SOC 451, SOC 450 and six additional hours of Criminology)</i>	
CRIM 516—Working With Offenders .....	3
<i>(Prerequisite Criminology or Juvenile Delinquency)</i>	
SOC 101—General Sociology .....	3
SOC 405—Sociological Theory .....	3
SOC 450—Research Methodology .....	3
SOC 451—Social Science Data Analysis .....	3
<b>Required Hours .....</b>	<b>39</b>
<b>Elective Hours .....</b>	<b>9</b>
<b>Total Hours .....</b>	<b>48</b>

*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 395—Sociology of Serial Murder .....	3
CRIM/SOC 410—Seminar in Domestic Terrorism and White Supremacy .....	3
CRIM 561—Sociology of the Law .....	3

**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 and social policies on crime and criminal justice.
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 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—Practicum Seminar (to be taken with CRIM 490) .....	1
CRIM 499C—Senior Criminology Capstone .....	3
<i>(Prerequisites for 499C include SOC 451, SOC 450 and six additional hours of Criminology)</i>	
SOC 101—General Sociology .....	3
SOC 405—Sociological Theory .....	3
SOC 450—Research Methodology .....	3
SOC 451—Social Science Data Analysis .....	3
<b>Required Hours .....</b>	<b>36</b>
<b>Elective Hours .....</b>	<b>3</b>
<b>Total Hours .....</b>	<b>39</b>

*Criminology Electives (select one from any of the follow-  
ing courses):*

CRIM/SOC 315—White Collar Crime .....	3
CRIM/SOC 388—Sociology of Punishment .....	3
CRIM 395—Sociology of Serial Murder .....	3
CRIM/SOC 410—Seminar in Domestic Terrorism and White Supremacy .....	3
CRIM 516—Working with Offenders .....	3
CRIM 561—Sociology of the Law .....	3

**Minor in Criminology**

CRIM/SOC 210—Sociology of Deviance .....	3
CRIM 250—Introduction to Criminal Justice System .....	3
CRIM/SOC 306—Juvenile Delinquency, or CRIM/SOC 401—Criminology .....	3
Advanced electives for minor .....	15
<b>Total Hours .....</b>	<b>24</b>

**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 200—Basic Computer Techniques in Regional Analysis .....	3
RAPP 201—Introduction to 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

**Supplemental Requirements**

ECON 401—Environmental Economics, or	
GEO 349—Cartography I .....	3
GOVT 324—Environmental Law and Policy .....	3

**Interdisciplinary Programs**

**Interdisciplinary Women’s  
Studies Minor**

**Rebecca Katz, Coordinator**

347 Rader Hall  
(606) 783-2241

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.

**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 crosslisted in Women’s Studies .....	15
Some courses approved to be crosslisted in the minor are:	
WST 303—Women’s Health Care (crosslisted as NAHS 474)	
WST 320—Women Writers and Feminist Perspectives (crosslisted as ENG 320)	
WST 354—Individual and Society (crosslisted as SOC 354)	

WST 399—Women and Politics  
(crosslisted as GOVT 355)

WST 457—Parenting  
(crosslisted as HS 457)

Special topics will be approved for crosslisting on an individual basis.

For additional information on the Interdisciplinary Women’s Studies Program (IWSP), contact the IWSP Coordinator at (606) 783-2241. You may also contact or visit the Women’s Studies Office at 347 Radar Hall, Morehead, KY 40351.

## Interdisciplinary International Studies Minor

**Robert Frank, Director**  
330 Allie Young  
(606) 783-2096

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 practices. 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., South-east 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 201—Introduction to International Studies.. 3  
IST 301—International Studies Study Abroad ... 3  
IST 401—Seminar in International Studies ..... 3

#### Electives

Additional courses cross-listed in  
International Studies ..... 9  
*Some courses approved to be cross-listed in the minor*

*include:*

IST 201 Global Studies  
(crosslisted as HIS 201) ..... 3  
IST 204—World Food  
(crosslisted as AGR 204) ..... 3  
IST 205—French Culture and Civilization  
(crosslisted as FRN 205) ..... 3  
IST 204—World Geography  
(crosslisted as GEO 300) ..... 3  
IST 350—Communication, Culture, and Diversity  
(crosslisted as CMSP 350) ..... 3  
IST 301—International Economics  
(crosslisted as ECON 447) ..... 3  
IST 301—International Marketing  
(crosslisted as MKT 469) ..... 3

Special topics will be approved for crosslisting on an individual 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 Director of the International Studies Minor at (606) 783-2096. You may also contact the Office of International Education at 330 Allie Young, Morehead, KY 40351.



# College of Science & Technology

## College of Science & Technology

Gerald DeMoss, Dean

246 Reed Hall

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246 Reed Hall

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### Department of Agricultural & Human Sciences

BS Agricultural Education

BS Agricultural Science with options

AAS Agricultural Technology with options

Pre Forestry

Pre-Veterinary Medicine

AAS-Veterinary Technology

BS-Human Sciences with options

AAS-Human Sciences with options

BS-Vocational Family and Consumer Sciences

### Department of Physical Sciences

BS-Chemistry

BS-Geology

BS-Physics

BS-Physical Science Teaching

Pre-Engineering

Pre-Medicine

Pre-Optometry

Pre-Pharmacy

### Department of Biological & Environmental Sciences

BS-Biology

BS-Biological Science Teaching

BS-Environmental Science with options

Pre-Chiropractic

Pre-Dentistry

Pre-Medical Technology

Pre-Medicine

Pre-Pharmacy

Pre-Physical Therapy

Pre-Physician Assistant

Pre-Podiatric Medicine

### Department of Industrial Education & Technology

AAS Industrial Technology with options

BS Industrial Technology with options

BS Industrial Education with options

### Department of Mathematical Sciences

BS-Mathematics

BS-Computer Science

### Department of Nursing & Allied Health Sciences

AAS-Associate Degree Nursing

BSN-Baccalaureate Nursing

AAS-Radiologic Technology with options

BS-Radiologic Science with options

AAS-Respiratory Care

### Department of Psychology

BA-Psychology

**Department of  
Agricultural  
& Human Sciences**

Lane Cowser, Chair  
rcowser@moreheadst.edu  
325 Reed Hall  
(606) 783-2662

**Agricultural Sciences**

**Degrees**

**Agricultural Education**

**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.
5. The ability to use effective planning in course organization in agricultural education.
6. The ability to plan daily instructional programs in agricultural education.
7. An understanding of occupational experience programs and their role in agricultural education.
8. An understanding of FFA and its role in agricultural education.
9. An understanding of effective management of instructional programs in agricultural education.

**Assessment Procedures**

Teacher certification examinations  
Surveys of graduating students, alumni, advisory groups, and employers

**Bachelor of Science  
Area of Concentration**

**General Education Requirements ..... 48**  
*See general education requirements for the University.*

The student must complete a minimum of 50 semester hours credit in technical agriculture which includes at least six approved semester hours in each of the fields listed. This area of concentration is designed and approved for students who wish to teach agriculture education in the public schools in Kentucky.

**Core Requirements**

<b>Required courses in Technical Agriculture .....</b>	<b>50</b>
Agricultural Economics .....	6
Agricultural Mechanics .....	6
Animal Science .....	6
Horticultural and Plant Science .....	6
Soil Science .....	6
Approved agriculture electives .....	17
AGR 499C—Senior Seminar in Agriculture .....	3
Required courses in professional agriculture education .....	29
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
EDF 211—Human Growth and Development ....	3
EDSP 332—Teaching the Exceptional Student ..	2
VOC 207—Foundations of Vocational Education .....	3
<b>Total .....</b>	<b>128</b>

**Teacher Certification**

Students seeking teacher certification must apply for and be admitted to the TEP. Students must have an overall 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.

**Agricultural Science Options**

**Faculty**

D. Applegate, L. Cowser, D. Johnson, M. Pettit,  
M. Phillips (IRAPP), B. Rogers, E. Siegel, J. Willard

## Program Competencies

Students graduating from the Bachelor of Science degree program should possess the following:

1. Written, oral, and interpersonal communications 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.

#### 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

## Bachelor of Science

### General Education Requirements ..... 48

*See general education requirements for the University.*

*The following specific general education requirements must be completed:*

AGR 261—Information Acquisition, & Analysis	3
AGR 204—World Food .....	3
BIOL 150—Introduction to Plant Science .....	3
CHEM 101—Survey of Chemistry .....	4
MATH 131—Mathematics Reasoning & Problem Solving, or	
MATH 135—Mathematics for Technical Students .....	3

### Area of Concentration

The student must complete a minimum of 57 semester hours in the area of concentration in agricultural science. Thirty-three semester hours are the listed core agriculture course requirements, and 24 semester hours are approved course electives selected from within one of the following seven options: agribusiness, agricultural economics, agronomy, animal science, general agriculture, golf course management, or horticulture. General course electives may also be taken in agriculture and related fields by students wishing greater depth in an agricultural field.

### Core Requirements

#### Required Courses in Agriculture:

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 211—Soils .....	3
AGR 215—Horticultural Science .....	3
AGR 251—Introduction to Agricultural Mechanics .....	3
AGR 300—Pest Management .....	3
AGR 301—Farm Management .....	3
*AGR 402—Advanced Agricultural Experience (or approved cooperative education) .....	2
AGR 499C—Senior Seminar in Agriculture .....	3
CHEM 201—Survey of Organic Chemistry .....	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.

Twenty-four semester hours must be taken in one of the following agriculture 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, as follows:

**Required**

ACCT 281—Principles of Accounting I ..... 3

*Twenty-one 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—Market 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:

**Required courses ..... 9**

ECON 202—Principles of Microeconomics ..... 3  
 ECON 350—Intermediate Microeconomics ..... 3  
 ECON 451—Intermediate Macroeconomics ..... 3

*Fifteen 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  
 FIN 342—Money and Banking ..... 3  
 FIN 373—Investments ..... 3  
 ECON 447—International Economics ..... 3  
 MATH 354—Business Statistics ..... 3

**Agromony 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.

**Required Courses ..... 9**

AGR 308—Weed Science ..... 3  
 AGR 311—Soil Conservation ..... 3  
 AGR 316—Feeds and Feeding ..... 3

*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**

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.

**Required Courses ..... 6**

AGR 222—Livestock Evaluation ..... 3  
 AGR 316—Feeds and Feeding ..... 3

*Eighteen semester hours must be selected from the following courses, with approval of advisor:*

AGR 221—Equitation ..... 3

AGR 243—Equine Health and Diseases .....	3
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 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

### 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 following list. The minimum number of semester hours for each of the following six fields must be completed:

<b>Agriculture economics .....</b>	<b>3</b>
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
<b>Agricultural mechanics .....</b>	<b>3</b>
AGR 350—Farm Power and Machinery Management .....	3
<b>Animal science .....</b>	<b>6</b>
AGR 222—Livestock Evaluation .....	3
AGR 243—Equine Health and Diseases .....	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
<b>Plant science .....</b>	<b>6</b>
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
<b>Soil science .....</b>	<b>3</b>
AGR 311—Soil Conservation .....	3
AGR 312—Soil Fertility and Fertilizers .....	3
<b>Approved Agricultural Electives .....</b>	<b>3</b>

### 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.

#### Required Courses

AGR 212—Landscape Plants .....	3
AGR 308—Weed Science .....	3
AGR 318—Landscape Maintenance .....	3
MNGT 310—Small Business Organization .....	3
MKT 354—Consumer Behavior .....	3
*PHED 223—Individual Sports II .....	2
*REC 286—Recreation Leadership .....	2
*REC 522—Park Management Resource and Operation .....	3
*REC 526—Fiscal Management in Parks and Recreation .....	3
*Will require a course substitution.	

### Horticulture Option

Students must complete the required core courses in the area of concentration in agricultural and 24 semester hours of requirements and electives.

#### Required Course

AGR 314—Plant Propagation .....	3
<i>Twenty-one semester hours must be selected from the following courses, with approval of advisor:</i>	
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

agriculture especially to include the disciplines of animal science, agronomy, soils, horticulture, agricultural mechanics, and pest management.

### 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 courses 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.

<b>Required courses in Agriculture .....</b>	<b>21</b>
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 Options

#### Faculty

D. Applegate, L. Cowsert, D. Johnson, M. Pettit,  
B. Rogers, E. Siegel, J. Willard

### 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

### 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 & Analysis .....	3
MATH 131—Mathematics Reasoning & 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 Agriculture 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 Diseases .....	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 Diseases .....	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
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*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

## Horseanship

### Faculty

E. Siegel, 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 Diseases .....	3
AGR 335—Equitation Teaching .....	3
AGR 342—Horse Production .....	3
Approved Electives .....	3
<i>Students must select six hours from the following:</i>	
AGR 329—Advanced Stockseat Horsemanship ..	3
AGR 332—Advanced Saddleseat Horsemanship ..	3
AGR 333—Advanced Huntseat Horsemanship ..	3

## 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

<b>First Semester .....</b>	<b>17</b>
BIOL 150—Introduction to Plant Science .....	3
CHEM 101—Survey of Chemistry .....	4
MATH 175—Analytic Geometry and Calculus I .....	4
ENG 100—Writing I .....	3
PHED—activity course .....	1
General elective .....	2
<b>Second Semester .....</b>	<b>16</b>
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
<b>Third Semester .....</b>	<b>17</b>
AGR 211—Soils .....	3
BIOL 215—General Botany .....	4
CON 210—Surveying I .....	3
PHYS 201, 201A—Elementary Physics I and Laboratory .....	4
SOC 170—Rural Sociology .....	3
<b>Fourth Semester .....</b>	<b>15</b>
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
<b>Total .....</b>	<b>55</b>

## Pre-Veterinary Medicine

### Faculty

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 leading to the Doctor of Veterinary Medicine (DVM) degree. Since each veterinary college has its own specific requirements which must be met prior to admission, it is essential that students investigate the requirements for colleges of veterinary medicine.

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.

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 contracts.

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. Suitable degree programs include Veterinary Technology, Equine Technology, Agriculture, Biology, and Chemistry. An academic handbook and curriculum development advice are available from the pre-veterinary advisor.

The following courses are required of Kentucky residents applying for admission to the Auburn University College of Veterinary Medicine:

#AGR 515—Animal Nutrition, or	
BIOL 301—Fundamentals of Biochemistry .....	4
BIOL 171—Principles of Biology .....	4
BIOL 210—General Zoology .....	4
CHEM 111—Principles of Chemistry I .....	4
CHEM 112—Principles of Chemistry II.....	4
CHEM 326—Organic Chemistry I .....	4
CHEM 327—Organic Chemistry II .....	4
ENG 100—Writing I** .....	3
ENG 200—Writing II .....	3
ENG 220—Approaches to Literature .....	3
FNA 160—Understanding the Visual Arts** .....	3
HIS 202—American Studies .....	3
HIS 201—Global Studies** .....	3
MATH 152—College Algebra* .....	3
MATH 174—Pre-Calculus** .....	3

MATH 175—Analytic Geometry and Calculus I, or MATH 160—Mathematics for Business and Economics .....	3/4
PHIL 203—Social Ethics**, or PHIL 306—Introduction to Logic .....	3
PHYS 201/201A—Elementary Physics I .....	4
PHYS 202/202A—Elementary Physics II .....	4
Social Science electives** .....	6
Science electives (300 level) .....	6

\*Not required, but recommended

#AGR 316—Feeds and Feeding is prerequisite; may be used as animal science elective

\*\*Waived with Bachelor’s Degree

See Pre-Veterinary Advisor. Curriculum requirements vary from college to college and may change on short notice.

## Veterinary Technology

### Faculty

V. Barnes, B. Lewis, 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:
    1. High school diploma or GED.
    2. Minimum high school GPA of 2.8 on 4.0 scale.
    3. ACT Composite Score of at least 20.
    4. ACT subscores which permit enrollment in courses required by the program.
  - B. College Students:
    1. At least 12 hours of approved college course work.
    2. Minimum GPA of 2.5 on 4.0 scale in approved college course work.
    3. 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:
    1. Significant work experience with a veterinarian.
    2. Written recommendation from the above veterinarian.
    3. 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 within 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
ENG 100—Writing I .....	3
ENG 200—Writing II .....	3
MATH 135—Mathematics for Technical	
Students, or higher .....	3
CIS 101—Computers for Learning, or	
SCI 110—Introduction to Scientific Computing, or	
AGR 261—Information Acquisition,	
& Analysis .....	3
Humanities .....	3
Social/Behavioral Sciences .....	3
<b>Total .....</b>	<b>21</b>

### 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 233—Veterinary Physiology and	
Pharmacology I .....	2
VET 234—Veterinary Physiology and	
Pharmacology II .....	2
VET 216—Veterinary Clinical Pathology I .....	2
VET 217—Veterinary Clinical Pathology 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 Degrees**

Faculty  
J. Ellington

**Vocational Family and Consumer Science Education**

**Program Competencies**

Competency is required in the following areas in Vocational Family and Consumer Sciences:

1. Develop a broad-based body of knowledge of all areas of family and consumer science subject matter.
2. Acquire interpersonal skills in working with various age groups of people.
3. Skill development in curriculum planning and teaching strategies for family and consumer science education.
4. Develop a working knowledge of all educational programs in family and consumer science, middle grades through adult and become certified to teach Family and Consumer Science education grades 5-12 and adult.

**Assessment Procedures**

- Exit examination
- Alumni surveys
- Survey of employers
- PRAXIS II Specialty Exam

**Bachelor of Science**

**Area of Concentration in Vocational Family and Consumer Science Education**

The Vocational Family and Consumer Science Education program prepares students to teach in middle grades, senior high school, and adult family and consumer science programs.

**General Education Requirements ..... 48**

*See general education requirements for the University.*

**Core Requirements ..... 13**

PDI 100—Personal Development .....	1
HS 200—Family Relations .....	3
HS 201—Principles of Nutrition .....	3
HS 363—Family Economics .....	3
HS 499C—Senior Seminar .....	3

**Program Requirements**

HS 130—Elementary Food Science .....	3
HS 141—Introduction to Textiles and Clothing .	3
HS 231—Meal Management .....	3
HS 241—Clothing Production Studio .....	3
HS 252—Problems in Interior Design .....	3
HS 253—Child Growth and Development .....	4
HS 254—Preschool Administration .....	4
HS 351—Housing .....	3
HS 454—Life Management .....	3
HS 457—Parenting .....	3
HS Electives .....	16

**Supplemental Requirements ..... 32**  
 HS 388—Methods of Curr. Development ..... 3  
 HS 392—Methods of Instructional Tech. .... 3  
 HS 470—Methods of Instruction ..... 3  
 HS 478—Student Teaching Practicum ..... 12  
 EDF 211—Human Growth and Development .... 3  
 EDF 311—Learning Theories in the Classroom. 3  
 EDSP 332—Teaching the Exceptional Student .. 2  
 VOC 207—Foundations of Voc. Education ..... 3

**Bachelor of Science  
 Human Sciences  
 Faculty**

J. Ellington, B. Malinauskas, M. Sampley

A Bachelor of Science degree in Human Sciences is available with options in Child Development, Dietetics, and Hotel, Restaurant, & Institutional Management. A core of 36 semester hours is required for the degree.

**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.

**Dietetics students will know:**

1. Scientific principles of human nutrition in health and disease.
2. Nutrient composition of food and appropriate sources of date.
3. Principles of food science and techniques of food preparation.
4. Principles of menu planning for optional nutrition of individuals and groups in health and disease.
5. The influence of socioeconomic, cultural, and psy-

- chological factors on food and nutrition behavior.
6. The influence of nutrition care delivery in community programs.
7. Principles of effective communication and documentation.
8. The use of computers for data processing and information management in dietetics.
9. Basic concepts of research methodology and statistical analysis.
10. Principles of education and effective methods of teaching.
11. Techniques of interviewing and counseling.
12. Principles of organization and management.
13. Fundamentals of human relations and group dynamics.
14. Fundamentals and techniques of financial management.
15. Principles and techniques of human resource management.
16. Fundamentals of quality assurance.
17. Principles of nutrition assessment, planning intervention, and evaluation.
18. The principles of procurement, food production distribution.
19. Laws, regulations, and standards affecting dietetic practice.
20. Fundamentals of merchandising and promoting food and nutrition services.
21. Nutrient needs for various stages of the life cycle.

**Hotel, Restaurant & Institutional Management  
 students will know:**

1. Principles of food science and techniques of food preparation.
2. Use of computers for data processing and information in hospitality industry.
3. Principles of organization and management.
4. Fundamentals and techniques of financial management.
5. Principles and techniques of human resource management.
6. Principles of procurement, food and beverage production, distribution and service.
7. Fundamentals of merchandising and marketing for hospitality.
8. Principles of layout and design, maintenance and housekeeping of hospitality facilities.
9. Laws and standards affecting the hospitality industry.

10. A variety of fundamentals and principles associated with the hospitality industry.

**Assessment Procedures**

- Exit examination
- Alumni surveys
- Survey of employers

**Core Requirements**

The following core requirements must be completed for the Bachelor of Science Degree in Human Sciences for options in Child Development, Dietetics, and Hotel, Restaurant & Institutional Management.

**General Education Requirements ..... 48**

**Core Requirements**

HS 101—Nutrition & Well Being .....	3
CIS 101—Computers for Learning, or AGR 261—Information Acquisition, & Analysis .....	3
MATH 152—College Algebra .....	3
ECON 201—Introduction to Macroeconomics ..	3
ECON 202—Introduction to Microeconomics ...	3
ACCT 281—Principles of Financial Accounting .....	3
ACCT 282—Principles of Managerial Accounting .....	3
MNGT 301—Principles of Management .....	3
MNGT 311—Human Resource Management ....	3
MATH 354—Business Statistics, or MATH 353—Statistics .....	3
HS 490—Special Topics in Human Sciences ....	3
HS 499C—Senior Seminar .....	3
<b>Total .....</b>	<b>36</b>

**Option 1: Child Development**

<b>Core Requirements .....</b>	<b>36</b>
<b>Option Requirements .....</b>	<b>36</b>
HS 253—Child Growth and Development .....	4
HS 254—Preschool Administration .....	4
HS 257—Care and Development: Prenatal, Infants and Toddlers .....	3
HS 327—Maternal, Infant, and Child Nutrition .	3
HS 332—Field Experience in Human Sciences, or HS 239/439—Cooperative Education .....	4
HS 353—Program Planning for Infants and Toddlers .....	2
HS 354—Preschool Programs and Environments .....	3
HS 358—Public Policy for Children	

and Families .....	3
HS 457—Parenting .....	3
HS 467—Trends and Issues in Early Childhood Development .....	3
HS 477—Early Childhood Development Practicum .....	4

*Note: BIOL 110, PSY 154, and SCI 109 are required by the Child Development Program.*

**Option 2: Didactic Program in Dietetics**

<b>Core Requirements .....</b>	<b>36</b>
<b>Option Requirements .....</b>	<b>34</b>
HS 130—Elementary Food Science .....	3
HS 231—Meal Management .....	3
HS 328—Nutrition in Life Cycle .....	3
HS 329—Quantity Food Preparation .....	4
HS 330—Quantity Food Purchasing .....	3
HS 333—Clinical Dietetics .....	3
HS 336—Institutional Organization & Administration .....	3
HS 410—Medical Nutrition Therapy .....	3
HS 437—Advanced Nutrition .....	3
HS 438—Experimental Foods .....	3
HS 443—Community Nutrition .....	3
<b>Total .....</b>	<b>34</b>

**Supplemental Requirements**

BIOL 217—Elementary Medical Microbiology .....	4
BIOL 231—Human Anatomy .....	3
BIOL 232—Human Physiology .....	3
CHEM 101—Survey of Chemistry .....	4
CHEM 101L—Survey of Chemistry Laboratory .....	0
CHEM 201—Survey of Organic Chemistry .....	4
CHEM 201L—Survey of Organic Chemistry Laboratory .....	0
CHEM 301—Fundamentals of Biochemistry ....	4
CHEM 301L—Fundamentals of Biochemistry Laboratory .....	0
HS 331— Food Production Management .....	4
HS 335—Equipment and Facilities Planning ....	3
PSY 154—Introduction to Psychology .....	3
SOC 101—General Sociology .....	3
NAHS 202—Medical Terminology .....	2
<b>Total .....</b>	<b>37</b>

**The Dietetic Internship**

The Dietetic Internship provides for the achievement of performance requirements for entry level dietitians through a minimum of 900 hours of supervised practice. The Dietetic Internship is currently granted accredi-

tation by the Commission on Accreditation for Dietetics Education of The American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, (312) 889-4876. A certificate is awarded upon completion of the dietetic internship.

**Admission Requirements**

The Dietetic Internship follows completion of the Didactic Program in Dietetics and an overall GPA of 2.75. Computer matching through the American Dietetic Association is required.

**Required Course Sequence**

**Fall Semester**

HS 510—Advanced Clinical Dietetics .....	6
HS 532—Clinical/Community Dietetics .....	6

**Spring Semester**

HS 537—Administrative Dietetics/Food Service Management .....	6
HS 540—Food Service Systems Administration .....	6

**Summer I**

HS 546—Food Service Systems Administration/Specialty Practice .....	6
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**Option 3: Hotel, Restaurant & Institutional Management**

<b>Core Requirements .....</b>	<b>36</b>
<b>Option Requirements .....</b>	<b>35</b>
HS 132—Introduction to Hotel, Restaurant, and Institutional Management .....	3
HS 136—Dining Room Procedures and Beverage Control .....	3
HS 234—Computer Assisted Food Service Management .....	3
HS 329—Quality Food Preparation .....	4
HS 330—Quality Food Purchasing .....	3
HS 331—Food Production Management .....	4
HS 335—Equipment and Facilities Planning .....	3
HS 336—Institutional Organization and Management .....	3
HS 338—Concepts of Maintenance, Engineering, and Housekeeping for Hospitality Facilities .....	3
HS 435—Cost Controls in Hotel, Restaurant, and Institutional Management .....	3
HS 436—Hotel, Restaurant, and Institutional Marketing Management .....	3

*Supplemental Requirements*

HS 239—Cooperative Education .....	3
HS 439—Cooperative Education .....	3

**Associate Applied Science**

(Two-Year Program)

**Faculty**

J. Ellington, M. Sampley

An Associate of Applied Science Degree in Human Sciences is available with options in Child Development and Hospitality Management. The core requirements consists of 26 semester hours.

The Option in Child Development prepares students for positions in licensed day care centers, nursery schools and centers for socially disadvantaged, culturally deprived or handicapped children; for Level III positions for four-year-old at-risk children.

The hospitality management option prepares for employment in entry positions in hospitality management.

**Program Competencies**

**Child Development students will demonstrate ability to evaluate:**

1. The physical, intellectual, emotional, moral, personality and social development of the individual.
2. The care and guidance techniques which meet the basic needs of the child and contribute to his optimal development.

**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.

**Employment Performance students will demonstrate:**

1. Performance of specific skills, abilities and behaviors regarding occupational adjustment.
2. Suitability for child development related employment and potential for future employability.

**Hospitality Management students will:**

1. Learn and effectively practice basic and advanced technical skills in food preparation and service.
2. Acquire basic supervisory skills to better utilize human and physical resources in food service operations.
3. Gain experience in the proper use and maintenance of professional food service equipment.

## Assessment Procedures

Alumni surveys  
Survey of employers

**General Education Requirements ..... 21**

### Core Requirements

*The following courses must be completed in all associate degree options:*

ECON 202—Principles of Microeconomics .....	3
HS 101—Nutrition and Well Being .....	3
HS 130—Elementary Food Science .....	3
HS 200—Family Relations .....	3
HS 239—Cooperative Education .....	4
HS 332—Field Experience in Human Sciences .	4
HS 363—Family Economics .....	3
PSY 154—Introduction to Psychology .....	3
<b>Total .....</b>	<b>26</b>

### Option 1. Child Development

<b>Core Requirements .....</b>	<b>26</b>
<b>Option Requirements .....</b>	<b>23</b>
HS 253—Child Growth & Development .....	4
HS 254—Preschool Administration .....	4
HS 257—Care and Development: Prenatal, Infants and Toddlers .....	3
HS 353—Program Planning for Infants and Toddlers .....	3
HS 354—Preschool Programs and Environments	3
<b>Total .....</b>	<b>17</b>

*Six hours of the following:*

ACCT 281—Principles of Financial Accounting .....	3
EDEC 125—Introduction to the Early Childhood Profession .....	3
EDEC 150—Skills for Preschool Teachers (Must be taken in CDA Program) .....	3
HS 239—Cooperative Education .....	4
HS 251—Behavior Problems of Children .....	3
HS 259—Parent Involvement with Young Children .....	3
HS 358—Public Policy for Children and Families .....	3
MKT 304—Marketing .....	3
MNGT 261—The Legal Environment of Business Organizations .....	3
MNGT 310—Small Business Organization .....	3

### Option 2. Hospitality Management

<b>Core Requirements .....</b>	<b>26</b>
<b>Option Requirements .....</b>	<b>17</b>

ACCT 281—Principles of Financial Accounting .....	3
HS 132—Introduction to Hotel, Restaurant, & Institutional Management .....	3
HS 329—Quantity Food Preparation .....	4
HS 331—Food Production Management .....	4
<b>Total .....</b>	<b>14</b>

### Approved Electives

HS 136—Dining Room Procedures and Beverage Control .....	3
HS 231—Meal Management .....	3
HS 234—Computer Assisted Food Service Management .....	3
HS 271—Tourism Planning and Development...	3
MKT 304—Marketing .....	3
MNGT 261—The Legal Environment of Business Organizations .....	3
MNGT 310—Small Business Organization .....	3

## Personal Development Institute

Classes in the Personal Development Institute are available on a nine-week schedule. There are no academic majors or minors offered. One hour of credit is awarded for the classes. Please refer to the course description section for course offerings.

## Department of Biological & Environmental Sciences

David Magrane, Chair

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103Lappin Hall

(606)783-2944

### Faculty

D. DeMoss, G. DeMoss, D. Eisenhour, G. Gearner,  
D. Magrane, L. Meade, S. O’Keefe, D. Peyton,  
B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith,  
C. Tuerk, C. Trombino, C. Wymer

The Department of Biological & Environmental Sciences offers a comprehensive major and minor in biology; an area in teaching biological science; an area in environmental science with two options; a minor in environmental science; and 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 pro-



grams 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 Non-Teaching Major

### 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, specifically to include the areas of botany, zoology, genetics, microbiology, cell biology, physiology, ecology and evolution.
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 304—Genetics .....	3
BIOL 317—Principles of Microbiology .....	4
BIOL 380—Cell Biology .....	3
BIOL 425—Animal Physiology; or	

BIOL 426—Plant Physiology .....	3
BIOL 461—Ecology .....	3
BIOL 499D—Principles of Evolution .....	3
<b>Total for Biology Core .....</b>	<b>31</b>

#### Electives (three courses)

Advanced biology categories  
(see listing that follows) ..... 9-12

**Total Hours for a Biology Major  
(non-teaching) ..... 40-43**

### Advanced Biology Categories

Students must select advanced electives in biology from the following three categories. A minimum of three courses from at least two categories must be selected. Courses selected from advanced biology categories will not be counted as part of the biology core.

#### Group A

BIOL 336—Pathophysiology  
BIOL 419—Immunology  
BIOL 425—Animal Physiology  
BIOL 426—Plant Physiology  
BIOL 446—Biotechnology  
BIOL 518—Pathogenic Microbiology  
BIOL 519—Virology

#### Group B

BIOL 337—Comparative Anatomy  
BIOL 338—Developmental Biology  
BIOL 514—Plant Pathology  
BIOL 520—Histology  
BIOL 540—General Parasitology  
BIOL 544—Organ Systems Physiology  
BIOL 550—Plant Anatomy  
BIOL 555—Plant Morphology  
BIOL 590—Biochemistry

#### Group C

BIOL 318—Local Flora  
BIOL 334—Entomology  
BIOL 437—Ornithology  
BIOL 450—Aquatic Entomology  
BIOL 505—Invertebrate Zoology  
BIOL 510—Limnology  
BIOL 530—Ichthyology  
BIOL 531—Herpetology  
BIOL 535—Mammalogy

Gulf Coast Research Laboratory courses may be used to fulfill the Group C advanced biology elective category. See statement concerning MSU's affiliation agreement with GCRL at the end of the biology program descriptions.

*Note: BIOL 599—Selected Workshop Topics may be used as an elective for Group A, B, or C if approved as suitable by the departmental chair.*

**Supplemental Requirements-Major**

Chemistry (16 hours)	
CHEM 111—Principles of Chemistry I .....	4
CHEM 112—Principles of Chemistry II .....	4
CHEM 326—Organic Chemistry I .....	4
CHEM 301—Fundamentals of Biochemistry .....	4
Physics (eight hours)	
PHYS 201—Elementary Physics I .....	3
PHYS 201A—Elementary Physics I Lab .....	1
PHYS 202—Elementary Physics II .....	3
PHYS 202A—Elementary Physics II Lab .....	1
Mathematics (six to nine hours)	
MATH 174—Pre-Calculus Mathematics or equivalent, or .....	3
MATH 141—Plane Trigonometry, and	
MATH 152—College Algebra .....	6
MATH 353—Statistics or equivalent .....	3
<b>Total Supplemental Hours .....</b>	<b>30-33</b>

**Minor**

Core (15 hours)	
BIOL 171—Principles of Biology .....	4
BIOL 210—General Zoology .....	4
BIOL 215—General Botany .....	4
BIOL 304—Genetics .....	3
<b>Core Total .....</b>	<b>15</b>

*Electives (Minimum of nine hours)*

Three additional courses. These courses must be selected from the list of courses (Core and Elective) accepted for the biology major (non-teaching) .....

**Total hours for a Biology Minor .....** 24

**Supplemental Requirements-Minor**

Chemistry (eight hours)	
<i>The student must take one of the following sequences:</i>	
<i>Sequence I</i>	
CHEM 101—Survey of Chemistry .....	4
CHEM 201—Survey of Organic Chemistry .....	4
<i>Sequence II</i>	
CHEM 111—Principles of Chemistry I .....	4
CHEM 112—Principles of Chemistry II .....	4
<b>Total Supplemental Hours .....</b>	<b>8</b>

**Area of Concentration (Biological Science)**

A student may become certified as a teacher of biological science by completing a Bachelor of Science degree with the requirements listed. In addition, the student must also complete the TEP (30 hours) and such tests and activities required for admission and retention in the Teacher Education Program described in this catalog.

**Program Competencies**

Students completing a concentration of teaching in Biological Science 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

**Core Requirements (43 hours)**

BIOL 171—Principles of Biology .....

BIOL 210—General Zoology .....	4
BIOL 215—General Botany .....	4
BIOL 231—Human Anatomy .....	3
BIOL 232—Human Physiology .....	3
BIOL 304—Genetics .....	3
BIOL 317—Principles of Microbiology.. ..	4
BIOL 380—Cell Biology .....	3
BIOL 402—Integrated Biology, Mathematics, Physical Science Teaching Methods .....	3
BIOL 403—Integrated Biology, Mathematics, Physical Science Field Experiences in Teaching.. ..	3
BIOL 461—Ecology .....	3
BIOL 499D—Principles of Evolution .....	3
Advanced Biology Elective (Group C only) .....	3

**Supplemental Requirements**

Chemistry (12 hours, select one sequence)  
*Sequence I*

CHEM 101—Survey of Chemistry .....	4
CHEM 201—Survey of Organic Chemistry .....	4
CHEM 301—Fundamentals of Biochemistry .....	4

*Sequence II*

CHEM 111—Principles of Chemistry I .....	4
CHEM 112—Principles of Chemistry II.....	4
CHEM 301—Fundamentals of Biochemistry .....	4

Physical Sciences (eight hours)

GEOS 108—Physical Geology .....	4
PHYS 201—Elementary Physics I .....	3
PHYS 201A—Elementary Physics I Lab .....	1

Mathematics (six to nine hours)

MATH 174—Pre-Calculus Mathematics or equivalent, or .....	3
MATH 141—Plane Trigonometry, and	
MATH 152—College Algebra .....	6
MATH 353—Statistics or equivalent .....	3

**Environmental Science**

[www.moreheadstate.edu/colleges/science/biology/envsci.html](http://www.moreheadstate.edu/colleges/science/biology/envsci.html)

**Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, G. Gerner,  
D. Magrane, L. Meade, S. O’Keefe, D. Peyton,  
B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith,  
C. Tuerk, C. Trombino, C. Wymer

**Program Competencies**

**Students successfully completing the Area of Concentration 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

An Area of Concentration in Environmental Science is offered with two options. Option 1 has an Emphasis in Biology. Option 2 has an Emphasis in Biology and Regional Analysis. In either option the student must work closely with his/her advisor to assure that proper course sequences are followed. Private industry, federal and state government agencies, municipalities, public utilities, research agencies and ecological contracting firms are primary sources of employment.

**Area of Concentration**

**Option 1: Emphasis in Biology**

**Core Courses**

BIOL 171—Principles of Biology .....	4
BIOL 155—Introduction to Environmental Science .....	3
BIOL 210—General Zoology .....	4
BIOL 215—General Botany .....	4
BIOL 356—Environmental Biology .....	3
BIOL 357—Environmental Testing Methods .....	3
BIOL 461—Ecology .....	3
BIOL 499C—Contemporary Environmental Issues .....	3

BIOL 510—Limnology .....	3
ECON 401—Environmental Economics, or	
GEO 349—Cartography I .....	3
GEOS 108—Physical Geology .....	4
GEOS 376—Environmental Geology .....	3
GEOS 425—Hydrogeology, or	
GOVT 324—Environmental Law and Policy .....	3
MIN 307—Hydrology .....	3
PHIL 333—Environmental Ethics .....	3
<b>Core Total .....</b>	<b>49</b>

*Advanced Biology Electives .....* 12-13  
*Student must complete any four of the following courses:*

BIOL 317—Principles of Microbiology .....	4
BIOL 318—Local Flora .....	3
BIOL 334—Entomology .....	3
BIOL 437—Ornithology .....	3
BIOL 450—Aquatic Entomology .....	3
BIOL 530—Ichthyology .....	3
BIOL 531—Herpetology .....	3
BIOL 535—Mammalogy .....	3
MSCI—Approved Gulf Coast Laboratory Elective (Maximum of three hours transferable) .....	3
<b>Total .....</b>	<b>61-62</b>

**Supplemental Courses**

Chemistry

*Students must select one of the following sequences:*

Sequence I	
CHEM 111—Principles of Chemistry I .....	4
CHEM 112—Principles of Chemistry II .....	4
CHEM 326—Organic Chemistry I; or	
CHEM 360—Analytical Chemistry .....	4
Sequence II	
CHEM 101—Survey of Chemistry .....	4
CHEM 201—Survey of Organic Chemistry .....	4
CHEM 301—Fundamentals of Biochemistry .....	4

Mathematics

MATH 152—College Algebra or higher .....	3
MATH 353—Statistics .....	3

Agriculture

AGR 211—Soil Science .....	3
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**Supplemental Total .....** 21

**Total .....** 82-83

**Option 2: Emphasis in Biology  
and Regional Analysis**

The Institute for Regional Analysis and Public Policy, MSU’s Program of Distinction, offers a core of courses (18 hours) in regional analysis that can be combined with Option 1 listed above. This option includes all of the 148 Undergraduate Catalog

requirements of Option 1 and the addition of 18 hours of courses taught in the Institute of Regional Analysis & Public Policy (IRAPP) listed below.

**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.

**IRAPP Core**

RAPP 200—Basic Computer Techniques in Regional Analysis .....	3
RAPP 201—Introduction to 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
<b>Core Total .....</b>	<b>18</b>

**Minor**

**Required Courses**

BIOL 155—Introduction to Environmental Science .....	3
GEOS 376—Environmental Geology .....	3
GOVT 324—Environmental Law and Policy .....	3
PHIL 333—Environmental Ethics .....	3
<b>Required Hours .....</b>	<b>12</b>

*Choose any three of the following:*

AGR 211—Soils .....	3
ECON 401—Environmental Economics .....	3
BIOL 171—Principles of Biology .....	4
BIOL 210—General Zoology .....	4
BIOL 215—General Botany .....	4
GEO 360—Physiography of the U.S. ....	3
GEOS 108—Physical Geology .....	4
GEOS 425—Hydrogeology; or	
MIN 307—Hydrology .....	3
<b>Optional Hours .....</b>	<b>9-12</b>
<b>Total .....</b>	<b>21-24</b>

**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.

**PreChiropractic**

**Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, G. Gerner, D. Magrane, L. Meade, S. O’Keefe, D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith, C. Tuerk, C. Trombino, 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.

Morehead State University has an articulation agreement with Palmer College of Davenport, Iowa, that provides students completing the minimum suggested courses and maintaining an acceptable GPA priority consideration for admission to their chiropractic program.

**PreDentistry**

[www.moreheadstate.edu/colleges/science/biology/pre-dent.html](http://www.moreheadstate.edu/colleges/science/biology/pre-dent.html)

**Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, G. Gerner, D. Magrane, L. Meade, S. O’Keefe, D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith, C. Tuerk, C. Trombino, 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. How-

ever, 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**

[www.moreheadstate.edu/colleges/science/biology/medtech.html](http://www.moreheadstate.edu/colleges/science/biology/medtech.html)

### **Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, G. Gerner,  
D. Magrane, L. Meade, S. O'Keefe, D. Peyton,  
B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith,  
C. Tuerk, C. Trombino, 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, urinalysis, 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  
150 Undergraduate Catalog

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 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.

College of Science & Technology

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.

## **PreMed**

[www.moreheadstate.edu/colleges/science/biology/pre-med.html](http://www.moreheadstate.edu/colleges/science/biology/pre-med.html)

### **Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, G. Gearer,  
D. Magrane, L. Meade, S. O'Keefe, D. Peyton,  
B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith,  
C. Tuerk, C. Trombino, 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.

## **PrePharmacy**

[www.moreheadstate.edu/colleges/science/biology/p-pharm.html](http://www.moreheadstate.edu/colleges/science/biology/p-pharm.html)

### **Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, G. Gearer,  
D. Magrane, L. Meade, S. O'Keefe, D. Peyton,  
B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith,  
C. Tuerk, C. Trombino, 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.

## **PrePhysicalTherapy**

[www.moreheadstate.edu/colleges/science/biology/pre-pt.html](http://www.moreheadstate.edu/colleges/science/biology/pre-pt.html)

### **Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, G. Gearer,  
D. Magrane, L. Meade, S. O'Keefe, D. Peyton,  
B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith,  
C. Tuerk, C. Trombino, 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 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.

## **PrePhysicianAssistant**

[www.moreheadstate.edu/colleges/science/biology/pre-pa.html](http://www.moreheadstate.edu/colleges/science/biology/pre-pa.html)

### **Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, G. Gearner, D. Magrane, L. Meade, S. O'Keefe, D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith, C. Tuerk, C. Trombino, 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.

## **PodiatryMedicine**

### **Faculty**

D. DeMoss, G. DeMoss, D. Eisenhour, G. Gearner, D. Magrane, L. Meade, S. O'Keefe, D. Peyton, B. Reeder (IRAPP), A. Risk, D. Saxon, D. Smith, C. Tuerk, C. Trombino, 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.

## **GCRL**

### **ResearchLaboratory**

[www.coms.usm.edu/gindex.htm](http://www.coms.usm.edu/gindex.htm)

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) 872-4201

**Department of  
Education & Technology**

Ahmad Zargari, Chair  
azaga@moreheadstate.edu  
210 Lloyd Cassy Building  
(606) 783-2418

**Industrial  
Technology**

**Faculty**

W. Gris , D. Karwatka, W. Morella, E. Nass,  
C. Patrick, R. Spangler, R. Stanley, A. Zargari

**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: construction/mining, electrical/electronics, graphic communications and design, or manufacturing and robotics.

**Assessment Procedures**

Exit Examinations

Survey of graduating seniors

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:

MATH 141—Plane Trigonometry (or higher) .... 6

Students must complete a minimum of 33 semester hours in the area of Industrial Technology, of which 18 semester hours are the following core Industrial Technology course requirements. The other 15 semester hours will be selected from one of the following technical options: Construction/Mining Technology, Electrical/Electronics Technology, Graphic Communications Technology, or Manufacturing/Robotics Technology.

**Core Requirements ..... 18**

CON 303—Materials Properties and Testing ..... 3

\*\*EET 140—Basic Electricity, or

EET 141—Direct Current Circuits (DC) ..... 3

GCT 103—Fundamentals of Technical Graphics 3

IET 120—Technology Systems ..... 3

IET 320—Supervisory Practices ..... 3

MFT 186—Manufacturing and Fabrication ..... 3

\*EET 140 not accepted as satisfying program requirements in Electrical/Electronics and Manufacturing/Robotics options.

**Option 1: Construction/Mining Technology**

<b>Core Requirements</b> .....	<b>18</b>
<b>Option Requirements</b> .....	<b>15</b>
CON 101—Intro. to Construction Technology, or MIN 101—Intro. to Mining and Reclamation ....	3
CON 203—Construction Methods and Equipment .....	3
CON 210—Surveying I .....	3

**Select two courses from the following list in  
consultation with advisor** .....

CON 202—Structural Design .....	3
CON 204—Codes, Contracts, and Specifications	3
CON 205—Estimating and Construction Costs .	3
CON 206—Construction Management.....	3
CON 310—Surveying II .....	3
MIN 302—Coal Analysis and Preparation .....	3
MIN 303—Mine Laws .....	3
MIN 305—Surface Mining Systems .....	3
MIN 307—Hydrology .....	3

**Electives** ..... **10**  
*Electives may not be related to the option.*

**Option 2: Electrical/Electronics Technology**

<b>Core Requirements</b> .....	<b>18</b>
<b>Option Requirements</b> .....	<b>15</b>
EET 240—Residential Wiring .....	3
EET 215—Basic Control Systems .....	3
EET 241—Alternating Current Circuits (AC) ....	3
EET 242—Analog Devices and Circuits .....	3
EET 245—Digital Electronics .....	3

**Electives** ..... **10**  
*Electives may not be related to the option.*

**Option 3: Graphic Communications Technology**

<b>Core Requirements</b> .....	<b>18</b>
<b>Option Requirements</b> .....	<b>15</b>

*Select from the following list in consultation with advisor:*

GCT 102—Graphic Arts I .....	3
GCT 202—Graphic Arts II .....	3
GCT 203—Technical Drawing II.....	3
GCT 204—Descriptive Geometry .....	3
GCT 215—Computer Aided Drafting .....	3
GCT 301—Tool Layout and Design .....	3
GCT 302—Offset Lithography .....	3
GCT 303—Technical Illustration .....	3
GCT 305—Housing .....	3
GCT 315—Computer Aided Design .....	3
GCT 350—Machine Composition I.....	3

**Electives** ..... **10**

*Electives may not be related to the option.*

**Option 4: Manufacturing/Robotics Technology**

<b>Core Requirements</b> .....	<b>18</b>
<b>Option Requirements</b> .....	<b>15</b>

*Select from the following list in consultation with advisor:*

EET 241—Alternating Current Circuits (AC) ....	3
IET 160—Intro. to Power and Fluid Mechanics .	3
IET 260—Hydraulics and Pneumatics .....	3
MFT 106—Thermoplastics Processing .....	3
MFT 286—Machine Tool Process .....	3
MFT 306—Mold Design and Construction .....	3
MFT 386—NC-CNC Mfg. Technology .....	3
ROB 170—Fundamentals of Robotics .....	3
ROB 270—Robotics Systems Engineering .....	3
ROB 370—Robotics Interfacing Engineering ....	3
WEL 386—Welding I .....	3

**Electives** ..... **10**  
*Electives may not be related to the option.*

**Program Competencies**

**Bachelor of Science in Industrial Technology**

**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/Mining Technology, Electrical/Electronics Technology, Graphic Communications Technology and Computer-Aided Design, or Manufacturing/Robotics Technology.

**Assessment Procedures**

- Exit examinations
- Capstone project
- Survey of graduating seniors
- Randomly administered survey of alumni and employers

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 68 semester hours in the area of Industrial Technology, of which 38 semester hours are the Industrial Technology core requirements. The other 30 semester hours will be selected from one of the following technical options: Construction/Mining Technology, Electrical/Electronics Technology, Graphic Communications Technology, or Manufacturing/Robotics 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 CON, EET, GCT, IET, MFT, and ROB 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  
Economics ..... 3
- IET 300—Technology and Society ..... 3
- IET 499C—Senior Project ..... 3
- MATH 141—Plane Trigonometry or higher ..... 3
- PHYS 201—Elementary Physics I ..... 3
- PHYS 201A—Elementary Physics I Lab ..... 1
- SCI 110—Introduction to Scientific Computing, or  
AGR 261—Information Acquisition, & Analysis, or  
CIS 101—Computers for Learning ..... 3

**Core Requirements ..... 38**

- CON 303—Materials Properties and Testing ..... 3
- \*EET 140—Basic Electricity, or  
EET 141—Direct Current Circuits (DC) ..... 3
- GCT 103—Fundamentals of Technical  
Graphics ..... 3
- IET 120—Technology Systems ..... 3
- IET 317—Time and Motion Study ..... 2

- IET 319—Quality Control ..... 3
- IET 320—Supervisory Practices ..... 3
- IET 327—Applied Industrial Management ..... 3
- IET 330—Industrial Design ..... 2
- IET 371—Seminar For IET ..... 1
- IET 419—Total Quality Improvement ..... 3
- IET 422—Industrial Safety Standards  
and Enforcement ..... 3
- IET 499C—Senior Project ..... 3
- MFT 186—Manufacturing and Fabrication ..... 3

*\*EET 140 not accepted as satisfying program requirements in Electrical/Electronics and Manufacturing/Robotics Technology Options.*

**Option 1: Construction/Mining Technology**

**Core Requirements ..... 38**

**Option Requirements ..... 30**

- CON 101—Intro. to Construction Technology, or  
MIN 101—Intro. to Mining and Reclamation .... 3
- CON 203—Construction Methods and  
Equipment ..... 3
- CON 210—Surveying I ..... 3
- CON 310—Surveying II ..... 3
- MIN 305—Surface Mining Systems ..... 3
- MIN 307—Hydrology ..... 3

**Select from the following list ..... 12**

- CON 202—Structural Design ..... 3
- CON 204—Codes, Contracts, and Specifications 3
- CON 205—Estimating and Construction Costs . 3
- CON 206—Construction Management ..... 3
- MIN 302—Coal Analysis and Preparation ..... 3
- MIN 303—Mine Laws ..... 3
- MIN 402—Mine Roof and Rib Control ..... 3
- MIN 403—Blasting and Explosives ..... 3
- MIN 406—Underground Mine Technology ..... 3

**Electives ..... 12**

**Option 2: Electrical/Electronics Technology**

**Core Requirements ..... 38**

**Option Requirements ..... 30**

*Select from the following list in consultation with advisor:*

- EET 215—Basic Control Systems ..... 3
- EET 240—Residential Wiring ..... 3
- EET 241—Alternating Current Circuits (AC) .... 3
- EET 242—Analog Devices and Circuits ..... 3
- EET 245—Digital Electronics ..... 3
- EET 342—Electronic Devices and Circuits ..... 3
- EET 344—Communications Circuits ..... 3
- EET 345—Microprocessor Electronics ..... 3
- EET 346—Programmable Logic  
Controllers (PLC) ..... 3

EET 443—Industrial Electricity .....	3
EET 444—Communications Systems .....	3
EET 445—Computer Electronics .....	3
EET 480—Digital Communication and Networking .....	3
ROB 370—Robotics Interfacing Engineering ....	3
<b>Electives .....</b>	<b>12</b>

**Option 3: Graphic Communications Technology**

<b>Core Requirements .....</b>	<b>38</b>
<b>Option Requirements .....</b>	<b>30</b>

Select from the following list in consultation with advisor:

CON 202—Structural Design .....	3
CON 210—Surveying I .....	3
GCT 102—Graphic Arts I .....	3
GCT 202—Graphic Arts II .....	3
GCT 203—Technical Drawing II .....	3
GCT 204—Descriptive Geometry .....	3
GCT 215—Computer Aided Drafting .....	3
GCT 301—Tool Layout and Design .....	3
GCT 302—Offset Lithography .....	3
GCT 303—Technical Illustration .....	3
GCT 305—Housing .....	3
GCT 315—Computer Aided Design .....	3
GCT 322—Photography .....	3
GCT 350—Machine Composition I .....	3
GCT 351—Graphic Duplication .....	3
GCT 403—Machine Drawing and Design .....	3
GCT 404—Architectural Drawing .....	3
GCT 405—Civil Drafting .....	3
GCT 450—Machine Composition .....	3

<b>Electives .....</b>	<b>12</b>
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**Option 4: Manufacturing/Robotics Technology**

<b>Core Requirements .....</b>	<b>38</b>
<b>Option Requirements .....</b>	<b>30</b>

Select from the following list in consultation with advisor:

EET 215—Basic Control Systems .....	3
EET 241—Alternating Current Circuits (AC) ....	3
EET 346—Programmable Logic Controllers (PLC) .....	3
GCT 215—Computer Aided Drafting .....	3
GCT 301—Tool Layout and Design .....	3
IET 260—Hydraulics and Pneumatics .....	3
IET 422—Industrial Safety Standards and Enforcement .....	3
MFT 106—Thermoplastic Processing .....	3
MFT 286—Machine Tool Processes .....	3
MFT 306—Mold Design and Construction .....	3
MFT 386—NC-CNC Manufacturing Technology .....	3

MFT 488—Flexible Manufacturing Engineering Technology .....	3
ROB 170—Fundamentals of Robotics .....	3
ROB 270—Robotics Systems Engineering .....	3
ROB 370—Robotics Interfacing Engineering ....	3
ROB 470—Robotics Applications Engineering .	3
WEL 307—Automated Welding Technology .....	3
WEL 386—Welding I .....	3

<b>Electives .....</b>	<b>12</b>
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**Major**

The student must complete the departmental and University general education requirements and a minimum 48 semester hours in the area of Industrial Technology, of which 30 semester hours are from the Industrial Technology core requirements. The other 18 semester hours will be selected from one of the following technical options: Construction/Mining Technology, Electrical/Electronics Technology, Graphic Communications Technology, or Manufacturing/Robotics Technology. The major must be accompanied by a minor or a second major.

*Note: A maximum of 12 academic credits are offered in the BS degree program from Industrial Work Experience through cooperative study. The courses 239, 339, and 439 within the content areas of CON, GCT, EET, IET, MFT, and ROB can be selected following consultation with the student's advisor.*

<b>General Education Requirements .....</b>	<b>48</b>
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See specific general education requirements listed under Bachelor of Science in Industrial Technology, page 155.

<b>Core Requirements .....</b>	<b>30</b>
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CON 303—Material Properties and Testing .....	3
*EET 140—Basic Electricity, or EET 141—Direct Current Circuits (DC) .....	3
GCT 103—Fundamentals of Technical Graphics .....	3
IET 120—Technology Systems .....	3
IET 319—Quality Control .....	3
IET 320—Supervisory Practices .....	3
IET 330—Industrial Design, or IET 317—Time and Motion Study .....	2
IET 371—Seminar for IET .....	1
IET 419—Total Quality Improvement .....	3
IET 499C—Senior Project .....	3
MFT 186—Manufacturing and Fabrication .....	3

\*EET 140 not accepted as satisfying program requirements in Electrical/Electronics and Manufacturing/Robotics Technology options.

**Option 1: Construction/Mining Technology**

**Core Requirements ..... 30**

**Option Requirements ..... 18**

*Select from the following list in consultation with advisor:*

CON 101—Intro. to Construction Technology ...	3
CON 202—Structural Design .....	3
CON 203—Construction Methods and Equipment .....	3
CON 204—Codes, Contracts, and Specifications .....	3
CON 205—Estimating and Construction Costs .	3
CON 206—Construction Management.....	3
CON 210—Surveying I .....	3
CON 310—Surveying II .....	3
MIN 101—Intro. to Mining and Reclamation ....	3
MIN 302—Coal Analysis and Preparation .....	3
MIN 303—Mine Laws .....	3
MIN 305—Surface Mining Systems .....	3
MIN 307—Hydrology .....	3
MIN 402—Mine Roof and Rib Control.....	3
MIN 403—Blasting and Explosives .....	3
MIN 406—Underground Mine Technology .....	3

**Electives ..... 8**

*Must include at least three semester hours of mathematics in addition to the general education requirements. Electives may not be related to the option.*

**Minor or Second Major ..... 24**

*The departmental recommendation supports the second major option.*

**Option 2: Electrical/Electronics Technology**

**Core Requirements ..... 30**

**Option Requirements ..... 18**

*Select from the following list in consultation with advisor:*

EET 215—Basic Control Systems .....	3
EET 240—Residential Wiring .....	3
EET 241—Alternating Current Circuits (AC) ....	3
EET 242—Analog Devices and Circuits .....	3
EET 245—Digital Circuits.....	3
EET 342—Electronic Devices and Circuits.....	3
EET 344—Communications Circuits .....	3
EET 345—Microprocessor Electronics .....	3
EET 443—Industrial Electricity .....	3
EET 444—Communications Systems.....	3
EET 445—Computer Electronics .....	3
EET 480—Digital Communication and Networking .....	3
ROB 370—Robotics Interfacing Engineering ....	3

**Electives ..... 8**

*Must include at least three semester hours of mathematics*

*ics and three semester hours of management in addition to the general education requirements. Electives may not be related to the option.*

**Minor or Second Major ..... 24**

*The departmental recommendation supports the second major option.*

**Option 3: Graphic Communication Technology**

**Core Requirements ..... 30**

**Option Requirements ..... 18**

*Select from the following list in consultation with advisor:*

CON 202—Structural Design .....	3
CON 210—Surveying I .....	3
GCT 102—Graphic Arts I .....	3
GCT 202—Graphic Arts II .....	3
GCT 203—Technical Drawing II.....	3
GCT 204—Descriptive Geometry .....	3
GCT 215—Computer Aided Drafting.....	3
GCT 301—Tool Layout and Design .....	3
GCT 302—Offset Lithography .....	3
GCT 303—Technical Illustration .....	3
GCT 305—Housing .....	3
GCT 315—Computer Aided Design .....	3
GCT 322—Photography .....	3
GCT 350—Machine Composition I.....	3
GCT 351—Graphic Duplication .....	3
GCT 403—Machine Drawing and Design.....	3
GCT 404—Architectural Drawing.....	3
GCT 405—Civil Drafting .....	3
GCT 450—Machine Composition II .....	3
IET 317—Time and Motion Study .....	2
IET 330—Industrial Design .....	2

**Electives ..... 8**

*Must include at least three semester hours of mathematics in addition to the general education requirements. Electives may not be related to the option.*

**Minor or Second Major ..... 24**

*The departmental recommendation supports the second major option.*

**Option 4: Manufacturing/Robotics Technology**

**Core Requirements ..... 30**

**Option Requirements ..... 18**

*Select from the following list in consultation with advisor:*

EET 215—Basic Control Systems .....	3
EET 241—Alternating Current Circuits (AC) ....	3
GCT 215—Computer Aided Drafting.....	3
GCT 301—Tool Layout and Design .....	3
IET 260—Hydraulics and Pneumatics.....	3

IET 422—Industrial Safety Standards and Enforcement .....	3
MFT 106—Thermoplastic Processing .....	3
MFT 286—Machine Tool Processes .....	3
MFT 306—Mold Design and Construction .....	3
MFT 386—NC-CNC Manufacturing Technology .....	3
MFT 488—Flexible Manufacturing Engineering Technology .....	3
ROB 170—Fundamentals of Robotics .....	3
ROB 270—Robotics Systems Engineering .....	3
ROB 370—Robotics Interfacing Engineering ....	3
ROB 470—Robotics Applications Engineering .	3
WEL 307—Automated Welding Technology .....	3
WEL 386—Welding I .....	3
<b>Electives .....</b>	<b>8</b>

**Minor or Second Major .....** **24**

*The departmental recommendation supports the second major option.*

**Minor in Industrial Technology**

<b>Minor .....</b>	<b>24</b>
<b>Core Requirements .....</b>	<b>9</b>

*Six hours from the following:*

CON 101—Intro. to Construction Technology, or MIN 101—Intro. to Mining and Reclamation ....	3
EET 140—Basic Electricity, or EET 141—Direct Current Circuits (DC) .....	3
GCT 103—Fundamentals of Technical Graphics .....	3
MFT 186—Manufacturing and Fabrication, or ROB 170—Fundamentals of Robotics .....	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—Supervisory Practices .....	3
IET 419—Total Quality Improvement .....	3

**Option Requirements .....** **15**

*Chosen in consultation with minor advisor.*

**Choose from the following .....** **9**

- CON/MIN option, or
- EET option, or
- GCT option, or
- MFT/ROB option

**Technical electives .....** **6**

**Bachelor of Science  
in Industrial Education**

**Faculty**

W. Gris , D. Karwatka, W. Morella, E. Nass,  
C. Patrick, R. Spangler, R. Stanley, A. Zargari

**Program Competencies**

**At the completion of the TEP, the new teacher (student) will be able to:**

1. Teach technology courses in one of the following areas: construction/mining, electrical/electronics, computer-aided drafting and design, graphics communication, or manufacturing and robotics.
2. Demonstrate technical skills in the specific teaching area.
3. Teach problem-solving skills required for performing and maintaining a career in a professional field.
4. Demonstrate proficiency in evaluating student performance in their specific fields.

**Assessment Procedure**

Exit examinations

Survey of graduating seniors

Randomly administered survey of alumni

*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 48 semester hours in the area of Industrial Education and Technology, of which 30 semester hours are the following core Industrial Education and Technology course requirements. The other 18 semester hours will be selected from one technical area or from a combination of the following technical options: Construction/Mining Technology, Electrical/Electronics Technology, Graphic Communications Technology, or Manufacturing/Robotics Technology, to fulfill State of Kentucky certification guidelines.

*Note: Industrial Education majors are required to have documented evidence of 2,000 clock hours of work experience for Preparation Level, and 1,000 clock hours of work experience for Orientation/Exploration Level. 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*

way of IET 398, Supervised Work Experience, for three semester hours.

**General Education Requirements ..... 48**

See general education requirements for the University.

The following specific general education requirements must be completed for Industrial Education options:

IET 499C—Senior Project ..... 3  
 MATH 152—College Algebra ..... 3  
 PHYS 201—Elementary Physics I ..... 3  
 PHYS 201A—Elementary Physics I Lab ..... 1  
 SCI 110—Introduction to Scientific Computing , or  
 AGR 261—Information Acquisition, & Analysis , or  
 CIS 101—Computers for Learning ..... 3

**Core Requirements ..... 30**

EET 140—Basic Electricity ..... 3  
 EET 240—Residential Wiring, or  
 EET 245—Digital Electronics ..... 3  
 GCT 102—Graphic Arts I ..... 3  
 GCT 103—Fundamentals of Technical  
 Graphics ..... 3  
 GCT 202—Graphic Arts II ..... 3  
 GCT 203—Technical Drawing II, or  
 GCT 215—Computer Aided Drafting ..... 3  
 IET 120—Technology Systems, or  
 IET 300—Technology and Society ..... 3  
 IET 319—Quality Control ..... 3  
 MFT 186—Manufacturing and Fabrication ..... 3  
 MFT 286—Machine Tool Processes, or  
 ROB 170—Fundamentals of Robotics ..... 3  
 or

An accredited sequence of occupational courses in one specific vocational or occupational area .. 30

**Option 1: Industrial Education Orientation/  
 Exploration Level**

**Core Requirements ..... 30**

**Option Requirements ..... 18**

Select from the following list in consultation with advisor:

CON 101—Introduction to Construction Tech., or  
 CON 303—Materials Properties and Testing ..... 3  
 IET 111—Basic Wood Technics ..... 3  
 IET 160—Introduction to Power and  
 Fluid Mechanics ..... 3  
 IET 260—Hydraulics and Pneumatics ..... 3  
 IET 371—Seminar in IET ..... 1  
 IET 398—Supervised Work Experience, or  
 IET 422—Industrial Safety Standards and  
 Enforcement ..... 3  
 IET 496—Organization and  
 Management of the Laboratory ..... 2

**Professional Requirements for**

**Teacher Certification ..... 36**

EDEM 330—Foundations of Reading ..... 3  
 EDF 211—Human Growth and Development .... 3  
 EDF 311—Learning Theories in the Classroom . 3  
 EDSP 332—Teaching the Exceptional Student .. 3  
 IET 392—Methods of Instructional Technology 3  
 IET 470—Methods of Instruction ..... 3  
 IET 478—Student Teaching Practicum ..... 12  
 IET 388—Methods of Curriculum  
 Development ..... 3  
 VOC 207—Foundations of Vocational  
 Education ..... 3

**Option 2: Industrial Education Preparation Level**

**Core Requirements ..... 30**

**Option Requirements ..... 18**

Select from the following list in consultation with advisor:

IET 185—Methods of Instruction in  
 Vocational Education ..... 3  
 IET 320—Supervisory Practices ..... 3  
 IET 364—Career and Vocational Guidance ..... 3  
 IET 388—Methods of Curriculum  
 Development ..... 3  
 IET 422—Industrial Safety Standards  
 and Enforcement ..... 3  
 IET 497—Seminar in Vocational  
 Industrial Education ..... 1

**Technical Electives ..... 2**

**Professional Requirements for**

**Teacher Certification ..... 32**

EDF 211—Human Growth and Development .... 3  
 EDF 311—Learning Theories in the Classroom . 3  
 EDSP 332—Teaching the Exceptional Student .. 3  
 IET 372—Technical Media Development ..... 3  
 IET 393—Methods in Vocational  
 Industrial Education ..... 3  
 IET 394—Student Teaching in Vocational  
 Industrial Education. .... 8  
 VOC 207—Foundations of Vocational  
 Education ..... 3

**Electives ..... 9**

**Department  
Mathematical Sciences**

Rodger Hammons, Chair  
rhammons@moreheadst.edu  
106L Appin Hall  
(606) 783-2930

**Faculty**

D. Ahmadi, S. Beck, R. Blanton, K. Cebulla,  
D. Chatham, V. Cyrus, G. Fricke,  
R. Hammons, P. Hardin, M. Howard, L. Jaisingh,  
C. Jones, K. Lewis, R. May, T. Meadows, T. Pack,  
D. Pollitte, R. Ross, C. Schroeder,  
B. Schworm, D. Seth, D. Skaggs

**Program Competencies**

The student exiting the programs in the mathematical sciences must be able to:

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.
2. Use technology as an aid in the solution of problems. Specifically, the student must be able to write and effectively use programs for computers and programmable or 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. This ability must exist in both written and oral forms of communication.

**Assessment Procedures**

Senior capstone  
Portfolios in selected junior and senior classes  
Survey of graduates  
Exit interviews

**Bachelor of Science**

The Department of Mathematical Sciences is com-

mitted 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)**

MATH 170—Introduction to Algorithms .....	3
MATH 175—Analytic Geometry and Calculus I .....	4
MATH 260—FORTRAN Programming .....	3
MATH 275—Analytic Geometry and Calculus II .....	4
MATH 276—Analytic Geometry and 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—Principles of Optimization .....	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 Lab .....	1
PHYS 232—Engineering Physics II .....	4
PHYS 232A—Engineering Physics II Lab .....	1
<b>Total .....</b>	<b>58</b>

**Major in Mathematics (Non-Teaching)**

MATH 170—Introduction to Algorithms .....	3
MATH 175—Analytic Geometry and Calculus I .....	4
MATH 275—Analytic Geometry and Calculus II .....	4
MATH 276—Analytic Geometry and 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, 373, 374, 402, and 403 as approved by the department chair. . 11	
<b>Total .....</b>	<b>38</b>

**Major in Mathematics (Teaching)**

MATH 170—Introduction to Algorithms .....	3
MATH 175—Analytic Geometry and Calculus I .....	4
MATH 275—Analytic Geometry and Calculus II .....	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 365—Introduction to Mathematical Statistics .....	3
MATH 370—College Geometry I .....	3
MATH 371—College Geometry II .....	3
MATH 373—Principles and Techniques of Teaching Mathematics .....	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 499C—Senior Capstone .....	3
<b>Total .....</b>	<b>38</b>

*In addition, the Department strongly recommends that teaching majors complete MATH 276 and both MATH 301 and 308.*

**Minor in Mathematics**

MATH 170—Introduction to Algorithms .....	3
MATH 175—Analytic Geometry and Calculus I .....	4
MATH 275—Analytic Geometry and Calculus II .....	4
Electives from MATH 174, 276, or other mathematics courses at or above the 300 level except MATH 330, 332, 353, 354, 373, 374, 402, and 403 as approved by the department chair .. 13	
<b>Total .....</b>	<b>24</b>

**Minor in Statistics**

**Option 1: Non-Calculus Track**

Elective in Mathematics, from 152-199 level .....	3
MATH 301—Elementary Linear Algebra .....	3
MATH 353—Statistics .....	3
MATH 355—Principles of Optimization .....	3
MATH 455—Linear Statistical Models .....	3

MATH 553—Concepts in the Design of Experiments .....	3
MATH 555—Nonparametric Statistics .....	3
<b>Total .....</b>	<b>21</b>

**Option 2: Calculus Track**

MATH 301—Elementary Linear Algebra .....	3
MATH 355—Principles of Optimization .....	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
<b>Total .....</b>	<b>21</b>

**Computer Science**

**Faculty**

R. May, D.Seth

**Program Competencies**

**Students will be able to:**

1. Analyze, model and solve problems in the areas of algebra, analysis, statistics, and computer science.
2. Use computational technology as a tool to aid in the solution of problems.
3. Use self-motivation and self-direction in the learning of new materials.
4. Be competent in the use of the language of mathematics and computer science.
5. Develop oral and written communication skills.

**Assessment Procedures**

Senior capstone  
Portfolios in selected junior and senior classes  
Survey of graduates  
Exit interviews

**Bachelor of Science**

The Department of Mathematical Sciences 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.

**Area of Concentration in  
Computer Science**

**Mathematics**

MATH 175—Analytic Geometry and Calculus I ..	4
MATH 275—Analytic Geometry and Calculus II .	4
MATH 308—Discrete Mathematics .....	3
MATH 365—Intro. to Mathematical Statistics ...	3
<b>Total .....</b>	<b>14</b>

**Computer Science**

CIS 205—C/C++Programming I .....	3
CS 303—Data Structures .....	3
CS 310—Algorithms and Advanced Data Structures .....	3
CIS 325—Analysis and Design of Information Systems .....	3
CS 335—Theory of Programming Languages ...	3
CS 360—Operating Systems .....	3
CS 380—Software Engineering .....	3
CIS 426—Database Management Systems .....	3
CIS 440—Telecommunications and Networking .....	3
EET 345—Microprocessor Electronics .....	3
CS/MATH 499C—Senior Capstone .....	3
MATH 170—Introduction to Algorithms .....	3

*Three electives (nine hours) taken from the following. At least two of the three electives must be taken from CS, EET, MATH, or PHYS.*

CIS 305—C/C++ Programming II .....	3
CIS 314—Java Programming .....	3
CIS 405—Web Development Strategies and E-commerce .....	3
CIS 442—Network Administration .....	3
CIS 443—Advanced Computer Networking Administration .....	3
CS 450—Computer Graphics .....	3
CS 460—Scientific and Parallel Computing .....	3
CS 476—Special Problems .....	1-3
EET 445—Computer Electronics .....	3
EET 480—Digital Communications and Networking .....	3
MATH 260—FORTRAN Programming .....	3
MATH 276—Analytic Geometry and Calculus III	4
MATH 301—Elementary Linear Algebra .....	3
MATH 312—Numerical Methods .....	3
PHYS 381—Computer Solutions to Engineering and Science Problems .....	3
<b>Total .....</b>	<b>45</b>

**Other**

PHIL 203—Social Ethics .....	3
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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
PHYS 361—Fundamentals of Electronics .....	3
<b>Total .....</b>	<b>14-16</b>

**Total for Area .....** 73-75

**Department Nursing  
& Allied Sciences**

**Donna J. Corley, Coordinator**

dcorley@morehead.edu

234 Reed Hall

(606)783-2632

**Associate Degree Nursing**

429 Reed Hall

(606)783-2772

**Faculty**

C. Clevenger, D. Corley, Y. Duan,  
T. Howell, L. Mays, M. Walters

**Program Competencies**

**Students will:**

1. Apply principles from natural and behavioral sciences, mathematical sciences, humanities and nursing as a foundation for the Associate Degree Nursing (ADN) Program.
2. Utilize the nursing process as a method of planning, providing, and evaluating nursing care for individual groups of patients and family/significant others in various health care settings.
3. Integrate concepts and theories of individual, life span, growth and development, health and nursing care which reflects the worth and dignity of individuals and families/significant others within a multicultural society.
4. Provide nursing care to promote, restore, and maintain health, prevent illness, or achieve a dignified death for patients with consideration of patient's relationships within a family, group, and community.
5. Demonstrate competency in the performance of technical skills and utilization of interpersonal skills.

6. Practice within the scope of associate degree nursing as a provider of care, manager of care, and member within the discipline of nursing.
7. Integrate historical, technological, ethical, and legal components of nursing and local and national health care trends into associate degree nursing practice.
8. Assume accountability for nursing practice and for continuing personal, professional, and educational development at the associate degree level.

### **Assessment Procedures**

Standardized examinations in specific nursing areas. National Council Licensure Examination for Registered Nurses.

ADN Program Surveys of graduates and employers related to educational preparation, graduate performance in the clinical area, and employment.

### **Associate of Applied Science**

(Two-Year Program)

The ADN 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 technical nurse. Graduates of the Program are eligible to take the National Council Licensure Examination for Registered Nurses.

### **Associate Degree Nursing Program**

#### **Admission Requirements and Procedures**

The ADN Program 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 ADN Program:
  - A. Completed ADN application.
  - B. Official copy of high school transcript(s).
  - C. GED scores if applicable.
  - E. Official American College Test (ACT) Scores.
  - E. Official transcripts from all universities/college attended.
  - F. University undergraduate catalog(s) if transfer

credit is sought.

3. Submit the following as applicable:
  - A. Licensed practical nurse applicants: in addition to the above materials, submit verification of current license and (if applicable) challenge exam scores.
  - B. Nursing transfer students: in addition to the above materials, submit nursing course syllabi of the institution from which you wish to be considered for transfer credit.
4. Student selection process occurs during the spring semester preceding Fall admission.
5. Applicants reapplying to the ADN Program must submit new application materials in order to be considered for admission.
6. Students are officially admitted to the ADN program in the Fall Semester of the first year of the curriculum sequence.
7. In order to be considered for official admission to the ADN program, all materials except the health form and Basic Life Support for Healthcare Providers Certification must be submitted to the address listed below before Feb. 1 preceding Fall admission:

Student Services Officer  
Associate Degree Nursing Program  
UPO 715, Reed Hall 225  
Department of Nursing & Allied Health Sciences  
Morehead State University  
Morehead, KY 40351-1689

#### **Admission Criteria**

The ADN Program has a limited enrollment. Licensed Practical Nurse applicants may qualify for advanced placement (see advanced placement for LPNs). Applicants to the ADN program are selected based upon the following criteria:

1. American College Test (Enhanced ACT) scores 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, 232, CHEM 101 and 101L, CMSP 108, MATH 135, PSY 154, and 156. Preference will be given to students who have ACT scores of 19 or above.
2. GED validation, if applicable. Preference will be given to a standard score of 50 or above.

3. Past performance in high school and/or college/university:
  - A. Must have a “B” average in high school, or
  - B. Must have GPA of 2.5 on a scale of 4.0. A minimum of nine semester hours of college credit in general education support courses required for the ADN Program must be earned in order for college GPA to be considered. At least three of these nine hours must be credit earned in a math or natural science course that is required in the ADN Program.
4. An interview by nursing faculty may be required for applicants who meet mandatory criteria but do not meet minimum preferred criteria.
5. Evidence of current Basic Life Support for Healthcare Providers Certification.
6. Health and Physical Capability Requirements as outlined on the Department of Nursing & Allied Health Sciences Applicant Health Form. Maintenance of health and physical capability documentation is required for retention throughout the program. At the discretion of faculty, a mental and physical re-evaluation may be requested at any point in the program.

#### **Advanced Placement for Licensed Practical Nurses (LPNs)**

LPN applicants may qualify for advanced placement into the third semester of the ADN Program. LPN applicants seeking advanced placement into NURA 203 (third semester of ADN program) 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, 232, CHEM 101 and 101L, CMSP 108, MATH 135, PSY 154, and 156. Application deadline is Feb. 1 preceding Fall admission.

LPN applicants who meet admission criteria may seek advance placement into NURA 203 (third semester) through one of two options:

1. 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 100, NURA 101, and NURA 102).
2. Successful completions of challenge exams for

the first year of NURA courses (NURA 100, NURA 101, and NURA 102) will result in “K” credit for the first year of NURA courses. LPNs who wish to take the challenge exams must follow the procedures outlined in the Challenge Examination Policy. For advance placement by challenge, exam results must be submitted by the application deadline. Placement will be determined by performance on the following exams:

- A. Fundamentals of Nursing (NURA 100) — minimal standard score of 45 on the ACT Proficiency Exam, Fundamentals of Nursing (#403).
- B. Maternity Nursing (NURA 101) — minimal percentile score of 50 on the NLN Achievement Test, Nursing the Child-Bearing Family (#0015).
- C. Mental Health Nursing (NURA 102) — minimal percentile score of 50 on the NLN Achievement Test, Mental Health Nursing (#0314).

#### *Notes:*

- Each challenge exam may be taken once prior to enrollment in the respective course.
- *All students who receive “K” credit for nursing courses for the first year of the generic curriculum are required to take NURA 280.*
- *Verification of health and physical capabilities is documented by the completion of the Department of Nursing and Allied Health Sciences Applicant Health Form by a licensed physician(s) or nurse practitioners upon completion of a thorough physical examination.*
- *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. ADN Application forms and Department of Nursing and Allied Health Sciences Applicant Health Forms are available in the department and obtaining these forms is the student’s responsibility.*

#### **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 in-

curred by enrollment in the ADN Program. This cost includes clothing, equipment, malpractice insurance, and academic materials.

*After entry to the ADN Program, all nursing courses (NURA) must be taken in the required sequence listed.*

Information related to required tuition and fees may be obtained from MSU or the National League for Nursing Accrediting Commission, 350 Hudson Street, New York, N.Y. 10014, (212) 989-9393.

## Bachelor of Science in Nursing

**Janet J. Gross, Coordinator**

jgross@moreheadstate.edu

234 Reed Hall

(606) 783-2296

### Faculty

A. Blair, M. Burton, C. Clevenger, D. Corley,  
J. Gross, T. Howell, F. Kilburn,  
M. Lewis, M. Walters, B. Wilburn

**Required Course Sequence for ADN Students**  
A total of 72 credit hours is required for the AAS degree which includes 38 credit hours of general education and support courses and 34 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.

### First Semester

BIOL 231—Human Anatomy .....	3
CMSP 108—Fundamentals of Speech Communication .....	3
MATH 135—Mathematics for Technical Students (or higher level Math) .....	3
NURA 100—Fundamentals of Nursing .....	6
PSY 154—Introduction to Psychology .....	3
<b>Semester Total .....</b>	<b>18</b>

### Second Semester

BIOL 232—Human Physiology .....	3
CHEM 101—Survey of General Chemistry .....	4
NURA 101—Maternity Nursing .....	4
NURA 102—Mental Health Nursing .....	4
PSY 156—Lifespan Developmental Psychology	3
<b>Semester Total .....</b>	<b>18</b>

### Third Semester

BIOL 217—Elementary Medical Microbiology, or BIOL 317—Principles of Microbiology .....	4
CIS 101—Computers for Learning .....	3
ENG 100—Writing I .....	3
NURA 203—Child Adult Nursing I .....	8
<b>Semester .....</b>	<b>18</b>

### Fourth Semester

ENG 200—Writing II .....	3
NURA 204—Child Adult Nursing II .....	10
NURA 210—Nursing Issues and Trends for the Associate Degree Nurse .....	2
SOC 101—General Sociology .....	3
<b>Semester Total .....</b>	<b>18</b>

### 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.

### 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. Copy of transcripts from all universities/colleges attended.
  - E. University undergraduate catalog(s) if transfer credit is sought.
  - F. Course syllabi for all nursing courses completed if transfer credit is sought.
4. Student selection process occurs during the Spring Semester preceding the 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 pre-licensure component of the BNP, all materials except the health form and CPR certification must be submitted to the address below before March 1 preceding Fall admission to the program:

Student Services Officer  
Baccalaureate Nursing Program  
UPO 715, Reed Hall 225  
Department of Nursing & Allied Health Sciences  
Morehead State University  
Morehead, Kentucky 40351-1689

Information related to required tuition and fees may be obtained from Morehead State University.

#### 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 2.5 or above (with no rounding) based on the required 35 credits;
- \*4. Current certification by the American Heart Association in Basic Life Support for Healthcare Providers (CPR);
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 fail-

ures. 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. Final acceptance will be dependent on maintaining course grades and GPA as outlined in criteria.

\*7. Meet health and physical capabilities requirements as outlined on department health form.

\*Documentation of meeting health and physical capabilities and CPR requirements is required for final official admission to the BNP.

### **BNP-Postlicensure (RN Track) Component Admission Requirements and Procedures Application Procedure**

#### **(BNP Postlicensure Track) Component**

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 1 for admission into the Fall Semester or Sept. 1 for admission into the Spring Semester:
  - A. Completed BNP application.
  - B. Transcripts from all universities/colleges attended.
  - C. University undergraduate catalog(s) if transfer credit is sought.
  - D. Validation of current Kentucky nursing licensure.
  - E. Verification of health and physical capabilities.
  - F. Validation of current CPR certification in Basic Life Support for Healthcare Providers (AHA).
  - G. Verification of professional malpractice insurance.

Student Services Officer  
BNP Postlicensure Track Component  
UPO Box 715, Reed Hall 225  
Department of Nursing & Allied Health Sciences  
Morehead State University  
Morehead, KY 40351-1689

\*A Regional Coordinator for the BNP - Postlicensure Component is available at MSU at Ashland and MSU at Prestonsburg and at Maysville Community College.

### **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 NLN-ACE-RN examinations or the equivalent.
4. Complete 67 hours of required general education and support courses.
5. Hold a minimum grade of a “C” in each of the required general education, support and nursing courses.
6. Possess a current certification by the American Heart Association cardiopulmonary resuscitation (CPR) in Basic Life Support for Healthcare Providers.
7. Possess professional malpractice insurance.
8. Meet health and physical capabilities requirements outlined on department form.

### **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, 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 Uni-

versity 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 verbal, quantitative, and analytical portions).
  - J. Three letters of reference, two 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 NLN-ACE-RN examinations.
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 the health and physical capabilities requirements of MSU's BNP.

#### **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 three subscales).
4. Three references, two should be from nurses (one from a BSN 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**

A total of 137 credit hours is required for the BSN degree which includes 68 credit hours of general education and support courses and 69 credit hours of nursing courses. BNP policies on challenge examination, transfer credit, academic standards and progression, and criteria for taking National Licensure Examination can be obtained from the Department of Nursing & Allied Health Sciences.



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 I and Lab ....	4
ENG 100—Writing I .....	3
MATH 135—Math, for Tech, Students; or higher	3
MSU 101—Discovering University Life .....	1
PSY 154—Introduction to Psychology .....	3
<b>Semester Total .....</b>	<b>17</b>

**Second Semester**

BIOL 232—Human Physiology .....	3
CHEM 201—Survey of Organic Chemistry and Lab .....	4
ENG 200—Writing II .....	3
NURB 152—Basic Concepts and Theories .....	2
PSY 156—Lifespan Developmental Psychology .	3
SOC 101—General Sociology .....	3
<b>Semester Total .....</b>	<b>18</b>

**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
<b>Semester Total .....</b>	<b>18</b>

**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
<b>Semester Total .....</b>	<b>17</b>

**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
<b>Semester Total .....</b>	<b>17</b>

**Second Semester**

NURB 361—Introduction to Nursing Research .	3
NURB 370—Adult Nursing I .....	8
NURB 363—Mental Health Nursing .....	4
*Humanities Elective .....	3
<b>Semester Total .....</b>	<b>18</b>

**Senior Year**

**First Semester**

NURB 454—Adult Nursing II .....	10
*Humanities Elective .....	3
*Social & Behavioral Science Elective .....	3
<b>Semester Total .....</b>	<b>16</b>

**Second Semester**

NURB 461—Nursing Leadership and Management .....	3
NURB 497—Nursing Senior Seminar .....	4
NURB 499C—Advanced Nursing Practicum ....	3
*Humanities Elective .....	3
<b>Semester Total .....</b>	<b>16</b>

\*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.
- The curriculum requirements and course sequencing may be changed as part of the process of program evaluation. The responsibility of keeping abreast of changes in curriculum requirements and/or sequencing is shared by faculty and students.

**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
BIOL 336—Pathophysiology .....	4
CHEM 101—Survey of General Chemistry I and Lab .....	4
CHEM 201—Survey of Organic Chemistry and Lab .....	4
CIS 101—Computers for Learning .....	3
CMSP 108—Fundamentals of Speech Communication .....	3
ENG 100—Writing I .....	3
ENG 200—Writing II .....	3

HS 201—Principles of Nutrition .....	3
MATH 135—Mathematics for Technical Students or higher .....	3
MATH 353—Statistics .....	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 Science elective .....	3
Practical Living elective .....	3
<b>Total .....</b>	<b>67</b>

**Junior Year**

**First Semester**

*NURB 349—Pharmacology .....	3
NURB 354—Health Assessment .....	3
NURB 366—Theory and Practice of Professional Nursing .....	6
<b>Semester Total .....</b>	<b>12</b>

**Second Semester**

NURB 310—Community Health Nursing .....	3
NURB 313—Community Health Nursing Practicum .....	2
NURB 361—Introduction to Nursing Research .	3
NURB 457—Advanced Nursing Concepts for the RN Track Student .....	4
<b>Semester Total .....</b>	<b>12</b>

**Third Semester**

NURB 461—Nursing Leadership and Management .....	3
NURB 497—Nursing Senior Seminar .....	4
NURB 499C—Advanced Nursing Practicum ....	3
<b>Semester Total .....</b>	<b>10</b>

*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 24 hours of lower division nursing courses (total of 34 hours).*

**Required Curriculum Sequence for  
MSU/UK RN/BSN/MSN Primary Care  
Nurse Practitioner Students**

General education, support, and nursing courses required prior to official admission to MSU’s RN Track Component:

BIOL 217—Elementary Medical Microbiology .....	4
BIOL 231—Human Anatomy .....	3
BIOL 232—Human Physiology .....	3

BIOL 336—Pathophysiology .....	4
CHEM 101—Survey of General Chemistry and Lab .....	4
CHEM 201—Survey of Organic Chemistry and Lab .....	4
CIS 101—Computers for Learning .....	3
CMSP 108—Fundamentals of Speech Communication .....	3
ENG 100—Writing I .....	3
ENG 200—Writing II .....	3
HS 201—Principles of Nutrition .....	3
MATH 135—Mathematics for Technical Students or higher .....	3
MATH 353—Statistics .....	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
*NURB 349—Pharmacology .....	3
<b>Total .....</b>	<b>70</b>

**Lower division nursing courses accepted from ADN Program (following RN/BSN/MSN program admission) ..... 32**  
**Total ..... 102**

*\*NURB 349—Pharmacology may be challenged or taken prior to admission. 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.*

**Radiologic Sciences Programs**

**Barbara Dehner, Coordinator**

bdehner@moreheadstate.edu

408 Reed Hall

(606)783-2646 or 783-2772

**Faculty**

M. Cooper (Clinical Coordinator), J. Darling, B. Dehner (Coordinator), J. Fannin, C. Gibbs, W. Goodpaster (Sonography Coordinator)

The Radiologic Sciences Programs offers an Associate of Applied Science Degree in Radiologic Technology and a Bachelor of Science Degree in Radiologic Sciences with options in Computed Tomography or Sonography.

## Associate of Applied Science in Radiologic Technology

The Associate of Applied Science Degree in Radiologic Technology has a selective admission process based on completion of 31 to 32 credit hours of required pre-radiologic sciences courses with a minimum of 2.5 GPA and a minimum grade of “C” in each course. The program consists of two years of radiography courses. The additional general education requirements for admission to the Bachelor of Science in Radiologic Sciences Degree may also be taken in conjunction with the radiography courses. At the end of the program, the student will receive an Associate of Applied Science Degree in Radiologic Technology and be eligible to apply for the American Registry of Radiologic Technologists (ARRT) National Certification Examination in radiography. With additional general education courses, the graduate is also eligible to apply to the Baccalaureate Radiologic Sciences Program options.

### Program Competencies

#### Students will be able to:

1. Synthesize principles of human structure, mathematics, natural sciences, social and behavioral sciences, humanities, and diagnostic imaging as a foundation for radiologic science practice in all areas including radiation protection, equipment operation and maintenance, image production and evaluation, radiographic procedures and patient care.
2. Utilize effective communication methods with the patient, the patient’s family, colleagues, and other health care professionals.
3. Practice as an entry-level radiographer, including areas of radiation protection, equipment operation and maintenance, image production and evaluation, radiographic procedures, and patient care for patients in all stages of life span.
4. Employ critical thinking and problem solving skills as a radiologic sciences practitioner.

### Assessment Procedures

Survey of graduates  
Survey of employers  
Monitoring of licensure examinations

## Admission Criteria

### 1. Academic Requirements:

A. ACT scores on file

B. Completion of the following 31 to 32 credit hours of required pre-radiologic sciences courses:

ENG 100—Writing I .....	3
MATH 152—College Algebra .....	3
PSY 154—Introduction to Psychology .....	3
MSU 101—Discovering University Life (if required) .....	1
NAHS 202—Medical Terminology .....	2
CMSP 108—Fundamentals of Speech Communication .....	3
BIOL 231—Human Anatomy .....	3
BIOL 232—Human Physiology .....	3
Physical science elective: (SCI 103, PHYS 201, or CHEM 101) .....	3-4
CIS 101—Computers for Learning .....	3
*RSCI 110—Intro. to Radiologic Sciences .....	1
General education area studies or equivalent .....	3
<b>Total .....</b>	<b>31-32</b>

*\*Consideration may be granted for this course to be completed during the first semester after admission.*

C. Minimum grade of “C” in each of the preceding 31 to 32 credit hours of pre-radiologic sciences courses.

D. A GPA of 2.5 or above (with no rounding) in the required 30 to 31 pre-radiologic sciences courses (MSU 101 is not calculated in the GPA). Upon admission, the student must maintain a minimum GPA of 2.0.

E. More than two failures of pre-radiologic sciences 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 failure(s).

F. Applicants who are currently enrolled but have not yet completed the required 30 to 31 semester hours of the pre-radiologic sciences courses are eligible for conditional acceptance based on Spring midterm grades. Final acceptance will be dependent on maintaining course grades and GPA as shown.

2. Possess current certification in Basic Life Sup-

port for Health Care Providers (CPR) by the American Heart Association.

\*3. Health and Physical Capability Requirements: (Also may be required for retention at the discretion of the faculty.)

A. Physical Capabilities:

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.

B. Health Requirements. Mental Health: possess the ability to adapt to the environment, function in everyday activities, and cope with stressors.

C. Freedom from transmittable disease as documented by:

1. Negative PPD and/or chest x-ray within immediate past 12 months.

2. Rubella and rubeola antibody test (titer values that indicate immunity) documentation of MMR (Rubella and Rubeola and Mumps) vaccine.

3. Hepatitis B Vaccine series.

4. Varicella zoster live-virus vaccine or reliable history of varicella (chicken pox) or serologic evidence of immunity.

5. 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.

*\*Verification of meeting the health and physical capabil-*

*ity requirements must be documented after a thorough physical examination by a licensed physician(s), nurse practitioner, or physician assistant on a health form provided by the Department of Nursing & Allied Health Sciences.*

**Application Procedure:**

1. Be unconditionally admitted to MSU.

2. Declare radiologic sciences as an area of concentration.

A. Meet with assigned radiologic sciences faculty advisor.

B. Complete the required pre-radiologic sciences courses.

3. Submit a complete application packet by the first Monday in April with the following required materials:

A. Complete Radiography Application.

B. Copy of transcripts from MSU and other universities/colleges attended.

C. Copy of the University/college catalog (s) if transfer credit is sought.

D. Validation of the American College Test (ACT) scores.

\*E. Verification of health and physical capabilities.

\*F. Validation of current certification by the American Heart Association in Basic Life Support for Health Care Providers (CPR).

*\*Items E and F are required after the applicant has received notification of conditional acceptance into the program based on academic requirements.*

**Requirements for the Completion of an Associate of Applied Sciences Degree in Radiologic Technology**

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 Program are in addition to those required by the University. 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.

**Curriculum Sequence**

All RSCI courses must be taken in sequence as listed. The following additional 19 credit hours of general education area studies courses must be taken if a student wishes to complete the Bachelor of Science Degree in Radiologic Sciences at MSU. The courses can be taken in conjunction with the courses listed in the curriculum sequence. A suggested core curriculum sequence appears in the B.S. in Radiologic Sciences section.

**Area Studies**

Humanities two additional courses .....	6
Natural and Mathematical Sciences one additional course .....	3
Social and Behavioral Sciences two additional courses .....	6
Practical Living course .....	3
<b>Total .....</b>	<b>19</b>

**Pre-Radiologic Sciences Courses**

**Fall Semester**

BIOL 231—Human Anatomy .....	3
ENG 100—Writing I .....	3
MATH 152—College Algebra .....	3
MSU 101—Discovering University Life .....	1
NAHS 202—Medical Terminology .....	2
PSY 154—Introduction to Psychology .....	3
<b>Total .....</b>	<b>15</b>

**Spring Semester**

BIOL 232—Human Physiology .....	3
CIS 101—Computers for Learning .....	3
CMSP 108—Fundamentals of Speech Communication .....	3
Physical Science Elective (SCI 103, Physics, or Chemistry) .....	3-4
RSCI 110—Introduction to Radiologic Sciences .....	1
*Elective Humanities or any Area Studies course .....	3

**Total .....** **16-17**

*\*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.*

**Radiologic Sciences Program Courses**

*(Must be officially admitted to Program)*

**Fall Semester**

ENG 200—Writing II .....	3
RSCI 200—Patient Care .....	3
RSCI 206—Radiographic Anatomy, Positioning and Imaging Production I .....	5
RSCI 210—Radiographic Equipment and Imaging I .....	3
<b>Total .....</b>	<b>14</b>

**Spring Semester**

RSCI 230—Radiography Clinical Internship I ...	10
RSCI 330—Imaging Pathology .....	2
<b>Total .....</b>	<b>12</b>

**Summer I or Summer II**

RSCI 310—Radiographic Anatomy, Positioning, and Image Production II .....	4
<b>Total .....</b>	<b>4</b>

**Second Year**

**Fall Semester**

RSCI 300—Film Critique and Evaluation .....	2
RSCI 320—Clinical Internship II .....	10
<b>Total .....</b>	<b>12</b>

**Spring Semester**

*Application into the Advanced Imaging Options due by first 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
*Elective Humanities Area Studies Course .....	3
<b>Total .....</b>	<b>10</b>

*\*Required only if a Humanities Area Studies course was not taken prior to admission into the program.*

**Summer I**

RSCI 350—Seminar in Radiography .....	2
<b>Total .....</b>	<b>2</b>

**Total for the AAS Degree in**

**Radiologic Technology .....** **81-85**

## Bachelor of Science Degree in Radiologic Sciences

The Bachelor of Science Degree in Radiologic Sciences is a four-year program of study with options in Computed Tomography and Sonography. The Program has a selective admission policy, which is separate, and in addition to, the University's admission procedure. Upon completion of the Program and the American Registry of Radiologic Technologists (ARRT) clinical requirements, the Computed Tomography graduate may be eligible to sit for the ARRT National Certification Examination in Computed Tomography. The Sonography graduate may be eligible to sit for the American Registry of Diagnostic Medical Sonography (ARDMS) National Certification Examinations after completing clinical hours required by the certifying agency.

### Admission Criteria

1. Be unconditionally admitted to MSU.
2. Completion of the following courses with a minimum grade of "C" (some courses can be transferred from other institutions):

CIS 101—Computers for Learning .....	3
CMSP 108—Fundamentals of Speech Communication .....	3
BIOL 231—Human Anatomy .....	3
BIOL 232—Human Physiology .....	3
ENG 100—Writing I .....	3
ENG 200—Writing II .....	3
MATH 152—College Algebra .....	3
PSY 154—Introduction to Psychology .....	3
NAHS 202—Medical Terminology .....	2
Social and Behavioral Sciences electives .....	6
Humanities electives .....	9
Natural and Mathematical Science electives .....	6
Practical Living elective .....	3

**Total General Education &  
Support Courses ..... 50**

3. A GPA of 2.5 or higher for all required college work.
4. Graduate of the Associate of Applied Sciences Degree in Radiologic Technology 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 a 50-hour block credit to satisfy the

radiography component.

5. 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 end of the Fall Semester to progress in the program.
6. Health and Physical Capability Requirements (also may be required for retention at the discretion of the faculty):
  - A. Physical Capabilities:
    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.
  - B. Health Requirements
    1. Mental Health: possess the ability to adapt to the environment, function in everyday activities, and cope with stressors.
    2. 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.
- 7. Possess current certification in Basic Life Support for Health Care Providers (CPR) by the American Heart Association.

*\*Verification of meeting the health and physical capability requirements must be documented after a thorough physical examination by a licensed physician(s), nurse practitioner, or physician assistant on a health form provided by the Department of Nursing and Allied Health Sciences.*

**Application Procedure**

1. Be unconditionally admitted to MSU.
2. Declare Radiologic Sciences as your area of concentration.
3. Meet with your assigned Radiologic Sciences faculty advisor.
4. Complete the required general education courses if necessary.
5. Submit a completed application packet by the first Monday in April with the following materials:
  - A. Baccalaureate Radiologic Sciences Program Application designating Computed Tomography or Sonography.
  - B. Copy of transcripts from MSU and other universities/colleges attended. Students currently enrolled are required to submit Spring midterm grades for consideration. Students attending institutions that do not provide midterm 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. Student GPA must be maintained throughout the semester for final acceptance into the program.
  - C. Copy of the university/college catalog(s) if transfer credit is sought.
  - D. Copy of the current American Registry of Radiologic Technologists registration card for radiography (must be submitted immediately upon receipt. Student may not progress to the Spring Semester of the fourth year until proof of certification is submitted).
  - E. Copy of the current American Registry of Radio-

- logic Technologists (Computed Tomography) registration card (if applicable).
- F. Copy of the current American Registry of Diagnostic Medical Sonographers (ARDMS) registration card (if applicable).

**Requirements for Completion of a Bachelor of Science Degree in Radiologic Sciences**

1. Complete a minimum of 131 to 133 credit hours for the Computed Tomography option or 134 to 136 credit hours for the Sonography option of which a minimum of 43 credit hours must be numbered 300 or above. The total credit hours include general education, support, radiography, and Computed Tomography or Sonography courses.
2. Earn a minimum cumulative GPA of 2.0 on all work completed at the University.
3. 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 Program are in addition to those required by MSU. These are subject to change without 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 (if applicable), and all housing and transportation expenses incurred during clinical internship assignments.

**Suggested Core Curriculum Sequence for Bachelor of Science Degree in Radiologic Sciences**

**First Year**

**Fall Semester**

BIOL 231—Human Anatomy .....	3
ENG 100—Writing I .....	3
MATH 152—College Algebra .....	3
MSU 101—Discovering University Life .....	1
NAHS 202—Medical Terminology .....	2
PSY 154—Introduction to Psychology .....	3
<b>Total .....</b>	<b>15</b>

**Spring Semester**

BIOL 232—Human Physiology .....	3
CIS 101—Computers for Learning .....	3
CMSP 108—Fundamentals of Speech Communication .....	3
Physical Science (Elective SCI 103, Physics or Chemistry) ....	3-4

RSCI 110—Introduction to Radiologic Sciences .....	1
*Elective Humanities or any other area of studies course .....	3
<b>Total .....</b>	<b>16-17</b>

**Second Year**

**Fall Semester**

RSCI 200—Patient Care .....	3
RSCI 206—Radiographic Anatomy, Positioning and Imaging Production I .....	5
RSCI 210—Radiographic Equipment and Imaging I .....	3
*Elective Humanities Area Studies .....	3
*Elective Social and Behavioral Sciences Area Studies .....	3
<b>Total .....</b>	<b>17</b>

**Spring Semester**

RSCI 230—Radiography Clinical Internship I ...	10
RSCI 330—Imaging Pathology .....	2
<b>Total .....</b>	<b>12</b>

**Summer I or Summer II**

RSCI 310—Radiographic Anatomy, Positioning, and Image Production II .....	4
<b>Total .....</b>	<b>4</b>

**Summer II**

ENG 200—Writing II .....	3
*Elective Social and Behavioral Sciences or Humanities Area Studies .....	3
<b>Total .....</b>	<b>6</b>

**Third Year**

**Fall Semester**

RSCI 300—Film Critique and Evaluation .....	2
RSCI 320—Clinical Internship II .....	10
<b>Total .....</b>	<b>12</b>

**Spring Semester**

*Application to the Advanced Imaging Tracks due by first 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
*Elective Math and Natural Science Area Studies .....	3-4
*Elective Humanities and/or Practical Living Area Studies .....	6
<b>Total .....</b>	<b>16-17</b>

**Summer I**

RSCI 350—Seminar in Radiography .....	2
<b>Total .....</b>	<b>2</b>

**Total for AAS in Radiologic Technology .... 81-85**

*\*Courses that can be taken any time prior to admission into the fourth year of the curriculum.*

**Option 1: Computed Tomography**

At the time of catalog revisions, program faculty are considering curriculum changes for Computed Tomography. Please see the Radiologic Sciences Program’s Web site for any changes.

**Program Competencies**

**Bachelor of Science in Radiologic Sciences, Computed Tomography option students will be able to:**

1. Synthesize principles from mathematics, natural sciences, behavior sciences, and humanities to serve as a foundation for Computed Tomography practice.
2. Demonstrate an understanding of human cross-sectional anatomy, physiology, pathology, pharmacology, and medical terminology.
3. Integrate historical, legal, and ethical components of Computed Tomography concepts into the clinical practice.
4. Integrate scientific knowledge and technical skills with effective patient interaction to provide quality care and useful diagnostic information.
5. Demonstrate a sensitivity to the physical and emotional needs of the patient through good communication, patient assessment and documentation, patient monitoring and patient care skills.
6. Employs professional and ethical judgement and critical thinking in the practice of computed tomography.
7. Promotes professional development in continuing education to enhance one’s practice in Computed Tomography.



**Required Computed Tomography Option Curriculum Sequence Fourth Year**

**Fall Semester**

RSCI 403—Computed Tomographic Physics and Instrumentation .....	3
RSCI 413—Advanced Patient Care .....	3
RSCI 427—Pathology Correlation in Computed Tomography .....	2
RSCI 437—Computed Tomographic Sectional Anatomy .....	3
RSCI 443—Computed Tomography Imaging Procedures .....	3
<b>Total .....</b>	<b>14</b>

*Students may not progress into the Spring Semester unless they have passed the ARRT examination in Radiography.*

**Spring Semester**

RSCI 467—Computed Tomography Practicum I .....	10
RSCI 499C—Senior Seminar in Radiologic Sciences .....	3
<b>Total .....</b>	<b>13</b>

**Summer I**

RSCI 477—Computed Tomography Practicum II .....	3
RSCI 483—Seminar in Computed Tomography .....	2
<b>Total .....</b>	<b>5</b>

**Total Core Requirement ..... 98-100**

**Total Computed Tomography Option ..... 32**

**Total Bachelor of Science in Radiologic Sciences, CT Option ..... 131-133**

**Option 2: Sonography Program Competencies**

**Bachelor of Science in Radiologic Sciences Sonography option students will be able to:**

1. Synthesize principles from mathematics, natural sciences, behavioral sciences, and humanities to serve as a foundation for sonographic practice.
2. Integrate historical, legal, and ethical components of Sonography concepts into the clinical practice.
3. Utilize effective communication methods with the patient, patient’s family, colleagues, and other health care professionals.
4. Obtain and document pertinent patient history us-

ing appropriate medical terminology.

5. Practice as an entry-level sonographer by evaluating and recording quality sonographic images for presentation to the interpreting physician.
6. Employs professional and ethical judgement and critical thinking in the practice of sonography.
7. Promotes professional development in continuing education to enhance one’s practice in Sonography.

**Required Sonography Curriculum Sequence Fourth Year**

**Summer II**

RSCI 400—Introduction to Sonography .....	2
RSCI 408—Sonographic Sectional Anatomy .....	2
<b>Total .....</b>	<b>4</b>

**Fall Semester**

RSCI 410—Abdominal Sonography .....	3
RSCI 418—Genitourinary Sonography .....	3
RSCI 420—Sonographic Physics and Instrumentation .....	2
RSCI 430—Sonography Internship I .....	4
<b>Total .....</b>	<b>12</b>

*Students may not progress into the Spring Semester unless they have passed the ARRT examination in Radiography.*

**Spring Semester**

RSCI 428—Obstetrical Sonography .....	3
RSCI 450—Sonography Internship II .....	4
RSCI 458—Vascular Sonography .....	4
RSCI 499C—Senior Seminar in Radiologic Sciences .....	3
<b>Total .....</b>	<b>14</b>

**Summer I**

RSCI 470—Sonography Internship III .....	4
<b>Total .....</b>	<b>4</b>

**Summer II**

RSCI 480—Seminar in Sonography .....	2
<b>Total .....</b>	<b>2</b>

**Total Core Requirement ..... 98-100**

**Total Sonography Option ..... 36**

**Total Bachelor of Science in Radiologic Sciences, Sonography Option ..... 134-136**

## **Associate Applied Sciences**

### **in Respiratory Care**

225 Reed Hall  
(606) 783-2772

#### **Faculty**

M. Vice, J. Callihan

#### **Clinical Faculty**

Judean Love, A.A.S.

Richard Broadus, A.A.S.

#### **Student Services Officer**

S. Harr

### **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, Rowan Technical College and Ashland Community 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 campus of Rowan 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 in 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.
  - A. Meet with assigned Respiratory Care faculty advisor.
  - B. Enroll in required pre-respiratory care courses as outlined in the respiratory care curriculum sequence.
3. Submit a completed application packet to the Associate of Applied Science in Respiratory Care Program. The application packet includes:
  - A. Application for admission to MSU.
  - B. ACT scores or equivalent.
  - C. Respiratory Care application.
  - D. Documentation of observation hours in a respiratory care facility.
  - E. Official transcripts of all post-secondary course work.
  - F. Official high school transcript or GED certificate.
  - G. Documentation of attendance at a Respiratory Care pre-admission conference or meeting with a respiratory care program coordinator.
  - H. University/undergraduate catalog(s) if transfer credit is sought.
  - I. Course syllabi for all respiratory care courses completed if transfer credit is sought.
  - J. Verification of health and physical capabilities by

completing health form provided by NAHS.

- K. Prior to admission into the Respiratory Care Program, students are required to complete BIOL 231 MATH 135, CIS 101, MSU 101, and ENG 100.
- 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 Nov. 15 preceding Spring admission:

Student Services Officer  
 AAS in Respiratory Care Program  
 UPO 715, Reed Hall 225  
 Department of Nursing & Allied Health Sciences  
 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—Human Anatomy and MATH—135 Math for Technical Students.
- 4. Health and physical capability requirements are documented by the completion of the Department of Nursing and Allied Health Sciences Applicant Health Form by a licensed physician(s), a physician assistant or a nurse practitioner upon completion of a thorough physical examination.

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.

**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 and Allied Health Sciences.

**First Semester (Fall)**

BIOL 231—Human Anatomy .....	3
CIS 101—Computers for Learning .....	3
ENG 100—Writing I .....	3
MATH 135—Math. for Technical Students .....	3
MSU 101—Discovering University Life .....	1
<b>Total .....</b>	<b>13</b>

**Second Semester (Spring)**

BIOL 232—Human Physiology .....	3
*RCP 110—Cardiopulmonary Anatomy & Physiology .....	3
*RCP 120—Theory & Principles of Respiratory Care .....	4
*RCP 130—Pharmacology .....	3
*RCP 150—Clinical Practice I .....	2
<b>Total .....</b>	<b>15</b>

**Third Semester (Summer)**

BIOL 217—Elementary Medical Microbiology .	4
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**Fourth Semester (Fall)**

PSY 154, 156, or SOC 101 .....	3
*RCP 125—Cardiopulmonary Evaluation .....	4
*RCP 180—Ventilatory Support .....	3
*RCP 228—Preventive & Long-Term Respiratory Care .....	1
*RCP 175—Clinical Practice II .....	3
<b>Total .....</b>	<b>14</b>

**Fifth Semester (Spring)**

ENG 200—Writing II .....	3
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*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
<b>Total .....</b>	<b>13</b>

**Sixth Semester (Summer)**

*Humanities elective .....	3
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**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
<b>Total .....</b>	<b>14</b>

*\*Courses offered at Rowan Technical College.*

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.

**Department of Physical Sciences**

Antonino Carnevali, Chair  
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 123Lapp Hall  
 (606)783-2917

**Chemistry**

**Faculty**

Z. Barnes, M. Blankenbuehler, H. Cain,  
 H. Hedgecock, R. Hunt, 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.

**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.....	4
CHEM 326—Organic Chemistry I .....	4
CHEM 327—Organic Chemistry II .....	4
CHEM 340—Chemical Information.....	2
CHEM 351—Inorganic Chemistry .....	3
CHEM 360—Analytical Chemistry I .....	4
CHEM 441—Physical Chemistry I .....	3
CHEM 442—Physical Chemistry II .....	5
CHEM 451—Advanced Inorganic Chemistry ....	3
CHEM 460—Analytical Chemistry II .....	5
PHYS 231—Engineering Physics I .....	4
SCI 498—Senior Thesis I .....	2
SCI 499C—Senior Thesis II .....	1
<b>Total .....</b>	<b>48</b>

**Supplemental Requirements**

BIOL 171—Principles of Biology .....	4
MATH 175—Analytic Geometry and Calculus I .....	4
MATH 275—Analytic Geometry and Calculus II .....	4
MATH 276—Analytic Geometry and Calculus III, or MATH 363—Differential Equations, or MATH 365—Introduction to Mathematical Statistics .....	3
PHYS 231A—Engineering Physics I Lab .....	1
PHYS 232—Engineering Physics II .....	4
PHYS 232A—Engineering Physics II Lab .....	1
<b>Total .....</b>	<b>21</b>

*For students who plan to enter an industrial position directly on graduation, cooperative study is recommended.*

**\*Major**

This program has two 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.

**Core**

CHEM 111—Principles of Chemistry I .....	4
CHEM 112—Principles of Chemistry II.....	4

CHEM 326—Organic Chemistry I .....	4
CHEM 351—Inorganic Chemistry .....	3
CHEM 360—Analytical Chemistry I .....	4
CHEM 441—Physical Chemistry I .....	3
SCI 498—Senior Thesis I .....	2
SCI 499C—Senior Thesis II .....	1
<b>Total .....</b>	<b>25</b>

**Supplemental Requirements**

BIOL 171—Principles of Biology .....	4
MATH 175—Analytic Geometry and Calculus I .....	4
PHYS 201—Elementary Physics I and PHYS 201A—Elementary Physics I Lab (or equivalent) .....	4
PHYS 202—Elementary Physics II and PHYS 202A—Elementary Physics II Lab (or equivalent) .....	4
<b>Total .....</b>	<b>16</b>

**General Option**

CHEM—Electives above 300 or BIOL 590 as approved by chemistry advisor .....	8
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**Environmental Chemistry Option**

BIOL 461—Ecology .....	3
CHEM 332—Environmental Chemistry II .....	3
<i>One elective approved by chemistry advisor from:</i>	
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—Introduction to Hydrogeology .....	3
<b>Total .....</b>	<b>9-10</b>

A minor in Environmental Science is strongly recommended with this option because it also includes the perquisites 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.

**\*Minor**

CHEM 111—Principles of Chemistry I .....	4
CHEM 112—Principles of Chemistry II.....	4
CHEM 326—Organic Chemistry I .....	4
CHEM 360—Analytical Chemistry I .....	4
CHEM—Electives numbered 302 or higher and approved by chemistry advisor .....	5
<b>Total .....</b>	<b>21</b>

\*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.

## **PrePharmacy**

**Advisor**

R. Hunt

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.

## **PreMedicine**

**Advisor**

H. Cain

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 premedical 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 graduate school, strengths of MSU's geology program, and weaknesses 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 sub-disciplines within geology. This program is strongly recommended for students who wish to attend graduate school.

BIOL 155—Introduction to Environmental Science .....	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 276—Geologic Methods .....	3
GEOS 300—Petrology .....	4
GEOS 315—Sedimentation and Stratigraphy ....	4
GEOS 325—Structural Geology .....	4
GEOS 350—Geomorphology .....	3
GEOS 376—Environmental Geology .....	3
GEOS 379—Invertebrate Paleontology .....	4
GEOS 420—Optical Mineralogy .....	3
GEOS 425—Hydrogeology .....	3
GEOS 430—Low-Temperature Geochemistry ...	3
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 I**

PHYS 201—Elementary Physics I .....	3
PHYS 201A—Elementary Physics I Lab .....	1
PHYS 202—Elementary Physics II .....	3
PHYS 202A—Elementary Physics II Lab .....	1

or

**Physics Sequence II**

PHYS 231—Engineering Physics I .....	4
PHYS 231A—Engineering Physics I Lab .....	1
PHYS 232—Engineering Physics II .....	4
PHYS 232A—Engineering Physics II Lab .....	1

\*Attendance at an approved summer geology field camp .....

**Total .....** 81-83

*\*Must be taken off-campus at an accredited university.*

**\*\*Major (Non-Teaching)**

The geology major provides students with the option of pursuing a minor or double major. Students will be qualified for entry level geology positions. However, with careful planning and advising, the program can be tailored to prepare students for graduate study in specialized subdisciplines such

as geophysics, geochemistry, mathematical geology, and hydrogeology. Students must take:

GEOS 108—Physical Geology .....	4
GEOS 201—Historical Geology .....	3
GEOS 262—Mineralogy .....	4
GEOS 276—Geologic Methods .....	3
GEOS 300—Petrology .....	4
GEOS 315—Sedimentation and Stratigraphy ....	4
GEOS 325—Structural Geology .....	4
GEOS 350—Geomorphology .....	3
GEOS—Upper division electives approved by advisor .....	6
SCI 498—Senior Thesis I .....	2
SCI 499C—Senior Thesis II .....	1
<b>Total .....</b>	<b>38</b>

**\*\*Supplemental Requirements**

CHEM 111—Principles of Chemistry I .....	4
CHEM 112—Principles of Chemistry II.....	4
PHYS 201—Elementary Physics I .....	3
PHYS 201A—Elementary Physics I Lab .....	1
PHYS 202—Elementary Physics II .....	3
PHYS 202A—Elementary Physics II Lab .....	1
MATH—electives from the following: .....	6-8
MATH 141—Plane Trigonometry .....	3
MATH 152—College Algebra .....	3
MATH 174—Pre-Calculus Mathematics .....	3
MATH 175—Analytic Geometry and Calculus I .....	4
MATH 275—Analytic Geometry and Calculus II .....	4
<b>Total .....</b>	<b>22-24</b>

*\*\*Students who intend to use the geology major as preparation for graduate school are strongly encouraged to take GEOS 420, MATH 175, 275, and summer geology field camp. Students lacking these courses generally are considered deficient by graduate schools.*

**Minor (Non-Teaching)**

GEOS 108—Physical Geology .....	4
GEOS 201—Historical Geology .....	3
GEOS—electives approved by advisor .....	14
<b>Total .....</b>	<b>21</b>

**Legacy Science**

**Faculty**

R. Boram, B. Malphrus, M. Wallace, J. Whitworth

**Minor (Non-Teaching)\***

SCI 103—Introduction to Physical Sciences or equivalent .....	3
BIOL 105—Introduction to Biological Sciences or equivalent.....	3
Electives approved by the advisor .....	18

**Total ..... 24**

\*The minor in integrated science, a non-teaching minor, should be evenly distributed between the biological sciences and the physical sciences.

## Physis

### 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.

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. Students interested in a career in secondary science teaching with a major in physics will find the requirements listed in the catalog under “Physical Science Teaching.”

### Supplemental Requirements for both the Major and all Options in the Area of Concentration

CHEM 111—Principles of Chemistry I ..... 4  
CHEM 112—Principles of Chemistry II..... 4  
MATH 175—Analytic Geometry and Calculus I 4  
MATH 275—Analytic Geometry and Calculus II 4

MATH 276—Analytic Geometry and Calculus III 4  
MATH 363—Differential Equations ..... 3  
SCI 110—Introduction to Scientific Computing .. 3  
**Total ..... 26**

### \*Major Requirements

PHYS 231—Engineering Physics I ..... 4  
PHYS 231A—Engineering Physics I Lab ..... 1  
PHYS 232—Electricity and Magnetism ..... 4  
PHYS 232A—Engineering Physics II Lab ..... 1  
PHYS 332—Electricity and Magnetism ..... 4  
PHYS 340—Experimental Physics ..... 3  
PHYS 353—Concepts of Modern Physics ..... 4  
PHYS 391—Dynamics ..... 3  
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 ..... 36**

### \*Area of Concentration Requirements

*Core courses for all options:*

PHYS 231—Engineering Physics I ..... 4  
PHYS 231A—Engineering Physics I Lab ..... 1  
PHYS 232—Electricity and Magnetism ..... 4  
PHYS 232A—Engineering Physics II Lab ..... 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—C/C++ Programming I ..... 3  
CIS 305—C/C++ Programming II ..... 3  
MATH 303—Data Structure ..... 3  
MATH 301—Elementary Linear Algebra, or  
MATH 312—Numerical Methods ..... 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)**

CON 303—Material Properties and Testing .....	3
IET 260—Hydraulics and Pneumatics .....	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
<b>Total .....</b>	<b>24</b>

**Option 3: Engineering Physics (Electrical)**

EET 141—Direct Current Circuits (DC) .....	3
EET 241—Alternating Current Circuits (AC), or	3
EET 242—Analog Devices and Circuits .....	3
EET 342—Electronic Devices and Circuits .....	3
EET 344—Communications Circuits .....	3
EET 345—Microprocessor Electronics .....	3
PHYS 211—Circuits .....	4
PHYS 332—Electricity and Magnetism .....	4
PHYS 361—Fundamentals of Electronics .....	3
EET, MATH or PHYS Elective 300 or 400 level approved by the advisor .....	3
<b>Total .....</b>	<b>25-26</b>

**\*Minor**

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, and .....	1
PHYS 350—Nuclear Science .....	4
PHYS—electives, approved by advisor .....	7
<b>Total .....</b>	<b>21</b>

*\*At least 50 percent of the course work in the major, area, or minor in physics must be taken in residency.*

**PreEngineering**

**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—Analytic Geometry and Calculus I	4
MATH 275—Analytic Geometry and Calculus II	4
MATH 276—Analytic Geometry and Calculus III	4
MATH 363—Differential Equations .....	3
PHYS 231—Engineering Physics I .....	4
PHYS 231A—Engineering Physics I Lab .....	1
PHYS 232—Engineering Physics II .....	4
PHYS 232A—Engineering Physics II Lab .....	1
<i>Elect two courses from the following:</i>	
MATH 260—FORTRAN Programming .....	3
PHYS 221—Statics .....	3
PHYS 411—Thermodynamics .....	3
<b>Total .....</b>	<b>48</b>

*\*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 or 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 326—Organic Chemistry I .....	4
CHEM 327—Organic Chemistry II .....	4
ENG 100—Writing I .....	3
ENG 200—Writing II .....	3
MATH 175—Analytic Geometry and Calculus I	4
MATH 353—Statistics .....	3
PHYS 201—Elementary Physics I .....	3
PHYS 201A—Elementary Physics I Lab .....	1
PHYS 202—Elementary Physics II .....	3
PHYS 202A—Elementary Physics II Lab .....	1
PSY elective .....	3
Social Science electives .....	6
<b>Total .....</b>	<b>64</b>

Acceptance into optometry school depends largely upon academic performance. Therefore the student con-

sidering 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 the Undergraduate 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.

## Physical Science Teaching (Grades 8-12)

### Advisors

Z. Barnes, S. Reid, A. Carnevali, J Whitworth

A student may become certified as a teacher of the physical sciences (chemistry, earth science, physics) for grades 8-12 by completing a Bachelor of Science Degree with the requirements listed below. In addition, the student must complete the TEP (30 hours) and such tests and activities required for admission and retention in the TEP discussed elsewhere in this catalog.

### Program Competencies

#### The student will:

1. Understand the core concepts of chemistry, geoscience, and physics.
2. Be able to plan effective courses of instruction in the physical sciences.
3. Know how to communicate effectively with students.
4. Be able to establish and organize physical science laboratories so as to illustrate the laws of science and the scientific method.
5. Have an understanding of how and where to acquire information needed for teaching.
6. Have an understanding of the National Science Teachers Association standards for high school science instruction.

### Assessment Procedures

Exit examination  
Teacher Education PRAXIS Examination  
Employer feedback  
Performance in area capstone course

**Program Requirements**

CHEM 111—Principles of Chemistry I .....	4
CHEM 112—Principles of Chemistry II.....	4
CHEM 326—Organic Chemistry I .....	4
CHEM 327—Organic Chemistry II .....	4
CHEM 351—Inorganic Chemistry .....	3
CHEM 360—Analytical Chemistry I .....	4
GEOS 108—Physical Geology .....	4
GEOS 201—Historical Geology, or GEOS 410—Geological History of Plants and Animals .....	3
GEOS 276—Geologic Methods, or .....	3
GEOS 315—Sedimentation and Stratigraphy, or	4
GEOS 379—Invertebrate Paleontology, or .....	4
GEOS 325—Structural Geology .....	4
PHYS 110—Concepts in Astronomy .....	3
PHYS 231—Engineering Physics I .....	4
PHYS 231A—Engineering Physics I Lab .....	1
PHYS 232—Engineering Physics II .....	4
PHYS 232A—Engineering Physics II Lab .....	1
SCI 497C—Senior Seminar in Physical Science Education .....	2
<i>Electives six to eight hours from:</i>	
PHYS 350—Nuclear Science .....	4
PHYS 361—Fundamentals of Electronics .....	3
<b>Total .....</b>	<b>56-59</b>

**Supplementary Requirements**

BIOL 171—Principles of Biology .....	4
MATH 175—Analytic Geometry and Calculus I	4
MATH 275—Analytic Geometry and Calculus II	4
SCI 592—Science for the Secondary Teacher ....	3
<b>Total .....</b>	<b>15</b>

**Department Psychology**

**Bruce Mattingly, Chair**

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601 Craig Hall

(606)783-2981

**Faculty**

M. Cortese, L. Couch, D. Dickson, L. Haller,  
S. Kidwell, B. Mattingly, C. Morgan,  
D. Olson, S. Reilley, 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 Arts 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—Introduction to Psychopharmacology

**Learning and Motivation ..... 3**  
 PSY 586—Motivation, or  
 PSY 589—Psychology of Learning

**Perception and Cognition ..... 3**  
 PSY 380—Cognitive Psychology, or  
 PSY 584—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—Introduction to Psychopharmacology

**Learning and Motivation ..... 3**  
 PSY 586—Motivation, or  
 PSY 589—Psychology of Learning

**Perception and Cognition ..... 3**  
 PSY 380—Cognitive Psychology, or  
 PSY 584—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

## Descriptions of Courses

NOTE: (3-0-3) following a course title means 3 hours class, no laboratory, 3 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:* permission 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. Not 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. Crosslisted with FIN 375.

**ACCT 381. Intermediate Accounting I. (3-0-3); on demand.** *Prerequisites:* ACCT 281 and 282. 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. 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. 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. 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); on demand.** *Prerequisite:* ACCT 387 and permission 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. Meets twice a week for 12 weeks. Not available for option credit.

**ACCT 390. Cost Accounting I. (3-0-3); on demand.** *Prerequisite:* ACCT 282. 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. 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. 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:* permission 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. Not available for option credit.

**ACCT 475. Controllership. (3-0-3); on demand.** *Prerequisite:* ACCT 282 or equivalent. 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 permission 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. 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. 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 486. Accounting Internship. (1 to 4 hrs.); on demand.** *Prerequisites:* completion of 18 hrs. in accounting and permission 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. 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. 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 2 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. Crosslisted 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 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. Crosslisted 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.** *Prerequisites:* AGR 212 and HS 103. 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 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 Diseases. (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 Agriculture 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 de-

velop essential skills.

**AGR 261. Information Acquisition, & 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 required core-computer competency 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.** *Prerequisite:* AGR 203. 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.** *Prerequisites:* AGR 203 and 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, CO<sub>2</sub> 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.** *Prerequisite:* 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 approval 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 approval 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 approval 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 agricultural 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.** *Prerequisite:* AGR 203. 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:* VOC 207 or consent of instructor. A comprehensive study of current curriculum content in Vocational Education. Emphasis on modifying and developing new curricula. Crosslisted with HS 388 and IET 388.

**AGR 392. Methods of Instructional Technology. (2-2-3); I, III.** *Prerequisites:* admission to the TEP, VOC 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. Crosslisted with HS 392 and IET 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. Crosslisted with HS 470 and IET 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. See HS 478 and IET 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 pro-



gram 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.

### 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 required core-computer competency 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 instructor.* 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 permission 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.

**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.

**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.

**ART 294. Sculpture I. (2-2-3); I, II.** *Prerequisite: ART 102 or consent of instructor.* 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 302. Typography. (2-2-3).** *Prerequisite: ART 109, 205, or permission 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 permission 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 instructor.* 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 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 permission 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 permission 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. Art Workshop. (3-0-3); III, on demand.** Participation in art activities according to individual needs.

**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 commercial 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.

**ART 409. Airbrush. (2-2-3); I, II.** *Prerequisites:* ART 205, 214, or permission 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 permission 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, photo-etching and color monotype. May be repeated.

**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.

**ART 461. Modern 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. Contemporary 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 373. 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 373 or permission of department. 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 instructor. Individual Art Problems will be offered for the student who wishes to explore one medium in depth.

**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. 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. 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. 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:* Permission of the department required. A studio course involving research in an art area of the student's choice.

**ART 599. Art Workshop. (3-3-3); III on demand.** Participation in art activities according to individual needs.

## 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 and 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 and 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. Crosslisted 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. Entomology. (2-2-3); II.** *Prerequisite: BIOL 210.* General structure of insects, life histories, common orders and families; insects in relation to man.

**BIOL 336. Pathophysiology. (4-0-4); II, III.** *Prerequisites: BIOL 217, 232, and CHEM 201 or equivalents.* 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, 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, 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. Crosslisted 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. Crosslisted with MATH 403 and SCI 403.

**BIOL 419. Immunology. (2-2-3); II.** *Prerequisites:* BIOL 317 and 380. May be concurrently enrolled in BIOL 380. Basic cellular and molecular mechanisms of the immune response and its regulation, including response manifestation. Modern laboratory techniques stressed.

**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, 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, 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.** *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, MATH 353, 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 a completion of a minimum of 23 hours of biology from the biology major including BIOL/CHEM 301 and BIOL 380. Major principles of evolutionary biology are illustrated by using examples from molecular, cellular, and organismal biology; history of evolutionary theory, population genetics, natural selection, speciation, and macroevolutionary patterns. 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 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); II in 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:** permission 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 or non-thesis). 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. Crosslisted with SCI 580.

**BIOL 590. Biochemistry. (4-0-4); I. 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); I. 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. Prerequisite:** keyboarding proficiency or consent of instructor. 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.

**BIS 117. Advanced Document Processing. (3-0-3); I, II. Prerequisite:** BIS 116 or equivalent, or CIS 101, or consent of instructor. This course will focus on the advanced features of word processing software to design and create business publications. Students will become familiar with desktop publishing techniques, macros, form design, and other advanced concepts.

**BIS 240. Information Resource & Knowledge Management. (3-0-3); on demand. Prerequisite:** CIS 101. Designed to provide the student with the underlying skills of data organization used to create, distribute, maintain, protect, control, store, and destroy 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. Integrated Software Solutions. (3-0-3); on demand. Prerequisite:** CIS 101. This course focuses on solving business problems using integrated software solutions. Case studies and problem activities in core business areas are used to address timely issues related to information systems. The course serves as a required integrative capstone course for the AAB in Business Information Systems and can be used as an elective for the BBA in Business Information Systems or Computer Information Systems.

**BIS 320. Web Design and Multimedia Applications. (3-0-3); I. Prerequisite:** CIS 101. This course introduces the student to Internet and Web design concepts using Web editors and multimedia application tools. The course also provides an introduction to the hypertext markup language (HTML). Emphasis will be placed upon the planning, design, implementation, and evaluation of Websites as an informational and communication medium.

**BIS 321. Business Communications. (3-0-3); I, II. Prerequisites:** ENG 200 and keyboarding competency. Current principles in communications that stress human relations, ethics, demographic diversity, and global communications.

**BIS 345. Knowledge Management. (3-0-3); on demand. Application & implementation of knowledge management principles as they pertain to the emerging needs of contemporary organizations. Special emphasis on using information technologies & systems to create, store, and distribute explicit & tacit knowledge.**

**BIS 350. Computer Systems Support. (3-0-3); I, II. Prerequisite:** CIS 311. This course introduces advanced concepts and terminology related to the operation and support of state-of-the-art computer systems hardware and software. It provides hands-on practice with the installation, configuration, troubleshooting, and lifecycle support of computer equipment. Other topics include an introduction to contracting, staffing, outsourcing, help-desk administration, and computerized customer support.

**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 420. Collaborative Technologies. (3-0-3); on demand. Prerequisites:** CIS 311 and senior standing. This course is designed to

provide the senior-level business student with an introduction to group support systems (GSS), electronic meeting management, and other collaborative technologies and groupware applications. Students will be introduced to concepts fundamental to an understanding of groupware tools and various collaborative technologies for enhancing group processes and computer mediated communication in the business environment. The course addresses a wide range of topics on group decision support systems, including implementation, design, electronic facilitation, and enabling technology in business process re-engineering.

**BIS 421. Business and Technical Presentations. (3-0-3); I, II.** *Prerequisites:* Admission to the College of Business upper division core program; senior standing; and 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 analyses, 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.** *Prerequisite:* BIS 421. *Recommended prerequisite:* 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. Crosslisted with MNGT 425.

**BIS 440. End-User Information Systems. (3-0-3); II.** *Prerequisites:* CIS 211, 311, and junior/senior standing. This course emphasizes critical issues, analysis, and problem solving by today's end-user professional. 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 using the case approach.

**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 499C. Teaching Methods in Business and Information Technology Education. (3-0-3); I.** *Prerequisites:* senior standing and admission to TEP. Application and integration of teaching and learning approaches to create objectives, lesson plans, skill building techniques; use of methods, materials, technology, teaching aides, testing, measurement, and grading for the preparation and certification of Business and Marketing Education teachers in grades 5-12. 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 mathematics course) 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 111. Principles of Chemistry I. (3-2-4); I, II.** *Prerequisite:* MATH 093 with a grade of "B" or better or enhanced ACT mathematics 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 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:* department approval is required. 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. Crosslisted 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 hours); I, II, III.** *Prerequisite:* department approval is required. 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. Inorganic Chemistry. (2-2-3); II. Prerequisite:** grade of "C" or better in CHEM 112. Descriptive inorganic chemistry, main group elements. Structure of inorganic compounds. Oxidation-reduction chemistry, acid-base theories, and relationship of thermodynamics to structure and reactivity of inorganic compounds.

**CHEM 360. Analytical Chemistry I. (2-5-4); I, II. Prerequisite:** grade of "C" or better in CHEM 112 or 326 recommended. Content to include errors and small sample statistics, complicated stoichiometry, analytical applications of equilibrium calculations, electrochemical potentials, spectrophotometry and atomic spectroscopy, and chromatography. Laboratory work includes gravimetric, volumetric, potentiometric, spectrophotometric and atomic spectroscopic, and gas and liquid chromatographic determinations.

**CHEM 399. Selected Topics. (1 to 6 hrs.); on demand.**

**CHEM 439. Cooperative Education. (1 to 8 hrs.); I, II, III. Prerequisite:** department approval is required. Participation in supervised work experience in a professional environment.

**CHEM 441. Physical Chemistry I. (3-0-3); I. Prerequisites:** PHYS 201 or 231, CHEM 326, and MATH 175 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.**

### 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 required core computer competency 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. Introductory Programming with Visual Basic. (3-0-3); I, II. Prerequisite:** CIS 200 or MATH 170. This is a beginning programming course that utilizes an interactive windows-based ap-

plication environment. Students design interactive screen forms using graphical elements, such as buttons, text boxes and selection lists, and then write the computer code that makes them respond to user input, process, and display the data. Students complete a progressive series of business application exercises.

**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. C/C++ Programming I. (3-0-3); I, II. Prerequisite:** CIS 200 or MATH 170. This course builds a strong foundation in programming concepts with hands-on programming applications in C and C++. It uses a steady progression of hands-on programming exercises to teach analytical and quantitative problem solving, methodical program development, and modular design. First course in two-part programming C++ sequence with CIS 305.

**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 215. Structured Programming COBOL I. (3-0-3); on demand. Prerequisite:** CIS 200. Practical business applications programming using COBOL language. Terminal input and printer output used.

**CIS 303. Data Structures. (3-0-3); on demand. Prerequisites:** CIS 200 or MATH 170 and 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. Crosslisted with CS 303 and MATH 303.

**CIS 305. C/C++ Programming II. (3-0-3); I, II. Prerequisite:** CIS 205. 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. Java Programming. (3-0-3); on demand. Prerequisite:** CIS 305, or both CIS 205 and 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. Structured Programming COBOL II. (3-0-3); on demand. Prerequisite:** CIS 215. 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. (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 350. Computer Systems Support. (3-0-3); I, II.** *Prerequisite: CIS 311.* This course introduces advanced concepts and terminology related to the operation and support of state-of-the-art computer systems hardware and software. It provides hands-on practice with the installation, configuration, troubleshooting, and life-cycle support of computer equipment. Other topics include an introduction to contracting, staffing, outsourcing, help-desk administration, and computerized customer support.

**CIS 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** *Prerequisites: junior standing and consent of instructor prior to enrollment in course.* Workshops on selected information systems subjects are presented periodically to supplement the basic course offerings in the department. Credit toward Computer Information Systems or Business Information Systems 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 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.** *Prerequisites: CIS 325 or CS 380; and either CIS 205 or 215.* 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.** *Prerequisites: CIS 202, 205, 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. (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 Computer Information Systems option elective.

**CIS 440. Telecommunications and Networking. (3-0-3); I, II.** *Prerequisite: CIS 200 or 311 or MATH 170.* This course introduces

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 topics.

**CIS 442. Network Administration. (3-0-3); I, II.** *Prerequisite: CIS 440 or concurrent enrollment in CIS 440 and consent of instructor.* This course provides a foundation in the concepts and terminology 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); I, 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: CIS 200 or MATH 170 and consent of instructor.* This course is for independent study of Computer Information Systems 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 Computer Information Systems, 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 required core-computer competency for general education.

**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 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 385. Public Relations 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 482. Public Relations Campaigns. (3-0-3); II.** *Prerequisite:* CMAP 382. Specific practices in carrying out campaigns in public relations.

**CMAP 483. Advertising Design. (3-0-3); II.** *Prerequisite:* CMAP 383. Study and application of methods of designing and producing advertisements. Primarily in print media, but includes television story boards.

**CMAP 484. Advertising Copy Writing. (3-0-3); I.** *Prerequisite:* CMAP 366, 383, or consent of instructor. Writing advertising headlines and copy for mass media.

**CMAP 499C. Senior Seminar. (3-0-3); II.** *Prerequisite:* senior standing. 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 584. Psychology of Advertising. (3-0-3); I.** *Prerequisite:* senior standing. Psychological strategy used in art, words, and graphics as persuasive advertising devices.

### 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 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 Radio-TV, print. Practice in application of production elements within 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 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 techniques used in creating advertising and continuity for the electronic media.

**CMEM 344. News and Public Affairs for the Electronic Media. (3-0-3); I.** Theory and practice of preparing, writing and presenting news and public affairs programming as applied to the elec-

tronic media.

**CMEM 350. Audio Production and Direction. (2-2-3); I, II.** *Prerequisites:* CMEM 101 and 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); I.** 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 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 and CMEM 101. 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 420. Feature and Documentary Writing for the Electronic Media. (3-0-3); I.** *Prerequisite:* CMEM 340. 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 435. Interviewing for the Electronic Media. (3-0-3); on demand.** *Prerequisite:* CMEM 341 or CMJN 201, or consent of instructor. Philosophy and techniques utilized in interviewing for media. Theory practically applied by conducting taped interviews in radio and television studios.

**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 Newsgathering. (3-0-3); II.** *Prerequisites:* CMEM 340 and 344. 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 newsgathering techniques.

**CMEM 445. Electronic Field Production. (3-0-3); on demand.** *Prerequisite:* CMEM 440 or consent of instructor. Theory and practice in the production of commercial and feature productions outside the studio using a single-camera technique. Includes post-production electronic editing and production 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 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. Problems in Contemporary Broadcasting. (3-0-3); on demand.** *Prerequisite:* senior standing. An examination of current problems within the electronic media industry.

**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.

**CMEM 562. Media Criticism. (3-0-3); on demand.** *Prerequisite:* senior standing. Examination of broadcasting in sociological, aesthetic, historical, psychological, and humanistic terms.

**CMEM 580. New Technology Policy and the Communication Industry. (3-0-3); on demand.** *Prerequisite:* senior standing. Examines both broadcast media, cable, common carriers, the source of policy and influence which guide them and public interest issues affected by communications media policy.

**CMEM 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.

#### Communication (Journalism)

**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.** *Prerequisites:* CMAP 166 and CMJN 201. Copy correcting, proofreading, headline writing, news selection, page layout.

**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.** *Prerequisites:* CMAP 166 and CMJN 201. Study and application of information-gathering sources, methods, and technology utilized in news reporting. Includes government documents and records searches; electronic newsgathering techniques utilizing commercial, government and special interest databases, CD roms and the Internet; database, mapping and spreadsheet development, management and analysis accomplished using various software programs; interviewing techniques.

**CMJN 301. Advanced News Writing and Reporting II. (3-0-3); II.** *Prerequisites:* CMJN 201 and 300. Instruction in advanced, in-depth writing and reporting for the news media. Includes coverage of events, issues, and government and instructional bodies, computer assisted reporting, legal and ethical aspects of news reporting.

**CMJN 310. History of Journalism. (3-0-3); on demand.** *Prerequisite:* COMM 110. Origins and development of American journalism as a profession, mainly through newspapers and their roles in history.

**CMJN 358. Sports Writing. (3-0-3); on demand.** *Prerequisite:* CMJN 201. Philosophy and techniques in writing sports and sports analysis or commentary for print media.

**CMJN 364. Feature Writing. (3-0-3); II.** *Prerequisites:* CMAP 166 and CMJN 201. Researching, organizing, writing and marketing of non-fiction articles.

**CMJN 386. Photo Essay and Editing. (3-0-3); on demand.** *Prerequisite:* CMJN 285. Photographic composition, selection and production of pictures for various publications.

**CMJN 387. Advanced Photojournalism. (3-0-3); on demand.** *Prerequisite:* CMJN 285. In-depth study of photojournalism equipment, techniques, style, including color photography. Camera rental fee for students without suitable camera.

**CMJN 465. Editorial Writing. (3-0-3); on demand.** *Prerequisites:* CMAP 166 and CMJN 201. Purposes and methods of editorial writing, including ethics, and values.

**CMJN 492. Law and Ethics of the Press. (3-0-3); I, II.** This course covers fundamental First Amendment concepts, categorical and non-categorical principles, and a survey of media law developed from Supreme Court case chains necessary for journalists working in both print and electronic media.

**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.

**CMJN 565. Public Opinion and News Media. (3-0-3); I.** *Prerequisite:* senior standing. Cultural, social and psychological nature of public opinion and its influence on 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 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 300. Oral Communications. (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 318. Nonverbal Communication. (3-0-3); II, on demand.** Components of nonverbal communication.

**CMSP 320. Introduction to Corrective Speech. (3-0-3); on demand.** Speech correction for the classroom teacher. Crosslisted with EDSP 320.

**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. Crosslisted 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 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 Practicum. (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 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 Speech. (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 510. Advanced Public Speaking. (3-0-3); on demand.** The study, preparation, and delivery of complex speeches.

**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 instructor. The study of rhetorical theory from 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.

**CMSP 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.

**CMSP 570. Parliamentary Procedure. (3-0-3); on demand.** Study of procedural rules used in meetings.

**CMSP 583. Advanced Small Group Communication. (3-0-3); on demand.** *Prerequisite:* CMSP 383 or consent of instructor. Study of current theory and concepts pertaining to the discussion process.

#### 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. 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, 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:* prior application necessary. 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:* prior application necessary. 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:* by prior arrangement with instructor only. Research on an original project with appropriate written report within a subject area.

**COMM 539. Cooperative Education. (1 to 4 hrs.); I, II, III.**

*Prerequisite: prior application and approval required.* See the general section of the catalog for a more complete description of this cooperative study course.

### Construction Technology

**CON 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.

**CON 202. Structural Design. (2-2-3); I.** Review of typical structural design methods with applied calculation using free body diagrams and other static load methods.

**CON 203. Construction Methods and Equipment. (2-2-3); I.** An investigation of various construction and building techniques, including traditional and modified methods. Laboratory will include model and prototype development.

**CON 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.

**CON 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.

**CON 206. Construction Management. (3-0-3); II.** Supervisory and administrative procedures typical of the construction industries. Personnel requirements and labor arrangements necessary for building contractors.

**CON 210. Surveying I. (2-2-3); I.** *Prerequisites: MATH 141 or higher and GCT 103.* 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.

**CON 303. Material Properties and Testing. (2-2-3); II.** *Prerequisites: MATH 152 or higher and MFT 186.* 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.

**CON 310. Surveying II. (2-2-3); II.** *Prerequisite: CON 210 or GEOS 276.* 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.

### 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. Crosslisted 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 mal-

reatment, 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.

**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. Crosslisted 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. Crosslisted with SOC 315.

**CRIM 345. Correctional Institutions. (0-3-0); III.** *Prerequisite: SOC/CRIM 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.

**CRIM 388. Sociology of Punishment. (3-0-3); II.** *Prerequisite: SOC/CRIM 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. Crosslisted with SOC 388.

**CRIM 395. Sociology of Serial Murder. (3-0-3); III.** 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. Crosslisted with SOC 401.

**CRIM 410. Seminar in Domestic Terrorism and White Supremacy. (3-0-3); II.** This course will provide students with 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. Crosslisted with

SOC 410.

**CRIM 420. Seminar in Criminal Behavior. (3-0-3); II.** *Prerequisite:* SOC/CRIM401 or consent of instructor. Specific problems and issues concerning criminal behavior examined in depth. Includes analysis of the courses of particular kinds of behavior, examination of methods of control, and consideration of current approaches to rehabilitation.

**CRIM 450. Research Methods. (3-0-3); I, II, III.** *Prerequisites:* three hours sociology general education and six additional hours of SOC/CRIM or consent of instructor. Fundamental assumptions underlying sociological research; some practical experience in research design, data collection, techniques, and data analysis. Crosslisted 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 SOC/CRIM 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 approximately once every two weeks. 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 institution, juvenile or adult probation and parole agency, or other related agency. A minimum of 20 hours per week will be spent at the assigned agency.

**CRIM 491. Senior 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); II.** *Prerequisite:* CRIM 420/SOC 450 and six additional hours of criminology. 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.

### 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. Crosslisted with CIS 303 and MATH 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 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 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; approval 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 mathematics. This course satisfies integrative component for general education. Crosslisted with MATH 499C.

### 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 201 and 202 or equivalents, MATH 152, 354. A study of mathematical applications as used in business when analyzing data. Crosslisted 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 303. 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 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 339. Cooperative Education III. (1 to 8 hrs.); I, II.** *Prerequisite:* permission 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. Not 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. Crosslisted 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 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 develop-

ment of economic theories from the Mercantilist through modern times.

**ECON 439. Cooperative Education IV. (1 to 8 hours); I, II.** *Prerequisite:* permission 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. Not 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. Crosslisted with IST 447.

**ECON 451. 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 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 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 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 de-

velopment 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, III.** 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, III.** 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 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. Laboratory experiences are an integral part of course.

**EDEC 528. Activities and Materials in Early Childhood Education. (3-1-3); on demand.** 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, 211, PSY 154. 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. Effective presentation of essential number concepts to the learner, child centered emphasis on functional arithmetic and its application. Laboratory experiences in early elementary grades 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. Di-

agnosis 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. Clinical and 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:* EDEM 330, EDF 207 and 211, and admission to TEP. 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. Clinical and 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 098. Strategic Reading I. (2-2-3); I, II.** Provides diagnostic independent guided improvement of reading skills. Vocabulary and improved comprehension skills are stressed.

**EDEL 099. Strategic Reading II. (2-2-3); I, II.** *Prerequisite:* EDEL 098. Continuation of Strategic Reading I.

**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 CDA training.

**EDEL 276. Independent Study. (1 to 3 hrs.); I, II, III.** Directed study of specific areas in elementary education. Topic must be approved in advance by instructor. Conferences with instructor by arrangement.

**EDEL 301. Media Strategies. (2-2-2); I, II.** Introduction to educational media. Principles of utilization and hands-on experience with hardware and software. Basic production projects also 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, III.** 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.** 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. Crosslisted with EDSE 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 and Vocational Family and Consumer Science 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. Senior Teaching Seminar. (3-0-3); I, II.** *Prerequisite:* an application of previous learning in development of effective instructional strategies, human interaction skills, classroom management, and use of technology. *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. Laboratory experiences are an integral part of course.

**EDF 211. Human Growth and Development. (3-0-3); I, II, III.** *Prerequisite:* PSY 154. Survey of developmental patterns from birth to adolescence and their implications for elementary and secondary teachers. Laboratory experiences are an integral part of course.

**EDF 311. Learning Theories in the Classroom. (3-0-3); I, II, III.** *Prerequisite:* admission to TEP. Study of the principles of learning and motivation as they are applied in the classroom. Laboratory experiences are an integral part of course.

**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 move-

ment, 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); I, II.** *Prerequisites:* EDEM 330, EDF 207 and 211, and admission to TEP. (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. Clinical and field experiences in grades 5-9 are an integral part of this course.

**EDMG 341. Teaching Math in Middle Grades. (3-0-3); I, II.** *Prerequisites:* EDEM 330, MATH 231, 232, and admission to TEP. 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. Clinical and field experiences in grades 5-9 are an integral part of this course.

**EDMG 342. Teaching Social Studies in the Middle Grades. (3-0-3); I, II.** *Prerequisites:* admission to the TEP, 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. Clinical and 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 the TEP, EDF 207 and 211, 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. Laboratory 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 dur-



ing 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, III.** 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. Teaching Skills and Media. (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. Clinical 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, III.** Investigation of specific problem areas in the field of study. May be repeated in additional subject areas.

**EDSE 416. Student Teaching. (12-0-12); I, II.** *Prerequisite: admission to professional semester.* Classroom component comprised of preparation for student teaching followed by placement in a student teaching center during which time observation, participation, and student teaching are done. Special conferences with supervising teacher, attendance and participation in faculty meetings and co-curricular activities. Application made through coordinator of professional laboratory experiences.

**EDSE 470. Research Problems. (1 to 3 hrs.); I, II, III.** 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 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. Laboratory experiences are an integral part of this course. This course satisfies the integrative component for general education.

**EDSE 516. Educational Data Processing. (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. Crosslisted with EDEL 516.

**EDSE 599. Selected Topics. (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 (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.** *Prerequisite: PSY 154.* 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, III.** 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. Crosslisted 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.** *Prerequisites: EDSP 230 and 350.* Course is part of the MSD 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 370. Assessment of Students with Moderate and Severe Disabilities. (3-0-3); I.** *Prerequisite: EDSP 350. Co-requisite: EDSP 370.* Involves procedures for assessment of the behavioral and educational performance of individuals with moderate to severe disabilities including task analysis, sequencing behavioral skills and designing individual instructional programs.

**EDSP 371. Field Experiences in Assessment of Students with Moderate and Severe Disabilities. (0-2-1); II.** *Prerequisite: EDSP 350. 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 and apply the assessment strategies being

studied in the co-requisite.

**EDSP 372. Transition to Adult Life. (3-3-3); II.** *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.** *Prerequisites:* EDSP 370 and 371. 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. (3-0-3); I.** 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, III.** 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 Students. (2-2-3); I, III.** *Prerequisites:* EDSP 230, 350, 360, and 537 or consent of instructor. Designed to prepare the teacher of exceptional children 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 Learning and Behavior Problems. (2-2-3); I, III.** *Prerequisite:* EDSP 230, 350, 360, 537, and 553 or 557 or consent of instructor. Transfer of education assessment data into behavioral objectives, instructional planning for implementing such objectives, behavior management, techniques, methods and materials for instruction, and formative and terminal evaluation techniques for individuals with learning and behavior problems.

**EDSP 557. Content Areas and Career Preparation for Exceptional Students. (2-2-3); II, III.** *Prerequisites:* EDSP 230, 350, 360, 537 or consent of instructor. Designed to prepare teachers of exceptional children in curriculum development and specialized procedures for teaching mathematics, content areas, and preparing students for vocations.

**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 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 required core-computer competency.

**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. Laboratory experiences are an integral part of course.

**EDUC 582. Discipline and Classroom Management. (3-0-3); I, II, III.** *Prerequisite:* admission to TEP. Designed to provide assistance in establishing an organized, well-managed classroom. Emphasis on available options and alternatives in dealing with disruptive students in the classroom.

#### Electricity-Electronics Technology

**EET 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 EET 141. Lab required.

**EET 141. Direct Current Circuits (DC). (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.

**EET 215. Basic Control Systems. (2-2-3); I.** *Prerequisite: EET 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.

**EET 240. Residential Wiring. (2-2-3); I, II.** *Prerequisite: EET 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.

**EET 241. Alternating Current Circuits (AC). (2-2-3); I, II.** *Prerequisites: EET 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.

**EET 242. Analog Devices and Circuits. (2-2-3); I, II.** *Prerequisite: EET 241 or consent of instructor.* Physical properties, models, and basic circuit design of transistor and semiconductor devices.

**EET 245. Digital Electronics. (2-2-3); II.** *Prerequisite: EET 241 or consent of the instructor.* Functional and logical operation of digital circuits, including logic gates, combinational logic, multivibrators, counters and registers.

**EET 342. Electronic Devices and Circuits. (2-2-3); II.** *Prerequisite: EET 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.

**EET 343. Motors and Generators. (2-2-3); II.** *Prerequisite: EET 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.

**EET 344. Communications Circuits. (2-2-3); I.** *Prerequisite: EET 342 or consent of instructor.* Radio frequency components and circuits, including passive and active devices, amplifier, oscillator, modulation, and detection circuits.

**EET 345. Microprocessor Electronics. (2-2-3); I.** *Prerequisite: EET 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.

**EET 346. Programmable Logic Controllers (PLC). (2-2-3); II.** *Prerequisite: EET 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.

**EET 443. Industrial Electricity. (2-2-3); II.** *Prerequisites: EET 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.

**EET 444. Communications Systems. (2-2-3); II.** *Co-requisite: EET 344 or consent of instructor.* Radio transmitters, data communications, television, transmission lines and networks, and antennas.

**EET 445. Computer Electronics. (2-2-3); II.** *Prerequisite: EET 345 or consent of instructor.* Computer architecture, addressing modes, instruction sequence, memories, IO systems, AD systems, assemblers, interpreters, operating systems and microprocessor interfacing.

**EET 480. Digital Communication and Networking. (2-2-3); I.** *Prerequisite: EET 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.

### English

**ENG 090. Developmental Writing. (3-0-3); I, II, III.** A placement composition course that reviews basic grammar, punctuation, and mechanics and emphasizes writing/revising for clarity and correctness. Does not satisfy the general education requirement in written composition.

**ENG 099. Basic Writing Skills. (3-0-3); I, II, III.** A placement composition course that reviews basic editing skills, gives students practice in writing from the sentence level to the whole essay, and emphasizes the related skills of reading, writing, and thinking. Does not satisfy the general education requirement in written composition.

**ENG 100. Writing I. (3-0-3); I, II, III.** *Prerequisite: 17 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 192. Technical Composition. (3-0-3); II.** Continuation of ENG 101, with emphasis on the writing of scientific-industrial directions, letters, and memos, abstracts, minor project reports, and the use of visual aids.

**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.** A comparative study of dramatic, lyric, and narrative ancient literatures. This course satisfies area studies-humanities for general education.

**ENG 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.

**ENG 220. Approaches to Literature. (3-0-3); I, II, III.** *Prerequisite: ENG 100.* Introduction to literature, with emphasis on ways of reading and understanding literary texts. Topics for individual sections will be designated in the course schedule each semester. This course satisfies area studies-humanities 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 non-fiction, and drama. This course satisfies the area studies-humanities

ties for general education.

**ENG 305. Introduction to Linguistics. (3-0-3); II.** Introduction to the major areas of contemporary linguistics.

**ENG 315. Structure of English. (3-0-3); I, II.** 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.** 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. Crosslisted with WST 320.

**ENG 325. Religious Literature of the World. (3-0-3).** The literature of major religions of the world.

**ENG 331. British Literature to 1750. (3-0-3); I, II.** A survey of British literature from Beowulf through Dr. Johnson.

**ENG 332. British Literature since 1750. (3-0-3), I, II.** A survey of British literature from Wordsworth to the present.

**ENG 341. American Literature to 1865. (3-0-3), I, II.** 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.** 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.** Study of representative forms of the short story and the novel.

**ENG 348. African-American Literature. (3-0-3); on demand.** 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.** 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.** Readings in the major representative Southern authors.

**ENG 367. Old Testament Literature. (3-0-3); on demand.** A critical study of the history and literature of the Old Testament.

**ENG 368. New Testament Literature. (3-0-3); on demand.** A critical study of the history and literature of the New Testament.

**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.** 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 100.* 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.** 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: completion of English general education requirements.* 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 de-**

**mand.** 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.** 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.** 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.** 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.** 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 399. Special Courses. (1 to 3 hrs.); on demand.** *Prerequisite: variable.* These courses are usually specialized offerings for the undergraduate student. The purpose of these courses is to enhance the existing program in English.

**ENG 435. Shakespeare. (3-0-3)II.** A study of selected comedies, histories, and tragedies in their historical and critical context.

**ENG 436. The English Renaissance. (3-0-3); on demand.** 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.** 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.** 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.** Representative selections of English literature, including works by Browning, Tennyson, Arnold, and Carlyle.

**ENG 444. Twentieth Century British Literature. (3-0-3); on demand.** Study of modern British literary genres.

**ENG 466. American Poetry. (3-0-3); on demand.** 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).** 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, and 341; consent of coordinator of undergraduate English.* 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, II.** The philosophy, rationale, and content of English in American junior and senior high schools.

**ENG 501. General Semantics. (3-0-3); on demand.** Presents the problems of meaning as related to referential, distributional, and rational ways of encountering experience.

**ENG 505. Linguistics: Grammar. (3-0-3); on demand.** Principles of grammar from current theoretical perspectives.

**ENG 509. Theories of Teaching Writing. (3-0-3); on demand.** *Prerequisite: 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-Aristotelians, 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: 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: 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.

**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: permission 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. Not 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. Crosslisted 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. Crosslisted 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 con-

trol, 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 employee 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, FIN 360. Interpretation and development of accounting and financial data and statements incorporating spreadsheet analysis and applications. Crosslisted 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:* permission of the 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. Not 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, 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.** Continuation of FRN 101. Use of four skills for effective communication in a variety of situations.

**FRN 201. Intermediate French. (3-0-3); I.** Continuation of FRN 102. Increased emphasis on interactive language and grammatical competency.

**FRN 202. Conversation and Composition. (3-0-3); II.** 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.** 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. Crosslisted with IST 205.

**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 405. Linguistics and Language Teaching. (3-0-3); on demand.** *For French teaching majors.* Discussion of current pedagogical trends. Student presentations of micro-lessons on four skills, grammar, literature, and culture.

**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 Colloquium 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 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.

### Graphics Communications Technology

**GCT 102. Graphic Arts I. (1-4-3); 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.

**GCT 103. Fundamentals of Technical Graphics. (2-2-3); I, II.** A study of the principles and techniques of communicating ideas by means of graphic representation.

**GCT 202. Graphic Arts II. (1-4-3); II.** *Prerequisite:* GCT 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.

**GCT 203. Technical Drawing II. (2-2-3); II.** *Prerequisite:* GCT 103. Breadth and depth are derived from the background of principles and techniques developed previously in technical drawing. Focus on working drawings.

**GCT 204. Descriptive Geometry. (2-2-3); on demand.** *Prerequisite:* GCT 203. The historical and theoretical background for technical drawing and the study of graphic problem solving.

**GCT 215. Computer Aided Drafting. (2-2-3); I, II.** *Prerequisite:* GCT 103. The study and application of producing two- and three-dimensional drawings on different CAD systems. Costs, software applications, advantages and disadvantages of a CAD system are also discussed.

**GCT 301. Tool Layout and Design. (2-2-3); I, even years.** *Prerequisite:* GCT 203 or 215. The layout and design of machine tool jigs and fixtures in working drawing format.

**GCT 302. Offset Lithography. (1-4-3); 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.

**GCT 303. Technical Illustration. (2-2-3); II.** *Prerequisite:* GCT 103. A study of the principles, practices and techniques used in industry to illustrate complex mechanisms in pictorial form.

**GCT 305. Housing. (2-2-3); on demand.** *Prerequisite:* GCT 103 or consent of instructor. Instruction centers around the problems, practices, and techniques of the housing industry, including historical development. Focus is residential design/drafting.

**GCT 315. Computer Aided Design. (1-4-3); II.** *Prerequisite:* GCT 215. Content will include advanced dimensioning techniques, utilization of attributes, 3-D design and modeling, illustration, presentations, simulation, and programming.

**GCT 322. Photography. (1-2-2); 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).

**GCT 350. Machine Composition I. (1-4-3); on demand.** *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.

**GCT 351. Graphic Duplication. (1-2-2); on demand.** *Prerequisite:* GCT 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.

**GCT 403. Machine Drawing and Design. (2-2-3); II, odd years.** *Prerequisite:* GCT 301. 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.

**GCT 404. Architectural Drawing. (2-2-3); II, even years.** *Prerequisite:* GCT 305. A technical course covering the fundamental principles, techniques, and practices of architecture. Emphasis on

commercial.

**GCT 405. Civil Drafting. (2-2-3); II, odd years.** *Prerequisites:* GCT 204, 215, MATH 141 or equivalent. Computerized drawings involving roadways, bridges, large developments, plats, and deeds.

**GCT 450. Machine Composition II. (1-4-3); on demand.** *Prerequisite:* GCT 350. A continuation/follow-up to GCT 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.

### 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.** 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. Introduction to Spatial 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 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.

**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. Crosslisted with IST 300.

**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.

**GEO 311. Geography of the Global Economy. (3-0-3); I.** *Prerequisite:* GEO 211. Spatial analysis of higher level economic activities. Focus is on wholesaling, interregional and international trade and transportation, producer services, and investment.

**GEO 315. Urban Geography. (3-0-3); I.** A survey of urban evolution, urbanization, economic structure, land use, and urban planning.

**GEO 319. Middle America. (3-0-3); on demand.** Mexico, the Central American Republics, and the islands of the Caribbean; emphasis upon cultural and historical traditions.

**GEO 320. South America. (3-0-3); on demand.** Regional analysis on national and continental basis with treatment of the physical, cultural, and economic characteristics; stress upon prospects of expansion for settlement, development of resources, and growth of industries.

**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.

**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 349. Cartography I. (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 350. Cartography II. (3-0-3); on demand.** *Prerequisite:* GEO 349. Selection of source material for the base and body of the map; mechanical reproduction; construction of complex projections; basic aerial photo interpretation; field mapping techniques and practice.

**GEO 360. Physiography of the United States. (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 366. Political Geography. (3-0-3); II.** 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. Crosslisted with GOVT 372.

**GEO 370. Geography of World Religions. (3-0-3); II.** *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.

**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.

**GEO 390. Weather and Climate. (3-0-3); I, II.** 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 499C. Senior Seminar in Geography. (3-0-3); I.** 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); I, II, III.** 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 cities.

**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

**GEO 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.

**GEO 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.

**GEO 199. Selected Topics. (1 to 6 hrs.); on demand.**

**\*GEO 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.

**\*GEO 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.

**GEO 239. Cooperative Education. (1 to 8 hrs.); I, II, III.** Participation in supervised work experience in a professional environment. Department approval is required.

**GEO 240. Oceans. (3-0-3); I.** General introduction to marine geology, chemical oceanography, physical oceanography and marine biology.

**GEO 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.

**\*GEO 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.

**GEO 299. Selected Topics. (1 to 6 hrs.); on demand.**

**GEO 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.

**GEO 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.

**\*GEO 315. Sedimentation and Stratigraphy. (2-4-4); I, al-**

**ternate 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.

**\*GEO 325. Structural Geology. (3-2-4); II, alternate years.** *Prerequisites: GEOS 201 and MATH 141 (or its equivalent).* Geologic structures, rock mechanics and geometrical techniques used in descriptive analysis. Emphasis on faults, folds, shear zones, cleavage, foliation and lineation.

**GEO 339. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: GEOS 239.* Participation in supervised work experience in a professional environment. Department approval is required.

**\*GEO 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.

**\*GEO 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.

**\*GEO 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.

**GEO 399. Selected Topics (1 to 6 hrs.); on demand.**

**\*GEO 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.

**\*GEO 413. Micropaleontology. (2-2-3); on demand.** *Prerequisite: GEOS 201.* Collection, preparation, microscopic investigation, classification, paleoecology, and stratigraphic succession of microfossils.

**GEO 415. History of Geology. (2-0-2); on demand.** Development of geological thought; important persons and their contributions to our understanding of Earth.

**GEO 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.

**GEO 425. Hydrogeology. (2-2-3); I, alternate years.** *Prerequisites: GEOS 108; GEOS 200 or higher; MATH 152; Co-requisite: CHEM 112; or consent of the 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.

**GEO 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.

**GEO 439. Cooperative Education. (1 to 8 hrs.); I, II, III.** *Prerequisite: GEOS 339.* Participation in supervised work experience in a professional environment. Department approval is required.

**\*GEO 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.

**GEO 476. Special Problems. (1 to 6 hrs.); I, II, III.** *Prereq-*

*uisite: 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.

**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.** *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 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.

**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.** *Prerequisites: GOVT 180 and 289.* History and development of feminist political thought. Perspectives include those of Fuller, Millet, Collins, MacKinnon, and Irigaray.

**GOVT 318. Twentieth Century Political Thought. (3-0-3); II.** *Prerequisites: GOVT 180 and 289.* A study of the major developments 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, II.** *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); II, alternate years.** *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 330. Parliamentary Democracies. (3-0-3); I.** *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.* Analy-

sis of major themes and cases in Middle Eastern/North African Politics. Includes issues of religion, ethnic conflict, modernization, and democratization.

**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.

**GOVT 333. Politics of Sub-Saharan Africa. (3-0-3); I, alternate years.** *Prerequisite:* GOVT 230 and 289. Analysis of major themes and cases in African politics. Includes issues of debt, development, and democratization.

**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.

**GOVT 337. Politics of Asia. (3-0-3); II, alternate years.** *Prerequisite:* 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.

**GOVT 342. The American Presidency. (3-0-3); I.** *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.** *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); I.** *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.** *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.

**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.

**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.

**GOVT 364. International Relations. (3-0-3); I.** *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.

**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."

**GOVT 372. Political Geography. (3-0-3); II.** *Prerequisite:* GOVT 289. A study of the principles and concepts of political geography and their application to an understanding of political phenomenon world wide. Crosslisted with GEO 366.

**GOVT 373. Introduction to Women's Studies. (3-0-3); I, II.** *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.** *Prerequisites:* if any, will depend upon the course offered, 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 Gov-**

**ernment Internship. (3 to 15 hrs.); on demand.** *Prerequisites:* related course work in GOVT recommended. Prior approval of GOVT internship coordinator is required. 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. Crosslisted 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:* permission 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 304. The United States, 1876-1900. (3-0-3); on demand.** *Prerequisite:* HIS 250. Emphasis is placed on the rise of big business and America as a world power.

**HIS 305. The United States, 1900-1939. (3-0-3); on demand.** *Prerequisite:* HIS 250. The story of the American people from the Progressive Period through the New Deal.

**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, 1877-1901. (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.

**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, III.** 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 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.

**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.

**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.

**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.

**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.

**HIS 356. Medieval Europe. (3-0-3); on demand.** *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); on demand.** *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.

**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.

**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.

**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.

**HIS 371. Traditional China. (3-0-3); I.** *Prerequisite:* HIS 250. Survey of early Chinese civilization and its institutions.

**HIS 372. Modern China. (3-0-3); II.** *Prerequisite:* HIS 250. Survey of Chinese history since the nineteenth century.

**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.

**HIS 374. The Middle East. (3-0-3); I.** *Prerequisite:* HIS 250. Survey of the Moslem world beginning with the Eighth Century and culminating in the present Middle Eastern situation.

**HIS 376. Ancient History. (3-0-3); II.** *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.

**HIS 379. Latin American History. (3-0-3); II.** *Prerequisite:* HIS 250. The Indian background, the rise and fall of the Iberian empires, and major events since independence.

**HIS 389. Honors Seminar. (3-0-3); on demand.** *Prerequisite:* permission 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 499C. Senior Seminar in History. (3-0-3); I.** *Prerequisites:* senior standing history majors, HIS 250 and 399, or permission of department. Each student will develop a research project that integrates methodological and substantive aspects of the contemporary discipline. Each will prepare and present a paper to fellow students and a department committee. Course provides opportunity for review of professional and graduate opportunities and completion of student portfolio. This course satisfies the integrative component for general education.

**HIS 499D. Teaching Social Studies. (3-0-3); I, II.** *Prerequisite:* HIS 250 and at least three HIS classes at 300 level. Admission to TEP. Analysis of contemporary approaches and resources used to teach social studies at the secondary level. Impact of educational reform is emphasized. Credits are not applied to history major or minor. This course satisfies the integrative component re-

quirement for general education.

**HIS 576. American History: Directed Readings. (1 to 3 hrs.); on demand.** *Prerequisite:* permission of department.

**HIS 577. European History: Directed Readings. (1 to 3 hrs.); on demand.** *Prerequisite:* permission of department.

**HIS 578. Non-Western History: Directed Readings. (1 to 3 hrs.); on demand.** *Prerequisite:* permission 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 160. Foundations in Health. (3-0-3); II.** History, philosophy, principles, dimensions, evaluation and future of the profession of health.

**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. Crosslisted 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 300. Health in the Elementary School. (2-1-2); II.** Elementary school health program; educational theory and methods as applied to health teaching on elementary school level. Laboratory experiences are an integral part of course.

**HLTH 301. Health, Safety, and Nutrition for Early Elementary. (2-0-2); I, II, III.** *Prerequisite:* HLTH 151. Focuses upon content, materials, and methodologies for teaching young children the principles and practices of health care, safety, and good nutrition.

**HLTH 302. Evaluation in Health Education and Health Promotion. (3-0-3); I.** *Prerequisites:* HLTH 160 and 230. Course emphasis is upon knowledge and statistical methods for measurement, data collection, and processes for program evaluation exposing the student to research, field testing, and computer analysis.

**HLTH 304. Health in the Secondary School. (2-1-2); I.** *Prerequisite:* admission to the TEP. Secondary school health program, educational theory and methods as applied to health teaching on secondary school level. Laboratory experiences are integral part of 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, parent-hood issues.

**HLTH 377. Clinical and Field Experiences in School Health (K-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 and Managing Health/Wellness Promotion Programs. (3-0-3); II.** *Prerequisites: HLTH 310 and CIS 101.* The course emphasizes knowledge, methods in planning, designing, managing and improving health/wellness promotion programs.

**HLTH 430. Consumer Health. (3-0-3); II.** *Prerequisite: 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 470. Practicum. (0-30-15); II.** *Prerequisites: HLTH 370, senior standing, and 2.5 or above GPA.* Practical full-time experience under professional supervision in a selected and approved

**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 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 490. Issues in Health. (3-0-3); II.** *Prerequisite: Health major or minor or consent of instructor.* An overview of the major health issues throughout history with emphasis on the Twentieth Century.

**HLTH 499C. Senior Seminar in Health Promotion. (3-0-3); I.** *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 499D. Senior Seminar in Health Education. (1-0-1); I, II.** *Prerequisites: senior standing and admission to the professional semester in education. To be taken during last semester of on-campus work. Co-requisite: EDSE 415.* A culminating experience in which students will review and apply the basic principles, strategies and theories applicable in the (K-12) health classroom/curriculum which will facilitate the successful completion of the professional semester. This course satisfies the integrative component for health education majors 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 518. Use and Abuse of Drugs. (3-0-3); on demand.** 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 and 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.

### 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.

**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/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: permission 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 pre-school children.

**HS 254. Preschool Administration. (3-2-4); II, alternate years.** *Prerequisite: HS 253.* The study of the organization and administration of pre-school programs; role of parenthood education; supervised experiences in planning and guiding children's activities in a pre-school 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 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: VOC 207 or consent of instructor.* A comprehensive study of current curriculum content in Vocational Education. Emphasis on modifying and developing new curricula. Crosslisted with AGR 388 and IET 388.

**HS 392. Methods of Instructional Technology. (2-2-3); I, III.**

*Prerequisites: admission to the TEP and VOC 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. Crosslisted with AGR 392 and IET 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: HS 130 and CHEM 201.* 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.

**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: junior or senior standing in home economics and admission to TEP.* 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. Crosslisted with AGR 470 and IET 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 355, 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.

**HS 490. Special Topics in Human Sciences. (1 to 3 hrs.); on demand.** *Prerequisite: permission 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/Specialty 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.** *Prerequisite: 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.

#### Interdisciplinary 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 410. The Role of the Teacher: Designing Language and Cognitive Activities for Diverse Groups. (3-0-3); I.** 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.** 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 Creative Play Activities for Young Children. (3-1-3);**

**I.** The role of the early childhood teacher in implementing creative play activities for young children from birth to age five.

**IECE 425. Practical Student Teaching. (12 hrs.); I, II.** *Prerequisite: admission to TEP.* Placement in an approved preschool setting on the basis of one week placement for each credit hour unit.

**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 Education and 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 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 185. Methods of Instruction in Vocational 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.

**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. (1-2-2); 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.

**IECE 300. Technology and Society. (3-0-3); I, II, III.** *Prerequisites: ENG 100, 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 304. Interpretation of Technical Drawings. (3-0-3); II.** *Prerequisites:* one introductory course (CON 101, EET 140, 141, or MFT 186) and GCT 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.

**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. Time and Motion Study. (2-0-2); I, II.** Process charts, analysis of methods, materials, tools, and equipment of industry for profit improvement.

**IET 319. Quality Control. (3-0-3); I, II.** Analytical and statistical inference techniques for process and manufacturing product control.

**IET 320. Supervisory Practices. (3-0-3); I, II.** Development of various direct and indirect supervisory techniques commonly used in management positions with special emphasis placed on those unique to manufacturing industries.

**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 330. Industrial Design. (1-2-2); I, II.** Product design with emphasis upon modular systems, consumer relations, and manufacturing capabilities. Individual and group activities using interdisciplinary and systems design techniques.

**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.** *Prerequisite:* IET 262. To gain an in-depth knowledge of fluid systems as they are used in modern industry.

**IET 364. Career and Vocational Guidance. (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.

**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 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.

**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 ex-

amination. (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 388. Methods of Curriculum Development. (3-0-3); II.** *Prerequisite:* VOC 207 or consent of instructor. A comprehensive study of current curriculum content in Vocational Education. Emphasis on modifying and developing new curricula. Crosslisted with AGR 388 and HS 388.

**IET 392. Methods of Instructional Technology. (2-2-3); I, III.** *Prerequisites:* admission to TEP and VOC 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. Crosslisted with AGR 392 and HS 392.

**IET 393. Methods in Vocational Industrial Education. (3-0-3); on demand.** Basic principles of teaching and learning with practical applications of procedures used in industrial education programs.

**IET 394. Student Teaching in Vocational Industrial Education. (4 to 8 hrs.); on demand.** *Prerequisite:* IET 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.

**IET 395. Special Problems in Vocational Industrial Education. (1 to 3 hrs.); I, II, III.** *Prerequisite:* consent of instructor prior to registration. 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.

**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 400. Seminar in Industrial Education Orientation and Exploration Levels. (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 and desire dual certification to include industrial education at the orientation and exploration levels.

**IET 401. Seminar in Industrial Education—Preparation Level. (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.

**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 460. Internal Combustion Engines II. (2-2-3); on demand.** *Prerequisite: IET 360.* 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 470. Methods of Instruction. (3-0-3); I.** *Prerequisites: junior or senior standing in Industrial Education and admission to TEP.* 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. Crosslisted with AGR 470 and HS 470.

**IET 476. Special Problems. (1 to 3 hrs.); I, II, III.** *Prerequisite: upper division standing; approval 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.

**IET 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. Crosslisted with AGR 478 and HS 478.

**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 497. Seminar in Vocational Industrial Education. (1-0-1); I.** Current problems, issues, and trends in vocational education.

**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 520. Industrial Arts for the Elementary Teacher. (3-0-3); on demand.** *Prerequisite: admission to the TEP.* Designed to develop professional and technical competencies of pre-service and in-service elementary school teachers.

**IET 560. Foundations of Industrial 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.

**IET 571. Seminar for Industrial 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.

**IET 588. Machine Shop III. (1-4-3); on demand.** *Prerequisite: MFT 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.

### International Studies

**IST 101. Introduction to International Studies. (3-0-3); I, II.** 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 disciplines.

**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. Crosslisted 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. Crosslisted 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. Crosslisted with FRN 205.

**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. Crosslisted with GEO 300.

**IST 301. International Studies Study Abroad. (0-1-1); I, II, III.** *Prerequisite:* IST 101 or 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 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. Crosslisted with CMSP 350.

**IST 401. Seminar in International Studies. (3-0-3); II.** *Prerequisite:* IST 101 and nine hours of IST classes or permission of IST director. 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 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. Crosslisted 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. Crosslisted with MKT 469.

### 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.

### 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.

### 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.

**LSIM 521. Literature and Materials for Young People. (3-0-3); I, III.** Investigation of reading interests and needs of young people grades seven through 12, with emphasis on criteria for selection and evaluation of materials, technical and literary qualities, and methods for utilization of such materials.

**LSIM 522. Literature and Materials for Adults. (3-0-3); II.** Investigation of adult reading interests and library's role in adult education.

### Mathematics

**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. Mathematics Reasoning & 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 Algorithms. (3-0-3); I, II.** *Prerequisites:* MATH 141 and 152, or 174, or a minimum ACT Math subscore of 22. A first course in the mathematical treatment of algorithms using the generic language of pseudocode.

**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. Analytic Geometry and 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 computers; 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 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. Analytic Geometry and 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. Analytic Geometry and Calculus III. (4-0-4); I, II.** *Prerequisite:* MATH 275. Polar coordinates; parametric equa-

tions; vectors; differential calculus of functions of several variables; multiple integration; vector calculus.

**MATH 300. Introduction to Mathematical Proof. (3-0-3); I.** *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. 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. Crosslisted with CIS 303 and CS 303.

**MATH 308. Discrete Mathematics. (3-0-3); I.** *Prerequisites:* MATH 170, 275, and either MATH 300 or CS 303. A course in algorithms, counting principles, recurrence relations, generating functions, graphs, trees, and networks.

**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 nonlinear equations, and curve-fitting.

**MATH 330. Geometry for Teachers (P-9). (2-2-3); I.** *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.** 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.

**MATH 355. Principles of Optimization. (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); II, III.** *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); I.** *Prerequisite:* MATH 370. Geometric transformations, non-Euclidean geometry, projective geometry, geometric topology, geometry of inversion.

**MATH 373. Principles and Techniques of Teaching Mathematics. (2-2-3); I.** *Prerequisite:* MATH 275 and admission to TEP. Designed specifically for the student who desires to become a teacher of secondary school mathematics. The course provides the student

with opportunities to develop the skills required to plan, implement, and evaluate mathematics instruction. Field and clinical experiences are an integral part of the course.

**MATH 374. Clinical and Field Experiences in the Teaching of Mathematics. (1-4-3); II.** *Prerequisite:* MATH 373. A course designed to provide students with clinical and field opportunities to further develop the skills required for planning, implementing, and evaluating instruction in secondary school mathematics.

**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. Crosslisted 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. Crosslisted 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 402E. 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. Crosslisted 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 301 and 353, 354, or 365. Linear and quadratic regression models; least squares estimates; statistical inference; multicollinearity; residual analysis; selection of regression models; lack of fit.

**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. Crosslisted 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. Crosslisted 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 301. 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 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. A course in basic nonparametric statistical methods and applications.

**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.); I, II, III.** *Prerequisite:* consent of instructor. New curricula developments in mathematics.

\*A student may receive credit toward graduation in only one of the following: MATH 353 or 354.

### Manufacturing Technology

**MFT 106. Thermoplastic Processing. (2-2-3); I.** Introduction to the materials and techniques employed in the processing of thermoplastics.

**MFT 107. Thermosetting Plastics Processing. (2-2-3); on demand.** Study of the various ways thermosetting plastic compounds are processed.

**MFT 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.

**MFT 286. Machine Tool Processes. (2-2-3); II.** *Prerequisite:* MFT 186 or consent of instructor. Various metal forming and machining experiences; emphasis on exact tolerances and precise dimensions. Lathe, mill, and grinder experiences.

**MFT 306. Mold Design and Construction. (2-2-3); II.** *Prerequisite:* one of the following courses MFT 106, 286 or 386 or consent of instructor. Design of products in relationship to the physical characteristics of plastics, molding techniques, and mold construction methods.

**MFT 386. NC-CNC Manufacturing Technology. (2-2-3); I.** *Prerequisite:* MFT 286 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.

**MFT 486. Patternmaking and Foundry. (1-2-2); on demand.** Casting of hot metals with activities in pattern development, sand testing, and mold design.

**MFT 488. Flexible Manufacturing Engineering Technology. (2-2-3); II.** *Prerequisite:* MFT 386. Advanced tools and machining theory; use of carbides, with emphasis on production machining. Turret and progressive tooling design.

**MFT 588. Machine Shop. (1-4-3); on demand.** *Prerequisite:*

*MFT 386 or consent of instructor.* Advanced tool and machining theory, with emphasis on production machining, and progressive tooling for computerized numerical control applications.

### Mining Technology

**MIN 101. Introduction to Mining and Reclamation. (3-0-3); on demand.** A survey of all phases of the mining industry, emphasizing the importance of safety management and including areas such as production, laws, history, geology, coal analysis and preparation, environmentalism, marketing, uses, economics, reclamation, labor relations, and transportation. Both underground and surface mining techniques are introduced.

**MIN 302. Coal Analysis and Preparation. (2-2-3); on demand.** A study of the various techniques used in analyzing and preparing coal, resulting in findings of coal characterizations such as sulfur, ash, BTUs, and moisture content. The student learns the process of cleaning, sizing, and mixing coal. Safe disposal of wastes and by-products from the preparation of coal is stressed.

**MIN 303. Mine Laws. (3-0-3); on demand. Prerequisite: MIN 101.** A study of underground mining laws and their applications to the underground mine operations. An analysis is made of state and federal codes, their interpretations and applications.

**MIN 305. Surface Mining Systems. (3-0-3); on demand. Prerequisite: MIN 101.** A study of the engineering and management approaches to the various surface mining systems. Topics will include the study of surface mining laws, production and safety techniques, equipment types and their functions, and the management of surface mining operations.

**MIN 307. Hydrology. (3-0-3); on demand. Prerequisite: MIN 101, 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.

**MIN 402. Mine Roof and Rib Control. (3-0-3); on demand. Prerequisites: MIN 101 and GEOS 200.** A study of bedded sedimentary formations and the transition of these formations once an opening is excavated through them. Provides a basis for the design of support systems to prevent or control the collapse or failure of a coal mine roof and ribs both safely and economically.

**MIN 403. Blasting and Explosives. (3-0-3); on demand. Prerequisites: MIN 101 and GEOS 200.** An analysis of the principle types of commercial high explosives and explosive devices, and chemical and physical characteristics of explosives. The fundamentals of blasting design will be covered, including rock breakage mechanisms, overburden, spacing and stemming calculations, and blasting pattern design. Legal issues and safety aspects of explosives and blasting will be stressed.

**MIN 406. Underground Mine Technology. (3-0-3); on demand. Prerequisite: senior standing.** An in-depth study of the engineering and management approaches to underground mine systems. Special emphasis will be placed on integrating previously learned material to cover the advanced areas of planning, installation, and development of underground mining operations.

**MIN 476. Special Problems in Mining. (1 to 3 hrs.); on demand. Prerequisite: senior standing.** Designed for the purpose of permitting a student to conduct advanced and specialized studies in mining and/or the energy sector. A written proposal, including a justification, must be submitted to the assigned instructor and to the student's advisor before registration. Each request will be considered as to its relevancy to the education of the student.

### 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 305. Purchasing. (3-0-3); on demand. Prerequisite: MKT 304 or consent of instructor.** Purchasing functions and procedures, organization and operation of the purchasing department, inventory, quantity and quality controls, sources of supply, legal aspects of purchasing, evaluating purchase performance.

**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. Not 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, II. 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. Not 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, II. 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. Promotional Strategies. (3-0-3); I, 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 465. Distribution Management. (3-0-3); on demand. Prerequisite:** *MKT 304 or consent of instructor*. Distribution management examines how the marketer gets its product to the end consumer. The activities involved in the physical movement and storage of inputs into the production process, in-process inventory and finished products from the point of origin to the point of consumption will be examined.

**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. Crosslisted with IST 469.

**MKT 476. Special Problems in Marketing. (1 to 3 hrs.); I, II, III. Prerequisites:** *senior standing and prior 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); on demand. Prerequisites:** *MATH 152, 354, ECON 202, or equivalent*. Application of mathematical and statistical techniques to business, the market systems, and the study of economic and finance. Crosslisted 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:** *MNGT 301, MATH 152 and 354*. 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. Not 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, 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. Crosslisted 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.

**MNGT 411. Labor Relations. (3-0-3); I, II.** *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:* MNGT 301 and BIS 321 or 421. 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. Crosslisted 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. Not 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); on demand.** *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. Business Policies and Problems. (3-0-3); I, II, III.** *Prerequisites:* ACCT 282, ECON 202, FIN 360, MNGT 301, MKT 304, and senior standing. Specific problems involved in the forming of consistent business policies and in maintaining an efficient organization. This is a comprehensive, general education, capstone course required of all students seeking a BBA degree. 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 performance. 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 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 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.** 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.** *Prerequisite:* 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 required core-computer competency 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.** *Prerequisites:* MUSE 230 and admission to TEP. Materials and methods for the elementary school with emphasis on the teaching of musical concepts through developmental techniques.

**MUSE 335. Field Experience. (1 to 3 hrs.); on demand.** Two full days weekly of teaching under supervision in public schools in nearby communities.

**MUSE 336. Field Experience. (1 to 3 hrs.); on demand.** Continuation of MUSE 335.

**MUSE 375. Vocal Materials and Methods. (2-0-2); II.** *Prerequisite:* admission to TEP. 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.** *Prerequisites:* credit for applied music in at least two of the following fields: strings, brasswinds, woodwinds, percussion; admission to TEP. 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.**

**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.** *Prerequisite:* MUSG 211 or prior playing experience with woodwind instruments. 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 prior playing experience with brasswind instruments. 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.**

**MUSG 224. Class Piano IV. (0-2-1); I, II.**

**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 satisfied 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 Review. (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 with the consent of the instructor.

**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. Admission by audition.

**MUSM 171, 371, 571. Symphony Band. (0-2-1); II.** Open to all students. Admission by audition.

**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 as needed.

**MUSM 181, 381, 581. Jazz Ensemble. (0-2-1); I, II.** Open to all students. Admission by audition.

**MUSM 182, 382, 582. Jazz Vocal Ensemble. (0-2-1); I, II.** Open to all students. Admission by audition.

**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.** 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. Admission by audition.

**MUSM 193, 393, 593. Chamber Singers. (0-3-1); I, II.** Selected group of 16 singers. Admission by audition.

**MUSM 194, 394, 594. OperaWorks. (0-2-1); on demand.** *Prerequisite: consent of instructor.* 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)

Private applied music courses may be repeated for credit. After completing at least four semesters of credit at the 200 level with a minimum grade of "C," a student may enroll for courses at the 400 level. At least three semesters of upper division credit in the principal performing area are required for graduation with a major or area of concentration in music.

**MUSP 200, 400. Performance Class.**

**MUSP 201, 401, 501. Private Flute.**

**MUSP 202, 402, 502. Private Oboe.**

**MUSP 203, 403, 503. Private Bassoon.**

**MUSP 204, 404, 504. Private Clarinet**

**MUSP 205, 405, 505. Private Saxophone.**

**MUSP 206, 406, 506. Private Horn.**

**MUSP 207, 407, 507. Private Trumpet.**

**MUSP 208, 408, 508. Private Euphonium.**

**MUSP 209, 409, 509. Private Trombone.**

**MUSP 210, 410, 510. Private Tuba.**

**MUSP 216, 416, 516. Private Harp.**

**MUSP 219, 419, 519. Private Percussion.**

**MUSP 227, 427, 527. Private Violin.**

**MUSP 228, 428, 528. Private Viola.**

**MUSP 229, 429, 529. Private Cello.**

**MUSP 230, 430, 530. Private Double Bass.**

**MUSP 235, 435, 535. Private Classical Guitar.**

**MUSP 236, 436, 536. Private Guitar.**

**MUSP 237, 437, 537. Private Electric Bass.**

**MUSP 238, 438, 538. Private Banjo.**

**MUSP 240, 440, 540. Private Voice.**

**MUSP 241, 441, 541. Private Harpsichord.**

**MUSP 242, 442, 542. Private Organ.**

**MUSP 243, 443, 543. Private Piano.**

**MUSP 262, 462, 562. Private Composition.**

**MUSP 263, 463, 563. Private Conducting.** *Prerequisite: consent of instructor.*

**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 498C. Senior Recital. (2-0-2); I, II.** *Prerequisite: approval of the music faculty.* A solo public recital of approximately 30 minutes duration or no fewer than three solo appearances on student recitals 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 for the BMED degree.

**MUSP 499C. Senior Recital. (3-0-3); I, II.** *Prerequisite: ap-*

*proval of the music faculty.* A solo recital of approximately 60 minutes 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 for the BM degree.

### 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.** *Prerequisite for MUSE 221.* 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, canon, 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 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 instructor.* 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 or equivalent.* 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.

### Nursing & Allied Health Sciences

**NAHS 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.

**NAHS 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.

**NAHS 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. This course satisfies the area studies-social and behavioral sciences for general education.

**NAHS 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.

**NAHS 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. This course satisfies the area studies-practical living for general education.

**NAHS 303. Women's Health Care. (3-0-3); I, II.** *Prerequisite:* 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. Crosslisted with WST 303.

**NAHS 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.

**NAHS 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.

**NAHS 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.

**NAHS 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.

**NAHS 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.

**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 100. Fundamentals of Nursing. (3-9-6); I.** *Prerequisite:* admission to the nursing program. *Co-requisites:* BIOL 231, CMSP 108, MATH 135 or higher, and PSY 154. A study of nursing theory and basic nursing skills involved in meeting the human needs of patients. The nursing process and roles of the associate degree nurse and health care team members are introduced. Emphasis is placed on nursing care of the adult patient. Three hours theory, nine hours clinical and/or campus laboratory activities per week.

**NURA 101. Maternity Nursing. (2.5-4.5-4); II.** *Prerequisite:* successful completion of the first semester of the nursing program. *Co-requisites:* BIOL 232, CHEM 101, NURA 102, and PSY 156. A family centered and human needs approach to the study of the maternity process. Emphasis is placed on the roles of the associate degree nurse which includes provider of care, manager of care, and

member within the discipline in maternity nursing. Two and one-half hours theory, four and one-half hours clinical and/or campus laboratory activities per week.

**NURA 102. Mental Health Nursing. (2.5-4.5-4); II.** *Prerequisite:* successful completion of the first semester of the nursing program. *Co-requisites:* BIOL 232, CHEM 101, NURA 101, and PSY 156. A study of mental health nursing at any stage of the life span. Emphasis is placed on the roles of the associate degree nurse which includes provider of care, manager of care, and member within the discipline in mental health nursing. Two and one-half hours theory and four and one-half hours of clinical and/or campus laboratory activities per week.

**NURA 110. LPN/ADN 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 203. Child Adult Nursing I. (5-9-8); I.** *Prerequisite:* successful completion of the first two semesters of the nursing program. *Co-requisites:* BIOL 217 or 317, CIS 101, and ENG 100. A study of the nursing care of individuals from infancy throughout the life span who have commonly occurring alterations in health. Emphasis is placed on the roles of the associate degree nurse for nursing care of adults and children. Five hours theory and nine hours clinical and/or campus laboratory activities per week.

**NURA 204. Child Adult Nursing II. (5-15-10); II.** *Prerequisite:* successful completion of the first three semesters of the nursing program. *Co-requisites:* ENG 200, NURA 210, SOC 101. A continuation of NURA 203 with inclusion of more complex nursing skills and nursing care of individuals with multiple alterations in health. Five hours theory and fifteen hours clinical and/or campus laboratory activities per week.

**NURA 210. Nursing Issues and Trends for the Associate Degree Nurse. (2-0-2); II.** *Prerequisite:* successful completion of the first three semesters of the nursing program. *Co-requisites:* ENG 200, NURA 204, SOC 101. A discussion of current issues and trends in nursing. Historical, economic, technological, legal, and ethical components of nursing as they affect associate degree nursing practice are considered. Two hours theory per week.

**NURA 280. Nursing Integration Seminar. (2-0-2); II.** *Prerequisite:* successful completion of the first three semesters of the ADN 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 (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 313. Community Health Nursing Practicum. (0-6-2); II.** *Prerequisites: admission to the RN (Postlicensure) track and completion of the first semester of the required curriculum. Co-requisite: NURB 310 or University of Kentucky equivalent.* Involves supervised clinical experiences in health promotion, disease prevention, and management of nursing care of individuals, families, and groups throughout the life span within a variety of community settings. Six hours of clinical per week.

**NURB 349. Pharmacology. (3-0-3); I.** *Prerequisite: open only to students officially admitted to the BNP and 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 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 366. Theory and Practice of Professional Nursing. (6-0-6); I.** *Prerequisite: admission to the BNP Postlicensure track component. Co-requisites: NURB 349 and 354.* Emphasis of this course will be on the concepts and dimensions of professional nursing practice. Study of the use of information and technology, changes in health care, and development of nursing science will assist the student in role transition. The course will assist the Postlicensure student in development of a professional plan for socialization to the role of a baccalaureate prepared nurse.

**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 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 457. Advanced Nursing Concepts for the RN Track Student. (3-3-4); I.** *Prerequisite: successful completion of the first two semesters of the BNP (Postlicensure).* The focus is on the role and function of the professional nurse in management of nursing care of individuals, families and aggregates with multiple and complex health alterations at various stages of the life span within a variety of health care settings. Three hours of theory and three hours of clinical 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.

#### 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.** Crosslisted 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 150. Introduction to Physical Education. (3-0-3); I, II.** Principles and basic philosophy, aims, and objectives; standards; and significance in profession of physical education.

**PHED 201. Introduction to Coaching. (3-0-3); I, II.** Emphasis on various coaching methods and techniques.

**PHED 202. Introduction to Sports Administration. (3-0-3); I or II.** The course is designed to assist students in understanding the aims, objectives, principles, policies, procedures and requirements for a successful career as a sports administrator. A minimum of 3.0 or better in this course is required before admission into the Program.

**PHED 203. Facility/Event Management. (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 3.0 or better is required in this course for admission into the Program.

**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 or II.** *Prerequisite or co-requisite:* PHED 150. 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 or II.** *Prerequisite or co-requisite:* PHED 150. 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 or II.** *Prerequisite or co-requisite: PHED 150.* 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.** *Prerequisite or co-requisite: PHED 150.* 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 or II.** *Prerequisite or co-requisite: PHED 150.* 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.** *Prerequisite or co-requisite: PHED 150.* 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, HLTH 151.* An introduction to athletic training, including basic injury prevention, management, and rehabilitation principles.

**PHED 300. Physical Education in the Elementary School. (2-2-3); I.** *Prerequisite: admission to TEP.* Emphasis on planning, implementing and evaluating a developmentally appropriate elementary physical education program. Peer teaching, laboratory experiences, and supervised experiences in public schools are an integral part of the program.

**PHED 301. Evaluation in Physical Education and Recreation. (3-0-3); I.** Methods, techniques, and procedures used in evaluation of students in physical education and recreation.

**PHED 303. Physical Education in the Secondary School. (2-2-3); II.** *Prerequisite: admission to TEP.* Selection and organization of materials and techniques of instruction for secondary school program.

**PHED 306. Kinesiology. (3-0-3); II.** *Prerequisites: BIOL 231 and 232.* Study of structural and mechanical factors in human motion.

**PHED 307. Sports Marketing. (3-0-3); I or II.** The course is designed to assist students in understanding the aims, objectives, principles, policies, procedures, and requirements for a successful career in sports marketing.

**PHED 308. Governance in Sports. (3-0-3); I or 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.

**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 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, 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 408. Pre-Practicum.**

**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: BIOL 231, 232, PHED 306, 326, 332, 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).** *Prerequisites: PHED 402 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 471. Internship. (15 hrs.); I, II, or III.** *Prerequisite: PHED 408 or permission of department chair.* This course will provide students with practical experiences in sport administration that might include high school, collegiate, or professional settings.

**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 402 and 432. An advanced class with hands on experience, which is required for certification.

**PHED 499C. Senior Capstone. (1-0-1); I, II.** Course draws on a variety of learning and assessment activities used to document student progress toward professional goals relative to K-12, Teaching Physical Education Program. To be taken during last semester of campus course work. This course satisfies the integrative component for general education.

**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.** 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 in a 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, affir-

mative 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 cumulativeness, 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 worshipped 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.

**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.

**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 389. Honors Seminar in Philosophy. (3-0-3).** *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.).** *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).** *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 405. Ancient and Medieval Philosophy. (3-0-3).** The history of Western philosophy from its ancient origins through the medieval period and the beginning of the Renaissance.

**PHIL 406. Modern and Contemporary Philosophy. (3-0-3).** A history of Western philosophy from Renaissance to the present.

**PHIL 410. Current Philosophy. (3-0-3).** 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). 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.). Prerequisite:** 12 hours in philosophy or consent of the department. 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 universe. 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, 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 EET 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 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:** department approval is required. Participation in supervised work experience in a professional environment.

**PHYS 299. Selected Topics. (1 to 6 hrs.); on demand.**

**PHYS 320. The Science of Music. (3-0-3); on demand.** Properties of sound, the hearing process, musical scales, production of music by wind and stringed instruments, electronic recording and reproduction, and architectural acoustics.

**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:** department approval. 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 EET 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:**

*site: PHYS 221 or 231.* A study of motion of bodies. Kinematics and dynamics of particles and rigid bodies; work and energy; impulse and momentum.

**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: departmental approval is required.* 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. Crosslisted 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.** *Prerequisite: GOVT 141.* 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); II, alternate years.** 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.** *Prerequisites: GOVT 141 and PLS 210.* 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, an introduction to the Rules of Civil Procedure and the Rules of Evidence, as they pertain to the pleading stages of civil litigation; 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 discovery stages of litigation, with emphasis on drafting documents related to the discovery, 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); I.** 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.** *Prerequisites: PLS 210 and GOVT 327.* 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.** *Prerequisites: 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: PLS 499C or 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: BIS 113, 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 others 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: permission 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, tem-

perament, 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 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. Introduction to Psychopharmacology. (3-0-3); II.** *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.** *Prereq-*

*uisites: 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, PSY 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 559. Behavior Modification. (2-2-3); on demand.** *Prerequisite: PSY 154.* Operant learning principles that govern human behavior applied to modification of behavior in school setting. Course is designed to give experience in dealing with behavioral problems in classroom and other settings. Laboratory experiences are integral part of course.

**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 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 taken.

### Regional Analysis

**RAPP 200. 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 inte-

gration 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.

**RAPP 201. Introduction to Regional Analysis. (3-0-3); I.** *Prerequisites: RAPP 200 and SOC 101 (Computer Enhanced), MATH 152, and BIOL 155 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.

**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 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.** *Prerequisites: 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 firsthand view of these issues.

### 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. (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. Not 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 365. Advanced Property Appraisal. (3-0-3); on demand.** *Prerequisite:* REAL 325, 345, or consent of instructor. Introduction to writing a real property appraisal report that communicates each analysis, opinion, and conclusion in a manner that complies with the uniform standards of Professional Appraisal Practice. Introduction to computer applications in appraisal report writing.

**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 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. Not 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.

**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.

**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.

### Robotics

**ROB 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.

**ROB 270. Robotics Systems Engineering. (2-2-3); I.** *Prerequisite:* ROB 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.

**ROB 370. Robotics Interfacing Engineering. (2-2-3); II.** *Prerequisite:* ROB 270 or EET 215. 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.

**ROB 470. Robotics Applications Engineering. (2-2-3); on demand.** *Prerequisite:* 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.

### 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 Sciences 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 Sciences 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:* official admission to Associate Degree Radiologic Sciences 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 as 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); III.** *Prerequisite:*

*successful completion of previous RSCI required courses listed in the curriculum.* 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 400. Introduction to Sonography. (1-2-2); III.** *Prerequisites: successful completion of the radiography core curriculum and admission to the Sonography option or consent of instructor. Co-requisite: RSCI 408.* An introduction to diagnostic sonography with emphasis on the history of sonography, the professional role of the sonographer, patient clinical history, and sonographic imaging planes. One hour of didactic and two hours of laboratory experience per week.

**RSCI 403. Computed Tomographic Physics and Instrumentation. (3-0-3) I.** *Prerequisites: successful completion of the radiography core curriculum and admission to the Computed Tomography option or consent of instructor. Co-requisites: RSCI 413, 427, 437, and 443.* 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.

**RSCI 408. Sonographic Sectional Anatomy. (2-0-2); V.** *Prerequisites: successful completion of the radiography core curriculum and admission to the Sonography option or consent of instructor. Co-requisite: RSCI 400.* A study of sectional anatomy as visualized by sonographic imaging. Anatomic areas include abdominal viscera and vasculature, superficial structures, and the male and female pelvis. Two hours of didactic experience per week.

**RSCI 410. Abdominal Sonography. (2-2-3); I.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum or consent of instructor. Co-requisites: RSCI 418 and 420.* A study of abdominal organs and superficial structures in sonography with emphasis on examination protocols, image production and evaluation, pathological interpretation and relation of laboratory values to pathologic conditions. Two hours of didactic and two hours of laboratory experience per week.

**RSCI 413. Advanced Patient Care. (2-2-3); I.** *Prerequisites: successful completion of the radiography core curriculum and admission to the Computed Tomography option or consent of instructor. Co-requisites: RSCI 403, 427, 437, and 443.* 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.

**RSCI 418. Genitourinary Sonography. (2-2-3); I.** *Prerequisite: successful completion of previous RSCI required courses listed in the curriculum or consent of instructor. Co-requisites: RSCI 410 and 420.* 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. Two hours of didactic and two hours of laboratory experience per week.

**RSCI 420. Sonographic Physics and Instrumentation. (2-0-2); I.** *Prerequisite: successful completion of the previous required courses listed in the curriculum or consent of instructor. Co-requisites: RSCI 410 and 418.* The study of sonographic instrumentation and principles of sonographic physics with emphasis on sound wave concepts, beam patterns, and beam and image artifacts. Two hours of didactic experience per week.

**RSCI 427. Pathology Correlation in Computed Tomography. (2-0-2); I.** *Prerequisites: successful completion of the radiography core curriculum and admission to the Computed Tomography option or consent of instructor. Co-requisites: RSCI 403, 413, 437, and 443.* A study of systemic pathology as imaged by computed

tomography. The course provides a thorough coverage of common diseases and trauma associated with systems of the body. The course will analyze the etiology and characteristic manifestations of disease. Two hours of didactic experience per week conducted in a computerized classroom.

**RSCI 428. Obstetrical Sonography. (2-2-3); II. Prerequisites:** *successful completion of previous RSCI required courses listed in the curriculum or consent of instructor. Co-requisites: RSCI 450, 458, and 499C.* Sonographic techniques for evaluating the reproductive organs in the gravid state, including the role of the diagnostic medical sonographer in fetal assessment. Two hours of didactic and two hours of laboratory experience per week.

**RSCI 430. Sonography Internship I. (0-16-4); I. Prerequisite:** *successful completion of previous RSCI required courses.* Clinical application of technical and professional aspects of diagnostic sonography in a health care setting with emphasis on performance of areas such as gynecology, abdomen, and superficial anatomy. Thirty-two hours of clinical experience per week.

**RSCI 437. Computed Tomographic Sectional Anatomy. (3-0-3); I. Prerequisites:** *successful completion of the radiography core curriculum and admission to the Computed Tomography option. Co-requisites: RSCI 403, 413, 427, and 443.* A study of the gross anatomy of the entire body utilizing a systemic approach to identify and analyze anatomical structures as imaged by computed tomography. Emphasis will be placed on the relationship and functional analysis of systems. Three hours of didactic experience per week conducted in a computerized classroom.

**RSCI 443. Computed Tomography Imaging Procedures. (3-0-3); I. Prerequisites:** *successful completion of the radiography core curriculum and admission to the Computed Tomography option or consent of instructor. Co-requisites: RSCI 403, 413, 427, and 437.* A study of imaging procedures and protocols utilized in computerized tomography examinations. Emphasis will be placed on protocol selection for image application 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. Three hours of didactic experience per week conducted in a computerized classroom.

**RSCI 450. Sonography Internship II. (0-16-4); II. Prerequisite:** *successful completion of previous RSCI required courses listed in the curriculum.* Clinical application of technical and professional aspects of diagnostic sonography in a healthcare setting which will continue to build on clinical experiences obtained in preceding sonography courses with emphasis placed on obstetrical and abdominal sonography. Thirty-two hours of clinical experience per week.

**RSCI 458. Vascular Sonography. (3-2-4); II. Prerequisite:** *successful completion of previous RSCI required courses listed in the curriculum or consent of instructor. Co-requisites: RSCI 428 and 499C.* Application and performance of vascular sonography with emphasis on vascular hemodynamics and peripheral anatomy. Three hours of didactic and two hours of laboratory experience per week.

**RSCI 467. Computed Tomography Practicum I. (0-40-10); II. Prerequisite:** *successful completion of the previous RSCI required courses listed in the curriculum. Co-requisite: RSCI 499C.* Clinical application of technical and professional aspects of computed tomography in a health care setting. The student will be required to demonstrate clinical competency in a number and a variety of procedures as established by the American Society of Radiologic Technologists (ASRT) and the American Registry of Radiologic Technologists (ARRT). Forty hours of clinical experience per week.

**RSCI 470. Sonography Internship III. (0-40-4); III. Prerequisite:**

*uisite: successful completion of previous RSCI 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 radiologic science practitioner. Forty hours of clinical experience per week for four weeks.

**RSCI 477. Computed Tomography Practicum II. (0-40-3); III. Prerequisite:** *successful completion of previous RSCI required courses listed in the curriculum. Co-requisite: RSCI 483.* A continuation of clinical application and professional aspects of computed tomography in a health care setting. The student will be required to demonstrate clinical competency in a number and a variety of procedures as established by the American Society of Radiologic Technologists (ASRT) and the American Registry of Radiologic Technologists (ARRT). Forty hours of clinical experience per week for four weeks.

**RSCI 480. Seminar in Sonography. (2-0-2); III. Prerequisite:** *successful completion of previous RSCI required courses listed in the curriculum or consent of instructor.* A review of diagnostic sonography content with consideration of clinical systems, sonographic patterns, and technical aspects. Two hours of didactic experience per week.

**RSCI 483. Seminar in Computed Tomography. (2-0-2); III. Prerequisite:** *successful completion of previous RSCI required courses listed in the curriculum or consent of instructor. Co-requisite: RSCI 477.* This is designed to assess 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.

**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).** 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).** *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).** *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).** *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).** *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).** *Prerequisite: RUS 301.* Readings in Russian from Lermontov, Turgenyev, Tolstoy, Gogol, Dostoyevski, and others. Assigned read-

ings 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 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. Co-requisite: 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. Crosslisted 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. Co-requisite: SCI 402E.* 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. Crosslisted 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: completion of the minimum general education requirements in sciences and mathematics and admission to TEP.*

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 standing 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. Crosslisted with BIOL 580.

**SCI 591. Science for the Middle School Teacher. (2-2-3); I.** *Prerequisites: student should have completed the minimum general education requirements in sciences and mathematics and be admitted to TEP.* 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 meth-

ods, 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 170. 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 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 205. The Family. (3-0-3); I.** The family in cross-cultural and historical perspective; as a social institution; the impact of economic and social conditions on family values, structure, functions, and roles.

**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. Crosslisted 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. Crosslisted 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.

**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, 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.

**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. Crosslisted 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 maintaining 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. Crosslisted with CRIM 315.

**SOC 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 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.

**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 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.

**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: SOC/CRIM 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. Crosslisted 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: SOC/CRIM 210 and three additional hours of CRIM or consent of instructor.* Cause, treatment, and prevention of crime. Crosslisted with CRIM 401.

**SOC 405. Sociological Theory. (3-0-3); I, II, III.** *Prerequisite: 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 Su-**

**premac. (3-0-3); II.** This course will provide students with 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. Crosslisted 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 SOC/CRIM or consent of instructor.* Fundamental assumptions underlying sociological research; some practical experience in research design, data collection, techniques, and data analysis. Crosslisted with CRIM 450.

**SOC 451. Social Science Data Analysis. (3-0-3); I, II.** *Prerequisite: CRIM 420/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. Crosslisted 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 SOC/CRIM 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 socioeconomic 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. Crosslisted with SWK 545.

**SOC 555. Qualitative Research for the Social Sciences. (3-0-3); on demand.** *Prerequisite: SOC 450 or consent of instructor.* 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 per-

sonality in Appalachia.

## 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 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 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 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 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 300.* 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 300.* 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 303. 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.

**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.

**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 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 320. Hispanic Culture and Civilization. (3-0-3); on demand.** *Prerequisite: SPA 202 or consent of instructor.* Study of the history, art, culture, and everyday life of the Hispanic world.

**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 course 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 discussion 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 405. Linguistics and Language Teaching. (3-0-3); on demand.** *Prerequisites:* SPA 300 and admission to TEP. The application of linguistics to the methodology of teaching 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 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.

### Social Work

**SWK 210. Orientation to Social Work. (3-1-4); I, II.** *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.

**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-Concept 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).** *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. Social Work Theory and Method. (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 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.

**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 prior consent of instructor. This course is designed to provide a comprehensive introduction to child abuse and neglect from a casual 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 Practice Skills I. (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 Practice Skills II. (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. Crosslisted with SOC 451.

**SWK 458. Child Abuse and Neglect Practice Skills. (3-0-3); II.** *Prerequisites:* consent of instructor; SWK 315 and 358. 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 organi-

zation. This course along with SWK 498 and 499C satisfies the integrative component for general education.

**SWK 498. Social Work Practice Skills III. (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. Crosslisted 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 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 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 instructor. 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.** *Prerequisite:* THEA 100 or consent of instructor. To provide inde-

pendent 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 320. Sceneographic and Drawing Techniques. (2-2-3); I. Prerequisite: THEA 210 or consent of instructor.** The study and practice of basic drawing techniques which uniquely apply to theatrical design and mechanical working drawing for stage scenery.

**THEA 321. Stage Lighting. (2-2-3); II. Prerequisite: THEA 210 and 320.** 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 320.** The study of design theories with the creation and development of scene design projects and rendering techniques.

**THEA 325. Stage Costume and History I. (1-4-3); on demand.** Creation of costume design with emphasis on the principles of design and rendering techniques related to historic design.

**THEA 326. Stage Costume and History II. (1-4-3); on demand.** Creation of costume design with emphasis on the principles of design and rendering techniques related to historic design.

**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.** A study of the origins and development of theatre.

**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 380. Play Directing. (3-0-3); II. Prerequisites: THEA 100, 210, and 284, or consent of instructor.** 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.** Advanced study of ballet techniques and profiles of historical dances.

**THEA 484. Styles of Acting. (3-0-3); on demand.** 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 permission 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 instructor.** 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 tech-

niques 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 instructor.** 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 instructor.** 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 instructor.** 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 210, 320, and 322 or consent of instructor.** 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 210, 320 and 322 or consent of instructor.** 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.** 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.

#### Vocational Education

**VOC 207. Foundations of Vocational 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.

#### Welding Technology

**WEL 307. Automated Welding Technology. (2-2-3); on demand.** *Prerequisite:* WEL 386 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.

**WEL 386. Welding I. (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.

#### Women’s Studies

**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 490. Integrative Capstone in Women’s Studies. (3-0-3); II.** 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.

**Contact Information**

<b>For</b>	<b>Who</b>	<b>Where</b>	<b>Phone</b>
Absences	Your college dean		
Academic bankruptcy	Your advisor		
Academic probation	Undergraduate Programs	201 GH	2004
Admission (Graduate)	Graduate Office	701 GH	2039
Admission (Undergraduate)	Office of Admissions	301 HM	2000
Advanced registration (Scheduling)	Your advisor		
Advisor assignment	Your college dean or department chair		
Career counseling	Career Services Director	322 AY	2233
Center for Critical Thinking	Director	Honors House	2813
Center for Academic Advising	Director	222 AY	2084
Center for Academic Services	Director	223 AY	5189
Guidance Counseling	Center for Academic Services	220 AY	2062
Disability Services	Center for Academic Services	214 AY	5188
Learning Lab	Center for Academic Services	208 AY	5200
Tutoring	Center for Academic Services	208 AY	2084
Supplemental Instruction	Center for Academic Services	220 AY	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	5000
Cooperative Education	Your department chair		
Correspondence courses	Distance Learning Support Services Coordinator	408 GH	2082
Counseling services	Counseling and Health Services	112 AY	2123
Credit by examination	Testing Center	501A GH	2526
Degree application	Office of the Registrar	201 GH	2008
Distance Learning Courses	Distance Learning	408 GH	2082
Drop/Add	Your advisor		
Extended Campus Programs	Extended Campus Coordinator	312 AY	2605
Extracurricular activities	Student Activities	ADUC	2071
Fees	Office of Accounting and Budgetary Control	202 HM	2019
Field Career Experiences	Your department chair		
Financial Aid	Financial Aid Office	305 HM	2011
Grades	Your advisor		
Graduation application	Office of Registrar	201 GH	2008
Honors Program	Director	Honors House	2807
Housing	Housing Office	TH	2060
International student advising	Counselor for International Students	330 AY	2096
Learning Lab	Center for Academic Success	208 AY	5200
Library	Library	CCL	2200
Loans	Financial Aid Office	305 HM	2011
Minority Retention/GUSTO	Minority Retention Specialist	227 AY	5195
Minority Student Advising	MSS Coordinator	320 AY	2129

Morehead State University

<b>For</b>	<b>Who</b>	<b>Where</b>	<b>Phone</b>
Minority Teacher Education Program	MTEP Coordinator	319 AY	2833
Multicultural Students Services	Office of Multicultural Student Services	PL (358 Univ. St.)	2668
MSU 101	First Year Program Director	215 AY	2517
Non-traditional and Commuter Counseling	Coordinator Non-Traditional Commuter Services	FH 3	2102
Peer Advising	First Year Program Director	215 AY	2517
Placement Services	Career Services	322 AY	2233
Pool	Acquatics Director	AAC	2391
Professional Lab. Experiences	Teacher Education Coordinator	801 GH	2891
Provisional Studies	Coordinator	213 AY	2084
Records, Access to	Office of Registrar	201 GH	2008
Regional Analysis	Dean	100 LC	5419
Registration (Scheduling classes)	Your advisor		
Repeating a course	Office of the Registrar	201A GH	2008
Residency reclassification	Office of Admissions	301 HM	2000
ROTC	Military Science	308 BA	2050
Scholarships	Financial Aid Office	305 HM	2011
Student employment	Financial Aid Office	305 HM	2011
Student Health Services	Caudill Health Clinic	AY	2055
Student Support Services (TRIO)	Project Director	233 AY	2614
Student teaching	Director of Student Teaching	801 GH	2891
Testing	Testing Coordinator	501A GH	2526
Textbooks	Book Manager	149 East Main St.	2081
Transcripts	Office of the Registrar	201A GH	2008
Transfer of credits	Office of the Registrar	201A GH	2008
TV courses	Distance Learning Support Services Coordinator	408 GH	2082
Veterans Affairs	Office of the Registrar	201A GH	2008
Wellness	Wellness Center	WC	2083
Withdrawals			
From class	Your advisor		
From school	Office of Registrar	201A GH	2008
Women's Studies	Coordinator	204 RA	5414
Workstudy	Financial Aid Office	305 HM	2011
Writing Center	Department of EF&L	402 CB	5101

# Administrative Directory

## **Board of Regents**

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Helen Pennington, West Liberty  
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Jerry Umberger, Ashland

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Dan Connell, Associate Vice President for Academic Outreach and Support  
William E. Hudson, Associate Dean for Academic Support and Retention  
Jack Webb, Director of MSU at Ashland  
Jefferson Edgens, Director of MSU at Jackson  
Margaret Lewis, Director of MSU at Prestonsburg  
Jonell Tobin, Director of MSU at West Liberty  
Phillip M. Hopper, Career Services Director

Morehead State University

**College of Business**

Robert Albert, Dean

Bruce Grace, Interim Chair, Department of Accounting, Economics & Finance

Elizabeth A. Regan, Chair, Department of Information Sciences

Robert Hatfield, Chair, Department of Management, Marketing & Real Estate

**College of Education**

Dan Branham, Dean

Mary Anne Pollock, Chair, Department of Elementary, Reading & Special Education

Paul McGhee, Interim Chair, Department of Leadership & Secondary Education

Dayna Brown, Chair, Department of Health, Physical Education & Sport Sciences

**Caudill College of Humanities**

Michael Seelig, Dean

Robert Franzini, Chair, Department of Art

Robert H. Willenbrink, Chair, Department of Communication & Theatre

Philip Krummrich, Chair, Department of English, Foreign Languages & Philosophy

Yvonne Baldwin, Chair, Department of Geography, Government & History

Christopher Gallaher, Chair, Department of Music

John Karas, Chair, Department of Military Science

Ted Marshall, Chair, Department of Sociology, Social Work & Criminology

**College of Science & Technology**

Gerald DeMoss, Dean

Marilyn Y. Sampley, Associate Dean

R. Lane Cowsert, Chair, Department of Agricultural & Human Sciences

David Magrane, Chair, Department of Biological & Environmental Sciences

Ahmad Zargari, Chair, Department of Industrial Education & Technology

Rodger Hammons, Chair, Department of Mathematical Sciences

Vacant, Chair, Department of Nursing & Allied Health Sciences

Antonino Carnevali, Chair, Department of Physical Sciences

Bruce Mattingly, Chair, Department of Psychology

**Division of Administration & Fiscal Services**

Porter Dailey, Vice President for Administration and Fiscal Services

Michael R. Walters, Associate Vice President for Fiscal Services

Beth Patrick, Associate Vice President for Planning and Technology

Gary Van Meter, Director of Information Technology

Andrea Cornett, Director of Institutional Research and Computer Applications

James Fluty, Director of Accounting & Budgetary Control

Bill Redwine, Director of Auxiliary Services

Roy Biggers, Director of Food Services

Roger Barker, Director of Human Resources

K. Joe Hunsucker, Director of Internal Audits

Dana Baldrige, Director of Payroll

L. Gene Caudill, Director of Physical Plant

William R. Hardin, Director of Support Services

Dan Cornett, Manager of University Golf Course

Elaine Parish, Postmaster

Morehead State University

### **Division of Development & Alumni Relations**

Barbara Ender, Vice President for Development

Mindy C. Highley, Director of Development

Tami B. Jones, Director of Alumni Relations

### **Division of Student Life**

Madonna Weathers, Vice President for Student Life

Myron Doan, Dean of Students

Tim Rhodes, Assistant Vice President for Admissions, Financial Aid, and Housing

Vacant, Director of Athletics

Kenny White, Director of Housing

Francene Botts-Butler, Director of Multicultural Student Services

Douglas M. Brown, Director of Public Safety

### **Division of University Relations**

Keith Kappes, Vice President for University Relations

Jeffrey Liles, Assistant Vice President for Marketing

James M. Gifford, Executive Director, Jesse Stuart Foundation, Inc.

Dan Conti, General Manager, Morehead State Public Radio

Garry Barker, Director of Kentucky Folk Art Center

Don Rigsby, Director of Kentucky Center for Traditional Music

Pauline Young, Director of University Communications

Jami Hornbuckle, Web Marketing Director

Cindy Trent, Document Services Manager

April Nutter, Web Editor

Jeff Spradling, University Editor

### **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

Thomas Creahan, associate professor (1996), Ph.D., University of Cincinnati

Terry Elliott, associate professor (1988), C.P.A., M.S.A., Marshall University

Bruce Grace, assistant professor (1999), Ph.D., Louisiana State University

Ishappa Hullur, associate professor (1989), Ph.D., University of Kentucky

Pam Jones, assistant professor (2001), C.P.A., M.B.A., Mississippi State University

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

\*Mark Phillips, assistant professor (2001), Ph.D., Michigan State University

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, associate professor (1986), Ph.D., University of Cincinnati

\*Joint appointment with IRAPP.

#### **Department of Information Systems**

Bonnie Bailey, assistant professor (1979), M.B.A., Morehead State University

Haiwook Choi, assistant professor (2001), Ph.D., Southern Illinois University

Donna Everett, associate professor (1996), Ed.D., University of Houston

## Morehead State University

G. Ed Harris, assistant professor (2002), Ph.D., Utah State University  
Steven Hunt, professor (1997), Ed.D., University of Georgia  
Abdou Illia, assistant professor (2002), A.B.D., Laural University/Canada  
Hilary Iwu, associate professor (1988), Ph.D., University of Nebraska  
George Kelley, assistant professor (2001), Ph.D., Texas A&M University  
Euijin Kim, assistant professor (2002), A.B.D., Southern Illinois University  
Donna Kizzier, associate professor, (1999), Ed.D., University of Nebraska-Lincoln  
Randy McCoy, assistant professor (1997), Ed.D., University of Georgia  
Elizabeth Regan, associate professor (1998), Ph.D., University of Connecticut  
Scott Wymer, assistant professor (2002), Ph.D., Pennsylvania State University

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

Richard Berry, assistant professor (2001), A.B.D., University of Georgia  
C. Dale Caudill, assistant professor (1980), M.B.A., Morehead State University  
Lary Cowart, associate professor (1997), Ph.D., University of Georgia  
Michael Harford, professor (1988), J.D., Wake Forest University  
Robert D. Hatfield, associate professor (1997), Ph.D., Indiana University, J.D., University of Louisville  
Ken Henderson, assistant professor (2000), Ph.D., Florida State University  
Michelle Kunz, associate professor (1988), Ph.D., University of Tennessee  
Nancy Landrum, assistant professor (2000) Ph.D., New Mexico State University  
Barbara Lyons, assistant professor (2001), A.B.D., Griffith University, Brisbane, Australia  
Mary Peggy Osborne, associate professor (1979), A.B.D., University of Kentucky  
M. Shane Spiller, assistant professor (2002), Ph.D., University of Alabama  
George Tanner, assistant professor (2001), A.B.D., University of Missouri-Columbia  
James Turner, assistant professor (1999), Ph.D., Louisiana Tech University

## **College of Education**

### **Department of Elementary, Reading & Special Education**

Shirley Blair, associate professor (1970), A.M., Morehead State University  
Kent Freeland, professor (1977), Ph.D., University of Iowa  
Daniel Grace, associate professor (1986), Ph.D., University of Oregon  
Diana Haleman, assistant professor (2000), Ed.D., University of Kentucky  
Karen Hammons, assistant professor (1972), M.A., Morehead State University  
James Knoll, professor (1994), Ph.D., Syracuse University  
Karen Lafferty, assistant professor (1997), Ed.D., Indiana University of Pennsylvania  
Wanda Letendre, associate professor (1999), Ed.D., West Virginia University  
Edith Lombardo, associate professor (2001), Ed.D., West Virginia University  
Paul R. McGhee, professor (1983), Ph.D., Syracuse University  
Timothy Miller, associate professor (1988), Ed.D., Ball State University  
Adele Moriarty, assistant professor (1996), Ed.D., University of Alabama  
Anna Pennell, assistant professor (2002), M.A., University of North Carolina  
David Peterson, associate professor (1991), Ed.D., East Tennessee State University  
Mary Anne Pollock, associate professor (1977), Ed.D., University of Kentucky  
Dreama Price, assistant professor (1974), A.M., Morehead State University  
Edna Schack, associate professor (1987), Ed.D., Illinois State University  
Markham Schack, professor (1987), Ed.D., Oklahoma State University  
Mee-Ryoung Show, assistant professor (2001), Ph.D., Texas A&M University  
Melinda Willis, associate professor (1996), Ed.D., University of Kentucky  
Wayne Willis, professor (1988), Ph.D., University of Oklahoma

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

Dayna Brown, associate professor (1989), Ed.D., University of Kentucky  
Jason Crandall, assistant professor (2002), M.A., University of Northern Colorado

## Morehead State University

Lynne Elizabeth Fitzgerald, associate professor (1986), Ed.D., Temple University  
Robert Grueninger, professor (1989), Ph.D., University of Oregon  
Teresa Hardman, associate professor (1995), Ph.D., Southern Illinois University  
Sarah Levin, assistant professor (2002), Ph.D., University of South Carolina  
Monica A. Magner, associate professor (1991), Ed.D., West Virginia University  
Maruice Martin, assistant professor (2001), Ph.D., University of South Carolina  
John Newsome, assistant professor (1999), Ed.D., Humboldt State University  
Reginald Overton, assistant professor (1996), Ed.D., Temple University  
Manuel Probst, assistant professor (2000), Ed.D., University of Kentucky

### **Department of Leadership & Secondary Education**

Lola Aagaard-Boram, assistant professor (2001), Ph.D., University of Oklahoma  
Deborah Abell, associate professor (1995), Ph.D., Indiana State University  
Victor Ballestero, assistant professor (1998), Ed.D., University of Kentucky  
David Barnett, assistant professor (2002), Ed.D., University of Kentucky  
James Canipe, assistant professor (2000), Ph.D., University of Tennessee  
Rosemarie Gold, highly skilled educator, M.A., Morehead State University  
Beverly Klecker, assistant professor (2001), Ph.D., Ohio State University  
Lesia Lennex, associate professor (1996), Ed.D., University of Tennessee  
Dean Owen, professor (1977), Ph.D., University of Florida  
Ross Owen, assistant professor (2000), Ed.D., University of Tennessee  
Ron Skidmore, assistant professor (1999), Ph.D., University of Kentucky  
Wanda L. Staley, associate professor (1992), Ph.D., Kent State University  
Timothy Thomas, assistant professor (2002), Ph.D., University of Virginia

## **Caudill College of Humanities**

### **Department of Art**

David Bartlett, professor (1980), 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  
Julie Gawne, assistant professor (2001), M.F.A., Northern Illinois University  
Deeno Golding, associate professor (1994), M.F.A., Savannah College of Art and Design  
Joy Gritton, associate professor (1997), Ph.D., UCL A  
Elizabeth Mesa-Gaido, associate professor (1994), M.F.A., Ohio University  
Gary Mesa-Gaido, associate professor (1994), M.F.A., Ohio University  
Emma Perkins, assistant professor (2000), A.B.D., University of Kentucky  
Stephen Tirone, associate professor (1982), M.F.A., University of Wisconsin

### **Department of Communication & Theatre**

Lawrence S. Albert, professor (1986), Ph.D., Pennsylvania State University  
Timothy Ashmore, assistant professor (1998), Ph.D., University of Utah  
Joan Atkins, assistant professor (1992), M.A., Morehead State University  
Michael Biel, professor (1978), Ph.D., Northwestern University  
Elizabeth Noel Earl, assistant professor (1991), Ph.D., Ohio 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  
Gary LaFleur, associate professor (1994), Ph.D., University of Massachusetts at Amherst  
William J. Layne, professor (1987), Ph.D., Northwestern University  
Calvin O. Lindell, assistant professor (1985), M.A., Abilene Christian University  
Travis Lockhart, professor (1982), Ph.D., University of Texas  
John V. Modaff, associate professor (1987), Ph.D., Southern Illinois University



## Morehead State 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  
Shirley Serini, assistant professor (2001), Ph.D., University of Iowa  
Cathy Thomas, associate professor (1994), Ph.D., Ohio University  
Robert H. Willenbrink, professor (2002), Ph.D., Bowling Green State University

### **Department of English, Foreign Languages & Philosophy**

Ann M. Adams, assistant professor (1998), Ph.D., Bowling Green State University  
Vincente Cano, professor (1985), Ph.D., University of Georgia  
C. Glen Colburn, associate professor (1991), Ph.D., University of Texas at Austin  
Scott A. Davison, associate professor (1995), Ph.D., University of Notre Dame  
George Eklund, associate professor (1989), M.F.A., University of Iowa  
Eugene B. Hastings, professor (1989), Ph.D., University of Texas  
Frances L. Helphinstine, professor (1966), Ph.D., Indiana University  
Sylvia Henneberg, assistant professor (1998), Ph.D., University of Georgia  
Terry L. Irons, associate professor (1993), Ph.D., University of Missouri  
Philip Krummrich (2002), professor, Ph.D., University of Illinois  
George M. Luckey, professor (1961), Ph.D., Southern Illinois University  
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  
Mary M. Netherton, associate professor (1964), M.A., University of Kentucky  
L. Layne Neeper, associate professor (1993), Ph.D., Pennsylvania State University  
Wendell O'Brien, associate professor (1992), Ph.D., Johns Hopkins University  
Betty H. Peters, assistant professor (1975), Ed.S., Morehead State 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  
Jack L. Weir, professor (1990), Ph.D., Southwestern Theological Seminary

### **Department of Geography, Government & History**

#### **Geography**

\*Holly Barcus, assistant professor (2001), Kansas State University  
Royal Berglee, assistant professor (2000), Ph.D., Indiana State University  
Jason Halcomb, assistant professor (2000), Ph.D., Kansas State University  
Gary O'Dell, assistant professor (2001), ABD, University of Kentucky  
\*Steven Parkansky, assistant professor (1999), Ph.D., State University of New York

#### **Government and Paralegal Studies**

Lindsey R. Back, professor (1974), Ph.D., University of Tennessee  
Ric Caric, associate professor (1990), Ph.D., University of North Carolina  
Gregory T. Goldey, assistant 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), University of Delaware  
Stephen Herzog, assistant professor (1996), J.D., Chase College of Law  
Dianna Murphy, assistant professor (1996), J.D., University of Kentucky  
\*Suzanne Robbins, assistant professor (2001), Ph.D., State University of New York

#### **History**

Yvonne Baldwin, associate professor (1992), Ph.D., University of Kentucky  
Jeffrey Dennis, assistant professor (2001), A.B.D., University of Notre Dame  
Susan Eacker, assistant professor (1996), Ph.D., Miami University  
John Ernst, associate professor (1995), Ph.D., University of Kentucky  
John Hennen, assistant professor (1996), Ph.D., West Virginia University

Morehead State University

Thomas Kiffmeyer, assistant professor (2000), Ph.D., University of Kentucky

Adrian Mandzy, assistant professor (2001), Ph.D., York University

Alana Scott, associate professor (1995), Ph.D., Florida State University

*\*Joint appointment with IRAPP*

**Department of Military Science**

Scott Anderson, Sergeant, assistant chief instructor (2000)

Michael L. Campbell, Master Sergeant, chief instructor (1999)

Jerome A. Hughes, assistant chief instructor (2000)

Hollis D. Isham, Major, assistant professor (1999), M.A., Troy State University

John H. Karaus, Lieutenant Colonel, professor (2000), M.M.S., U.S. Army Command and General Staff College

Joseph R. Odell, Captain, assistant professor (2002) B.S., USMA West Point

**Department of Music**

Michael D. Acord, assistant professor (1989), M.Mus., Michigan State University

Stacy A. Baker, associate professor (1996), D.M.A., University of Michigan

Suanne H. Blair, assistant professor (1969), M.Mus., University of Southern California

Susan D. Creasap, associate professor (1996), D.A., Ball State University

Greg J. Detweiler, assistant professor (1998), D.M.A., University of Illinois at Urbana-Champaign

Christopher S. Gallaher, professor (1972), Ph.D., Indiana University

James B. Geiger, keyboard technician (1999), Diploma, University of Cincinnati College-Conservatory of Music

Larry Curtis Hammond, associate professor (1993), D.M.A., Florida State University

Larry W. Keenan, professor (1967), M.Mus., Indiana University

Jeanie K. Lee, assistant professor, (2000), D.M., University of Michigan

Ricky R. Little, associate professor (1995), D.M.A., Ohio State University

Brian S. Mason, instructor (2000), M.Mus., University of Nevada at Las Vegas

Richard Miles, professor (1985), Ph.D., Florida State University

Eugene C. Norden, assistant professor (1968), M.M., Morehead State University

Frank Oddis, associate professor (1977), M.Mus., East Carolina University

David William Oyen, assistant professor (1999), D.M.A., Ohio State University

Roma Prindle, associate professor (1993), D.M.A., Hartt School of Music

Robert D. Pritchard II, associate professor (1972), Mus. A.D., Boston University

Raymond P. Ross Jr., assistant professor (1978), M.Mus., University of North Texas

Steven D. Snyder, assistant professor (2001), M.Mus., University of North Texas

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.A., Indiana University

**Department of Sociology, Social Work & Criminology**

Edward Breschel, assistant professor (1994), Ph.D., Duke University

Robert A. Bylund, professor (1979), Ph.D., Pennsylvania State University

Stephen L. Eliason, assistant professor (1998), Ph.D., Oklahoma 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

Constance L. Hardesty, associate professor (1994), Ph.D., University of Kentucky

\*Christopher Hensley, assistant professor (1999), Ph.D., Mississippi State University

Mary Margaret Just, assistant professor (1998), Ph.D., University of Texas

Rebecca Katz, associate professor (1995), Ph.D., University of Oklahoma

John Lott, III, assistant professor (1997), M.S.W., University of Kentucky

Ted A. Marshall, professor (1977), M.S.W., University of Kentucky

Clarenda Phillips, assistant professor (2000), Ph.D., University of Illinois

\*Edward Reeves, professor (1984), Ph.D., University of Kentucky

## Morehead State University

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

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**

Donald Lyn Applegate, associate professor (1984), D.V.M., Auburn University

Vivian Barnes, assistant professor (1984), M.S., Morehead State University

Robert Lane Cowsert, professor (1994), Ph.D., University of Tennessee at Knoxville

Jane Ellington, associate professor (1981), M.S., University of Kentucky

Debby A. Johnson, associate professor (1988), Ph.D., University of Kentucky

Barbara Lewis, assistant professor (1981), M.A., C.V.T., Morehead State University

Brenda Malinauskas, associate professor (1997), Ph.D., Auburn University

Madeline Murphy, instructor (2000), M.S., Virginia State University

Michael Pettitt, Horticulture Supervisor (1999), B.S., Morehead State University

\*Mark Phillips, assistant professor (1997), Ph.D., Michigan State University

Phillip E. Prater, assistant 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

Erin Siegel, Equestrian Coach (1998), B.A., Miami University

Judith G. Willard, associate professor (1977), Ph.D., University of Kentucky

Edward T. Lundergan, farm manager (1982), M.A., Morehead State University

Joseph C. Fraley, assistant farm manager (1997), B.S., Morehead State University

*\*Joint appointment with IRAPP.*

#### **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, assistant professor (1997), Ph.D., Southern Illinois University

Geoffrey W. Gearer, professor (1990), Ph.D., Texas A & M University

Malinda B. McMurry, Animal Care Technician (1994), M.S., Texas A & M University

David T. Magrane, professor (1976), Ph.D., University of Arizona

Leslie E. Meade, professor (1971), Ph.D., University of Southern Mississippi

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, associate professor (1996), Ph.D., University of Tennessee

David J. Saxon, professor (1967), Ph.D., Southern Illinois University

David P. Smith, assistant professor (1997), Ph.D., University of North Texas

Cynthia L. Trombino, assistant professor (2000), Ph.D., Northern Illinois University

Craig A. Tuerk, associate professor (1993), Ph.D., University of Colorado

Carol L. Wymer, assistant 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)

## Morehead State University

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 Industrial Education & Technology**

William R. Gris , associate professor (1994), Ph.D., University of Texas  
Dennis Karwatka, professor (1970), M.S., Indiana State University  
Patrick Sam Mason, instructor (2002), M.S., Morehead State University  
Wayne A. Morella, professor (1971), Ph.D., Southern Illinois University  
Edward G. Nass, associate professor (1963), M.S.Ed., Northwestern State College of Louisiana  
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  
Ahmad Zargari, associate professor (1994), Ph.D., Bowling Green State University

### **Department of Mathematical Sciences**

Dora Cardenas Ahmadi, associate professor (1995), Ph.D., University of Oklahoma  
Sue Beck, instructor (1997), M.A., Morehead State University  
Richard Blanton, instructor (2000), M.S., Marshall University  
Kristin Cebulla, assistant professor (2002), A.B.D., University of Iowa  
Douglas Chatham, assistant professor (2001), Ph.D., University of Tennessee  
Vivian Flora Cyrus, associate professor (1994), 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  
Patricia Hardin, instructor (2000), M.S. Morehead State University  
Michael Howard, instructor (2002), B.S., Morehead State University  
Lloyd R. Jaisingh, professor (1985), Ph.D., Texas Tech University  
Charlie Jones, instructor (2001), M.A., Morehead State University  
Kathryn M. Lewis, assistant 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  
Ted M. Pack, instructor (1980), AMED, Morehead State University  
David Pollitte, instructor (2002), AMED, Morehead State University  
Randy K. Ross, associate professor (1986), M.A., Marshall University  
Chris Schroeder, assistant professor (2002), Ph.D., Kansas State University  
Daniel L. Seth, associate professor (1991), Ph.D., Texas Tech University  
Duane Skaggs, instructor (1998), M.A., University of Kentucky

### **Department of Nursing & Allied Health Sciences**

Alta Blair, associate professor (1984), M.S.N., University of Tennessee  
Mattie Burton, associate professor (1996), M.S.N., University of Kentucky  
Cheryl Clevenger, associate professor (1990), M.S.N., University of Kentucky  
Marcia J. Cooper, associate professor (1994), M.S.R.S., Midwestern State University  
Donna Corley, associate professor (1992), M.S.N., University of Kentucky  
Jacklynn K. Darling, associate professor (1979), M.S., Morehead State University  
Yan Duan, associate professor (1997), M.S.N., University of Manitoba  
Barbara L. Dehner, associate professor (1982), M.S.R.S. Midwestern 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, assistant professor (1998), M.S.R.S., Midwestern State University  
Janet Gross, professor (1983), D.S.N., University of Alabama at Birmingham

## Morehead State University

Teresa Howell, assistant professor (1999), M.S.N., University of Kentucky  
Freda Kilburn, professor (1985), D.S.N., University of Alabama at Birmingham  
Marshia Clay Lewis, assistant professor (1990), M.S.N., University of Kentucky  
Linda McNabb, assistant professor (1989), B.S.N., University of Kentucky  
Lucille Mays, assistant professor (1990), M.S.N., University of Kentucky  
Michelle A. Walters, assistant professor (2002), M.S.N., University of Kentucky  
Brenda Wilburn, associate professor (1992), M.S.N., Marshall University

### **Clinical Faculty**

Betty Addington, Sonography (Highlands Regional Hospital)  
Joe Akers, Radiography (Hazard ARH)  
Bret Akins, Radiography (University of Kentucky Chandler Medical Center)  
Debbie Arnett, Sonography (Kings Daughters Medical Center)  
Anne Bailey, Sonography (Our Lady of Bellefonte)  
Lynn Beck, Sonography (St. Elizabeth Medical Center)  
Barbara Beeghly, Sonography (St. Elizabeth Medical Center)  
Melanie Collins, Sonography (Kentucky River Medical Center)  
Steven Combs, Radiography (Lake Cumberland Regional Hospital)  
Tim Damron, Sonography (Mary Chiles Hospital)  
Marla Dyer, Sonography (St. Luke Hospital West)  
Stephanie Estep-Frye, Radiography (Frankfort Regional Medical Center)  
Leslie Faust, Radiography (Frankfort Regional Medical Center)  
Allison Fultz, Radiography (St. Claire Medical Center)  
Theresa Hollan, Sonography (St. Claire Medical Center)  
Dee Howard, Sonography ((Kings Daughters Medical Center)  
David Huffman, Computed Tomography (Kings Daughters Medical Center)  
Melissa Hutchinson, Sonography (Sciota Valley Women's Center)  
Lonnie Knauss, Computed Tomography (University of Kentucky Chandler Medical Center)  
David Leach, Radiography (Morgan County ARH)  
Tim Martin, Radiography (Pikeville United Methodist Hospital of Kentucky)  
Carol McCord, Sonography (Maysville OB/GYN Assoc.)  
John Meade, Radiography (Highlands Regional Medical Center)  
Patty Meade, Radiography (Pattie A. Clay Hospital)  
Kenneth Myers, Computed Tomography (Pikeville United Methodist Hospital of Kentucky)  
Jennifer Pack, Radiography (Mary Chiles Hospital)  
Angela Rogers, Sonography (Pattie A. Clay Hospital)  
Tamara Ramsey, Sonography (Jewish Hospital)  
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Gary Dunn, offensive coordinator (1997), A.B., California University  
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David L. Anderson, associate professor of music  
Reedus Back, professor of education  
Woodrow W. Barber, associate professor of biology  
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James Beane, associate professor of music  
Joe F. Bendixen, professor of agriculture  
Earl Bentley, professor of HPER  
Ray Bernardi, professor of business education  
M. Adele Berrian, professor of psychology  
William M. Bigham, professor of music  
Jack E. Bizzel, professor of government  
Harold Leo Blair, associate professor of music  
Bill Booth, professor of art  
James Bragg, associate professor of music  
Russell M. Brengelman, professor of physics  
Laradean Brown, assistant professor of HPER  
W. Michael Brown, associate professor of HPER  
David M. Brumagen, professor of biology  
Janice Brumagen, associate professor of nursing  
Roland Burns, professor of geography

Fred M. Busroe, associate professor of biology  
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  
Lola Crosthwaite, associate professor of social work  
David Cutts, professor of physics  
Larry Dales, assistant professor of journalism  
Richard Daniel, professor of education  
Bernard Davis Kilpatrick, 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  
John R. Duncan, professor of education  
Johnson E. Duncan, professor of music

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Ronald L. Fiel, professor of science  
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Donald Flatt, professor of history  
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Robert Gould, professor of geography  
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Oval Hall, assistant professor of education  
Bernard G. Hamilton, assistant professor of German  
Coleene Hampton, instructor of education  
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Jack Henson, instructor of business education  
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Jerry F. Howell, Jr., professor of biology  
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Glenn Johnston, professor of mathematics  
Charlie L. Jones, associate professor of mathematics  
Roger Jones, professor of art  
John Kleber, professor of history  
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 Clark D. Wotherspoon, professor of education  
 Thom Yancy, associate professor of communication  
 Don B. Young, assistant professor of art  
 Stephen Young, professor of education


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

		HEA - Title II 1999-2000 Academic Year					
Institution Name	MOREHEAD STATE UNIVERSITY						
Institution Code	1487						
State	Kentucky						
Number of Program Completers Submitted	230						
Number of Program Completers Found, Matched, and used in passing rate Calculations <sup>1</sup>	226						
Type of Assessment	Assessment Code Number	Number Taking Assessment	Number Passing Assessment	Institutional Pass Rate	Number Taking Assessment	Number Passing Assessment	Statewide Pass Rate
<b>Academic Content Areas</b>							
ELEM ED CURR INSTRUC ASSESSMENT	011	106	101	95%	1084	1045	96%
ENG LANG LIT COMP CONTENT KNOWLEDGE	041	13	12	92%	144	136	94%
ENG LANG LIT COMP ESSAYS	042	13	11	85%	138	128	93%
MIDDLE SCHOOL ENGLISH LANGUAGE ARTS	049	9	9		115	115	100%
MATHEMATICS: CONTENT KNOWLEDGE	061	6	6		68	66	97%
MATH PROOFS MODELS PROBLEMS PART 1	063	6	6		64	59	92%
MIDDLE SCHOOL MATHEMATICS	069	10	10	100%	97	96	99%
SOCIAL STUDIES: CONTENT KNOWLEDGE	081	10	9	90%	151	136	90%
SOCIAL STUDIES: INTERPRET MATERIALS	083	10	10	100%	141	138	98%
MIDDLE SCHOOL SOCIAL STUDIES	089	15	14	93%	145	143	99%
PHYSICAL ED: CONTENT KNOWLEDGE	091	9	9		98	87	89%
PHYSICAL ED ANALYSIS AND DESIGN	092	9	9		96	94	98%
BUSINESS EDUCATION	100	10	8	80%	72	67	93%
MUSIC CONCEPTS AND PROCESSES	111	17	15	88%	94	77	82%
MUSIC CONTENT KNOWLEDGE	113	17	17	100%	94	92	98%
ART MAKING	131	6	6		53	47	89%
ART CONTENT KNOWLEDGE	133	6	6		53	51	96%
FRENCH PRODUCTIVE LANGUAGE SKILLS	171				5	5	
FRENCH CONTENT KNOWLEDGE	173				6	6	
GERMAN CONTENT KNOWLEDGE	181				5	5	
SPANISH CONTENT KNOWLEDGE	191	1	1		18	15	83%
SPANISH PRODUCTIVE LANGUAGE SKILLS	192	1	1		18	12	67%
BIOLOGY CONTENT KNOWLEDGE PART 1	231	6	6		63	59	94%
BIOLOGY CONTENT ESSAYS	233	6	6		62	62	100%
CHEMISTRY CONTENT KNOWLEDGE	241				15	13	87%
PHYSICS CONTENT KNOWLEDGE	261	2	2		6	6	
GENERAL SCI CONTENT KNOWL PART 2	432	2	2		21	20	95%

February 14, 2001

<sup>1</sup>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

		<b>HEA - Title II 1999-2000 Academic Year</b>					
Institution Name	MOREHEAD STATE UNIVERSITY						
Institution Code	1487						
State	Kentucky						
Number of Program Completers Submitted	230						
Number of Program Completers found, matched, and used in passing rate Calculations <sup>1</sup>	226						
February 14, 2001							
Type of Assessment	Assessment Code Number	Number Taking Assessment	Number Passing Assessment	Statewide			
				Institutional Pass Rate	Number Taking Assessment	Number Passing Assessment	Statewide Pass Rate
MIDDLE SCHOOL SCIENCE	439	5			72	71	99%
LATIN	600				1		
<b>Other Content Areas</b>							
TECHNOLOGY EDUCATION	050	1			7		
HOME ECONOMICS EDUCATION	120	3			17	17	100%
LIBRARY MEDIA SPECIALIST	310				10	8	80%
HEALTH EDUCATION	550	7			51	49	96%
AGRICULTURE	700	5			35	33	94%
<b>Teaching Special Populations</b>							
ED OF DEAF & HARD OF HEARING	271				6		
SE STUDENTS W/MENTAL RETARDATION	321	9			19	19	100%
SPEECH-LANGUAGE PATHOLOGY	330				63	62	98%
SE APPLIC OF CORE PRINCIPLES ACROSS	352	28	27	96%	253	236	93%
SE BEHAVIORAL/EMOTIONAL	371	19	17	89%	156	137	88%

<sup>1</sup>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.

## 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 post-secondary education.
2. "Institutions of post-secondary 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

1. 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 - 2002**

		<b>August</b>			<b>October</b>
14	Wednesday	- Campus-wide Convocation; division, college, and departmental meetings; - Business Days only	11	Friday	- First half semester classes end - Mid-term grade reports due in Registrar's office by 9:00 a.m.
15	Thursday	- Class scheduling in academic departments - Business Days	14	Monday	- Second half semester classes begin - Last day to add a second half semester class
16	Friday	- Class scheduling in academic departments - Business Days	30	Wednesday	- Last day to drop a full-term course or withdraw from school with an automatic grade of "W"
19	Monday	- All on-campus and off-campus classes begin - Late fee in effect	4	Monday	<b>November</b> - Advance Registration for Spring 2003
23	Friday	- Last day for 75% refund of refundable fees (partial or full withdrawal)	7	Thursday	
26	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	15	Friday	- Last day to drop a second half semester class with a grade of "W"
2	Monday	<b>September</b> - Labor Day (no day or night classes, no office hours)	27	Wednesday	<b>December</b> - Thanksgiving Break (no classes)
10	Tuesday		- Last day for 50% refund of refundable fees (partial or full withdrawal)	29	
17	Tuesday	- Last day for 25% refund of refundable fees (partial or full withdrawal) - Last day to withdraw from a first half semester class with an automatic grade of "W"	9	Monday	- FINAL EXAMINATIONS
			10	Tuesday	
			11	Wednesday	- Reading day for final exams (no classes)
			12	Thursday	- FINAL EXAMINATIONS
			13	Friday	
			14	Saturday	- Commencement, 10:30 a.m.
			16	Monday	- Grades due in Registrar's Office by 9:00 a.m.

**Spring Semester - 2003**

			7	Friday	- First half semester classes end
		<b>January</b>			
8	Wednesday	- Campus-wide Convocation; division, college, and department meetings; -Business Days only	10	Monday	- Mid-term grade reports due in Registrar's Office by 9:00 a.m.; - Second half semester classes begin - Last day to add a second half semester class
9	Thursday	- Class scheduling in academic departments; - Business Days	24	Monday	- Spring Break (no classes)
			28	Friday	
10	Friday	- Class scheduling in academic departments; - Business Days			
					<b>April</b>
			2	Wednesday	- Last day to drop a full-term course or withdraw from school with an automatic grade of "W"
13	Monday	- All on-campus and off-campus classes begin - Late fee in effect	7	Monday	- Advance Registration for Summer I, II, and Fall 2003
			10	Thursday	
17	Friday	- Last day for 75% refund of refundable fees (partial or full withdrawal)	11	Friday	- Last day to drop a second half semester class with a grade of "W"
20	Monday	-Martin Luther King Jr. Day (no classes)			
			5	Monday	<b>May</b> - FINAL EXAMINATIONS
			6	Tuesday	
22	Wednesday	-Last day to register for credit, add a class or change sections; change from audit to credit, change from credit to audit, and change to pass-fail option	7	Wednesday	- Reading day for final exams (no classes)
			8	Thursday	- FINAL EXAMINATIONS
			9	Friday	
		<b>February</b>			
3	Monday	- Last day for 50% refund of refundable fees (partial or full withdrawal)	10	Saturday	- Commencement, 10:30 a.m.
			12	Monday	- Grades due in Registrar's Office by 9:00 a.m.
10	Monday	- Last day for 25% refund of refundable fees (partial or full withdrawal) - Last day to withdraw from a first half semester class with an automatic grade of "W"			

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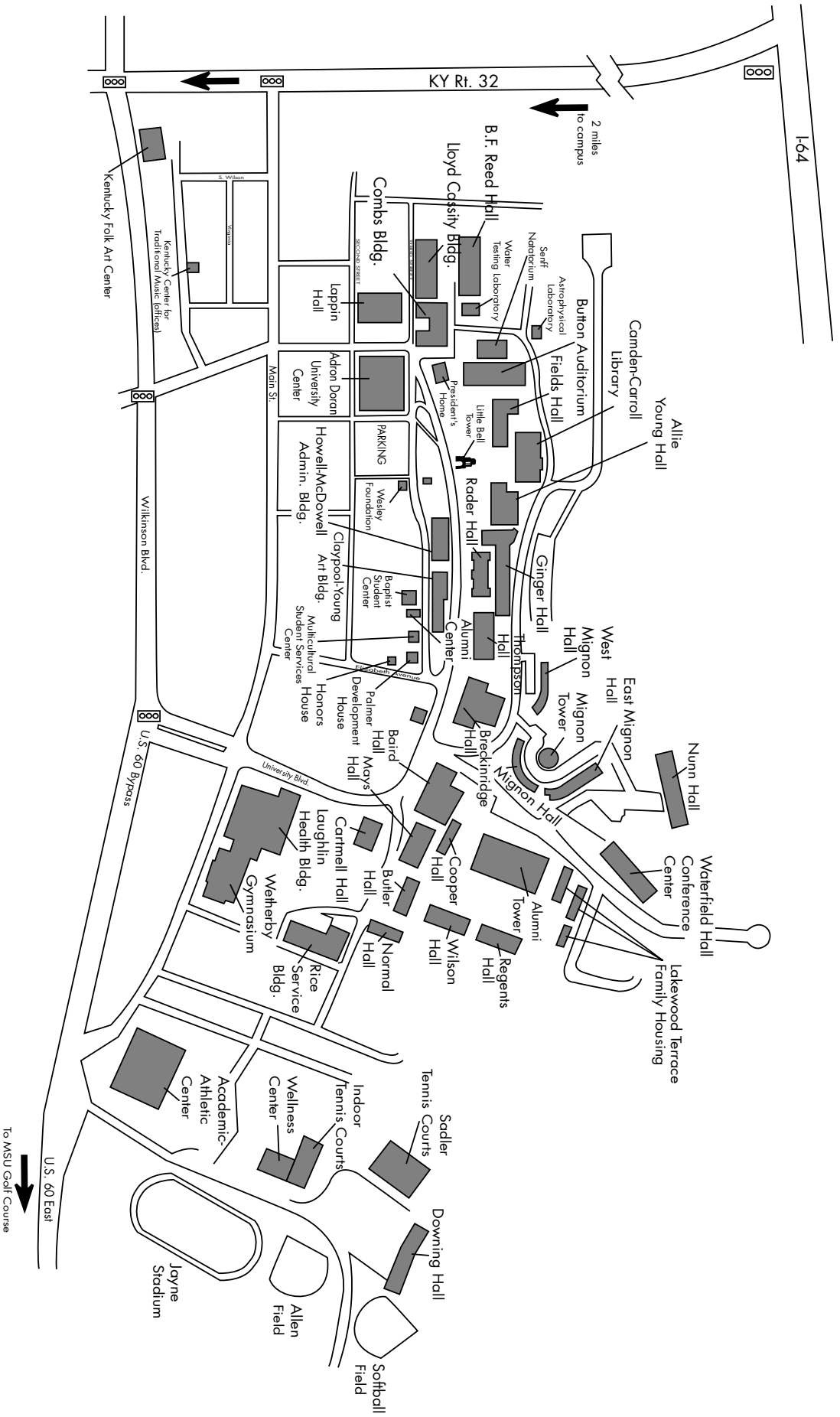
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