



# Morehead State University Undergraduate Catalog

1994-95

# Undergraduate Catalog 1994-95

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## How to Use This Catalog

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This catalog is the official source of information about the 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 table of contents and 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; 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 and department 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 further information, check with the Office of Academic Affairs, MSU, 205 Howell-McDowell Administration Building, Morehead, KY 40351-1689, telephone (606)783-2002.

# Morehead State University

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- Accreditation** Morehead State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools  
American Veterinary Medical Association  
Council on Social Work Education--Baccalaureate Level  
Joint Review Committee on Education in Radiologic Technology  
National Association of Schools of Music  
National Council for the Accreditation of Teacher Education  
National League of Nursing
- American Bar Association approval of Paralegal Studies Program
- Membership** American Assembly of Collegiate School of Business  
American Association of Colleges for Teacher Education  
American Association of State Colleges and Universities  
American Council on Education  
Conference of Southern Graduate Schools  
National Commission on Accreditation  
National League for Nursing  
Southern Regional Education Board  
The Council of Graduate Schools in the United States  
Council for the Advancement and Support of Education
- Volume** 57  
**Date** August 1994
- Toll Free Number** 1-800-585-6781
- Changes** Morehead State University reserves the right to change its academic regulations, policies, fees, and curricula without notice by action of the Kentucky Council on Higher Education and/or the Morehead State University Board of Regents.
- Equal Opportunity** 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 handicaps 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. Inquiries should be addressed to Affirmative Action Officer, Morehead State University, 101 Howell-McDowell Ad. Bldg., Morehead, KY 40351-1689.
- Printing** This catalog was prepared by Morehead State University and printed with state funds KRS 57.375.

# Foreword

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Morehead State University's 500-acre Eastern Kentucky campus is bordered to the north by the gently rolling foothills of the Daniel Boone National Forest. To the South, the campus is bordered by the shopping district of Morehead, a thriving city of about 10,000 which lies midway between Lexington and Ashland on Interstate 64. The University's educational facilities include more than 50 major structures in a variety of contemporary and traditional architectural styles, a 320-acre experimental farm, a nine-hole golf course, and a 50-acre outdoor learning center at Cave Run Lake.

With a coeducational enrollment of approximately 8,800 and a full-time teaching faculty of 350, the university offers 96 undergraduate degree programs and ten pre-professional programs of study. It draws students from throughout the United States and several foreign countries to participate in its diverse academic and extracurricular life.

Morehead State University's Mission Statement adopted January 19, 1977, and refined December 15, 1993, by the Council on Higher Education is:

"Morehead State University shall serve as a comprehensive, regionally focused university providing high-quality instruction at the undergraduate and master's degree levels.

Geographic Region. Its programs shall serve primarily the citizens of northeastern and eastern Kentucky.

Institutional Admission Standards. Morehead State University shall admit students to the institution under selective admission standards which exceed the minimum guidelines established by the Council on Higher Education, with only limited exceptions. Institutional guidelines shall be consistent with the systemwide policy for admitting underprepared students, including the removal of academic deficiencies within a specified timeframe. Through this approach, the University seeks to provide both broad access and high quality programs.

Degree Levels. The University shall offer selected baccalaureate degree programs and selected associate degree programs to meet the educational, economic, and cultural needs of the region. Subject to demonstrated need, selected master's degree programs as well as specialist programs in education shall be offered.

Strategic Directions/Program Priorities. Recognizing the uniqueness of its service region, the University shall

stress teacher-preparation programs. Based on constituent needs and on the academic strengths of Morehead State University, academic priorities in addition to programs in the traditional collegiate and liberal studies areas shall include business, nursing and allied health sciences, and fine arts. These strategic priorities translate into a core of liberal arts baccalaureate degree programs, in addition to degree program priorities at the associate [A], baccalaureate [B], master's [M], and education specialist [S] levels that may include the following:--[relevant categories from the Classification of Instruction Programs by level are included in brackets]--education [B, M, S - 13]; communications [M - 09]; English and literature [B, M - 23]; biological sciences [M - 26]; psychology [M - 42]; social sciences [B, M - 45]; business [A, B, M - 52]; nursing and allied health sciences [A, B, M - 51]; fine arts [B, M - 50].

Enhancement of Instruction. Morehead State University recognizes teaching and meeting the academic needs of students as its paramount responsibilities.

Service and Research Functions. The University shall create centers to facilitate applied research, organized public service, and continuing education directly related to the needs of business, industry, and the local schools in the primary service region.

Collaborative Ventures. Emphasis shall be placed on developing and delivering cooperative programming with other higher education institutions and area school systems as well as partnerships with business and industry. The University shall develop and employ technological resources to communicate with other institutions in the fulfillment of its mission. Student advising, articulation agreements, curriculum development, and electronic technology will be employed to facilitate transfer of credits from other institutions toward degree completion.

Efficiency and Effectiveness. Morehead State University shall promote cost effectiveness in academic programming and institutional management. Strategic planning results in the elimination of duplicative and unproductive programs is essential while the development of carefully selected new programs compatible with this mission is appropriate. Measures of quality and performance shall be the foundation of the University's accountability system which promotes continuous improvement of programs and service."

## Admissions, 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 in 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 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 Admissions 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 admissions requirements for 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, or toll free 1-800-585-6781. You are encouraged to visit the campus before registering 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 with the Office of Admissions.

Completion of admission requirements generally allows you to enroll in any program at Morehead State University. However programs in nursing, radiologic technology, veterinary technology, and teacher education require additional procedures. For additional information for entering these programs contact the Office of Admissions.

Requirements for admission for high school graduate, GED recipients, transfer students, returning students, international students, special students, and auditors are explained below.

### 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 Pre-College Curriculum requirements established by the Kentucky Council on Higher Education and have a minimum admission index of 400. The admission index is a numerical score determined by computing the cumulative grade-point average (g.p.a. must be 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. Adult-student applicants (21 years of age or older) may substitute results of the Career Planning and Placement test (CPP-II) for ACT or SAT results if pursuing an associate degree.

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, SAT, or CPP-II results, and (3) a final high school transcript after high school graduation. All applicants for four year degree programs must meet the Pre-College Curriculum for unconditional admission to the University. Applicants who do not meet the PCC requirements are eligible to be admitted "Conditionally." Students who are admitted conditionally must take specified courses to remove PCC deficiencies. Removal of PCC deficiencies will be monitored by the Office of the Dean of Undergraduate Programs. Associate degree applicants do not need to meet PCC for admission. Nevertheless, their PCC deficiencies 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 Academic Services Center under the oversight of the Dean of Undergraduate Programs 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 degree admission to the University. For continued matriculation at the University, degree admissions standards must be met within a period of time specified by the Academic Services Center. (See Provisional Studies Program, pg. 09)

**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 Admission: (1) a completed Undergraduate Admission and Scholarship Application, (2) the GED scores, (3) the High School Equivalency Certificate, and (4) official ACT, SAT, or CPP-II results if applicable.



## Admission as a Transfer Student

You are eligible for admission if your grade-point average (g.p.a.) is 2.0 or better on a 4.0 scale on at least twenty-four (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 PCC and who have completed fewer than twenty-four (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 Dean of Undergraduate Programs. If your g.p.a. is less than a 2.0 on a 4.0 scale, you may be considered for admission on probationary status.

Transfer students who are admitted on probation will be monitored and will be expected to earn a 2.0 g.p.a. at MSU during the first semester of attendance. Students who do not earn the 2.0 g.p.a. will be subject to academic dismissal. Students academically dismissed will be given the opportunity to appeal.

Transfer students admitted on probation and with fewer than 12 semester hours of transfer credit will be, at the discretion of the director of admissions, subject to the same admissions 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) official transcripts from all colleges or universities previously attended, (3) the Transfer Recommendation Form (available from the Office of Admissions, MSU) from all institutions previously attended. Students who have earned fewer than twenty-four (24) semester hours credit must submit ACT or SAT scores and high school and college transcripts to facilitate appropriate advising and placement.

**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 course being transferred corresponds to one offered in the Morehead State University Undergraduate Catalog in effect at the time the transfer is sought;
2. the student has earned a grade of "C" or higher in the course for which transfer credit is being sought;
3. the course was taught by an instructor whose academic credentials meet the Commission on College (SACS) requirements (e.g. generally, at least the masters

degree in the teaching field with 18 graduate hours in the teaching field).

Credit for transfer which was earned more than ten years before transfer is sought may not be applicable to current degree or licensure requirements. For a review see the dean of the college in which the transfer is sought.

## Admission as a Returning Student

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

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

## 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) or the Michigan Examination (a minimum score of 500 is required on the TOEFL and a minimum score of 82 is required on the Michigan Examination), 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. All applicants for four-year degree programs must meet the Pre-College Curriculum for unconditional admission to the University. Applicants who do not meet the PCC requirements are eligible to be admitted "Conditionally." Students who are admitted conditionally must take specified courses to remove PCC deficiencies. To assist in the process of determining whether students have completed the Pre-College Curriculum and 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 area subscores. Removal of PCC deficiencies will be monitored by the Office of the Dean of Undergraduate Programs.

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, and (3) the Transfer Recommendation Form from the institution from which you are transferring.

**Transfer of Credits.** Credits earned from international institutions may be applied toward a degree program at MSU. Credits will only be considered only after they have been evaluated by the International Education Research Foundations, Inc., Credentials Evaluation Service, P.O. Box 24040, Los Angeles, CA 90024. It is the student's responsibility to contact the agency and pay all service fees.

**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. 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 twenty-four (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 the: (1) completed Undergraduate Admission and Scholarship Application, (2) the visiting student recommendation form (to be completed by the student's primary institution.)

**Admission as a High School Student**

Students currently enrolled in high school and who have not completed their high school programs may be eligible for admission to appropriate courses. A student must submit to the Office of Admissions: (1) a completed Undergraduate Admission and Scholarship Application, (2) a letter of recommendation from his/her high school guidance counselor or principal.

**Admissions Application Dates**

Although there is no official deadline, students are encouraged to submit applications by the following dates:

- For the fall semester June 1
- For the summer semester April 1
- For the spring semester October 15

**Service Members's Opportunity College**

Morehead State University has been designated a service members's 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 Dean of Undergraduate Programs.

**Housing**

Housing is provided in 14 residence halls and over 175 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 \$630 to \$750 per semester. Family housing accommodations range from \$235 to \$345 per month. (These are 1993-94 rates.)

All single, full-time undergraduate students who have earned fewer than sixty hours of college credit must live in university housing and enroll each semester in a minimum \$300 dining club plan. When you complete the Residence Hall Application/Data Sheet, you may indicate the residence hall you wish to live in 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.

To apply for university housing, you must indicate on the admissions application your intent to reside on campus. From the admissions application, a Housing Application/Data Sheet will be generated and mailed to you. Complete and return the Housing Application/Data Sheet with a deposit (\$75 for Residence Halls/\$100 for Family Housing) to the Office of Student Housing. Assignments are made based on 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.

**Residence Halls**

Room rent for each term is due in full at the beginning of the term. Rates include telephone service, and television cable.

	Weekly	Semester	Summer term
<b>Women's Halls</b>			
East Mignon Hall	\$52.00	\$710.00	\$212.00
Mignon Hall	52.00	710.00	212.00
Nunn Hall	52.00	710.00	212.00
Regents Hall	50.00	690.00	205.00
Thompson Hall	58.00	775.00	225.00

**Men's Halls**

Alumni Tower	\$50.00	\$690.00	\$205.00
Butler Hall	49.00	655.00	198.00
Cooper Hall	50.00	690.00	205.00
Wilson Hall	50.00	690.00	205.00

**Co-educational Halls**

Cartmell Hall	\$50.00	\$690.00	\$205.00
Fields Hall	58.00	775.00	225.00
Mignon Tower	52.00	710.00	212.00
West Mignon Hall	52.00	710.00	212.00

Rental rates as per above are established for standard occupancy of two per room or four per suite.

**Family Housing and Mays Hall Apartments.**

Deposit (refundable)--\$100.00

One bedroom (air-conditioned) per mo . . . . .	\$265.00
One bedroom per mo . . . . .	\$255.00
Studio (efficiency) apartment per mo . . . . .	\$235.00
*one room unit, per mo . . . . .	\$390.00
*two room unit, per mo . . . . .	\$490.00
*three room unit, per mo . . . . .	\$590.00

Rates include utilities, telephone, and TV cable. All rates are subject to change without notice by action of Kentucky Council on Higher Education and/or the MSU Board of Regents.

\*Mays Hall Apartments are offered on the priority basis of: (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.

**Fees\***

Every effort is made to hold cost 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 meal plan. More specific information on fees follows the list of terms you may encounter as you read this section.

**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 Higher 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 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) and is officially reclassified by the proper administrative officials.

The council on Higher education residence Classification Policy is published in its entirety in this catalog. (See appendix.)

**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.

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.

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

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 Higher Education.

Tuition is the fee charged for class enrollment.

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

**Tuition\*****Full-time tuition**

Full-time students are undergraduates who enroll for 12 hours or more during the fall and spring terms. Tuition is assessed for full-time students at the full-time rate. The full-time rate applies to undergraduate students taking 12 - 18 credit hours per semester. An addition per credit hour fee will be charged to undergraduate students enrolled for more than 18 credit hours.

All full-time students receive the student newspaper, *The Trail Blazer*. Full-time students enrolled for fall and spring semesters are also admitted free of charge to most on-campus athletic events, the Arts in Morehead series, and the University Lecture Series. Full-time students enrolled



for both fall and spring semesters receive a copy of the *Raconteur*, the student yearbook. These services are available to you as a part-time student if you pay the activity and service fee.

**Part-time fees**

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

**Registration Billings**

Billings will be mailed approximately 30 days prior to registration to those students who advance registered for classes; you will be required to pay a \$50.00 deposit payment during a specified time (this time will be listed in the Directory of Classes Catalog) to hold your schedule for the coming semester for which you have advance registered. If you advance register for your classes and have already paid your \$50.00 deposit to hold your schedule, you have the following options in completing the registration process:

1. Pay your fees in advance and avoid arena registration,
2. Pay your fees at arena registration,
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 arena registration, or
5. Make all necessary payments according to the Installment Payment Plan that begins each May for the following Fall/Spring semesters.

Morehead State University accepts the following methods of payment:

- |                     |                             |
|---------------------|-----------------------------|
| 1. Cash             | 6. Discover                 |
| 2. Check            | 7. Installment Payment Plan |
| 3. Master Card      | 8. Deferred Payment**       |
| 4. Visa             | 9. Financial Aid            |
| 5. American Express |                             |

\*All fees are subject to change without notice by action of the Kentucky Council on Higher 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 required of all full-time students (undergraduate and graduate) for the fall and spring semesters. Students who pay this fee are entitled to the basic services of the Caudill Health Clinic.

This fee is required of all summer term students taking four or more credit hours per summer term.

Part-time students are entitled to use the Caudill Health Clinic for a minimal fee.

**Installment Payment Plan**

Morehead State University offers an Installment Payment Plan. This will allow you to select a plan and then spread your major college expenses for the coming year over eight installments.

Each year's payments consist of eight monthly installments beginning May 1 and ending December 1 of each year. This insures there will be sufficient funds in your account for both the fall and spring semesters.

The enrollment period for the Installment Payment Plan is from April 1 to April 30, with the first installment due May 1. There is a \$50.00 credit to spend as he/she wishes at the University Bookstore.

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

Morehead State University  
 Accounting and Budgetary Control  
 Rm. 202 Howell-McDowell Adm. Bldg.  
 Morehead, KY 40351-1689

**Refunds**

Students withdrawing from school during any semester or term must arrange for their withdrawal with the Dean of Undergraduate Programs. No refunds will be made unless the withdrawal is made through the proper channels. If a student decides not to attend Morehead State University and completes an official withdrawal form before the first day of classes, all fees paid, less a non-refundable partial payment amount of \$50.00 will be returned to the student. Students withdrawing after the first day of classes will be subject to the University's normal fee refund policy.

**Fall or Spring Semester**

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

	<u>Percent Refund</u>
First 5 class days* of the semester	75%
Next 10 class days of the semester	50%
Next 5 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 Refunds**

**On-campus/ Extended Campus**

	<u>Percent Refund</u>
First 2 class days*	75%
Next 4 class days of the session	50%
Next 2 class days of the session	25%

No refunds are given after the first 8 days of the session

\*Class days begin the first day of the session

Refundable fees include tuition, housing, and course fees.



## Meal Plans

Meal Plans are refunded on a pro-rated weekly basis through mid-term. Meal plans are not refundable after mid-term.

## 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 study.

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.

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

*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.

*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.

*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.

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 student regardless of sex, race, color, or ethnic origin. About 70 percent of the students attending MSU receive 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 parents or guardian toward educational expenses.

Apply for financial aid by April 1 for the coming academic year or for the coming summer terms. Applying before the deadline increases chances of receiving the aid. Transfer students applying for financial aid, must have a Financial Aid Transcript completed by the financial aid office at all schools previously attended.

Most financial aid is credited to students' accounts, one-half of the year's award for fall semester registration and the other half for spring semester registration.

For detailed information on financial aid, request the *Student Financial Aid Consumer Information* booklet from the Office of Financial Aid.

## Selected 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 Stafford Loan, Plus Loan, and State Student Incentive Grant). Contact the Office of Financial Aid for more information.

## Satisfactory Academic Progress for Financial Aid Recipients

The Higher Education Act of 1965, as amended by Congress in 1980 and reauthorized in 1986 and 1992, 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 grade point average. MSU's satisfactory academic progress schedule is as follows:

### Undergraduate

1. A student must successfully complete a minimum of 75 percent of the credit hours attempted during the last period of enrollment. Successful completion for this purpose is defined as receiving a grade of "D" or better.
2. If 1-16 hours have been attempted, a student must have at least a 1.6 cumulative GPA.  
If 17-32 hours have been attempted, a student must have at least a 1.7 cumulative GPA.  
If 33-48 hours have been attempted, a student must have at least a 1.8 cumulative GPA.  
If 49-67 hours have been attempted, a student must have at least a 1.9 cumulative GPA.  
If 68 or more hours have been attempted, a student must have at least a 2.0 cumulative GPA.
3. A student has attempted no more than 170 undergraduate hours.

### Graduate

Graduate students will be considered to be making satisfactory academic progress for financial aid purposes as long as all of the following requirements are met:

1. A student must successfully complete a minimum of 75 percent of the credit hours attempted during the last semester of enrollment. Successful completion for this purpose is defined as receiving a "C" or better.
2. A student must maintain a minimum of 3.0 cumulative GPA.
3. A student has attempted no more than 45 graduate hours at Morehead State University. (Exception: Those students pursuing a degree in clinical psychology will be permitted to attempt no more than 80 graduate hours at MSU.)

obtained in the Office of Financial Aid. Students will be notified in writing of the action taken on their appeal.

### 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 and completes the term satisfying the satisfactory progress definition.

Financial aid eligibility will be reinstated immediately for all students whose appeals are approved.

### 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. (Exception: For the Federal Stafford (Guaranteed Student Loan) Loan and PLUS Loan, evaluation will be completed prior to the certification of the loan application.)
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, R, U, N, W, WP, or WF.
3. For undergraduate students, grades of E, F, I, R, U, N, W, WP, and WF will not qualify as successful completion of hours attempted. For graduate students, grades of D, E, F, I, 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 grade point average and, therefore, are not calculated as hours attempted or completed in determining satisfactory academic progress.
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.

### Scholarship and Awards

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 renewal grade point averages are as follows:

Name	Renewable criteria*	
	g.p.a. minimum for each of the first two semesters	minimum g.p.a. for each semester thereafter
Commonwealth Scholar Award \$4,000/year	3.25	3.50
Distinguished Scholar Award Varies	3.25	3.50
Presidential Scholarship \$3,400/year	3.25	3.50
Regents Scholarship \$1,700/year	3.00	3.25
Kentucky Governor's Scholar Award Tuition/year	3.00	3.25
Leadership Award \$600/year	2.50	2.50
KY Community College Transfer Award \$1,150/year	3.00	3.00
Minority Leadership Award \$600/year	2.50	2.50
Transfer Student Award \$600/year	3.00	3.00
MSU Award \$1,150/year	2.75	3.00
Regional Honors I Scholarship \$2,800/year	3.00	3.25
Regional Honors II Scholarship \$2,300/year	3.00	3.25
Alumni Award \$700/year	2.75	3.00

### 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 supporting documentation. Copies of the appeals form may be

### Scholarship and Awards

To be considered for a scholarship 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. Scholarship applications can be obtained through the Office of Admissions or through area high school guidance offices. The priority filing deadline is March 15. The following are descriptions of the scholarships awarded through the Financial Aid Office:

**Distinguished Scholar Award.** Must be a Kentucky resident. Amounts vary, per the following:

**National Merit Finalist.** Tuition, fees, room and board.

**National Merit Semi-Finalist.** Tuition, fees, room and books.

**Commonwealth Scholar Award.** \$4,000 renewable award. Minimum criteria for consideration: 3.75 cumulative g.p.a., 28 composite ACT, and a Valedictorian or Salutatorian from one of the high schools in MSU's Kentucky service region.

**Regional Honors Scholarship.** The top two ranked students from each high school or community college in MSU Kentucky service region who have at least a 3.5 g.p.a. and who enroll at MSU in the subsequent fall semester are eligible for awards of \$2,800 and \$2,300 respectively.

**Presidential Scholarship.** \$3,400 renewable award. Minimum criteria for consideration: 3.75 g.p.a., 28 composite ACT score.

**Regents Scholarship.** \$1,700 renewable award. Minimum criteria for consideration: 3.5 g.p.a., 25 composite ACT score.

**Kentucky Governor's Scholar Award.** Value is tuition. Renewable. Must have successfully completed the Kentucky Governor's Scholar program.

**Leadership Award.** \$600 renewable award. Minimum criteria for consideration: demonstrated leadership and achievement capabilities in school and community activities. Priority given to 2.5 and higher g.p.a.

**Kentucky Community College Transfer Award.** \$1,150 renewable award. Minimum criteria for consideration; completion of at least 60 hours of college work and a cumulative 3.0 college g.p.a.

**Minority Student Award.** \$600 renewable award. Minimum criteria for consideration: demonstrated achievement in academic and/or extracurricular activities. Priority given to 2.5 and higher g.p.a.

**Transfer Student Award.** \$600 renewable award. Minimum criteria for consideration: completion of at least 12 hours of college work and a cumulative 3.0 college g.p.a.

**Morehead State University Award.** \$1,150 renewable award. Minimum criteria for consideration: 550 admissions index (3.0 cumulative for transfer students). Note: a limited number of MSU Awards are reserved for out-of-state applicants with priority given to residents of Adams, Brown, Clermont, Hamilton, Highland, Lawrence, or Scioto counties in Ohio; Cabell, Mingo, or Wayne counties in West Virginia.

**Alumni Award.** \$700 renewable award. For applicants to MSU who are dependent children of an MSU alumnus who is active in the MSU Alumni Association. Minimum criteria for consideration: Admission Index of 500 or 3.0 college g.p.a.

All recipients of the above scholarships and grants 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 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 \$100 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 Eastern Kentucky; maximum annual award is \$500. Contact the Office of Financial Aid.

**Northeast Kentucky Hospital Foundation Nursing Student Scholarship.** For needy students from Northeastern 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.

## 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 may range up to \$2,300 per academic year.

**Federal SEOG.** A federally-subsidized award based on need. Awards may range from \$100 to \$2,000 per academic year.

**CAP Grant.** A state program based on need. Grants are estimated at \$960 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.

**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 or talents.

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

**Federal Perkins Loan.** A federally subsidized program based upon financial need and funds available. 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 Stafford Loan.** Allows students to borrow money directly from participating private lending institutions (bank, credit union, savings and loan association, or other participating lender). 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 9 percent. An origination fee of 7 percent of the face value is deducted from the loan by the lender.

**PLUS.** Allows parents (natural father, mother, legal guardian, or adoptive parent) of dependent undergraduate students to borrow money from a private lending institution

for student educational expenses. The maximum rate of interest is 10 percent, and the first payment is due within 60 days of disbursement.

**Emergency Loan Fund.** Sponsored by MSU, The Parents Association, and the Student Association, 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 the Office of Veteran Affairs or the Veterans Administration Office, 600 Federal Place, Louisville, KY 40202, phone (toll-free) 1-800-292-4562.

**Tuition Waiver for Dependents of Kentucky Veterans, Police Officers, Firefighters, or Volunteer Firefighters.** The State 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, a Firefighter, or Volunteer Firefighter. For information, call the MSU Office of Financial Aid.

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

**Army Reserve Officers' Training Corps Subsistence Allowance.** For eligible individuals enrolled in advance military science classes. Consists of a tax-free allowance of \$100 per school month. Contact the Professor of Military Science, MSU, UPO Box 1361, Morehead, KY 40351-1689, telephone (606) 783-2050.



## Academic Programs and Requirements for Graduation

### Academic Programs

Table 1 indicates in which subjects baccalaureate or associate degree programs, areas, majors or minors are 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.

The following terms 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.

**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; many minors offer teacher certification.

**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  
 AAA--Associate of Applied Arts  
 AAB--Associate of Applied Business  
 AAS--Associate of Applied Science  
 ADN--Associate Degree Nursing  
 AS--Associate of Science  
 AB--Bachelor of Arts  
 BBA--Bachelor of Business Administration  
 BM--Bachelor of Music  
 BMED--Bachelor of Music Education  
 BS--Bachelor of Science  
 BSN--Bachelor of Science in Nursing  
 BSW--Bachelor of Social Work  
 BUS--Bachelor of University Studies

### 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 grade point average.

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 grade point average (GPA) considered to be satisfactory progress by the University. Generally, satisfactory progress is a GPA of 1.6 for the first semester and 1.7 at the end of the Freshman year.
4. Successfully complete a minimum of twelve (12) semester hours that satisfy the general education requirements.
5. Attend a minimum of three (3) hours of study tables per week.
6. Make frequent appointments with his or her 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.

### 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.

#### 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 Registrar no later than the end of your sophomore year (or freshman year if you are in a two-year associate

degree program). *Your application for a degree will not be processed until your official check sheet has been filed appropriately.*

You should request an official checksheet through your major academic advisor. A copy of the official checksheet is sent to you and your dean.

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

## 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 grade point average of 2.0 on all work completed at the University and on all work completed to satisfy area of concentration or major and minor requirements.

3. Complete an area of concentration of no fewer than 48 semester hours or a major of no fewer than 30 semester hours and a minor of no fewer than 21 semester hours. (These are minimum requirements. You may also elect to satisfy two majors or a major and more than one minor.) A major, minor, or area of concentration is not required for the Bachelor of University Studies degree.

4. Complete at least 32 semester hours at Morehead State University, with the last 16 hours preceding graduation earned from MSU. Correspondence courses do not satisfy this requirement. Fifty percent of the hours required for the major or area of concentration must be credit earned at Morehead State University. Exceptions may be made with permission of the dean of the college in which the major or area of concentration is granted.

5. Bachelor of Science degree candidates must complete a minimum of 60 semester hours in science or science-related fields.

6. Complete 42 semester hours of general education courses. (Teacher certification requires 45 semester hours of general education courses, including PSY 154, HLTH 150, one physical education activity course and SPCH 110 or 370. (See teacher education 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.

### Communications and Humanities . . . . . 15 hours

A total of 9 hours in composition and literature

3 hours--ENG 101: Composition I; or

ENG 103: Composition III\*

3 hours--ENG 102: Composition II; or

ENG 192: Technical Composition

3 hours--ENG 202: Introduction to Literature;

ENG 211: Introduction to World Literature I; or

ENG 212: Introduction to World Literature II

\*Superior ACT scores in English may qualify students to enroll in ENG 103. Students taking ENG 103 may fulfill the remainder of their general education requirements in English by taking general education literature (ENG 202, 211, or 212) and any other English class (except Eng 101 and 102), regardless of level.

A total of 3 hours in oral communications

SPCH 110: Basic Speech; or

SPCH 370: Business and Professional Speech

A total of 3 hours from one of the following fields:

FNA 160: Appreciation of the Fine Arts

Foreign languages

Art 263: Introduction to Art History I;

ART 264: Introduction to Art History II;

MUSH 161: Literature of Music I;

MUSH 162: Literature of Music II;

MUSH 261: Music Listening;

MUSH 361: History of Music I;

MUSH 362: History of Music II;

THEA 100: Fundamentals of the Theatre;

THEA 110: Introduction to the Theatre

### Natural and Mathematical Sciences . . . . . 12 hours

A total of 12 hours with at least 3 hours from each of the following areas:

I. MATH 123: Introduction to Statistics; or higher

II. BIOL 105: Introduction to Biological Sciences; or higher

III. CHEM 100: Basic Chemistry; or higher  
GEOS 100: Physical Geology; or higher  
PHYS 201: Elementary Physics; or higher  
SCI 103: Introduction to Physical Sciences; or higher

IV. 3 hours from the three listings above; or  
CIS 201: Introduction to Computers;  
PHIL 200: Introduction to Philosophy;  
PHIL 303: Social Ethics; or  
PHIL 306: Logic

### Social and Behavioral Sciences . . . . . 12 hours

A total of 12 hours with at least 3 hours from each of the following clusters:

I. HIS 131: Introduction to Civilization I;  
HIS 132: Introduction to Civilization II;  
HIS 141: Introduction to Early American History;  
HIS 142: Introduction to Recent American History;  
ECON 101: Introduction to the American Economy;  
ENON 201: Principles of Economics I; or  
ECON 202: Principles of Economics II

- II. SOC 101: General Sociology;  
SOC 170: Rural Sociology;  
SOC 203: Contemporary Social Problems;  
SOC 305: Cultural Anthropology;  
SOC 354: The Individual and Society; or  
PSY 154: Introduction to Psychology
- III. GOVT 141: United States Government;  
GOVT 242: State and Local Government;  
GOVT 362: Current World Problems  
GEO 100: Fundamentals of Geography;  
GEO 211: Economic Geography;  
GEO 241: United States and Canada; or  
GEO 300: World Geography

**Health . . . . . 3 hours**

A total of 3 hours from either of the following:  
 HLTH 150: Personal Health and one physical education activity class; or  
 HLTH 203: Safety and First Aid

The following courses may not be used to satisfy general education requirements: Pre 100; Workshops 199 through 599; Coop. Study 139, 239, 339, 439, and 539; Practicum; Internships; Special Problems; Field Experiences; Selected Topics; Independent Studies; and Research Projects.

**Bachelor's Degree with Secondary Teacher Certification**

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

**English . . . . . 9**

- ENG 101: Composition I; or
- ENG 103: Composition III\*
- ENG 102: Composition II; or
- ENG 192: Technical Composition
- ENG 202: Introduction to Literature;
- ENG 211: Introduction to World Literature I; or
- ENG 212: Introduction to World Literature II

\*Superior ACT scores in English may qualify students to enroll in ENG 103. Students taking ENG 103 may fulfill the remainder of their general education requirements in English by taking general education literature (ENG 202, 211, or 212) and any other English class (except Eng 101 and 102), regardless of level.

**Humanities and Communication . . . . . 6**

- SPCH 110: Basic Speech; or
- SPCH 370: Business and Professional Speech

Total of 3 hours from:  
 FNA 160: Appreciation of the Fine Arts  
 Foreign languages  
 Art 263: Introduction to Art History I;  
 ART 264: Introduction to Art History II;  
 MUSH 161: Literature of Music I;

- MUSH 162: Literature of Music II;
- MUSH 261: Music Listening;
- MUSH 361: History of Music I;
- MUSH 362: History of Music II;
- THEA 100: Fundamentals of the Theatre;
- THEA 110: Introduction to the Theatre

**Social Science and Economics . . . . . 15**

- At least 3 hours from each area:
- I. HIS 131: Introduction to Civilization I;  
HIS 132: Introduction to Civilization II;  
HIS 141: Introduction to Early American History;  
HIS 142: Introduction to Recent American History;  
ECON 101: Introduction to the American Economy;  
ENON 201: Principles of Economics I; or  
ECON 202: Principles of Economics II
  - II. SOC 101: General Sociology;  
SOC 305: Cultural Anthropology;  
PSY 154: Introduction to Psychology (required for teacher certification)
  - III. GOVT 141: United States Government;  
GOVT 242: State and Local Government;  
GOVT 362: Current World Problems  
GEO 100: Fundamentals of Geography;  
GEO 211: Economic Geography;  
GEO 300: World Geography

**Science and Mathematics . . . . . 12**

- At least 3 hours from each area:
- I. MATH 123: Introduction to Statistics; or higher
  - II. BIOL 105: Introduction to Biological Sciences; or higher
  - III. CHEM 100: Basic Chemistry; or higher  
GEOS 100: Physical Geology; or higher  
PHYS 201: Elementary Physics; or higher  
SCI 103: Introduction to Physical Sciences; or higher
  - IV. PHIL 200: Introduction to Philosophy;  
PHIL 303: Social Ethics;  
CIS 201: Introduction to Computers; or science or math elective

**Health and Physical Education . . . . . 3**

- HLTH 150: Personal Health (2), and one physical education activity class (1)

**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 Coordinator of Freshman Advising and General Studies.

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 grade point average 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 42 semester hours of general education courses. See the general education course requirements for Bachelor's Degree Requirements.

## 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 grade point average 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 15 semester hours of general education courses as follows:

ENG 101: Composition I . . . . . 3 hours

ENG 102: Composition II; or

ENG 192: Technical Composition . . 3 hours

An additional 9 semester hours from at least three of the following 10 categories:

- I. SPCH 110: Basic Speech; or  
SPCH 370: Business and Professional Speech
- II. ENG 202: Introduction to Literature;  
ENG 211: Introduction to World Literature I;  
or  
ENG 212: Introduction to World Literature II
- III. MATH 123: Introduction to Statistics; or  
higher
- IV. BIOL 105: Introduction to Biological  
Sciences; or higher;  
CHEM 100: Basic Chemistry; or higher;  
PHYS 201: Elementary Physics; or higher;  
GEOS 100: Physical Geology; or higher; or  
SCI 100: Introduction to Physical Sciences; or  
higher
- V. A. PHIL 200: Introduction to Philosophy;  
PHIL 303: Social Ethics; or

PHIL 306: Logic

- B. MATH 123: Introduction to Statistics; or  
higher
- C. BIOL 105: Introduction to Biological  
Sciences; or higher  
CHEM 100: Basic Chemistry; or higher;  
PHYS 201: Elementary Physics; or higher;  
GEOS 100: Physical Geology; or higher;  
SCI 100: Introduction to Physical  
Sciences; or higher
- D. CIS 201: Introduction to Computers
- VI. A. SOC 101: General Sociology;  
SOC 170: Rural Sociology;  
SOC 203: Contemporary Social Problems;  
SOC 305: Cultural Anthropology; or  
SOC 354: The Individual and Society
- B. PSY 154: Introduction to Psychology
- VII. A. HIS 131: Introduction to Civilization I;  
HIS 132: Introduction to Civilization II;  
HIS 141: Introduction to Early American  
History;  
HIS 142: Introduction to Recent American
- B. ECON 101: Introduction to the American  
Economy;  
ECON 201: Principles of Economics I; or  
ECON 202: Principles of Economics II
- VIII. A. GOVT 141: United States Government;  
GOVT 242: State and Local Government;  
or GOVT 362: Current World Problems
- B. GEO 100: Fundamentals of Geography;  
GEO 211: Economic Geography;  
GEO 241: Unites States and Canada; or  
GEO 300: World Geography
- IX. A. HLTH 150: Personal Health and  
one PHED activity course
- B. HLTH 203: Safety and First Aid
- X. A. FNA 160: Appreciation of Fine Arts
- B. ART 263: Introduction to Art History I;  
or ART 264: Introduction to Art History II
- C. MUSH 161: Literature of Music I;  
MUSH 162: Literature of Music II;  
MUSH 261: Music Listening;  
MUSH 361: History of Music I; or  
MUSH 362: History of Music II
- D. THEA 100: Fundamentals of the Theatre;  
or THEA 110: Introduction to the Theatre
- E. Foreign language

The following courses may not be used to satisfy general education requirements: Pre 100; Workshops 199 through 599; Cooperative Study 139, 239, 339, 439, and 539; Practicums; Internships; Special Problems; Field Experiences; Selected Topics; Independent Studies; and Research Projects.



## Associate of University Studies Degree Requirements

Except for the general education requirements, 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 Coordinator of Freshman Advising and General Studies.

## 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 grade point average 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 9 of the 16 semester hours earned must be in courses in a new prescribed associate degree program.

3. Earn a minimum of 2.0 grade point average 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 uses various tests and survey instruments to assess students' 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 Testing Center, Ginger Hall 501, at no cost to the student, on announced dates throughout the semester. **All students are expected to participate in both university-wide and departmental assessment activities.** For further information about assessment requirements, contact the Office of Undergraduate Programs, 201 Ginger Hall, (606) 783-2004.

## Applying for Graduation

An Application for Degree Form (available in the Office of Registrar) should be submitted to the Office of Registrar at least one semester before degree requirements are completed. A list of degree candidates is posted outside the Office of Registrar at least two weeks prior to the end of each term.

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

# Academic Regulations and Procedures

## Registration

To register, you must be admitted to the university and have a personalized registration packet. Registration packets are available at the registration location.

## Early Registration and Orientation

New freshmen or transfer students enrolling for the fall semester are encouraged to participate in the summer early registration and orientation program. The day's activity provides 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 or who have been accepted for enrollment may advance-register for courses for the

following semester or summer term. Complete instructions are published in the term's schedule of classes.

## Late Registration

Students are encouraged to register according to the timetable in the published class schedule. 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 begin the registration process in the Office of Registrar, 201 Ginger Hall.

## 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 on a drop/add form. Deadlines for making schedule changes are published in the current class schedule.

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. 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:

- Have a 3.25 in the previous semester or overall cumulative g.p.a.
- Have the approval of the academic advisor and the appropriate college dean.

It is expected that no student shall be allowed to enroll in more than 21 hours in a regular semester and 7 hours in a summer session.

## Undergraduates Enrolling for Graduate Credit

A student in the final semester of undergraduate study with a grade point average (g.p.a.) 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 and Extended Campus 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 grade point average. 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 and 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.

## Courses

### Repeating Courses

Undergraduates may repeat any course regardless of the grade received or the number of times the course has been attempted. Only the grade received on the last attempt is computed in the overall grade point average (g.p.a.).

This practice applies to MSU, and is not necessarily the way other institutions might compute the cumulative g.p.a. upon transfer. 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 charged as for 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 class schedule. Refunds for withdrawals from audited courses will be prorated on the same basis as refunds for withdrawals from courses taken for credit.

### Attendance

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

### Absence

Students missing class because of legitimate reasons must consult with the instructor concerning the absence, preferably beforehand. Legitimate absences do not excuse the student from class responsibilities. Some examples of 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.

### 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 mid-term of the following semester (summer school excluded). I is calculated as an E in computation of g.p.a. 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 g.p.a.
- N--Failure, pass-fail courses--No semester hours earned; no quality points; computed in g.p.a.
- P--Withdrew from school passing--Not computed in g.p.a.
- F--Withdrew from school failing--Computed in g.p.a. as credits attempted.
- R--Course repeated--Replaces original grade for repeated course; computed in g.p.a.
- U--Unofficial withdrawal--Computed as credits attempted; computed as zero quality points in g.p.a. calculation.

W--Withdrew officially--No hours attempted; not computed in g.p.a.

WY--Withdrawal from audit class--Not computed in g.p.a. Y--Audit credit--No hours attempted; not computed in g.p.a.; 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 g.p.a. 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 g.p.a. on the work completed at MSU.

2. A maximum of 15 hours may be applied toward the total number of hours required for the bachelor's degree; six hours may be applied toward associate degree requirements.

3. The pass-fail option is applicable only to free elective courses. These include courses not required for your area, major, minor, or general education requirements.

4. Each semester you may use the pass-fail option for one course (for any number of hours of credit), or a combination of courses totalling up to three hours.

5. Hours earned in pass-fail work are added to your total hours passed but do not affect your g.p.a. 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.

### 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 g.p.a. 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 grade-point average of 3.40 to 3.59 graduate *Cum Laude*; 3.60 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 grade-point average of 3.60 or better

graduate with distinction. Only work completed at MSU is used in computing grade-point average.

### Grade Reports

At the end of each semester and summer term, a final grade report is sent to you at your permanent address. Mid-term grade reports are not mailed, but should be picked up from your advisor. There are no mid-term grade reports for summer terms.

### Transcripts

Request official transcripts, in writing to the registrar. 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 Education 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 Registrar, 201 Ginger Hall.

### Scholastic Standing

Students are eligible to register if they meet the following minimum cumulative scholastic levels:

- I. A 1.6 cumulative grade-point average if 16 or fewer semester hours have been attempted.
- II. A 1.7 cumulative grade-point average if 17-32 semester hours have been attempted.
- III. A 1.8 cumulative grade-point average if 33-48 semester hours have been attempted.
- IV. A 1.9 cumulative grade-point average if 49-67 semester hours have been attempted.
- V. A 2.0 cumulative grade-point average if 68 or more semester hours have been attempted.

A student who does not meet the above standards is on academic probation during the next enrollment. The student's grade report will be stamped with the words "Academic Probation," and the student will receive a letter from the Dean of Undergraduate Programs explaining his or her academic status. The student will be required to meet with his or her advisor for academic counseling.

Continued enrollment while on probation is permitted for no more than two consecutive semesters. If the student's grade-point-average does not meet the minimum standard at the end of the second semester on academic



probation, he or she will receive a letter from the Dean of Undergraduate Programs stating that continued enrollment is not permitted during the next enrollment period.

A student who receives notification of academic probation may enroll for no more than 15 semester hours of course work during fall and spring semesters and for no more than 6 semester hours of course work during a summer session.

A suspended student may:

1. Apply for readmission after the lapse of one semester (excluding summer school); or
2. Appeal by petitioning a hearing before the university Academic Standards and Appeals Committee. Requests for appeals are made in the Office of the Dean of Undergraduate Programs, 201 Ginger Hall.

A student readmitted under the above conditions who fails to make academic progress will be dismissed from the university.

### Academic Bankruptcy

Academic bankruptcy allows undergraduates with an unacceptable grade-point average (g.p.a.) 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.

These are the requirements for academic bankruptcy:

1. Students must apply for bankruptcy before completing a baccalaureate degree at MSU.
2. They must have attempted at least 48 semester hours at MSU.
3. For the term in question, students must have a g.p.a. of at least 1.0 under their cumulative average for all other hours completed at MSU.

**Procedure.** To apply for academic bankruptcy, request an Academic Bankruptcy Form in the Office of 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 Vice President for Academic Affairs, 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 Executive Vice President for Academic Affairs 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 Executive Vice President for Academic Affairs 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 Executive Vice President for Academic Affairs. If the procedure has been followed, the Executive Vice President 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 Executive Vice President for Academic Affairs, 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 Executive Vice president for Academic

Affairs 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.

### Sexual Harassment Policy

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

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

Nothing contained in this policy shall be construed to supplant or modify existing laws of the Commonwealth of Kentucky and the United States.

This policy shall not be used to remedy acts which are crimes under the laws of the Commonwealth of Kentucky or the United States.

**DEFINITION:** Sexual harassment (which includes harassment based upon gender) violates the standards of civility of 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, TRAILBLAZER, 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, etcetera.
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 complainant's representative group and one member from 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 (10) 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 Support Services

### 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 experience.

### 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 (undecided) or Provisional Studies student, you must go to the Academic Services Center, 233 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 by frequent visits with your advisor, 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 mid-term 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 sophomore year (freshman year for associate degree).

Transfer students above the sophomore level should schedule such a conference at the end of the first semester at MSU.

### Academic Services

The Academic Services Center, located on the 2nd and 3rd floors of Allie Young Hall provides a variety of academic advising, guidance, tutoring, and support services. These academic services are free and include:

**General Studies/Freshman Advising.** This office provides academic advising to those students who are undecided about a college major or those students who are seeking a two-year or four-year University Studies 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.

**Provisional Studies.** This is a Freshman year program which specifically addresses the needs of those students who do not meet the regular admission requirements of the University. Please refer to the Academic Programs and Requirements for Graduation section of this catalog for specific program requirements.

**Peer Advising.** The Peer Advising Program offers incoming students enrolled in MSU 101: Discovering University Life the opportunity to work with upper division students who have successfully adjusted to MSU. These upper division students can provide information about university resources and help new students adjust to MSU.

**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 certain classes. There are numerous self-paced programs designed to assist students in improving basic academic skills.

**Services for Students with Physical or Learning Disabilities.** Professional staff assists 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 students with physical or learning disabilities.

**Minority Retention/GUSTO.** Academically related activities designed to assist minority students in their transition and adjustment to university life as well as help ensure academic success are provided. Included in the varied services are academic advising, guidance and counseling, tutoring, and workshops. Also provided is GUSTO (Guiding Undergraduate Students Toward Opportunities) which is 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.

**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.

**Career Planning Classes.** The two credit hour course in career planning is designed to assist students in making realistic career decisions consistent with their abilities, needs, values, interests and goals. The student participates 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.

**Readmitted/Academic Probation Student Programs.**

Special academic counseling, advising, and support services are available to students who have been readmitted to MSU or are on academic probation. Specially designed study skills seminars, individualized academic counseling programs, and study tables are provided to help students successfully accomplish their academic goals.

**Special Services.** The Special Services Program 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.

**Student Support Services.** This program serves students who are first generation college students, meet low income guidelines, or have a physical disability. An individualized educational plan which may include tutoring, advising, counseling, and cultural enrichment is designed to meet the unique needs of each student.

**Writing Center.** The Writing Center, located in Thompson Hall, Room 25, is staffed by trained readers from various academic backgrounds who can talk with students about writing assignments, discipline-specific writing conventions, topic development, drafts, revision, or usage questions. With its state-of-the-art networked computer classroom, the Center also offers students a quiet, focused environment in which to write. 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.

**Computer Resources**

Morehead State University through the Office of Information Technology provides a variety of computing resources in support of instruction, administrative, alumni and research activities. These resources include three (3) computer systems. For instructional purposes, the University has an HP G50 and over 700 microcomputers. The University is a member of the Kentucky Educational Computing Network (KECNET) and utilizes this resource to access the University of Kentucky IBM supercomputer system. Access to national and international networks is implemented via the Internet and the Corporation for Research and Educational Networking (CREN, formerly BITNET). Administratively, the University uses an HP G50. Also available is a Data General MV/780 XP system utilized for library activities.

There are numerous devices strategically located throughout the campus to give students, faculty, and staff convenient access to computing resources. Information Technology staff provide seminars to train users in the proper use of various hardware and software. The University instructional programs utilize computing resources for programming drill and practice, problem

solving, computer-assisted instruction, simulation, record keeping, word processing, research and other activities.

**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, ACT Senior Exit Tests, AP, CLEP, GED, GRE, GMAT, LSAT, MAT, The Praxis Series (NTE), TOEFL, correspondence exams, and various departmental proficiency examinations. Literature and brochures describing the different testing programs and their functions are available at the Testing Center, 501A Ginger Hall, (606)783-2526.

**University Counseling Center**

The University Counseling Center, located in 112 Allie Young Hall, provides psychological services to all 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 insure 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.

**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.

## Non-Traditional and Commuter Student Counseling.

The counselor 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 counselor serves as an advocate for the increasing number of adult students at MSU. The counselor also helps link these students to academic and campus resources for concerns such as study habits, time management, family, career, or financial needs. The counselor is available to students on a limited schedule at off-campus centers.

## Minority Student Affairs Director.

The office provides assistance and support to minority students at MSU. Coordination of campus activities is conducted throughout the year to insure 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.

## 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 Advisor when:*

1. applying to add, 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 in 330 Allie Young Hall and/or by appointment.

## Career Planning and Placement

The Office of Career Planning and Placement, 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, resume evaluations, video taped interviews, and access to an extensive career resource library. Graduating students also have access to national and regional job vacancy lists, on-campus interview opportunities, and development of personal credential files. Students are welcome to visit the office any weekday between 8:00 a.m. and 4:30 p.m. if they desire help with career concerns or call 783-2233 to make an appointment for individual help.

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

"Information literacy" has been identified as a set of skills necessary to compete in today's service-oriented economy. The Library's online catalog and microcomputer-based CD-ROM databases afford students the opportunity to develop these skills through hands-on experience with these sophisticated information storage and retrieval systems. Library staff are available to recommend sources and to help define research needs and suggest strategies.

The Learning Resource Center supplies audio-visual materials and equipment, and is the site of one of the University's microcomputer labs. LRC maintains a selection of microcomputer software, as well as video recordings, films, records, tapes, and other materials.

Other services offered by the Library are photocopy facilities, graphic arts and tape duplicating services, typewriters, and access to the campus computing network.

Information about the Library and its services may be obtained from any Library staff member. One-hour credit classes in Library use are offered each semester, and groups



may schedule Library orientation/instruction sessions by calling 783-2251 or 783-2828 for LRC orientation.

The Library is open seven days a week. Regular hours are 8 a.m. to 10 p.m., Monday through Thursday; 8 a.m. to 6 p.m., Friday; 9 a.m. to 4:30 p.m., Saturday; and 2

p.m. to 10 p.m., Sunday. A late-night study center is open after regular hours Sunday through Thursday when classes are in session. Hours are subject to change during vacation periods.

## 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 or department chair.

### 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, D. C. The program, which is available to most undergraduate majors, provides both two-week intensive seminar and semester-long internships during the academic year and summer.

The seminars address 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, D. C. colleges and universities. The internships are full-time work experiences in the offices of congressmen 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 and 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, and 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 Dean of Undergraduate Programs, 201 Ginger Hall. (All on-campus students must have their dean's or advisor's 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 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, 201 Ginger Hall.

### 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 field.

Members of the Honors 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 and free computer research; participate in cultural enrichment trips to concerts, plays, and museums in surrounding cities; participate in a yearly "seminar week" with students from other state Honors Programs; help faculty in their research projects; be 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 grade point average, are invited to become members. Once admitted to the program, a student must maintain a 3.4 grade point average. The Honors Program awards 10 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.

## Interdisciplinary Women's Studies Minor

The purpose of the women's studies minor is to provide students with opportunities to develop knowledge and understanding of women's roles and contribution, historically and across cultures.

The objectives of the minor are:

1. To inform students of the diversity of women's contributions across academic disciplines in a global society.
2. To increase students' knowledge of the varied roles of women throughout history.
3. To challenge students to use a variety of critical thinking and problem solving skills when analyzing issues which pertain to women.
4. To expand students' knowledge of the role fulfillment alternatives and career options.

## Required Courses

WST 373: 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 320: Women Writers and a Feminist Perspective  
crosslisted as ENG 320
- WST 399: Women and Politics  
crosslisted as GOVT 399
- WST 457: Parenting

crosslisted as HS 457

WST 474: Women and Health  
crosslisted as NAHS 474

WST 310: Sociology of Deviance  
crosslisted as SOC 310

WST 354: Individual and Society  
crosslisted as SOC 354

Special topics will be approved for crosslisting on an individual basis.

## Academic and Honor Organizations

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

### Academic

Accounting Club--UPO 1041  
Alpha Lambda Pi (paralegal)--UPO 2409  
American Chemical Society-Student Affiliates--UPO 2455  
Data Processing Management Association--UPO 1332  
Economics and Finance Club--UPO 175  
El Club Espanol--UPO 1401  
Environmental Science Club--UPO 1047  
Fashion Merchandising Club--UPO 2464  
I.E. Speech Team--BR 201  
LeCercle Francais--UPO 1215  
Percussive Arts Society--BM  
Phi Alpha Delta (pre-law)--UPO 1273  
Phi Mu Alpha (music:men)--BM  
Prae Medicorum (pre-medicine)--UPO 1386  
Pre-Veterinary Medicine Club--UPO 995  
Sigma Alpha Iota (music:women)--UPO 1392  
Student Association of Social Workers--UPO 1396  
Student Correctional Association--UPO 1398  
Student Home Economics Association--UPO 1399  
Student Hospitality Management Club--UPO 889  
Student Nurses Association (nursing)--UPO 715  
Tubists Universal Brotherhood Association--UPO 1394

### Honor

Academic Honors Student Association--UPO 665  
Cardinal Key National Honor Society  
(juniors and seniors)--UPO 1223  
Gamma Beta Phi (scholastic and service)--UPO 1334  
Delta Tau Alpha (agriculture)--UPO 1053  
Kappa Delta Pi (education)--UPO 1035  
Kappa Omicron Nu (home economics)--upo 1052  
Order of Omega--UPO 2425  
Phi Alpha Theta (history)--UPO 2445  
Phi Kappa Phi--GH 201A  
Pi Delta Phi (French)--UPO 1215  
Pi Gamma Mu (social sciences)--UPO 1261  
Phi Sigma Alpha (government)--UPO 1363  
Sigma Tau Delta (English)--UPO 2465  
Theta Alpha Phi (theatre)--UPO 1382

Table 1. Programs of Study.

Subject	Degree*	Program	Teacher Certification Program	Catalog Page No.
Accounting	BBA	Area, Minor		33
Agricultural Education	BS	Area		96
Agricultural Science With Following Options:	BS	Area, Major, Minor		96
Agribusiness		Option		
Agriculture Economics		Option		
Agronomy		Option		
Animal Science		Option		
General Agriculture		Option		
Golf Course Management		Option		
Horticulture		Option		
Agricultural Technology With Following Options:	AAS	Two-year		99
Agribusiness		Option		
Agricultural Production		Option		
Equine Technology		Option		
Ornamental Horticulture		Option		
Art	AB	Area, Major, Minor	Yes	74
Athletic Training		Minor		60
Biology	BS	Major, Minor	Yes	104
Chemistry	BS	Area, Minor, Major	Yes	140
Child Development	AAS	Minor, Two-year		114
Coaching		Minor		60
Communications With Following Emphasis:	AB	Area		75
Electronic Media Production and Management		Emphasis		
Electronic Media News		Emphasis		
Journalism		Emphasis		
Advertising-Public Relations		Emphasis		
Comprehensive Business	BBA	Area, Minor	Yes	36
Computer Information Systems	BBA	Area, Minor		37
Criminology (also see Sociology)	AB	Area, Minor		
Creative Writing		Minor		82
Economics	BBA	Area, Minor		34
Elementary Education - K-4	AB	Area	Yes	53
Elementary Education - 5-8	AB	Area	Yes	54
English	AB	Area, Minor, Major	Yes	80
Environmental Science	BS	Major, Minor		105
Fashion Merchandising		Minor		121
Finance	BBA	Area		34
French	AB	Major, Minor	Yes	83
Geography	AB	Major, Minor	Yes	86
Geology	AB	Major		141
Geology	BS	Area, Major, Minor		
Government	AB	Major, Minor	Yes	86
Health	AB	Major, Minor	Yes	60
History	AB	Major, Minor	Yes	87
Human Sciences With Following Options:	AAS	Two-year		115
Fashion Merchandising		Option		
Food Service Management		Option		
Interior Design Assistant		Option		

Human Sciences With Following Options:	BS	Area		117
Dietetics		Option		
Hotel, Restaurant, and Institutional Management		Option		
Interior Design		Option		
Retail Merchandising and Design		Option		
Vocational Home Economics			Yes	120
Horsemanship		Minor		101
Industrial Technology With Following Options:	AAS	Two-year		122
Construction/Mining Technology		Option		
Electrical/Electronics Technology		Option		
Graphic Communications Technology		Option		
Manufacturing/Robotics Technology		Option		
Industrial Technology with Following Options:	BS	Area		124
Construction/Mining Technology		Option		
Electricity/Electronics Technology		Option		
Graphic Communications Technology		Option		
Manufacturing/Robotics Technology		Option		
Industrial Education Orientation/Exploration		Option		
Industrial Education Preparation Level		Option	Yes	127
Interdisciplinary Early Childhood Development	BS	Major	No	116
Interdisciplinary Women's Studies		Minor		26
Integrated Science		Minor		141
Linguistics		Minor		81
Literature		Minor		82
Management	BBA	Area, Minor		42
Marketing	BBA	Area, Minor		43
Mathematics	BS	Major, Minor	Yes	128
Mathematics (Statistics)		Minor		129
Mathematics and Computer Programming	BS	Area		129
Mathematics-Physical Science	BS	Area	Yes	144
Medical Technology	BS	Area		106
Military Science		Minor		67
Music	AB	Major, Minor		93
	BM	Area		92
		Certificate		94
Music Education	BMED	Area	Yes	92
Nursing	ADN	Two-year		130
Nursing	BSN	Area, Four-year		132
Office Systems	BBA	Area, Minor		39
	AAB	Two-year		40
Paralegal Studies	AB	Four-year		88
Philosophy	AB	Major, Minor		
Physical Education	AB	Major	Yes	62
Physics	BS	Major, Minor	Yes	142
Pre-Chiropractic		Transfer		109
Pre-Dentistry		Transfer		109
Pre-Engineering		Transfer (Dual Degree)		142
Pre-Forestry		Transfer		101
Pre-Law		Transfer		89
Pre-Medicine		Transfer		110
Pre-Optometry		Transfer		143
Pre-Pharmacy		Transfer		110
Pre-Physical Therapy		Transfer		110
Pre-Veterinary Medicine		Transfer		102
Psychology	AB	Area, Major, Minor	Yes	68

Radiologic Technology	AAS	Two-year		136
Real Estate	AAB	Two-year		45
	BBA	Area, Minor		44
Recreation	AB	Major, Minor		65
Secondary Science	BS	Area	Yes	111/143
Small Business Management	AAB	Two-year		46
Social Science	AB	Area	Yes	89
Social Work	BSW	Area		70
Sociology	AB	Major, Minor	Yes	71
Sociology (Criminology)		Emphasis		72
Spanish	AB	Major, Minor	Yes	84
Special Education	AB	Major, Minor	Yes	55
Special Education (Learning and Behavior Disorders)	AB	Area	Yes	55
Special Education (Trainable Mentally Handicapped)	AB	Area	Yes	57
Speech	AB	Major, Minor	Yes	77
Speech and Theatre	AB	Major	Yes	78
Theatre	AB	Major, Minor	Yes-Minor	78
Veterinary Technology	AAS	Two-year		102

*\*Degree abbreviations on page 31.*



Table 2. Who to see

For	Who	Where	Phone
Absences	Your college dean		
Academic bankruptcy	Your advisor		
Academic probation	Dean of Undergraduate Programs	201 GH	2004
Admission	Office of Admissions	301 HM	2000
Advisor assignment	Dean of your college or department chair		
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	Undergraduate Support Services Coordinator	201 GH	2004
Counseling services	University Counseling Center	112 AY	2123
Credit by examination	Testing Center	501A GH	2526
Drop/Add	Your advisor		
Extracurricular activities	Student Life	303 HM	2070
Fees	Office of Accounting and Budgetary Control	202 HM	2019
Field Career Experiences	Your department chair		
Financial Aid	Financial Aid	305 HM	2011
Grades	Your advisor		
Graduation application	Office of Registrar	201 GH	2008
Honors Program	Director	Honors House	2807
Housing	Housing	TH	2060
International student advising	Counselor for International Students	330 AY	2759
Learning Lab	Special Services	220 AY	2005
Library	Library	CCL	2250
Loans	Financial Aid Office	305 HM	2011
Minority Student Advising	Office of Minority Affairs	309 AY	2668
Non-traditional and Commuter Counseling	Counselor for Non-Traditional Students	ADUC	2102
Placement Services	Career Planning and Placement	322 AY	2233
Pre-registration	Your advisor		
Professional Lab. Experiences		801 GH	2891
Records, Access to	Office of Registrar	201 GH	2008
Registration	Your advisor		
Repeating a course	Office of Registrar	201 GH	2008
Residency reclassification	Office of Admissions	301 HM	2000
ROTC	Military Science	308 BA	2050
Scholarships	Financial Aid Office	305 HM	2011
Special Services	Special Services	220 AY	2005
Counseling	Special Services	220 AY	2005
Learning Lab	Special Services	220 AY	2005
Tutoring	Special Services	220 AY	2005
Student teaching		801 GH	2891
Testing	Testing Coordinator	501A GH	2526
Textbooks	Director, University Bookstore	ADUC	2081
Transcripts	Office of Registrar	201 GH	2008
Transfer of credits	Office of Registrar	201 GH	2008

Tutoring	Special Services	220 AY	2005
TV courses	Undergraduate Support Services Coordinator	201 GH	2004
Veterans Affairs	Office of Registrar	201 GH	2008
Withdrawals		201 GH	
From class	Your advisor		
From school	Office of Registrar	201 GH	2008
Writing Lab	Special Services	220 AY	2005

*Key to abbreviations: ADUC--Adron Doran University Center; AY--Allie Young Hall; BA--Button Auditorium; CCL--Camden-Carroll Library; CHC--Caudill Health Clinic; GH--Ginger Hall; HM--Howell-McDowell Administration Bldg.; RA--Rader Hall; TH--Thompson Hall*

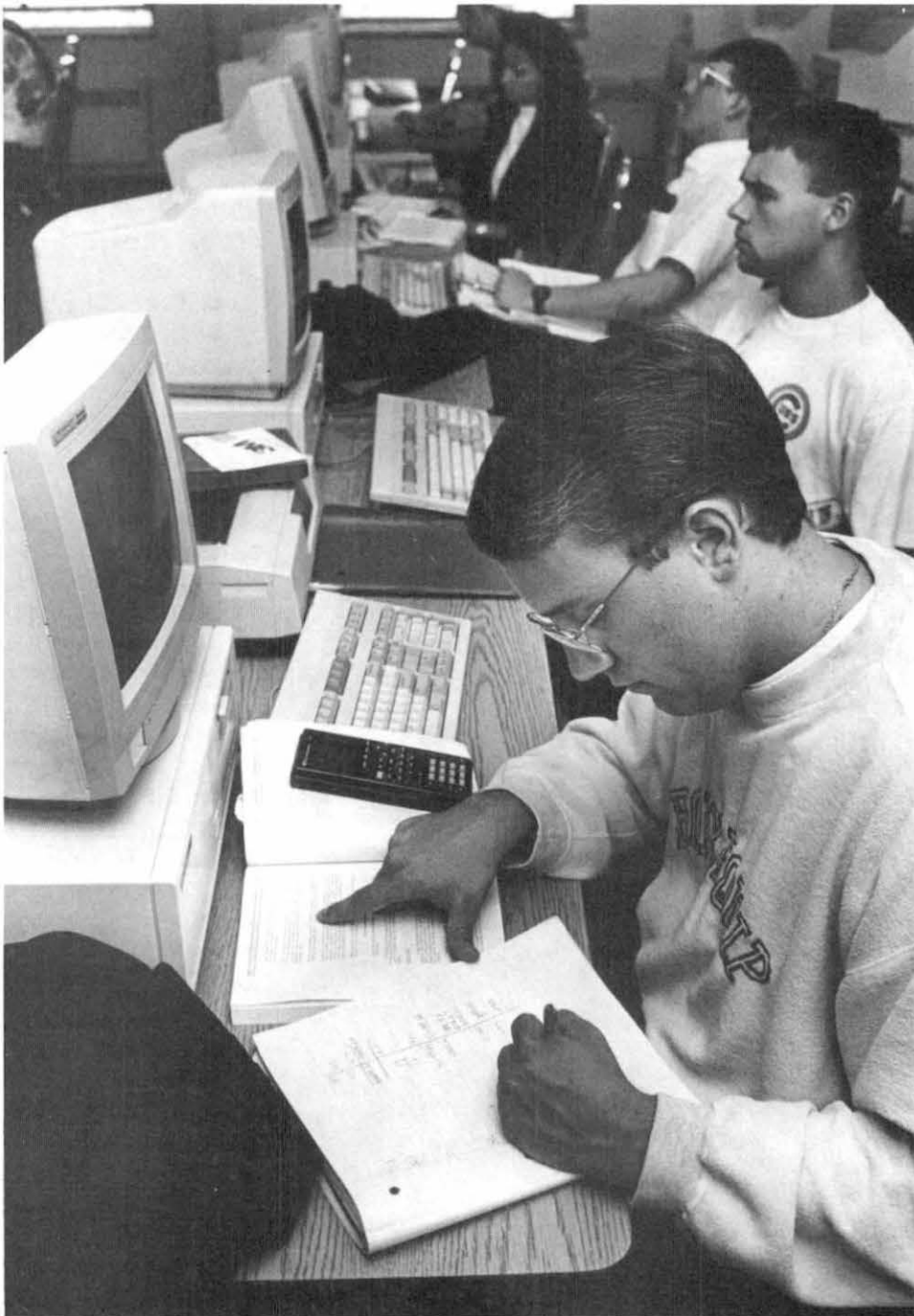
## Abbreviations (Course Prefixes)

ACCT	Accounting	MFT	Manufacturing Technology
AGR	Agriculture	MIN	Mining Technology
ART	Art	MKT	Marketing
BIOL	Biology	MNGT	Management
CHEM	Chemistry	MS	Military Science
COMM	Communications	MSCI	Marine Science
CIS	Computer Information Systems	MUSC	Music Conducting
CON	Construction Technology	MUSE	Music Education
CRIM	Criminology	MUSG	Class Applied Music
ECON	Economics	MUSH	Music History & Literature
EDAD	Education Administration	MUSM	Music Ensembles
EDAH	Adult and Higher Education	MUSP	Private Applied Music
EDEC	Early Childhood Education	MUST	Music Theory
EDEE	Early Elementary Education	MUSW	Music Research
EDEL	Elementary Education	NAHS	Nursing and Allied Health Sciences
EDEM	Early Elementary and Middle Grades	NURA	Associate Degree Nursing
EDF	Education Foundations	NURB	Bachelor of Science in Nursing
EDGC	Guidance and Counseling	OADM	Office Administration
EDMC	Middle Grades	PDI	Personal Development Institute
EDSE	Secondary Education	PHED	Physical Education
EDSP	Special Education	PHIL	Philosophy
EDUC	Professional Education	PHYS	Physics
EET	Electricity-Electronics Technology	PLS	Paralegal Studies
ENG	English	PSY	Psychology
FIN	Finance	RAD	Radiologic Technology
FNA	Fine Arts	REAL	Real Estate
FRN	French	REC	Recreation
GCT	Graphics Communications Technology	REL	Religion
GEO	Geography	ROB	Robotics
GEOS	Geoscience	R-TV	Radio-Television
GER	German	RUS	Russian
GOVT	Government and Public Affairs	SCI	Science
HIS	History	SOC	Sociology
HLTH	Health	SPA	Spanish
HS	Human Sciences	SPCH	Speech
IET	Industrial Education Technology	SWK	Social Work
JOUR	Journalism	THEA	Theatre
LAT	Latin	VET	Veterinary Technology
LSIM	Library Science and Instructional Media	VOC	Vocational Education
MATH	Mathematics	WEL	Welding Technology

## College of Business

**Beverly McCormick (Interim Dean)**  
**(606)783-2174**  
**214 Combs Building**

Department of Accounting, Economics, and Finance  
Department of Information Sciences  
Department of Management and Marketing



## Department of Accounting, Economics and Finance

Dr. Green Miller, Chair  
(606) 783-2152  
222 Combs Building

### Accounting

**Faculty**--J. Alcorn, T. Elliott, J. Graham, J. Osborne, G. Van Meter,  
S. Walters, K. Williams

#### Competencies Required in the Program

Students will:

1. Be prepared for any entry level position in accounting or for graduate study in accounting or other business fields.
2. Meet all academic requirements for taking the CPA and other professional accounting exams.
3. Complete a sequence of accounting courses which prepares them to: (a) set up an accounting system, (b) make ready all standard financial statements, and (c) analyze accounting data and statements for use in managerial decision making.
4. Complete a sequence of allied courses which directly enhance their ability to meet the "Expected Accounting Program Results." These include but are not limited to: (a) Economics 350 - Microeconomics, (b) Management 261 - The Legal Environment of Business Organizations, (c) Management 472 - Business Policy and Problems, (d) Math 152 - College Algebra, and (e) Math 354 - Business Statistics.

#### Assessment Procedures

Study surveys  
Exit examination  
Independent written and oral assignments

## Bachelor of Business Administration

### Accounting Option

#### General Education Requirements

The following specific courses must be included in the 42 hour general education component (see general education requirements).

	Sem. Hrs.
SPCH 370--Business and Professional Speech	3
MATH 152--College Algebra	3
MATH 354--Business Statistics	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3

### Core Requirements

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
ECON 350--Microeconomic Theory	3
FIN 360--Business Finance	3
MKT 304--Marketing	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 301--Principles of Management	3
MNGT 306--Production Management	3
MNGT 472--Business Policies and Problems	3
OADM 321--Business Communications	3
	33

### Program Requirements

BBA Core	33
ACCT 384--Intermediate Accounting I	3
ACCT 385--Intermediate Accounting II	3
ACCT 387--Income Tax	3
ACCT 390--Cost Accounting I	3
ACCT 483--Auditing	3
Approved accounting electives	6
	54

## Bachelor of Science

### Minor

Students selecting programs with accounting minors should first consult with advisors in their major areas.

### Course Requirements

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
ACCT 384--Intermediate Accounting I	3
ACCT 385--Intermediate Accounting II	3
ACCT 390--Cost Accounting I	3
Approved accounting electives	6
	21

## Economics

**Faculty**--R. Buck, G. Miller (Chair), K. Smith, M. Yasin

#### Competencies Required in the Program

Students will:

1. Be prepared for an entry level management trainee position in manufacturing or service industry, public sector of the economy, or in any other major business (profit or non-profit) enterprise.
2. Be qualified for graduate study in economics, finance, management, marketing, or any other field directly related to economics by completing a sequence of courses which prepares them to: (a) do basic analysis of economics and finance 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.*

3. *Complete a sequence of allied courses which directly enhance their ability to meet "Expected Economics Program Results" which include: (a) CIS 201 - Introduction to Computers, (b) Management 261 - The Legal Environment of Business Organizations, (c) Management 306 - Production Management, (d) Management 472 - Business Policy and Problems, (e) Math 152 - College Algebra, and (f) Math 354 - Business Statistics.*

#### Assessment Procedures

*Student surveys  
Exit examinations  
Independent written and oral assignments*

## Bachelor of Business Administration

### Economics Option

#### General Education Requirements

The following specific courses must be included in the 42 hour general education component (see general education requirements).

SPCH 370--Business and Professional Speech	3
MATH 152--College Algebra	3
MATH 354--Business Statistics	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3

#### Core Requirements

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
ECON 350--Microeconomic Theory	3
FIN 360--Business Finance	3
MKT 304--Marketing	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 301--Principles of Management	3
MNGT 306--Production Management	3
MNGT 472--Business Policies and Problems	3
OADM 321--Business Communications	3
	33

#### Course Requirements

BBA Core	33
ECON 302--Labor Economics	3
ECON 541--Public Finance	3
ECON 547--International Economics	3
ECON 551--Macroeconomic Theory	3
FIN 342--Money and Banking	3
*Approved electives	6
	44

## Bachelor of Science

### Minor

Students selecting programs with economics minors should first consult with advisors in their major areas.

#### Course Requirements

ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3
ECON 350--Microeconomic Theory	3
ECON 551--Macroeconomic Theory	3
FIN 342--Money and Banking	3
*Economics electives	6
	21

\*To be selected with consent of faculty advisor.

## Finance

Faculty--B. Davis, I. Huller, R. Peavler

### Competencies Required in the Program

Students will:

1. *Be prepared for an entry level management trainee position in the financial sector, in a manufacturing or service industry, or in any other major business (profit or non-profit) enterprise.*
2. *Be qualified for graduate study in finance, economics, management, marketing, or any other field directly related to finance by completing a sequence of finance courses which prepares them to: (a) do basic analysis of financial activity and/or events, (b) prepare written reports concerning financial activity and/or events, and (c) present oral reports concerning financial activity and/or events.*
3. *Complete a sequence of allied courses which directly enhance their ability to meet the "Expected Finance program Results" which include: (a) CIS 201 - Introduction to Computers, (b) Management 261 - The Legal Environment of Business Organizations, (c) Management 472 - Business Policy and Problems, (d) Math 152 - College Algebra, and (e) Math 354 - Business Statistics.*

#### Assessment Procedures

*Student Surveys  
Exit examination  
Independent written and oral assignments*

## Bachelor of Business

### Finance Option

#### General Education Requirements

The following specific courses must be included in the 42 hour general education component (see general education requirements).

SPCH 370--Business and Professional Speech	3
MATH 152--College Algebra	3
MATH 354--Business Statistics	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3

#### Core Requirements

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
ECON 350--Microeconomic Theory	3
FIN 360--Business Finance	3
MKT 304--Marketing	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 301--Principles of Management	3
MNGT 306--Production Management	3
MNGT 472--Business Policies and Problems	3
OADM 321--Business Communications	3
	33

#### Program Requirements

BBA Core	33
ACCT 387--Income Tax	3
FIN 343--Investments	3
FIN 460--Advanced Business Finance	3
FIN 560--Financial Markets; or	
FIN 342--Money and Banking	3
FIN 490--Seminar in Financial Theory and Practice	3
*Approved electives	6
	54

# Department of Information Sciences

Dr. Marvin Albin, Chair  
(606) 783-2163  
320 Combs Building

## Comprehensive Business

**Faculty**--R. Bernardi, J. Henson, H. Iwu, S. Luckey, H. Northcutt, G. Ousley

### Competencies Required in the Program

Upon completion of this program, the student should be able to:

1. Formulate appropriate objectives, courses of study, and evaluation criteria for a comprehensive business curriculum in grades 5-12.
2. Use effective communication skills.
3. Demonstrate ability to use appropriate teaching methods and to utilize effective classroom management and discipline techniques for business subjects in grades 5-12.
4. Create learning experiences and materials that will facilitate the development of problem-solving knowledge and skills in grades 5-12.
5. Develop and administer appropriate student assessment instruments for stated objectives.
6. Demonstrate subject matter competencies in BBA core, specialized, and professional education courses.
7. Understand the economic, legal, and ethical considerations as they affect the teaching profession and business organizations.

### Assessment Procedures

- Surveys of secondary supervisors of student teachers
- Surveys of students
- Proficiency examination
- A grade of "C" or better in each course in the comprehensive business core

## Bachelor of Business Administration

### Comprehensive Business Option

The comprehensive business curriculum will satisfy certification requirements for business courses in grades 5-12. Endorsements may be completed for teaching advanced data processing and computer science. Vocational approval may be received after completing 2,000 hours of acceptable work experience.

## General Education Requirements

The following specific courses must be included in the 46 hour general education component (see general education requirements).

	Sem. Hrs.
SPCH 370--Business and Professional Speech	3
MATH 152--College Algebra	3
MATH 354--Business Statistics	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3

## Professional Education Core

EDF 207--Foundations of Secondary Education	3
EDF 211--Human Growth and Development	3
EDMG 306--Dev. & Learning in Middle Grades	3
EDF 311--Learning Theories in the Classroom	3
EDSE 312--Teaching Skills and Media	3
EDSP 332--Teaching the Exceptional Student	2
EDSE 333--Field Experience in Secondary Education	2
EDSE 415 and 416--Professional Semester	14
	33

## Core for Teacher Education Programs

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
FIN 360--Business Finance	3
MKT 304--Marketing	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 301--Principles of Management	3
OADM 321--Business Communications	3
	24

## Program Requirements

BBA Core	24
OADM 112--Intermediate Typewriting	3
OADM 136--Business Calculations	3
OADM 220--Basic Information Processing	3
OADM 240--Records Management	3
OADM 320--Advanced Information Processing	3
OADM 340--Integrated Office Systems	3
OADM 363--Administrative Office Systems	3
OADM 475--Methods of Teaching Business Subjects	5
	50

## Suggested Course Sequence

### Freshman Year

#### First Semester

ENG 101--Composition I	3
BIOL 105--Introduction to Biological Science	3
CIS 201--Introduction to Computers	3
OADM 112--Intermediate Typewriting	3
OADM 136--Business Calculations	3
PHED--Activity Elective	1
	16

#### Second Semester

ENG 102--Composition II	3
HLTH 150--Personal Health	2
GOVT or GEO elective	3
MATH 152--College Algebra	3
SCI 103--Introduction to Physical Science	3
	14

### Sophomore Year

#### First Semester

ACCT 281--Principles of Accounting I	3
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EDF 207--Foundations of Secondary Education	3
MNGT 261--The Legal Environment of Business Organizations	3
OADM 220--Basic Information Processing	3
PSY 154--Introduction to Psychology	3
ECON 201--Principles of Economics I	3
	18
<b>Second Semester</b>	
ACCT 282--Principles of Accounting II	3
ECON 202--Principles of Economics II	3
EDF 211--Human Growth and Development	3
OADM 240--Records Management	3
EDMG 306--Dev. & Learning in Middle Grades	3
	15

### Junior Year

<b>First Semester</b>	
EDF 311--Learning Theories in the Classroom	3
MATH 354--Business Statistics	3
MKT 304--Marketing	3
OADM 320--Advanced Information Processing	3
OADM 340--Integrated Office Systems	3
ENG--Literature Elective	3
	18
<b>Second Semester</b>	
MNGT 301--Principles of Management	3
OADM 321--Business Communications	3
EDSE 312--Teaching Skills and Media	3
FIN 360--Business Finance	3
OADM 363--Administrative Office Systems	3
EDSE 333--Field Experience in Secondary Education	2
	17

### Senior Year

<b>First Semester</b>	
Social and Behavior Sciences Elective	3
EDSP 332--Teaching the Exceptional Child	2
OADM 475--Methods of Teaching Business Subjects	5
Humanities Elective	3
SPCH 370--Business and Professional Speech	3
	16
<b>Second Semester</b>	
EDSE 415 and 416--Professional Semester	14

## Bachelor of Science

### Minor

For students who are majoring in another discipline and who do not desire teacher certification in business education. Students selecting a Comprehensive Business minor should first consult with advisors in their major areas.

### Core Requirements

ACCT 281--Principles of Accounting I	3
CIS 201--Introduction to Computers	3
OADM--Typewriting	3
OADM 136--Business Calculations	3
OADM 321--Business Communications	3
OADM 363--Administrative Office Systems	3
Approved elective in Business	3
	21

## Computer Information Systems

**Faculty**--M. Albin (Chair), M. Aminilari, B. Bailey, H. Berry, C. Hicks

### Competencies Required in the Program

Upon completion of this program, the student 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 structures.
3. Apply concepts and processes of, as well as an understanding, computer information systems development.
4. Design and implement a simple information system.
5. Understand the characteristics and uses 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 COBOL or C and have that program execute successfully.

### Assessment Procedures

2.25 g.p.a. for all BBA core and CIS options course with a grade of "C" or higher in all CIS courses  
Portfolio

## Bachelor of Business Administration

### Computer Information Systems

### General Education Requirements

The following specific courses must be included in the 43-hour general education component (see general education requirements).

SPCH 370--Business and Professional Speech	3
MATH 152--College Algebra	3
MATH 354--Business Statistics	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3

### Core Requirements

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
ECON 350--Microeconomic Theory	3
FIN 360--Business Finance	3



MKT 304--Marketing	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 301--Principles of Management	3
MNGT 306--Production Management	3
MNGT 472--Business Policies and Problems	3
OADM 321--Business Communications	3
	33

### BBA Core

CIS 200--Logic and Prog. Design	3
CIS 205--Fundamentals of C Language; or CIS 215--COBOL I	3
CIS 305--Advanced C Language; or CIS 315--COBOL II	3
CIS 311--Intro. to Management Information Systems	3
CIS 325--Analysis and Design	3
CIS 426--Database Management	3
CIS 445--Senior Project	3
Approved CIS Electives	6

### Suggested Course Sequence

#### Freshman Year

##### First Semester

CIS 201--Introduction to Computers	3
ENG 101--Composition I	3
MATH 152--College Algebra	3
SCI 103--Introduction to Physical Science	3
GOVT or GEO approved general elective	3
	15

##### Second Semester

BIOL 105--Introduction to Biological Science	3
CIS 200--Logic and Prog. Design	3
ENG 102--Composition II	3
Humanities elective	3
PSY 154--Introduction to Psychology; or SOC elective	3
PHED activity	1
	16

#### Sophomore Year

##### First Semester

ACCT 281--Principles of Accounting I	3
CIS 205--Fundamentals of C Language; or CIS 215--Structured Programming COBOL I	3
ECON 201--Principles of Economics I	3
HLTH 150--Personal Health*	2
ENG--Literature elective	3
MNGT 261--The Legal Environment of Business Organizations	3
	17

##### Second Semester

ACCT 282--Principles of Accounting II	3
CIS 305--Advanced C Language; or CIS 315--Structured Programming COBOL II	3
ECON 202--Principles of Economics II	3
OADM 321--Business Communications	3
SPCH 370--Business and Professional Speech	3
	15

#### Junior Year

##### First Semester

CIS 311--Introduction to Management Information Systems	3
FIN 360--Business Finance	3
MNGT 301--Principles of Management	3
General Electives	7
	16

##### Second Semester

CIS 325--Analysis and Design of Computer	
--	--

Business Information Systems	3
MATH 354--Business Statistics	3
MKT 304--Marketing	3
CIS approved elective	3
General electives	3
	15

#### Senior Year

##### First Semester

CIS 426--Database Management Systems	3
ECON 350--Microeconomic Theory	3
MNGT 306--Production Management	3
CIS approved elective	3
General electives	4
	16

##### Second Semester

CIS 445--Senior Project	3
MNGT 472--Business Policies and Problems	3
General electives	10
	16

\*HLTH 203, Safety and First Aid (3 hrs.), can be taken in place of both HLTH 150, Personal Health (2 hrs.), and PHED activity (1 hr.).

### Minor

Students selecting a Computer Information Systems minor should first consult with advisors in their major areas.

CIS 200--Logic and Prog. Design	3
CIS 201--Introduction to Computers	3
CIS 205--Fundamentals of C Language; or CIS 215--COBOL I	3
CIS 301--Microcomputers	3
CIS 311--Introduction to Management Information Systems	3
CIS 325--Analysis and Design	3
CIS approved electives	6
	24

## Office Systems

**Faculty**--R. Bernardi, J. Henson, H. Iwu, S. Luckey, H. Northcutt, G. Ousley

### Competencies Required in the Program

Upon completion of this program, the student should be able to:

1. Successfully perform in positions related to Office Systems.
2. Integrate office resources to provide an efficient and productive office system.
3. Understand the support role of Office Systems in the context of the total organization.
4. Develop and utilize human, conceptual, and technical skills related to office systems.
5. Understand and apply general principles of business administration and economics.
6. Demonstrate proficiency in document preparation using electronic equipment including computers

and word processing software and efficient office procedures.

### Assessment Procedures

Minimum g.p.a. of 2.0 in the general education component, the common core of courses for business students, and the specialized core of courses in the program

Surveys of students

## Bachelor of Business Administration

### Office Systems Option

This program is designed to prepare graduates with the knowledge, skills, and attitudes needed by office professionals to integrate office resources: people, information, and technology. The office systems approach will provide students with the human, conceptual, and technical skills needed in the office where functions have shifted from being a support center of individual tasks to being an integrated center for business information.

### General Education Requirements

The following specific courses must be included in the 43-hour general education component (see general education requirements).

SPCH 370--Business and Professional Speech	3
MATH 152--College Algebra	3
MATH 354--Business Statistics	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3
	15

### Core Requirements

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
ECON 350--Microeconomic Theory	3
MNGT 261--Legal Environment of Business Organization	3
MNGT 301--Principles of Management	3
MNGT 306--Production Management	3
MNGT 472--Business Policies and Problems	3
MKT 304--Marketing	3
OADM 321--Business Communications	3
FIN 360--Business Finance	3
	33

### Program Requirements

OADM 112--Intermediate Typewriting	3
OADM 130--Speedwriting	3
OADM 136--Business Calculations	3
OADM 220--Basic Information Processing	3
OADM 234--Specialized Office Procedures	3
OADM 240--Records Management	3
OADM 320--Advanced Information Processing	3
OADM 340--Integrated Office Systems	3
OADM 363--Administrative Office Systems	3
OADM 398--Supervised Field Experience	3
	30

## Suggested Course Sequence

### Freshman Year

<b>First Semester</b>	
ENG 101--Composition I	3
BIOL 105--Introduction to Biological Science	3
HLTH 150--Personal Health*	2
OADM 136--Business Calculations	3
OADM 130--Speedwriting	3
Humanities Elective	3
	17
<b>Second Semester</b>	
ENG 102--Composition II	3
SCI 103--Introduction to Physical Science	3
CIS 201--Introduction to Computers	3
MATH 152--College Algebra	3
OADM 112--Intermediate Typewriting	3
	15

### Sophomore Year

<b>First Semester</b>	
ACCT 281--Principles of Accounting I	3
OADM 220--Basic Information Processing	3
ECON 201--Principles of Economics I	3
SOC or PSY--Elective	3
PHED Activity	1
Electives	3
	16
<b>Second Semester</b>	
OADM 240--Records Management	3
ACCT 282--Principles of Accounting II	3
ECON 202--Principles of Economics II	3
MNGT 261--The Legal Environment of Business Organizations	3
Electives	3
	15

### Junior Year

<b>First Semester</b>	
OADM 320--Advanced Information Processing	3
OADM 234--Specialized Office Procedures	3
MNGT 301--Principles of Management	3
ENG--Literature Elective	3
Electives	3
	15
<b>Second Semester</b>	
OADM 321--Business Communications	3
OADM 340--Integrated Office Systems	3
MKT 304--Marketing	3
GOVT or GEO--Elective	3
FIN 360--Business Finance	3
Electives	3
	18

### Senior Year

<b>First Semester</b>	
OADM 363--Administrative Office Systems	3
MATH 354--Business Statistics	3
ECON 350--Microeconomic Theory	3
SPCH 370--Business and Professional Speech	3
	15
<b>Second Semester</b>	
OADM 398--Supervised Field Experience	3
MNGT 306--Production Management	3
MNGT 472--Business Policies and Problems	3
Electives	7
	16

\*HLTH 203, Safety and First Aid (3 hrs.) can be taken in place of both HLTH 150, Personal Health (2 hrs.), and PHED Activity (1 hr.).

## Minor

Students selecting an Office Systems minor should first consult with advisors in their major areas.

### Course Requirements

ACCT 281--Principles of Accounting I	3
OADM 112--Intermediate Typewriting	3
OADM 130--Speedwriting	3
OADM 136--Business Calculations	3
OADM 220--Basic Information Processing	3
OADM 234--Specialized Office Procedures	3
OADM 240--Records Management	3
	21

## Associate of Applied Business

(Two-Year Program)

### Competencies Required in the Program

Upon completion of this program, the student should be able to:

1. Demonstrate skills in keyboarding, dictation/transcription, and document preparation using efficient office procedures and electronic equipment including computers and word processing software.
2. Understand the support role of office systems in an electronic office and the importance of information in the context of the total organization.
3. Communicate ideas effectively both orally and in writing.
4. Exhibit desirable human relations in the office.
5. Perform in a selected area of specialization: medical, legal, or administrative management.
6. Display skill in basic accounting applications, in records management, and information processing.

### Assessment Procedures

Minimum g.p.a. of 2.0 required to complete the program

Surveys of students

This program is designed to prepare graduates for secretarial and other administrative support positions in business, industry, government, legal, and medical fields.

## Course Requirements

### General Education Requirements

CIS 201--Introduction to Computers	3
ECON 201--Principles of Economics I	3
ENG 101--Composition I	3
ENG 102--Composition II; or	
ENG 192--Technical Composition	3
MATH 131--General Math (or higher)	3
PSY 154--Introduction to Psychology	3
SPCH 110--Basic Speech; or	
SPCH 370--Business and Professional Speech	3
	21

## Core Requirements

ACCT 182--Principles of Accounting I	3
OADM 112--Intermediate Typewriting	3
OADM 130--Speed Writing	3
OADM 136--Business Calculations	3
OADM 220--Basic Information Processing	3
OADM 240--Records Management	3
OADM 320--Advanced Information Processing	3
OADM 321--Business Communications	3
OADM 340--Integrated Office Systems	3
OADM 363--Administrative Office Systems	3
OADM 398--Supervised Field Experience	3
	31

## Options in One of the Following Three Areas:

### Administrative Management Option

ACCT 282--Principles of Accounting II	3
CIS 301--Microcomputers	3
MNGT 310--Small Business Organization	3
Electives	3
	12

## Suggested Course Sequence

### Freshman Year

<b>First Semester</b>	
CIS 201--Introduction to Computers	3
OADM 112--Intermediate Typewriting	3
OADM 130--Speedwriting	3
ENG 101--Composition I	3
MATH 131--General Math (or higher)	3
	15

### Second Semester

ENG 102 or ENG 192	3
OADM 136--Business Calculations	3
OADM 220--Basic Information Processing	3
ECON 201--Principles of Economics I	3
PSY 154--Introduction to Psychology	3
	15

### Sophomore Year

#### First Semester

ACCT 281--Principles of Accounting I	3
CIS 301--Microcomputers	3
OADM 240--Records Management	3
MNGT 310--Small Business Organization	3
OADM 321--Business Communications	3
OADM 320--Advanced Information Processing	3
	18

#### Second Semester

ACCT 282--Principles of Accounting II	3
OADM 340--Integrated Office Systems	3
OADM 363--Administrative Office Systems	3
SPCH 110--Basic Speech; or	
SPCH 370--Business and Professional Speech	3
OADM 398--Supervised Field Experience	1
Electives	3
	16

## Legal Secretarial Option

OADM 234--Specialized Office Procedures	3
OADM 320--Advanced Information Processing	3
GOVT 141--United States Government	3
MNGT 261--Legal Environment of Business Organizations	3
Electives	3
	15

**Suggested Course Sequence****Freshman Year****First Semester**

ENG 101--Composition I	3
GOVT 141--United States Government	3
OADM 112--Intermediate Typewriting	3
OADM 130--Speedwriting	3
MATH 131--General Math (or higher)	3
	15

**Second Semester**

ENG 102--Composition II; or ENG 192--Technical Composition	3
CIS 201--Introduction to Computers	3
OADM 136--Business Calculations	3
OADM 220--Basic Information Processing	3
OADM 240--Records Management	3
	15

**Sophomore Year****First Semester**

OADM 234--Specialized Office Procedures	3
MNGT 261--Legal Environment of Business Organizations	3
OADM 320--Advanced Information Processing	3
ACCT 281--Principles of Accounting I	3
ECON 201--Principles of Economics I	3
PSY 154--Introduction to Psychology	3
	18

**Second Semester**

OADM 321--Business Communications	3
OADM 340--Integrated Office Systems	3
OADM 363--Administrative Office Systems	3
SPCH 110--Basic Speech; or SPCH 370--Business and Professional Speech	3
OADM 398--Supervised Field Experience	1
Electives	3
	16

**Medical Secretarial Option**

OADM 234--Specialized Office Procedures	3
NAHS 202--Medical Terminology	2
NUR 151--Interpersonal Skills for Health Promotions	2
Electives	3
	11

**Suggested Course Sequence****Freshman Year****First Semester**

ENG 101--Composition I	3
CIS 201--Introduction to Computers	3
MATH 131--General Math (or higher)	3
OADM 112--Intermediate Typewriting	3
OADM 130--Speedwriting	3
PDI 100--Personal Development	1
	16

**Second Semester**

ENG 102--Composition II	3
OADM 136--Business Calculations	3
OADM 220--Basic Information Processing	3
NAHS 202--Medical Terminology	2
PSY 154--Introduction to Psychology	3
Electives	3
	17

**Sophomore Year****First Semester**

OADM 234--Specialized Office Procedures	3
OADM 240--Records Management	3
ACCT 281--Principles of Accounting I	3
OADM 320--Advanced Information Processing	3
Electives	3
	15

**Second Semester**

OADM 321--Business Communications	3
OADM 340--Integrated Office Systems	3
OADM 363--Administrative Office Systems	3
OADM 398--Supervised Field Experience	1
SPCH 370--Business and Professional Speech	3
Electives	3
	16



# Department of Management and Marketing

Dr. Michael Harford, Chair  
(606) 783-2164  
313 Combs Building

## Management

Faculty--D. Barber, C. Caudill, M. Harford (Chair), R. Meadows, K. Moore, J. Peters

### Competencies Required in the Program

Students completing the program will have:

1. An understanding of organizational types and behavior.
2. An understanding of organizational transactions and the roles of organizations in society.
3. An understanding of the use of management theory and the practices of management.
4. The ability to devise and implement a variety of managerial strategies, including those dealing with human resource management and labor relations.
5. The ability to identify issues and devise appropriate courses of action for small business management.
6. The ability to identify the specific legal and ethical concerns in business, and devise appropriate courses of action for organizations in problem resolution.

### Assessment Procedures

Portfolio  
Business capstone course  
Exit examination

## Bachelor of Business Administration

### Management Option

### General Education Requirements

The following specific courses must be included in the 42-hour general education component (see general education requirements).

	Sem. Hrs.
SPCH 370--Business and Professional Speech	3
MATH 152--College Algebra	3
MATH 354--Business Statistics	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3

### Core Requirements

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3

ECON 350--Microeconomic Theory	3
FIN 360--Business Finance	3
MKT 304--Marketing	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 301--Principles of Management	3
MNGT 306--Production Management	3
MNGT 472--Business Policies and Problems	3
OADM 321--Business Communications	3
	33

### Program Requirements

BBA Core	33
ACCT 300--Managerial Accounting; or ACCT 390--Cost Accounting I	3
MNGT 310--Small Business Organization	3
MNGT 311--Personnel Management	3
MNGT 411--Labor Relations	3
MNGT 463--Law and Ethics in Business	3
Approved electives	6
	54

### Suggested Course Sequence

#### Freshman Year

<b>First Semester</b>	
General Electives	4
ENG 101--Composition I	3
SCI 103--Introduction to Physical Sciences; or CHEM 100--Basic Chemistry or higher	3
GOVT 141--United States Government; or GEO 100--Fundamentals of Geography	3
HLTH 150--Personal Health	2
PHED elective	1
	16

#### Second Semester

General Electives (MNGT 160 recommended)	3
ENG 102--Composition II	3
MATH 152--College Algebra	3
BIOL 105--Introduction to Biological Sciences or higher	3
SOC or PSY General Education requirement	3
	15

#### Sophomore Year

<b>First Semester</b>	
General Electives	4
MNGT 261--The Legal Environment of Business Organizations	3
ECON 201--Principles of Economics I	3
ACCT 281--Principles of Accounting I	3
CIS 201--Introduction to Computers	3
	16

#### Second Semester

General Electives	4
ECON 202--Principles of Economics II	3
ACCT 282--Principles of Accounting II	3
MATH 354--Business Statistics	3
ENG 202--Introduction to Literature; or ENG 211--Introduction to World Literature	3
	16

#### Junior Year

<b>First Semester</b>	
General Electives	4
SPCH 370--Business and Professional Speech	3
ECON 350--Microeconomic Theory	3
ACCT 300--Managerial Accounting; or ACCT 390--Cost Accounting II	3
MNGT 301--Principles of Management	3
	16

**Second Semester**

General Electives	4
ART 263--Introduction to Ancient Art; or FNA 160--Appreciation of the Fine Arts	3
FIN 360--Business Finance	3
MNGT 311--Personnel Management	3
MKT 304--Marketing	3
	16

**Senior Year****First Semester**

General Electives	4
MNGT 306--Production Management	3
MNGT 310--Small Business Organization	3
OADM 321--Business Communications	3
Approved Management electives	6
	16

**Second Semester**

General Electives	4
Approved Management electives	3
MNGT 411--Labor Relations	3
MNGT 463--Law & Ethics in Business	3
MNGT 472--Business Policies and Problems	3
	16

3. An understanding of the concepts of consumer behavior and an ability to identify and implement effective marketing strategies for consumer behavior.
4. An ability to engage in the planning and implementation of the sales process.
5. An ability to do market research, including the collection and analysis of data.
6. An ability to devise and implement promotional strategies for products and services.
7. An ability to apply marketing principles and practices in a policy making environment.

A complete statement of the business and marketing program competencies is available in the marketing program.

**Assessment Procedures**

Portfolio

Business capstone course

Exit examination

## Bachelor of Science

### Minor in Business Administration

Students selecting programs with business administration minor should first consult with advisors in their major areas.

**Core Requirements**

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
FIN 360--Business Finance	3
MKT 304--Marketing	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 301--Principles of Management	3
MNGT 306--Production Management	3
	24

In addition, students completing this minor are required to include ECON 201 and 202 as part of their general education courses.

## Marketing

Faculty--R. Carlson, M. Harford (Chair), P. Osborne, B. Pierce

**Competencies Required in the Program**

Students completing the program will have:

1. An understanding of the marketing mix of product, price, promotion and distribution.
2. An ability to identify issues and resolve problems in the management of marketing functions.

## Bachelor of Business Administration

### Marketing Option

**General Education Requirements**

The following specific courses must be included in the 42-hour general education component (see general education requirements).

SPCH 370--Business and Professional Speech	3
MATH 152--College Algebra	3
MATH 354--Business Statistics	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3

**Core Requirements**

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
ECON 350--Microeconomic Theory	3
FIN 360--Business Finance	3
MKT 304--Marketing	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 301--Principles of Management	3
MNGT 306--Production Management	3
MNGT 472--Business Policies and Problems	3
OADM 321--Business Communications	3
	33

**Program Requirements**

BBA Core	33
MKT 350--Salesmanship	3
MKT 354--Consumer Behavior	3
MKT 453--Marketing Planning and Strategies	3
MKT 452--Marketing Research and Analysis	3
MKT 454--Promotional Strategies	3
Approved electives	6

## Suggested Course Sequence

### Freshman Year

#### First Semester

General Elective (MNGT 160-recommended)	3
ENG 101--Composition I	3
SCI 103--Introduction to Physical Sciences; or CHEM 100--Basic Chemistry or higher	3
GOVT 141--United States Government; or GEO 100--Fundamentals of Geography	3
HLTH 150--Personal Health	2
PHED elective	1
	15

#### Second Semester

CIS 201--Introduction to Computers	3
ENG 102--Composition II	3
MATH 152--College Algebra	3
BIOL 105--Introduction to Biological Science	3
SOC or PSY General Education requirement	3
	15

### Sophomore Year

#### First Semester

General Electives	4
MNGT 261--Legal Environment of Business Organizations	3
ECON 201--Principles of Economics I	3
ACCT 281--Principles of Accounting I	3
ART 263--Introduction to Ancient Art; or FNA 160--Appreciation of the Fine Arts	3
	16

#### Second Semester

General Electives	4
ECON 202--Principles of Economics II	3
ACCT 282--Principles of Accounting II	3
MATH 354--Business Statistics	3
ENG 202--Introduction to Literature; or ENG 211--Introduction to World Literature	3
	16

### Junior Year

#### First Semester

General Electives	4
SPCH 370--Business and Professional Speech	3
ECON 350--Microeconomic Theory	3
MKT 304--Marketing	3
MNGT 301--Principles of Management	3
	16

#### Second Semester

General Electives	2
Approved Marketing elective	3
OADM 321--Business Communications	3
FIN 360--Business Finance	3
MKT 350--Salesmanship	3
MKT 354--Consumer Behavior	3
	17

### Senior Year

#### First Semester

General Electives	7
MNGT 306--Production Management	3
MKT 454--Promotional Strategies	3
MKT 452--Marketing Research and Analysis	3
	16

#### Second Semester

General Electives	7
Approved Marketing elective	3
MNGT 472--Business Policies and Problems	3
MKT 453--Marketing Planning and Strategies	3
	16

## Bachelor of Science

### Minor

Students selecting programs with marketing minor should first consult with advisors in their major areas.

### Course Requirements

MNGT 261--The Legal Environment of Business Organizations	3
MKT 304--Marketing	3
MKT 453--Marketing Planning and Strategies	3
MKT 454--Promotional Strategies	3

Twelve hours of electives to be chosen from the following:

MKT 305--Purchasing	3
MKT 350--Salesmanship	3
MKT 351--Sales Management	3
MKT 354--Consumer Behavior	3
MKT 451--Retail Merchandising	3
MKT 555--Advertising	3
MKT 452--Marketing Research and Analysis	3
MKT 417--Public Agency and Nonprofit Organizations	3
MKT 469--International Marketing	3
	24

## Real Estate

**Faculty**--M. Harford (Chair), B. McCormick

### Competencies Required in the Program

Students completing the program will have:

1. An understanding of the role of real estate in the economic system.
2. An understanding of the role of the licensed real estate broker and sales person in the real estate transaction.
3. An understanding of the various laws impacting real estate transactions.
4. The ability to calculate and explain sales and lease financial transactions in real estate.
5. The ability to engage in appropriate practices of real estate valuation.
6. The ability to devise and implement a real estate property management and marketing plan.

A complete statement of the business and real estate program competencies is available in the real estate program.

### Assessment Procedures

Portfolio

Business capstone course

Exit examination

# Bachelor of Business Administration

## Real Estate Option

### General Education Requirements

The following specific courses must be included in the 42-hour general education component (see general education requirements).

SPCH 370--Business and Professional Speech	3
MATH 152--College Algebra	3
MATH 354--Business Statistics	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3

### Core Requirements

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
ECON 350--Microeconomic Theory	3
FIN 360--Business Finance	3
MKT 304--Marketing	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 301--Principles of Management	3
MNGT 306--Production Management	3
MNGT 472--Business Policies and Problems	3
OADM 321--Business Communications	3
	33

### Program Requirements

BBA Core	33
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	6
	54

### Suggested Course Sequence

#### Freshman Year

<b>First Semester</b>	
General Electives (MNGT 160 recommended)	3
ENG 101--Composition I	3
SCI 103--Introduction to Physical Sciences; or CHEM 100--Basic Chemistry or higher	3
GOVT 141--Government of the United States; or GEO 100--Fundamentals of Geography	3
HLTH 150--Personal Health	2
PHED elective	1
	15

<b>Second Semester</b>	
General Electives	4
ENG 102--Composition II	3
MATH 152--College Algebra	3
BIOL 105--Introduction to Biological Sciences or higher	3
SOC or PSY General education requirement	3

#### Sophomore Year

<b>First Semester</b>	
General Elective	1
MNGT 261--Legal Environment of Business Organizations	3
ECON 201--Principles of Economics I	3
ACCT 281--Principles of Accounting I	3

CIS 201--Introduction to Computers	3
ENG 202--Introduction to Literature; or ENG 211--Introduction to World Literature	3
	16

#### Second Semester

General Electives	4
ECON 202--Principles of Economics II	3
ACCT 282--Principles of Accounting II	3
MATH 354--Business Statistics	3
REAL 105--Principles of Real Estate	3
	16

#### Junior Year

##### First Semester

General Electives	4
SPCH 370--Business and Professional Speech	3
REAL 310--Real Estate Law	3
MKT 304--Marketing	3
REAL 325--Appraisal of Residential Property	3
	16

##### Second Semester

General Electives	4
FNA 160--Appreciation of Fine Arts	3
REAL 331--Real Estate Finance	3
ECON 350--Microeconomic Theory	3
MNGT 301--Principles of Management	3
	16

#### Senior Year

##### First Semester

General Electives	4
MNGT 306--Production Management	3
OADM 321--Business Communications	3
REAL 320--Real Estate Marketing	3
Approved Real Estate Elective	3
	16

##### Second Semester

General Electives	4
Approved Real Estate Elective	3
REAL 330--Real Estate Property Management	3
MNGT 472--Business Policies and Problems	3
FIN 360--Business Finance	3
	16

# Bachelor of Science

## Minor

Students selecting programs with real estate minor should first consult with advisors in their major areas.

### 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
	24

# Associate of Applied Business

### Course Requirements

ACCT 281--Principles of Accounting I	3
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## Course Requirements

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3
ENG 101--Composition I	3
ENG 102--Composition II	3
FIN 252--Mathematics of Finance	3
FIN 407--Principles of Insurance	3
OADM 321--Business Communications	3
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
REAL 400--Real Estate Brokerage	3
Real Estate elective	3
SOC 101--General Sociology	3
Approved electives	10
	64

## Suggested Course Sequence

### Freshman Year

#### First Semester

ECON 201--Principles of Economics I	3
ENG 101--Composition I	3
SOC 101--General Sociology	3
CIS 201--Introduction to Computers	3
REAL 105--Principles of Real Estate	3
Electives (MNGT 160 recommended)	3
	18

#### Second Semester

ENG 102--Composition II	3
FIN 252--Mathematics of Finance	3
ECON 202--Principles of Economics II	3
REAL 310--Real Estate Law	3
Elective	3
	15

### Sophomore Year

#### First Semester

REAL 320--Real Estate Marketing	3
ACCT 281--Principles of Accounting I	3
REAL 325--Appraisal of Residential Property	3
OADM 321--Business Communications	3
Electives	4
	16

#### Second Semester

Approved Real Estate elective	3
REAL 400--Real Estate Brokerage	3
REAL 331--Real Estate Finance	3
ACCT 282--Principles of Accounting II	3
FIN 407--Principles of Insurance	3
	15

## Small Business Management

Faculty--M. Harford (Chair), R. Meadows, W. Grier

## Associate of Applied Business

The two-year program in Small Business Management is recommended for students who desire to

organize or own a small business firm, as well as those who are presently employed as managers or who desire to become managers. The program is designed to meet the specific needs of small business organizations and to help students acquire the knowledge to fill these needs.

## Course Requirements

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
CIS 201--Introduction to Computers	3
ECON 101--Introduction to the American Economy	3
ENG 101--Composition I	3
ENG 102--Composition II	3
FIN 252--Mathematics of Finance	3
MKT 304--Marketing	3
MKT 305--Purchasing	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 310--Small Business Organization	3
MNGT 311--Personnel Management	3
OADM 136--Business Calculations	3
OADM 321--Business Communications	3
OADM 363--Administrative Office Systems	3
SPCH 110--Basic Speech; or	
SPCH 370--Business and Professional Speech	3
Approved electives	16
	64

## Suggested Course Sequence

### Freshman Year

#### First Semester

Introduction to American Economy	3
ENG 101--Composition I	3
SPCH 110--Basic Speech	3
CIS 201--Introduction to Computers	3
Electives (MNGT 160 recommended)	3
	15

#### Second Semester

ENG 102--Composition II	3
FIN 252--Mathematics of Finance	3
MNGT 261--Legal Environment of Business Organizations	3
OADM 136--Business Calculations	3
Electives	5
	17

### Sophomore Year

#### First Semester

MKT 304--Marketing	3
ACCT 281--Principles of Accounting I	3
MNGT 311--Personnel Management	3
OADM 321--Business Communications	3
Electives	4
	16

#### Second Semester

MNGT 310--Small Business Organization	3
OADM 363--Administrative Office Systems	3
MKT 305--Purchasing	3
ACCT 282--Principles of Accounting II	3
Electives	4
	16

## College of Education and Behavioral Sciences

Richard Daniel (Interim Dean)  
(606) 783-2040  
100 Ginger Hall

Department of Elementary, Reading and Special Education  
Department of Leadership and Secondary Education  
Department of Health, Physical Education and Recreation  
Department of Military Science  
Department of Psychology  
Department of Sociology



## Teacher Education Program and Professional Laboratory Experiences

Teacher education is a field-based program that provides extensive laboratory experiences with children 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 Field Experience and Admissions Coordinator.

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 certificate of eligibility to enter the Kentucky Teacher Internship Program in their first year of teaching, provided they meet certification requirements in effect at the time of graduation. Programs may change due to changes in certification requirements. Since certification requirements change, students should check with their advisors to be certain they meet requirements in effect when they complete their programs.

## Teacher Education Program

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

Students seeking either elementary, middle level or secondary certification must also 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 given to each student during the time they are enrolled in Foundations of Education or Human Growth and Development. The policies set forth in this booklet must be complied with at the time of application. Transfer students who have completed Foundations of Education and/or Human Growth and Development at another institution will need to request this booklet from the Field Experience and Admissions Coordinator's Office.

## 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 K-4) or middle grades (teaching certification in grades 5-8). Students in special education must select an area of concentration in learning and behavior disorders and early elementary (LBD and K-4 teaching certification), learning and behavior disorders and middle grades (LBD and 5-8 teaching certification), trainable mentally handicapped and early elementary (TMH and K-4 teaching certification) or trainable mentally handicapped and middle grades (TMH and 5-8 teaching certification).

The areas of concentration in special education provide teaching certification in LBD and TMH for grades kindergarten through grade twelve (K-12). Since special education teachers receive dual certification they may teach in either special education classes or the regular classroom.

The Kentucky Department of Education is in the process of changing the requirements for Trainable Mentally Handicapped certification (TMH). Students admitted to the Teacher Education Program after September 1, 1994, will have to meet the new standards established by the Education Professional Standards Board. All students in the TMH program under the present requirements must complete their program by September 1, 1997.

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

## Secondary Education

Students seeking secondary school certification (grades 9-12) must include in their program of study either an area of concentration, a major or a minor from the following listing as required by the Kentucky State Department of Education.

### Areas of Concentration:

art  
 English  
 industrial education--orientation and exploration levels  
 industrial education--preparation levels  
 mathematics--physical science  
 music  
 science (emphasis in biology, chemistry, earth science, and physics)  
 social studies  
 vocational agriculture  
 vocational home economics

Teaching Majors:

art	health
comprehensive business	history
biology	mathematics
chemistry	physical education
earth science	physics
English	Spanish
French	

Teaching Minors:

art	history
English	mathematics
French	Spanish
health	

**Admission to Teacher Education**

Students should apply for admission to the teacher education program during the semester in which they are enrolled in Foundations of Education and/or Human Growth and Development. Failure to apply at the sophomore level may result in an extended program.

**Criteria for Admission**

1. Formal application should be filed during the semester in which the student is enrolled in Human Growth and Development.
2. Completion of 45 semester hours for secondary students; 30 semester hours for elementary, middle school, and special education students.
3. An unofficial copy of the student's transcript with a minimum cumulative grade-point average of 2.50 on a 4.0 scale on all college courses attempted must accompany the application. All transfer courses, as well as MSU credit, is used in calculating the grade point average.
4. Three recommendations from instructors familiar with applicant's qualifications. Transfer students may submit recommendations from instructors at their previous institution.
5. Successful completion of speech and hearing screening test.
6. Successful completion of Comprehensive Test of Basic Skills-Benchmark Edition with the minimum scores required by the Kentucky Department of Education or a minimum composite score of 19 on the ACT. A minimum composite score of 21 is required on the ACT enhanced test to exempt students from the CTBS requirement. The CTBS Benchmark includes tests on language arts, mathematics, reading and spelling.
7. Successful completion of prerequisite courses (EDF 207, EDF 211, PSY 154, and SPCH 110 or 370) and prescribed pre-professional laboratory experiences.

8. Demonstrated proficiency in oral and written communication. (Successful completion of English Composition I and II; or Composition III, or Technical Composition, where applicable. Minimum grade of "C" in each course.)
9. All students must have an official copy of their ACT scores on file in the MSU Testing Center (501 Ginger Hall) to be eligible for admission to the TEP.
10. Demonstrated moral, ethical, and social behavior commensurate with standards of the school and community-at-large.
11. Recommendation by College Admission Interview Committee.
12. Have been admitted to Morehead State University. Transfer students who were recently admitted to a teacher education program 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 and major. Transfer students must meet the requirements listed above.

Transfer students and graduate students seeking initial certification must apply immediately for admission to the program and meet criteria outlined above. Graduate students seeking initial certification must be admitted to the Teacher Education Program.

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. Transfer or substitution of education courses shall be approved by the appropriate department in the College of Education and Behavioral Sciences. 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 and Behavioral Sciences. Readmission to provisional certification programs is contingent upon fulfilling current teacher education program admission requirements.

Students not attaining the minimum CTBS score(s) should complete an appropriate tutoring program in the Learning Lab in Allie Young Hall. Applicants may take the CTBS an unlimited number of times but are restricted to taking it only one time each semester.

Permission to register for restricted courses *limited to a maximum of two courses for one semester only*, may be given by the Field Experience and Admissions Coordinator. Such permission requires the approval and recommendation of the student's advisor.

Retention in the teacher education program is dependent upon the maintenance of the levels of performance required for admission. Any student denied



admission to, or suspended from, the teacher education program may reapply for admission once each semester.

### Admission Procedures

**Step 1** -- Enroll in Foundations of Education (EDF 207--3 hours).

- A. Complete Comprehensive Test of Basic Skills in the Testing Center, 501 Ginger Hall, if ACT is below 19 or 21 for enhanced test.
- B. All applicants must have an official copy of their ACT scores on file in MSU's Testing Center in 501 Ginger Hall.
- C. Complete assigned pre-student teaching laboratory experiences in a public school.

**Step 2** -- Enroll in EDF 211, Human Growth and Development.

- A. Complete formal application for admission to teacher education program.
- B. Obtain three recommendations from instructors familiar with applicant's qualifications.
- C. Complete speech, hearing, and vision screening.
- D. Obtain official copy of transcript from the Office of Registrar to accompany completed application.

**Step 3** -- Applicants take completed application to the Field Experience and Admissions Coordinator for review.

**Step 4** -- The student arranges for an interview with the Admissions Interview Chair.

**Step 5** -- The Admissions Interview Committee chairperson will return all materials to the Teacher Education Office in Ginger Hall, for final review by the University Teacher Education Council.

### Courses for Which Admission to the Teacher Education Program is a Prerequisite

AGR 580--Methods of Teaching Vocational Agriculture  
 AGR 582--Adult and Young Farmer Education  
 AGR 584--Teaching Vocational Agriculture  
 AGR 586--Planning Programs in Vocational Agriculture  
 AGR 588--Curriculum Development and Content Selections  
 AGR 592--Supervision in Agriculture  
 ART 300--Elementary Materials and Methods  
 ART 321--Materials and Methods of Secondary Art  
 BIOL 485--Biology Teaching Methods  
 EDEC 529--Practicum in Early Childhood Education  
 EDEE 321--Number Concepts and Mathematics  
 EDEE 322--Teaching Social Studies in Early Elementary Grades  
 EDEE 323--Language Arts for Early Elementary  
 EDEE 331--Reading for Early Elementary Teachers  
 EDEE 423--Supervised Student Teaching Practicum  
 EDEM 426--Pre-Student Teaching Seminar  
 EDF 311--Learning Theories for Teachers  
 EDMG 332--Reading Strategies for the Middle Grade Teacher  
 EDMG 341--Teaching Mathematics in Middle Grades

EDMG 342--Teaching Social Studies in Middle Grades  
 EDMG 343--Language Arts for Middle Grades  
 EDMG 446--Supervised Student Teaching  
 EDSE 312--Teaching Skills and Media  
 EDSE 333--Field Experiences in Secondary Classrooms  
 EDSE 415--Teacher in Today's Schools  
 EDSE 416--Student Teaching  
 EDSP 332--Teaching the Exceptional Student  
 EDSP 435--Supervised Teaching Practicum (LBD)  
 EDSP 436--Supervised Teaching Practicum (TMH)  
 EDSP 675--Practicum in Special Education  
 EDUC 576--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 375--The Teaching of Social Studies  
 GOVT 375--The Teaching of Social Studies  
 HIS 375--The Teaching of Social Studies  
 HLTH 304--Health in the Secondary School  
 HS 470--Methods of Teaching Vocational Home Economics  
 HS 573--Curriculum Development in Home Economics  
 IET 392--Technical Curriculum and Media Development  
 IET 393--Methods in Vocational Industrial Education  
 IET 475--Teaching Industrial Arts  
 IET 478--Supervised Teaching Practicum in Industrial Education--Orientation and Exploration Levels  
 IET 496--Organization and Management of the Laboratory  
 MATH 373--Principles and Techniques of Mathematics  
 MUSE 325--Materials and Methods for Elementary Grades  
 MUSE 375--Vocal Materials and Methods  
 MUSE 376--Instrumental Materials and Methods  
 OADM 475--Methods of Teaching Business Subjects  
 PHED 300--Physical Education in the Elementary School  
 PHED 303--Physical Education in the Secondary School  
 PHED 360--Health and Physical Education in the Middle School  
 PHED 430--The Psychosocial Dimensions of Sport and Physical Activity  
 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

### Student Teaching 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 are obtained from the Director of Student Teaching, Room 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 teacher education program.

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 courses. Early elementary certification program--EDF 207 and 211, EDEL 301, EDEE 305, 321, 322, 323, 327, 331, EDEM 330, SCI 490, EDSP 230. Middle grades certification program--EDF 207 and 211, EDEL 301, EDEM 330, EDMG 306, 332, 341, 342, 343, 347, and EDSP 230. LBD and TMH certification program--elementary education requirements plus 350, 360, 537 or 547, 551, 553, 555 or 556, and 557.)
3. Successfully completed field experiences associated with courses in the professional education sequence. Transfer or substitution of required education courses is dependent upon applicant completing appropriate pre-laboratory experiences. Documentation is required.
4. Present minimum grade-point average of 2.50 on a 4.0 scale on all courses attempted. (All transfer courses are included in calculating the grade-point average.)
5. Present minimum grade-point standing of 2.5 on 4.0 scale on all course work completed in area of concentration, major(s), minor(s), and academic components.
6. Have completed a minimum of 90 semester hours.
7. Present official copy of the degree audit check sheet depicting approved major for teacher certification. (Psychology and sociology majors must also present a teaching minor.)
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 at Morehead State University.
10. Must have a satisfactory recommendation of the teacher education committee of the college in which the student is enrolled regarding personal, social, and ethical fitness for teaching.
11. Must have approval of university Teacher Education Council.
12. Must have teaching minor completed in order to student teach in that field.

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

AGR 584--Teaching Vocational Agriculture  
 EDEC 529--Practicum in Early Childhood Education  
 EDEE 423--Supervised Student Teaching Practicum  
 EDSE 416--Student Teaching  
 EDSP 435--Supervised Teaching Practicum (LBD)  
 EDSP 436--Supervised Teaching Practicum (TMH)

EDSP 675--Practicum in Special Education  
 EDMG 446--Supervised Student Teaching  
 IET 478--Supervised Teaching Practicum in Industrial Education--Orientation and Exploration Levels

### Recommendation for Certification

Regulations of the Kentucky Department of Education stipulate that the applicant for a teacher's certificate must be recommended by the institution offering the teacher preparation program. The dean of the College of Education and Behavior Sciences is the official designated to recommend graduates for certification.

Recommendation for provisional certification will be limited to those students completing their professional semester at Morehead State University. Since certification regulations may change, students who wish to have an institutional recommendation for provisional 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 teacher certification officer. The certification officer is located in 801 Ginger Hall.

All teacher applicants for initial certification in Kentucky shall complete the National Teachers Examinations for communication skill, general knowledge, professional knowledge, and the appropriate specialty test, meeting the standards set by the Kentucky State Department of Education (704 KAR 20:305).

### Secondary Education

The primary role of secondary education is to serve various departments of the University by offering a professional education curriculum leading to certification of teachers for secondary schools. Students should consult with their advisors in their academic majors for additional program requirements.

### Requirements for Certification in Secondary Education

	Sem. Hrs.
PROFESSIONAL EDUCATION COURSES	28
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 Student	2
PROFESSIONAL SEMESTER	14
EDSE 415--Teacher in Today's Schools	2
EDSE 416--Student Teaching	12

Secondary education students admitted to the teacher education program after August 1, 1988 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 201--Introduction to Computers
2. CLEP Examination (Available in the University Testing Center)
3. A computer workshop taken for college credit.

## Bachelor's Degree with Secondary Teacher Certification

General Education Requirements . . . . . 45

English . . . . . 9

ENG 101--Composition I; or

ENG 103--Composition III\*

ENG 102--Composition II; or

ENG 192--Technical Composition

ENG 202--Introduction to Literature

ENG 211--Introduction to World Literature I; or

ENG 212--Introduction to World Literature II

\*Superior ACT scores in English may qualify students to enroll in ENG 103. Students taking ENG 103 may fulfill the remainder of their general education requirements in English by taking general education literature (ENG 202, 211, or 212) and any other English class (except ENG 101 and 102), regardless of level.

Humanities and Communications . . . . . 6

SPCH 110--Basic Speech; or

SPCH 370--Business and Professional Speech

Total of 3 hours from:

FNA 160--Appreciation of the Fine Arts;

Foreign Language;

ART 263--Introduction to Art History I;

ART 264--Introduction to Art History II;

MUSH 161--Literature of Music I;

MUSH 162--Literature of Music II;

MUSH 261--Music Listening;

MUSH 361--History of Music I;

MUSH 362--History of Music II;

THEA 100--Fundamentals of Theatre; or

THEA 110--Introduction to the Theatre

Social Science and Economics . . . . . 15

At least 3 hours from each area:

1. HIS 210--Early World History

HIS 110--Recent World History;

HIS 220--Early American History;

HIS 120--Recent American History

ECON 101--Introduction to the American Economy

ECON 201--Principles of Economics I

ECON 202--Principles of Economics II

2. SOC 101--General Sociology;

SOC 305--Cultural Anthropology

PSY 154--Introduction to Psychology (required for teacher certification)

3. GOVT 141--U. S. Government

GOVT 242--State and Local Government

GOVT 362--Current World Problems

GEO 100--Fundamentals of Geography

GEO 211--Economic Geography,

GEO 300--World Geography

Science and Mathematics . . . . . 12

At least 3 hours from each area:

1. MATH 123--Introduction to Statistics (or higher)

2. BIOL 105--Introduction to Biological Sciences (or higher)

3. SCI 103--Introduction to Physical Sciences (or higher, including CHEM, GEOS, PHYS)

4. PHIL 200--Introduction to Philosophy

PHIL 303--Social Ethics

CIS 201--Introduction to Computers

science or math elective

Health and Physical Education . . . . . 3

HLTH 150--Personal Health (2) and PE activity (1)

# Department of Elementary, Reading and Special Education

Dr. Paul McGhee, Interim Chair  
(606) 783-2841  
301 Ginger Hall

## Elementary Education

**Faculty**--S. Blair, D. Cox, G. Duncan, K. Freeland,  
C. Grindstaff, C. Hampton, K. Herzog, L. Howell, P. McGhee,  
T. Miller, P. Oakes, D. Peterson, M. Pollock, D. Price, D. Ris,  
L. Sabie, E. Schack, M. Schack, W. Shen, S. Wells, W. Willis,  
S. Young

### Competencies Required in the Program

*Students graduating from the K-4 program should:*

1. Demonstrate a knowledge of students growth and development.
2. Be able to assess developmental and instructional needs of pupils.
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.

*Student graduating from 5-8 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 knowledge.
11. Demonstrate a knowledge of the provisions of the Kentucky Education Reform Act.

### Assessment Procedures

Grade point average of 2.50  
Speech and hearing screening  
Interview  
Field Experience of 150 hours  
NTE Core Battery Test

Requirements for certification in elementary education have been changed by the Kentucky State Department of Education. The revised requirements provide for teacher certification in grades K-4 or 5-8. All students in the University in elementary education are required to follow the revised certification patterns. The State Department of Education will not issue certificates for grades 1-8 after September 1, 1989.

## Bachelor of Arts

### Early Childhood Endorsement

The objective of the program in Early Childhood Education is to provide a kindergarten endorsement for teachers holding elementary certification, grades 1-8. Undergraduate students admitted to the university should pursue the K-4 program if they seek certification to teach kindergarten.

### Certification in Kindergarten Education

In addition to meeting all requirements for elementary certification:

	Sem. Hrs.
EDEC 527--The Pre-School Child . . . . .	3
EDEC 528--Activities and Materials in Early Childhood Education . . . . .	3
EDEC 529--Practicum in Early Childhood Education . . . . .	4

### Area of Concentration

#### Early Elementary (K-4)

EDUCATION . . . . .	35
EDF 207--Foundations of Education . . . . .	3
EDF 211--Human Growth and Development . . . . .	3
EDSP 230--Education of Exceptional Children . . . . .	3
EDEE 305--Learning Theories and Practices in Early Elementary . . . . .	3
EDEL 301--Media Strategies . . . . .	2
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
EDEM 330--Foundations of Reading . . . . .	3
EDEE 331--Reading for Early Elementary Teachers . . . . .	3
EDUC 582--Discipline and Classroom Management . . . . .	3
SCI 490--Science for Elementary Teachers . . . . .	3



PROFESSIONAL SEMESTER	13
EDEE 423--Supervised Student Teaching Practicum	12
EDEM 426--Seminar	1
RELATED STUDIES	19
ART 121--School Art I	3
EDEE 327--Literature and Materials for Young Readers	3
HLTH 301--Health, Safety and Nutrition for Early Elementary	2
MATH 231--Math for the Elementary Teacher I	3
MATH 232--Math for the Elementary Teacher II	3
MUSE 221--Music for Elementary Teachers	2
Computer Competency	3
(Math 231 and 232 meet general education requirements for Morehead State University.)	
GENERAL EDUCATION	45
BIOL 110--Biological Science for Elementary Teachers (with lab) or higher	3
ENG 101--Composition I; or	
ENG 103--Composition III	3
ENG 102--Composition II; or	
ENG 192--Technical Composition	3
ENG 202--Introduction to Literature;	
ENG 211--Introduction to World Literature I; or	
ENG 212--Introduction to World Literature II	3
GEO 100--Fundamentals of Geography;	
GEO 211--Economic Geography;	
GEO 241--United States and Canada;	
GEO 300--World Geography;	
GOVT 141--United States Government;	
GOVT 242--State and Local Government; or	
GOVT 362--Current World Problems	3
Elective--History or Economics	3
HLTH 150--Personal Health	2
HUM Elective--Creative Expression	3
MUST 100--Rudiments of Music	2
PHED 311--Movement Exploration	3
PHED--Activity Course	1
PHIL 200--Introduction to Philosophy	3
PSY 154--Introduction to Psychology	3
SCI 109--Physical Science for the Elementary Teacher (with lab)	3
SOC 101--General Sociology;	
SOC 203--Contemporary Social Problems;	
SOC 305--Cultural Anthropology; or	
SOC 354--The Individual and Society	3
SPCH 110--Basic Speech; or	
SPCH 370--Business or Professional Speech	3
Academic Comp. or General Ed. Elective	1
ACADEMIC COMPONENT	21
(See advisor for list of academic component courses. Students selecting special education as an academic component must complete all courses required in either the LBD or TMH area of concentration program. All students must complete a non-western culture course.)	

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## Area of Concentration Middle Grades (5-8)

EDF 207--Foundations of Education	3
EDF 211--Human Growth and Development	3
EDSP 230--Education of Exceptional Children	3
EDEL 301--Media Strategies	2
EDMG 306--Development and Learning in Middle Grades	3
EDEM 330--Foundations of Reading	3
EDMG 332--Reading Strategies for Middle Grade Teachers	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
EDMG 347--Literature and Materials for Preadolescent	3

PROFESSIONAL SEMESTER	16
EDUC 582--Discipline and Classroom Management	3
EDEM 426--Seminar	1
EDMG 446--Supervised Student Teaching	12

RELATED STUDIES	12
MATH 231--Math for the Elementary Teacher I	3
MATH 232--Math for the Elementary Teacher II	3
PHED 360--Health and Physical Education in the Middle School	3
Computer Competency	3
(Math 231 and 232 meet general education requirements for Morehead State University.)	

GENERAL EDUCATION	45
BIOL 110--Biological Science for Elementary Teachers (with lab) or higher	3
ENG 101--Composition I; or	
ENG 103--Composition III	3
ENG 102--Composition II; or	
ENG 192--Technical Composition	3
ENG 202--Introduction to Literature;	
ENG 211--Introduction to World Literature I; or	
ENG 212--Introduction to World Literature II	3
GEO 100--Fundamentals of Geography;	
GEO 211--Economic Geography;	
GEO 241--United States and Canada;	
GEO 300--World Geography;	
GOVT 141--United States Government;	
GOVT 242--State and Local Government; or	
GOVT 362--Current World Problems	3
HIS 130--Man and His World; or	
*(HIS 210--Early World History and HIS 110--Recent World History)	3/(6)
HIS 140--Progress of American Democracy; or	
*(HIS 220--Early American History and HIS 120--Recent American History)	3/(6)
HLTH 150--Personal Health	2
HUM Elective--Creative Expression	3
PHED--Activity Course	1
PHIL 200--Introduction to Philosophy	3
PSY 154--Introduction to Psychology	3
SCI 109--Physical Science for the Elementary Teacher (with lab)	3
SOC 101--General Sociology	
SPCH 110--Basic Speech; or	
SPCH 370--Business or Professional Speech	3
General Education Elective or Academic Component	3

## ACADEMIC COMPONENTS

(Each student must select two academic components of 24 semester hours each. Students selecting special education as an academic component must complete the total program for either LBD or TMH, which will exceed 24 hours. Students should see their advisor for a list of academic component courses.)

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\*Students electing HIS 110 and 210, and HIS 120 and 220 require an additional six hours credit.

# Special Education

Faculty--C. Georges, M. Gladden, D. Grace, B. Neimeyer

## Competencies Required in the Program

Students graduating from the LBD & TMH 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 of, 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 K-12 curriculum including knowledge of teaching methods, materials, and outside agencies typically involved in vocational training.
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 in designing appropriate curricula for children with learning and/or behavioral disorders.
10. An understanding of KERA and the full inclusion of special education students with non-handicapped students in regular classrooms.

## Assessment Procedures

Grade point average  
Speech and hearing screening  
Interview

Field Experience of 150 hours  
NTE Core Battery Test

## 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 educable mentally handicapped.

See "Teacher Education Program" and "Professional Laboratory Experiences" requirements.

### Area of Concentration

#### Area and General Education Requirements-- Certification in Learning and Behavior Disorders (LBD) and Kindergarten through Grade Four

SPECIAL EDUCATION	33
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 435--Supervised Teaching Practicum -- LBD	6
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
EDF 207--Foundations of Education	3
EDF 211--Human Growth and Development	3
EDEL 301--Media Strategies	2
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
EDEM 330--Foundations of Reading	3
EDEE 331--Reading for Early Elementary Teachers	3
EDUC 582--Discipline and Classroom Management	3
SCI 490--Science for the Elementary Teacher	3
PROFESSIONAL SEMESTER	7
EDEE 423--Supervised Student Teaching Practicum	6
EDEM 426--Pre-Student Teaching Seminar	1
GENERAL EDUCATION	45
ENG 101--Composition I; or	
ENG 103--Composition III	3
ENG 192--Technical Composition	3
ENG 202--Introduction to Literature;	
ENG 211--Introduction to World Literature I;	
ENG 212--Introduction to World Literature II	3
SPCH 110--Basic Speech; or	
SPCH 370--Business and Professional Speech	3
BIOL 231--Human Anatomy	3
SCI 109 or higher (with lab)	3
MUST 100--Rudiments of Music	2

HUM Elective--Creative Expression	3
Elective	3
GEO 100--Fundamentals of Geography;	
GEO 211--Economic Geography;	
GEO 241--United States and Canada;	
GEO 300--World Geography;	
GOVT 141--United States Government;	
GOVT 242--State and Local Government; or	
GOVT 362--Current World Problems	
Elective	3
HIS 130--Man and His World;	
HIS 210--Early World History;	
HIS 110--Recent World History;	
HIS 140--Progress of American Democracy;	
HIS 220--Early American History;	
HIS 120--Recent American History;	
ECON 101--Introduction to the American Economy;	
ECON 201--Principles of Economics I; or	
ECON 202--Principles of Economics II	
HLTH 150--Personal Health	2
PHED--Activity Course	1
PHED 311--Movement Exploration	3
PSY 154--Introduction to Psychology	3
SOC 101--General Sociology;	
SOC 203--Contemporary Social Problems;	
SOC 305--Cultural Anthropology; or	
SOC 354--The Individual and Society	3
General Education Elective	1
Computer Competency	3
<b>RELATED STUDIES</b>	<b>16</b>
ART 121--School Art I	3
EDEE 327--Literature and Materials for Young Readers	3
HLTH 301--Health, Safety and Nutrition for Early Elem.	2
MATH 231--Math for the Elementary Teacher I	3
MATH 232--Math for the Elementary Teacher II	3
MUSE 221--Music for the Elementary Teacher	2
(Math 231 and 232 meet general education requirements for Morehead State University. All students must have one non-western culture course.)	

## Area of Concentration

### Area and General Education Requirements Certification to teach Learning and Behavior Disorders (LBD) and Grades Five through Eight

SPECIAL EDUCATION	33
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 435--Supervised Teaching Practicum -- LBD	6
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
<b>EDUCATION</b>	<b>29</b>
EDF 207--Foundations of Education	3
EDF 211--Human Growth and Development	3
EDEL 301--Media Strategies	2
EDMG 306--Development and Learning in Middle Grades	3

EDEM 330--Foundations of Reading	3
EDMG 332--Reading Strategies for Middle Grades	3
EDMG 341--Teaching Math in Middle Grades	3
EDMG 342--Teaching Social Studies in Middle Grades	3
EDMG 343--Language Arts in Middle Grades	3
EDMG 347--Literature and Materials for Preadolescents	3
<b>PROFESSIONAL SEMESTER</b>	<b>10</b>
EDEM 426--Pre-Student Teaching Seminar	1
EDMG 446--Supervised Student Teaching Practicum	6
EDUC 582--Discipline and Classroom Management	3
<b>GENERAL EDUCATION</b>	<b>45</b>
ENG 101--Composition I; or	
ENG 103--Composition III	3
ENG 192--Technical Composition	3
ENG 202--Introduction to Literature;	
ENG 211--Introduction to World Literature I; or	
ENG 212--Introduction to World Literature II	3
SPCH 110--Basic Speech; or	
SPCH 370--Business and Professional Speech	3
BIOL 231--Human Anatomy	3
SCI 109 or higher (with lab)	3
HUM Elective--Creative Expression	3
Elective	3
GEO 100--Fundamentals of Geography;	
GEO 211--Economic Geography;	
GEO 241--United States and Canada;	
GEO 300--World Geography;	
GOVT 141--United States Government;	
GOVT 242--State and Local Government; or	
GOVT 362--Current World Problems	
HIS 130--Man and His World; or	
HIS 210--Early World History; and	
HIS 110--Recent World History	3/6
HIS 140--Progress of American Democracy; or	
HIS 210--Early American History; and	
HIS 110--Recent American History	3/6
HLTH 150--Personal Health	2
PHED Elective--Activity Course	1
PSY 154--Introduction to Psychology	3
SOC 101--General Sociology	3
General Education Elective or Academic Component	3
Computer Competency	3

<b>RELATED STUDIES</b>	<b>9-10</b>
ART 121--School Art I; or	
MUST 100--Rudiments of Music; and	
MUSE 221--Music for the Elementary Teacher	3-4
MATH 231--Math for the Elementary Teacher I	3
MATH 232--Math for the Elementary Teacher II	3
(Math 231 and 232 meet general education requirements at Morehead State University.)	

<b>ACADEMIC COMPONENT</b>	<b>24 minimum</b>
Academic Component to be selected from English/Communications, French, Mathematics, Sciences, Social Studies or Spanish.	

The general education, related studies and elementary education requirements for an area of concentration in trainable mentally handicapped and learning and behavior disorders are similar. The special education component has two courses that are different, and students in the trainable program must also take EDSP 231. Each program requires a separate practicum experience. Students should consider completing the requirements for

both programs since opportunities for employment are enhanced.

### Trainable Mentally Handicapped

This program provides teacher certification for teaching children who are trainable mentally handicapped.

The general education, related studies, and elementary education requirements for an area of concentration in trainable mentally handicapped and learning and behavior disorders are similar. The special education component has two courses that are different, and students in the trainable program must also take EDSP 231. Each program requires a separate practicum experience.

Students should consider completing the requirements for both programs since opportunities for employment are enhanced.

See "Teacher Education Program" and "Professional Laboratory Experiences" requirements.

### Area of Concentration

#### Area and General Education Requirements Certification in Trainable Mentally Handicapped (TMH) and Kindergarten through Grade Four

SPECIAL EDUCATION	34
EDSP 230--Education of Exceptional Children	3
EDSP 231--Trainable Mentally Handicapped Field Experience	1
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 436--Supervised Teaching Practicum--TMH	6
EDSP 547--Trainable Mentally Handicapped	3
EDSP 551--Curriculum for Pre-School Exceptional Children	3
EDSP 553--Language Arts for Exceptional Children	3
EDSP 556--Teaching the Trainable Mentally Handicapped	3
EDSP 557--Content Areas and Career Preparation for Exceptional Students	3
EDUCATION	32
EDF 207--Foundations of Education	3
EDF 211--Human Growth and Development	3
EDEL 301--Media Strategies	2
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
EDEM 330--Foundations of Reading	3
EDEE 331--Reading for the Early Elementary Teachers	3
EDUC 582--Discipline and Classroom Management	3
SCI 490--Science for the Elementary Teacher	3
PROFESSIONAL SEMESTER	7
EDEE 423--Supervised Student Teaching Practicum	6
EDEM 426--Seminar	1
GENERAL EDUCATION	45
ENG 101--Composition I; or ENG 103--Composition III	3
ENG 192--Technical Composition	3
ENG 202--Introduction to Literature; ENG 211--Introduction to World Literature I; or ENG 212--Introduction to World Literature II	3

SPCH 110--Basic Speech; or SPCH 370--Business and Professional Speech	3
BIOL 231--Human Anatomy	3
SCI 109 or Higher (with lab)	3
MUST 100--Rudiments of Music	2
HUM Elective--Creative Expression	3
Elective	3
GEO 100--Fundamentals of Geography; GEO 211--Economic Geography; GEO 241--United States and Canada; GEO 300--World Geography; GOVT 141--United States Government; GOVT 242--State and Local Government; or GOVT 362--Current World Problems	
Elective	3
HIS 130--Man and His World; HIS 210--Early World History; HIS 110--Recent World History; HIS 140--Progress of American Democracy; HIS 220--Early American History; HIS 110--Recent American History; ECON 101--Introduction to the American Economy; ECON 201--Principles of Economics I; or ECON 202--Principles of Economics II	
HLTH 150--Personal Health	2
PHED--Activity Course	1
PHED 311--Movement Exploration	3
PSY 154--Introduction to Psychology	3
SOC 101--General Sociology; SOC 203--Contemporary Social Problems; SOC 305--Cultural Anthropology; or SOC 354--The Individual and Society	
General Education Elective	3
Computer Competency	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--Math for the Elementary Teacher I	3
MATH 232--Math for the Elementary Teacher II	3
MUSE 221--Music for the Elementary Teacher	2
(MATH 231 and 232 meet general education requirements for Morehead State University. All students must have one non-western course.)	

### Area of Concentration

#### Area and General Education Requirements Certification to teach Trainable Mentally Handicapped (TMH) and Grades Five through Eight

SPECIAL EDUCATION	34
EDSP 230--Education of Exceptional Children	3
EDSP 231--Trainable Mentally Handicapped Field Experience	1
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 436--Supervised Teaching Practicum--TMH	6
EDSP 547--Trainable Mentally Handicapped	3
EDSP 551--Curriculum for Pre-School Exceptional Children	3
EDSP 553--Language Arts for Exceptional Children	3
EDSP 556--Teaching the Trainable Mentally Handicapped	3
EDSP 557--Content Areas and Career Preparation for Exceptional Students	3
EDUCATION	29



EDF 207--Foundations of Education	3
EDF 211--Human Growth and Development	3
EDEL 301--Media Strategies	2
EDMG 306--Development and Learning in Middle Grades	3
EDEM 330--Foundations of Reading	3
EDMG 332--Reading Strategies for Middle Grades	3
EDMG 341--Teaching Math in Middle Grades	3
EDMG 342--Teaching Social Studies in Middle Grades	3
EDMG 343--Language Arts in Middle Grades	3
EDMG 347--Literature and Materials for Preadolescents	3
PROFESSIONAL SEMESTER	10
EDEM 426--Pre-Student Teaching Seminar	1
EDMG 446--Supervised Student Teaching Practicum	6
EDUC 582--Discipline and Classroom Management	3
GENERAL EDUCATION	45
ENG 101--Composition I; or ENG 103--Composition III	3
ENG 192--Technical Composition	3
ENG 202--Introduction to Literature; ENG 211--Introduction to World Literature I; or ENG 212--Introduction to World Literature II	3
SPCH 110--Basic Speech; or SPCH 370--Business and Professional Speech	3
BIOL 231--Human Anatomy	3
SCI 109 or higher (with lab)	3
HUM Elective--Creative Expression	3
Elective	3
GEO 100--Fundamentals of Geography; GEO 211--Economic Geography; GEO 241--United States and Canada; GEO 300--World Geography; GOVT 141--United States Government; GOVT 242--State and Local Government; or GOVT 362--Current World Problems	
HIS 130--Man and His World; or HIS 210--Early World History; and HIS 110--Recent World History	3/6
HIS 140--Progress of American Democracy; or HIS 220--Early American History; and HIS 120--Recent American History	3/6
HLTH 150--Personal Health	2
PHED--Activity Course	1
PSY 154--Introduction to Psychology	3
SOC 101--General Sociology	3
General Education Elective or Academic Component	3
Computer Competency	3
RELATED STUDIES	9-10
ART 121--School Art I; or MUST 100--Rudiments of Music; and MUSE 221--Music for the Elementary Teacher	3-4
MATH 231--Math for the Elementary Teacher I	3
MATH 232--Math for the Elementary Teacher II (MATH 231 and 232 meet general education requirements at Morehead State University.)	3
ACADEMIC COMPONENT	24 minimum
Academic Component to be selected from English/Communications, French, Mathematics, Sciences, Social Studies or Spanish.	

The general education, related studies and elementary education requirements for an area of concentration in trainable mentally handicapped and learning and behavior disorders are similar. The special education component has two courses that are different, and students in the trainable program must also take EDSP 231. Each

program requires a separate practicum experience. Students should consider completing the requirements for both programs since opportunities for employment are enhanced.

The Kentucky Department of Education is in the process of changing the requirements for Trainable Mentally Handicapped certification (TMH). Students admitted to the Teacher Education Program after September 1, 1994, will have to meet the new standards established by the Educational Professional Standards Board. All students in the TMH program under the present requirements must complete their program by September 1, 1997.

### 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 settings.

### Major (Non-Teaching)

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 EDSP 547--The Trainable Mentally Handicapped	3
EDSP 555--Prescriptive Teaching for Children with Learning and Behavior Problems; or EDSP 556--Teaching the Trainable Mentally Handicapped	3
EDEM 330--Foundations of Reading	3
EDSP 320--Introduction to Corrective Speech; or SPCH 320--Introduction to Corrective Speech	3
PSY 559--Behavior Modification	3
Electives (approved by advisor)	6
Laboratory experiences EDSP 435 or EDSP 436	4
	34

### Minor (Non-Teaching)

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 EDSP 547--The Trainable Mentally Handicapped	3
EDSP 555--Prescriptive Teaching for Children with Learning and Behavior Problems; or EDSP 556--Teaching the Trainable Mentally Handicapped	3
EDEM 330--Foundations of Reading	3
PSY 559--Behavior Modification	3
Laboratory experiences EDSP 435 or EDSP 436	4
	25

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## **Department of Leadership and Secondary Education**

Dr. William Weikel, Chair  
(606) 783-2502  
503 Ginger Hall

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

## Department of Health, Physical Education and Recreation

Dr. Jack Sheltmire, Chair  
(606) 783-2180  
201 Laughlin Health Building

The Department of Health, Physical Education, and Recreation offers general education courses, majors and minors in health and recreation, a major in physical education, and a minor in athletic training or coaching. The general education courses are for all students, to provide an introduction to health topics, first aid and safety, and to physical activities that may provide opportunities for leisure pursuits and for a healthier lifestyle.

Students selecting a major in health, physical education or recreation will be required to complete an admissions assessment as well as an exit examination over the knowledges and competencies of their program. 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.

## Athletic Training

**Faculty**--M. Brown, L. Brown, B. Crager, J. Curley, R. Kling, J. Sheltmire (chair)

### Minor

	Sem. Hrs.
*HLTH 150--Personal Health	2
HS 203--Principles of Nutrition	3
*PHED 220--Athletic Training I	3
PHED 221--Therapeutic Modalities	2
*BIOL 232--Human Physiology	3
*PHED 340--Athletic Training II	3
PHED 341--Athletic Training II	3
*PHED 402--Kinesiology	3
*PHED 432--Physiology of Exercise	3
	24
PHED 490--Internship in Athletic Training (elective)	6
*BIOL 231--Human Anatomy (elective)	3
*HLTH 203--Safety and First Aid (elective)	3

\*These courses are required for National Athletic Trainers' Association and Kentucky certification. Admission to the athletic training internship program is a prerequisite. Following the successful completion of these requirements, the student will be eligible to take the national and/or Kentucky state athletic trainer certification examination(s).

## Coaching

**Faculty**--M. Brown, R. Chaney, B. Crager, D. Fick, L. Fitzgerald, J. Gabriel, S. Hamilton, C. Proctor, M. Sabie, J. Sheltmire (chair), F. Spaniol

### Minor

PHED 201--Introduction to Coaching	3
PHED 220--Athletic Training I	3
PHED 330--Scientific Bases of Coaching	3
PHED 331--Principles of Strength & Conditioning	3
PHED 336--Foundations of Sport Psychology	3
PHED 350--Coaching of Sport (select 2)	
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 Programs	3
PHED 477--Internship in Coaching	3
	25

NOTE: A physical education major (K-12) must have an additional minor for an AB degree in education if selecting a coaching minor.

## Health

**Faculty**--M. Ballard, L. Brown, B. Crager, R. Grueninger, G. Osborne, J. Osborne, P. Raines, J. Sheltmire (chair), H. Sweeney

### Competencies Required in the Program

Students are:

- To be familiar with the components of and function of each facet of a comprehensive school health program.
- To communicate effectively including the ability to write objectives which address the three domains of health education (cognitive, affective, and psychomotor).
- To be able to effectively plan, implement and evaluate teaching units including various teaching strategies and/or methodologies which address the seventy-five defined learner outcomes identified in KERA.
- To be cognizant of the various types of learners, and the learning strategies/methodologies which will address the needs to each learner classification.
- To develop educational units that encourage cross disciplinary integration.

6. To develop critical thinking and problem solving skills necessary to make wise decisions related to the area of health education.
7. To serve as a facilitator, health advocate and resource professional for current and future issues in the area of health education for students, teacher, administrators and the community.
8. To be able to identify and effectively utilize appropriate resources pertaining to health education.
9. To be familiar with professional organizations, current trends and issues that pertain to health education.
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 be able to successfully develop measurement and evaluation instruments which will not only assess the health needs of the student but the effectiveness of the instruction.
12. To be able to effectively disseminate objective, non-biased health information and activities which will provide the student the opportunity to formulate their personal values concerning health related issues.

**Assessment Procedures**

- Portfolios
- Certification examination
- Employment data

**Bachelor of Arts**

The health major and minor programs prepare individuals for positions in schools and in the health care profession. The programs may be elected with or without teacher certification. In the non-teaching major and minor, HLTH 477: Field Experiences in Health is substituted for HLTH 475: The School Health Program.

Specific general education requirements for all health programs are HLTH 150, one physical activity course, CIS 201 and BIOL 231.

**Major**

HLTH 160--Introduction to Health	3
HS 201--Principles of Nutrition	3
HLTH 203--Safety and First Aid	3
HLTH 205--Mental Health	3
PHED 301--Evaluation in Health, Physical Education, and Recreation	3
HLTH 303--Community Health	3
HLTH 360--Family Health	3
HLTH 415--Issues in Health	3
HLTH 475--The School Health Program	3
HLTH 518--Use and Abuse of Drugs	3
	30

**Minor**

HLTH 160--Introduction to Health	3
HLTH 203--Safety and First Aid	3
HLTH 205--Mental Health	3
HLTH 360--Family Health	3
HLTH 415--Issues in Health	3
HLTH 475--The School Health Program	3
HLTH 518--Use and Abuse of Drugs	3
	21

**Suggested Course Sequence**

**K-12 Health Major**

**Freshman Year**

**First Semester**

ENG 101--Composition I; or ENG 103--Composition III	3
GOVT 141--U. S. Government; or GEO 100--Fundamentals of Geography	3
SCI 103--Intro. to Phys. Science or higher	3
HLTH 150--Personal Health	2
HLTH 203--Safety and First Aid	3
Physical Education Activity	1
	15

**Second Semester**

ENG 102--Composition II; or ENG 192--Technical Composition	3
FNA 160; Foreign Language; ART 263--Introduction to Art History I; ART 264--Introduction to Art History II; MUSH 161--Literature of Music I; MUSH 162--Literature of Music II; MUSH 261--Music Listening; MUSH 361--History of Music I; MUSH 362--History of Music II; THEA 100--Fundamentals of the Theatre; or THEA 110--Introduction to Theatre	3
HIS 210--Early World History; HIS 110--Recent World History; HIS 220--Early American History; or HIS 120--Recent American History	3
SOC 101--General Sociology; or SOC 305--Cultural Anthropology	3
MATH 123 or higher	3
HLTH 160--Introduction to Health	3
	18

**Sophomore Year**

**First Semester**

ENG 202--Introduction to Literature; ENG 211--Introduction to World Literature I; or ENG 212--Introduction to World Literature II	3
PSY 154--Introduction to Psychology	3
EDF 207--Foundations of Education	3
HLTH 201--Principles of Nutrition	3
HLTH 303--Community Health	3
Minor	3
	18

**Second Semester**

SPCH 110--Basic Speech; or SPCH 370--Business and Professional Speech	3
CIS 201--Introduction to Computers	3
EDF 211--Human Growth and Development	3
HLTH 205--Mental Health	3
Minor	3
	15



**Junior Year****First Semester**

BIOL 231--Human Anatomy	3
EDF 311--Learn Theories in Classroom	3
EDSE 333--Field Experience in Secondary Classrooms	2
PHED 301--Evaluation in Health, Physical Education, and Recreation	3
HLTH 360--Family Health	3
Minor	3
	17

**Second Semester**

SOC SCI or ECON Elect.	3
EDSE 312--Teaching Skills and Media	3
HLTH 300--Health in Elementary School	2
HLTH 415--Issues in Health	3
Minor	6
	17

**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
	17

**Second Semester****Professional Semester**

EDSE 415--Teacher in Today's School	2
EDSE 416--Student Teaching	12
	14

**Teacher Certification Program,  
Health Education (K-12)**

(See also Teacher Education Program and Professional Laboratory Experiences, pp. --.)

Health Major/Minor	30-21
HLTH 300--Health in the Elementary School	2
HLTH 304--Health in the Secondary School	2
EDSE 333--Field Experience in Secondary Classroom	2
Professional Education Courses	28
	TOTAL 64-55

**Physical Education**

**Faculty**--P. Adkins, M. Brown, B. Crager, L. Fitzgerald, R. Grueninger, M. Magner, M. Sabie, J. Sheltmire (chair), C. Thompson

**Competencies Required in the Program**

*Students will demonstrate:*

1. Knowledge of the biological and applied sciences, through a variety of written, oral and application testing frameworks.
2. Ability to develop or select appropriate and effective measurement and evaluation/assessment

*techniques through written and practical testing frameworks.*

3. Knowledge of sociological and psychological factors which influence individual student and group learning of physical activities, through a variety of written and verbal testing frameworks.
4. Ability to select, teach and assess a variety of developmentally appropriate physical activities for the diverse populations in public schools, K-12, through a variety of peer, practical and field teaching experiences.
5. Ability to organize and demonstrate effective implementation of quality physical education programs in the elementary, middle and secondary schools, through a variety of written and practical assessments.
6. Knowledge of a variety of fitness, sport and dance activities.
7. Knowledge of the history and philosophy of Physical Education.
8. Knowledge of current issues and practices confronting Physical Education.

**Assessment Procedures**

*Portfolios*

*Certification examination*

*Employment data*

The physical education curriculum emphasizes the study of the art and science of human motion in sport, dance, and exercise. The program, termed kinesiology at many universities, may be elected with or without teacher certification. The major entails 39-45 sem. hrs. Teacher certification, kindergarten through high school (K-12) requires an additional 28 sem. hrs. A minor is not offered.

**Bachelor of Arts**

The major comprises a core of 6 classes plus one of two options: Teaching (K-12) or Exercise Science.

Specific general education courses required as part of the Physical Education Major include SOC 101, PSY 154, BIOL 231, and BIOL 232.

**Major Core**

PHED 150--Introduction to Physical Education	3
PHED 205--Lifetime Fitness	3
PHED 301--Evaluation in Health, Physical Education, and Recreation	3
PHED 315--Motor Development and Motor Learning	3
PHED 402--Kinesiology	3
PHED 432--Physiology of Exercise	3

**Teacher Certification Option (K-12)**

(See Teacher Education Program and Professional Laboratory Experiences, pp. 114-117. Specific general

education requirements additionally required for this program include HLTH 150, 1 activity course and CIS 201).

PHED 430--Psychosocial Dimensions of Physical Activity	3
PHED 475--Adapted Physical Education	3
Select four of the following one-hour activity courses, with at least one individual and one team sport:	4
PHED 100--Golf	
PHED 101--Tennis	
PHED 102--Badminton	
PHED 113--Soccer	
PHED 118--Volleyball	
PHED 125--Basketball	
PHED 142--Softball	
PHED 104--Gymnastics I	1
Select one swimming class from following:	1
PHED 130--Beginning Swimming	
PHED 131--Intermediate Swimming	
PHED 132--Lifesaving	
Select one dance course from the following:	1
PHED 120--Basic Rhythms	
PHED 121--Modern Dance	
PHED 122--Social Dance	
PHED 123--Folk and Square Dance	
PHED 212--Games and Rhythmical Activities	3
PHED 300--Physical Education in the Elementary School	3
PHED 303--Physical Education in the Secondary School	3
Professional Education	28
<b>TOTAL</b>	<b>37</b>

## Suggested Sequence of Courses for Teaching K-12 Physical Education Major

### Freshman Year

<b>First Semester</b>	
ENG 101--Composition I; or Eng 103--Composition III	3
GOVT 141--U. S. Government; GOVT 242--State and Local Government; GOVT 362--Current World Problems; GEO 100--Fundamentals of Geography; GEO 211--Economic Geography; or GEO 300--World Geography	3
SCI 103--Introduction to Physical Science	3
HLTH 150--Personal Health	2
PHED 150--Introduction to Physical Education	3
PHED 100--Golf; PHED 101--Tennis; or PHED 102--Badminton	1
PHED 104--Gymnastics	1
	16
<b>Second Semester</b>	
ENG 102--Composition II; or ENG 192--Technical Composition	3
HIS 210--Early World History; HIS 110--Recent World History; HIS 220--Early American History; HIS 120--Recent American History; ECON 101--Introduction to the American Economy; or ECON 201--Principles of Economics I	3
MATH 123 or Higher	3
SPCH 110--Basic Speech; or SPCH 370--Business and Professional Speech	3
FNA 160--Appreciation of Fine Arts; MUSH 161--Literature of Music I MUSH 162--Literature of Music II;	

MUSH 261--Music Listening; MUSH 361--History of Music I; MUSH 362--History of Music II; THEA 100--Fundamentals of the Theatre; or THEA 110--Introduction to the Theatre	3
PHED 113--Soccer; PHED 118--Volleyball; PHED 125--Basketball Skills; or PHED 142--Softball	1
PHED 130--Beginning Swimming; PHED 131--Intermediate Swimming; or PHED 132--Life Saving	1
	17

### Sophomore Year

<b>First Semester</b>	
ENG 202--Introduction to Literature; ENG 211--Introduction to World Literature I; or ENG 212--Introduction to World Literature II	3
PSY 154--Introduction to Psychology	3
EDF 207--Foundation of Education	3
Social Science, or ECON	3
PHED 301--Evaluation in Health, Physical Education, and Recreation	3
Minor	3
	18
<b>Second Semester</b>	
BIOL 231--Human Anatomy	3
SOC 101--General Sociology	3
EDF 211--Human Growth and Development	3
PHED 212--Games and Rhythms for Elementary Teachers	3
PHED 120--Basic Rhythms; PHED 121--Modern Dance; PHED 122--Social Dance; or PHED 123--Folk and Square Dancing	1
PHED 100--Golf; PHED 101--Tennis; PHED 102--Badminton; PHED 113--Soccer; PHED 118--Volleyball; PHED 125--Basketball; PHED 142--Softball	1
Minor	3
	17

### Junior Year

<b>First Semester</b>	
BIOL 232--Human Physiology	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 100--Golf; PHED 101--Tennis; PHED 102--Badminton; PHED 113--Soccer; PHED 118--Volleyball; PHED 125--Basketball Skills; or PHED 142--Softball	1
	15
<b>Second Semester</b>	
EDSE 312--Teaching Skills and Media	3
PHED 402--Kinesiology	3
PHED 303--Physical Education in the Secondary School	3
PHED 475--Adapted Physical Education	3
Minor	6
	18

**Senior Year****First Semester**

EDSP 332--Teaching the Exceptional Student	2
PHED 432--Physiology of Exercise	3
PHED 430--Psychosocial Dimensions of Sport and Physical Activity	3
PHED 491--Senior Seminar	1
Minor	9
	18

**Second Semester**

EDSE 415--Teacher in Today's School	2
EDSE 416--Student Teaching	12
	14

**Exercise Science Option****Competencies Required in the Program**

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.

**Assessment Procedures**

Portfolios

Certification Examination

Employment data

**Program Requirements**

PHED 140--Aerobics	1
HS 201--Principles of Nutrition	3
PHED 220--Athletic Training I	3
HLTH 310--Health Promotion and Risk Reduction	3
PHED 325--Exercise Program Leadership	2
PHED 332--Principles of Strength and Conditioning	3
PHED 550--Plan and Managing Exercise Programs	3
PHED 551--Exercise Testing and Prescription	3
PHED 552--Exercise Practicum	6
	27

**Suggested Sequences of Courses for Physical Education - Exercise Science Option****Freshman Year****First Semester**

ENG 101--Composition I; or ENG 103--Composition III	3
GOVT 141--U. S. Government; GOVT 242--State and Local Government; GOVT 362--Current World Problems; GEO 100--Fundamentals of Geography; GEO 211--Economic Geography; or	

GEO 300--World Geography	3
SCI 103--Introduction to Physical Science	3
PSY 154--Introduction to Psychology SOC 101--General Sociology; or SOC 305--Cultural Anthropology	3
PHED 150--Introduction to Physical Education*	3
	15

**Second Semester**

ENG 102--Composition II; or ENG 192--Technical Composition	3
ECON 201--Principles of Economics I	3
MATH 123--Introduction to Statistics	3
PHED 205--Lifetime Fitness	3
FNA 160--Appreciation of Fine Arts; Foreign Language; MUSH 161--Literature of Music I; MUSH 162--Literature of Music II; MUSH 261--Music Listening; MUSH 361--History of Music I; MUSH 362--History of Music II; THEA 100--Fundamentals of the Theatre; or THEA 110--Introduction to the Theatre	3
	15

**Sophomore Year****First Semester**

ENG 202--Introduction to Literature; ENG 211--Introduction to World Literature I; ENG 212--Introduction to World Literature II	3
BIOL 105--Introduction to Biological Sciences	3
PHED 220--Athletic Training I	3
PHED 301--Evaluation in Health, Physical Education, and Recreation	3
MNGT 160--Introduction to Business	3
HLTH 203--Safety and First Aid	3
	18

**Second Semester**

CIS 201--Introduction to Computers	3
PHED 140--Aerobics	1
PHED 325--Exercise Program Leadership	2
Minor	3
HS 201--Principles of Nutrition	3
BIOL 231--Human Anatomy	3
	15

**Junior Year****First Semester**

BIOL 232--Human Physiology	3
HLTH 310--Health and Wellness Promotion	3
PHED 315--Motor Development and Motor Learning	3
Elective	3
Social Science Elective	3
Minor	3
	18

**Second Semester**

Elective	1
SPCH 370--Business and Professional Speech	3
PHED 402--Kinesiology	3
PHED 332--Principles of Strength and Conditioning	3
Minor	6
	16

**Senior Year****First Semester**

PHED 432--Physiology of Exercise	3
PHED 550--Planning and Managing Exercise Programs	3
Minor	9
	15

**Second Semester**

PHED 551—Exercise Testing and Prescription	3
PHED 552—Exercise Program Practicum	6
Minor	3
Minor or elective	3
Elective	1
	16

**Recreation**

**Faculty**--D. Brown, R. Chaney, J. Sheltmire (chair)

**Competencies Required in the Program**

*Students are to:*

1. *Communicate effectively.*
2. *Understand and apply technology.*
3. *Develop and apply organizational and administrative skills.*
4. *Develop and apply critical thinking and problem solving skills.*
5. *Understand and program for the recreational needs of all populations.*
6. *Interpret and assess current trends in the delivery of leisure services.*
7. *Possess the knowledge and understanding necessary to become licensed as a recreational professional.*

**Assessment Procedures**

*Certification examinations*

**Bachelor of Arts****Major**

REC 201—Outdoor Recreation	3
REC 209—Recreational Sports	2
REC 285—Community Recreation	2
REC 286—Recreational Leadership	2
REC 288—Recreational Arts and Crafts	2
REC 290—Field Experience I	1
REC 305—Social Recreation	2
REC 310—Youth Organizations	2
REC 375—Creative Dramatics	3
REC 388—Community Centers and Playgrounds	3
REC 490—Field Experience II	1
REC 471—Seminar	1
REC 475—Therapeutic Recreation	3
REC 477—Recreation Internship	8
REC 580—Outdoor Interpretation	3
	38

**Minor**

The minor requires 21 hours approved by the department chair.



## Department of Military Science

Major Ralph Shoaf, Chair  
(606) 783-2050  
Button Auditorium

### Military Science

**Faculty**--H. Patton, L. Pillow, J. Pillow, A. Quetot, A. Raymond, R. Shoaf (chair)

#### Competencies Required in the Program

*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, or the National Guard.*

*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 National Guard, and the U.S. Army Reserve. 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* consists of a two-year basic course and a two-year advanced course. The basic course is normally taken during the freshman and sophomore years and imposes no military obligation. Students who have taken Junior ROTC or have active duty military experience may receive credit for all or part of the basic course.

The *advanced course* provides further instruction in leadership development. Advanced course cadets attend a six-week leadership camp between their junior and senior years of college. This camp permits cadets to put into practice the principles and theories they have acquired from on-campus ROTC classes. Advanced course cadets are paid a living allowance up to \$1,000 per year and are paid for attendance at the Advanced Camp.

The *two-year program* permits students who attend a junior or community college, and those at MSU who

during their first two years have not taken ROTC, to enter the advanced course. Students in the two-year program receive the same financial assistance as other advanced course students. One additional summer camp may be required for some students in this program.

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 any member of the Military Science Department, Morehead State University, Room 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 Science or his designated representative.

#### Written Communication

	Sem. Hrs.
ENG 102--Composition I	3
ENG 103--Composition III	3
ENG 192--Technical Composition	3
ENG 293--Creative Writing	3
ENG 294--Creative Writing II	3
ENG 391--Advanced Expository Writing	3
ENG 502--Teaching Writing	3
ENG 591--Teaching Writing I	3
ENG 592--Teaching Writing II	3
JOUR 201--News Writing and Reporting	3
PHIL 306--Logic	3
R-TV 240--Writing for Broadcast	3

#### Human Behavior

EDF 211--Human Growth and Development	3
PHIL 303--Social Ethics	3
PSY 154--Introduction to Psychology	3
PSY 156--Life-Span Development Psychology	3
PSY 157--Psychology of Adjustment	3
PSY 354--Introduction to Social Psychology	3
SWK 322--Human Behavior in the Social Environment	3
SOC 101--General Sociology	3
SOC 203--Contemporary Social Problems	3
SOC 305--Cultural Anthropology	3
SOC 354--The Individual and Society	3
SOC 374--American Minority Relations	3

#### Military History

HIS 382--War in the Modern World Spring Semester Only	3
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#### Alternate History Options Only with PMS approval

HIS 349--Vietnam and Watergate	3
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HIS 548--United States Foreign Relations	3
HIS 552--The World, 1939 to Present	3

**Computer Literacy**

CIS 201--Introduction to Computers	3
CIS 202--Computer Programming Basic	3
CIS 203--Pascal Programming for Business and Service	3
CIS 210--Computer Programming Assembler	3
CIS 215--Computer Programming COBOL I	3
CIS 216--Programming in PL/I	3
CIS 260--FORTRAN Programming I	3
CIS 301--Microcomputers	3
CIS 315--Computer Programming COBOL II	3
CIS 316--Advanced PL/I Programming	3

**Mark Reasoning**

MATH 123--Intro. to Statistics	3
MATH 131--General Mathematics	3
MATH 135--Mathematics for Technical Students	3
MATH 152--College Algebra	3
MATH 160--Math for Business and Economics	3
MATH 173--Pre-Calc I	3
MATH 174--Pre-Calc II	3
MATH 175--Analytical Geometry and Calc I	3
MATH 353--Statistics	3
MATH 354--Business Statistics	3

**Management\*\***

MNGT 160--Introduction to Business	3
MNGT 261--The Legal Environment of Business Organizations	3
MNGT 301--Principles of Management	3
ACCT 281--Principles of Accounting	3
ECON 201--Principles of Economics	3
FIN 264--Personal Finance	3

**National Security Studies**

GOVT 141--Govt. of the U.S.	3
GOVT 242--State and Local Government	3
GOVT 300--Municipal Court	3
GOVT 305--Intro. to Political Behavior	3
GOVT 362--Current World Problems	3
GOVT 330--Parliamentary Democracies	3
GOVT 334--Soviet Union and Eastern European Government	3

\*\*Required for ROTC scholarship students.

**Minor**

*6 to 8 credit hours from the following MS courses denoted by an asterisk (*). All other MS courses are required	6-8
*MS 101--Introduction to Military Science	2
*MS 102--U.S. Army: Its Evolution & Development	2
*MS 201--Leadership Principles and Techniques	2
*MS 202--Application of Military Skills and Knowledge	2
MS 301--Advanced Military Science I	3
MS 302--Advanced Military Science II	3
MS 401--Advanced Military Science III	3
MS 402--Advanced Military Science IV	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 grade-point average of 2.0 or better.
3. A grade-point average of 2.0 or better in the major field or area of concentration.
4. A grade-point average of 3.0 or better in military science.

The above standards may be waived, providing the cadet has a cumulative grade-point average of 2.25 or better, with the approval of a board consisting of the Professor of Military Science, the Dean, College of Education and Behavioral Sciences, and an MS IV cadet who has the rank of cadet major or above.

## Department of Psychology

Dr. George Tapp, Chair  
(606) 783-2981  
601 Ginger Hall

### Psychology

**Faculty**--L. Augsbach, L. Clough, A. Demaree, J. Gotsick, B. Mattingly, C. Morgan, D. Olson, F. Osborne, A. Simon, G. Tapp (Chair)

#### Competencies Required in the Program

*Students should:*

1. Understand the complexity of human and animal behavior and the various factors and theories used to explain its occurrence.
2. Demonstrate competence in statistical reasoning and inference.
3. Demonstrate ability to critically evaluate basic and applied research in psychology.
4. Know the principal tenets and major theoretical characteristics of the major systems in psychology.
5. Develop an awareness of the relationship and influences of selected biopsychological principles on behavior.
6. Understand major developmental principles and their relationship to human behavior.
7. Understand human behavior from an interpersonal and/or intrapersonal standpoint.
8. Know the basic learning processes involved in the acquisition and maintenance of behavior.

#### Additional Competencies for Area of Concentration in Psychology

1. Understand basic principles relating to individual differences, including normal developmental processes and personality.
2. Demonstrate an awareness of ethical and legal issues in psychological research and psychological applications that are involved in the utilization of psychological evaluation and treatment methods.
3. Know the psychometric and utilization characteristics of selected level A and B (APA classification) tests.
4. Demonstrate an awareness and/or understanding of major theoretical systems in counseling and psychotherapy.
5. Demonstrate entry level skills in specialized methods of psychotherapy.
6. Demonstrate an awareness and/or understanding of basic principles of selected content areas in psychology; i.e., industrial, social, etc.

7. Demonstrate within a supervised clinical field experience entry level evaluative and/or therapeutic skills for working with selected clientele in a human service setting under professional supervision.

#### Assessment Procedures

Exit examination

### Bachelor of Arts

The Department of Psychology offers a traditional liberal arts major and minor and an area of concentration which does not require electing a minor or second major. The area of concentration has a specialization core which is designed to train individuals at the baccalaureate level to function as direct service providers in various clinical settings. Individuals who desire teacher certification with a psychology major must also present a teaching minor in a designated program. See "Teacher Education Program" and "Professional Laboratory Experiences" requirements.

#### Area

	Sem. Hrs.
PSY 154--Introduction to Psychology	3
PSY 381--Experimental Psychology I	3
PSY 585--Systems and Theories	3
Statistics	
MATH 353--Statistics; or	
MATH 354--Business Statistics; or	
EDSP 581--Educational Statistics	3
Selected from the following	30
PSY 156--Life Span Developmental Psychology	3
PSY 157--Psychology of Adjustment	3
PSY 353--Industrial Psychology	3
PSY 354--Introduction to Social Psychology	3
PSY 358--Psychological Testing	3
PSY 359--Applied Behavior Analysis	3
PSY 390--Psychology of Personality	3
PSY 421--Physiological Psychology	3
PSY 456--Introduction to Clinical Psychology	3
PSY 465--Introduction to Psychopharmacology	3
PSY 469--Counseling Psychology	3
PSY 471--Addiction Therapies	3
PSY 472--Practicum	3-6
PSY 586--Motivation	3
PSY 590--Abnormal Psychology	3
Electives (selected from courses not elected above or from the following courses)	12
PSY 199--Workshop	1-3
PSY 276--Independent Study	1-3
PSY 399--Workshop	1-3
PSY 422--Comparative Psychology	3
PSY 470--Research Problems	1-3
PSY 554--Seminar in Social Psychology	3
PSY 555--Environmental Psychology	3
PSY 576--Selected Topics	3-6
PSY 582--Experimental Psychology II	3
PSY 583--Sensory Psychology	3
PSY 584--Perceptions	3
PSY 589--Psychology of Learning	3

PSY 599--Workshop . . . . . 1-3

### Major

PSY 154--Introduction to Psychology . . . . . 3

PSY 381--Experimental Psychology I . . . . . 3

PSY 585--Systems and Theories . . . . . 3

MATH 353--Statistics; or  
EDSP 581--Educational Statistics . . . . . 3

Selected from the following categories:

Biopsychology . . . . . 3

PSY 421--Physiological Psychology; or

PSY 583--Sensory Psychology

Developmental . . . . . 3

PSY 156--Life-span Developmental Psychology; or

PSY 557--Seminar in Developmental Research

Experimental . . . . . 3

PSY 554--Seminar in Social Psychology; or

PSY 582--Experimental Psychology II; or

PSY 584--Perception

Learning and Motivation . . . . . 3

PSY 359--Applied Behavior Analysis; or

PSY 586--Motivation; or

PSY 589--Psychology of Learning

Social and Personality . . . . . 3

PSY 354--Introduction to Social Psychology; or

PSY 390--Psychology of Personality; or

PSY 555--Environmental Psychology; or

PSY 456--Introduction to Clinical Psychology; or

PSY 590--Abnormal Psychology

Elective (selected from courses not used as required courses,  
or from the following courses) . . . . . 9

PSY 157--Psychology of Adjustment . . . . . 3

PSY 199--Workshop . . . . . 1-3

PSY 276--Independent Study . . . . . 1-3

PSY 353--Industrial Psychology . . . . . 3

PSY 358--Psychological Testing . . . . . 3

PSY 422--Comparative Psychology . . . . . 3

PSY 465--Introduction to Psychopharmacology . . . . . 3

PSY 469--Counseling Psychology . . . . . 3

PSY 470--Research Problems . . . . . 3

PSY 575--Selected Topics . . . . . 1-3

PSY 599--Workshop . . . . . 1-3

36

### Minor

PSY 154--Introduction to Psychology . . . . . 3

MATH 353--Statistics; or

EDSP 581--Educational Statistics . . . . . 3

Psychology electives . . . . . 18

24



# Department of Sociology, Social Work and Criminology

Dr. David Rudy, Chair  
(606) 783-2656  
347 Rader Hall

## Social Work

**Faculty**--M. Carney, L. Crosthwaite, T. Marshall, J. Seelig  
(Coordinator), J. Stafford

### Competencies Required in the Program

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 generalists problem-solving process based upon General systems Theory to various sized client systems in all practice areas.
6. Understand legislative, judicial, administrative and other political processes as they affect social welfare policy and social program.
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.

### Assessment Procedures

Surveys of graduates

## Bachelor of Social Work

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. Prepares students as generalists practioners for entry level professional practice with individuals, marital couples, families, small groups, organizations, and entire communities.

### Program Requirements

	Sem. Hrs.
SWK 210--Orientation to Social Work . . . . .	4
SWK 230--Social Welfare History and Ethics . . . . .	3
SWK 322--Human Behavior in Social Environment . . . . .	3
SWK 450--Research Methodology . . . . .	3
SWK 325--Soc. Work Theory and Method . . . . .	3
SWK 451--Soc. Science Data Analysis . . . . .	3
SWK 424--Social Work Practice Skills I . . . . .	3
SWK 426--Social Work Practice Skills II . . . . .	3
SWK 427--Social Work Practice Skills III . . . . .	3
SWK 430--Social Policy and Planning . . . . .	3
SWK 490--Senior Seminar . . . . .	1
SWK 410--Practicum in Social Work . . . . .	8
Social Work Electives . . . . .	6
SOC 101--General Sociology . . . . .	3
SOC 203--Contemporary Social Problems . . . . .	3
SOC 354--Individual and Society . . . . .	3
SOC 374--American Minority Relations . . . . .	3
BIOL 105--Intro. to Biological Sciences; or BIOL 355--Population, Resources, Environment . . . . .	3
MATH 131--General Mathematics . . . . .	3
GOVT 141--U.S. Government; or GOVT 242--State and Local Government . . . . .	3
PSY 154--Intro. to Psychology . . . . .	3
PHIL 200--Intro. to Philosophy; or PHIL 303--Social Ethics . . . . .	3
ECON 201--Principles of Econ. I . . . . .	3
GOVT 322--Courts and Civil Liberties . . . . .	3
ENG 591--Technical Writing . . . . .	3
PSY 590--Abnormal Psychology; or PSY 390--Personalities . . . . .	3
General Electives . . . . .	22

### Recommended Course Sequence

#### Freshman Year

First Semester	
ENG 101--Composition I . . . . .	3
*PSY 154--Introduction to Psychology . . . . .	3
*SOC 101--General Sociology . . . . .	3
HLTH 203--Safety and First Aid . . . . .	3
Physical Science . . . . .	3
	15

Second Semester	
ENG 102--Composition II; or ENG 192--Technical Composition . . . . .	3
*BIOL 105--Introduction to Biological Sciences; or BIOL 355--Population, Resources and Environment . . . . .	3
SOC 203--Contemporary Social Problems . . . . .	3
MATH 131--General Mathematics . . . . .	3
General Electives . . . . .	3
	15

#### Sophomore Year

First Semester	
SWK 210--Orientation to Social Work . . . . .	4
ENG 202--Introduction to Literature;	

ENG 211--Introduction to World Literature I; or ENG 212--Introduction to World Literature II	3
*GOVT 141--United States Government; or GOVT 242--State and Local Government	3
*PHIL 200--Introduction to Philosophy; or PHIL 303--Social Ethics	3
General Electives	3
	16

**Second Semester**

**SWK 230--Social Welfare History and Ethics	3
SPCH 110--Basic Speech; or SPCH 370--Business and Professional Speech	3
SOC 354--The Individual and Society	3
*ECON 201--Principles of Economics I	3
General Education (Humanities)	3
General Electives	3
	18

**Junior Year****First Semester**

**SWK 322--Human Behavior in the Social Environment	3
**SWK 450--Research Methodology	3
PSY 390--Psychology of Personality; or PSY 590--Abnormal Psychology	3
GOVT 322--American Courts and Civil Liberties	3
General Electives	6
	18

**Second Semester**

**SWK 325--Social Work Theory and Method	3
**SWK 451--Social Science Data Analysis	3
ENG 591--Technical Writing	3
SOC 374--American Minority Relations	3
Social Work Electives	3
General Electives	3
	18

**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
	16

**Second Semester**

**SWK 427--Social Work Practice Skills III	3
**SWK 490--Senior Seminar	1
**SWK 410--Practicum in Social Work	8
	12

TOTAL HOURS 128

\*Denotes Specific General Education Requirements mandated for BSW Students.

\*\*Denotes Core Social Work Course requiring a grade of "C" or higher.

**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.

SWK 210--Orientation to Social Work	4
SWK 230--Social Welfare History and Ethics	3
SWK 310--Field Experiences in Social Work	3
SWK 333--Beginning Helping Skills for Human Service Professionals	3
SWK electives	9
	22

**Sociology**

**Faculty**--R. Bylund, M. Carney, L. Crosthwaite, B. Johnson, T. Marshall, M. Patton, E. Reeves, D. Rudy (chair), J. Seelig, J. Stafford, S. Tallichet, G. Wang, A. Wheeler

**Competencies Required in the Sociology Program****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.

**Competencies Required in the Sociology - Criminology Emphasis Program****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:**

*Pre- and post examinations 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, criminal justice, personnel, public relations, and more.

Sociology majors seeking teacher certification must also present a teaching minor. See "Teacher Education Program" and "Professional Laboratory 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 g.p.a. of 2.25 in all courses included in these respective programs.

## Bachelor of Arts in Sociology

### Major

SOC 101--General Sociology	3
SOC 305--Cultural Anthropology	3
SOC 405--Sociological Theory	3
SOC 450--Research Methodology	3
SOC 451--Social Science Data Analysis	3
SOC 460--Senior Seminar	3
SOC--electives of which 12 sem. hrs. must be on the 300 level or above	15
	33

### Minor

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
	24

## Emphasis in Criminology

The Criminology Program, including sociology with a criminology emphasis, 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. (See additional program standards under Sociology.)

SOC 101--General Sociology	3
SOC 374--Contemporary Social Problems	3
SOC 405--Sociological Theory	3
SOC 450--Research Methodology	3
SOC 451--Social Science Data Analysis	3
SWK 333--Beginning Skills for Human Service Professional; or (if Social Work Minor) Correctional Counseling	3
CRIM 210--The Sociology of Deviance	3
CRIM 401--Criminology	3
CRIM 490--Practicum in Criminology	5
CRIM 491--Senior Seminar	3
CRIM Electives	3
	36

## Minor in Criminology

CRIM 201--Sociology of Deviance	3
CRIM 420--Seminar in Criminal Behavior	3
SWK 333--Beginning Skills for Human Service Professionals	3
Advanced electives in criminology	15
	24

## Caudill College of Humanities

John Kleber (Interim Dean)  
(606)783-2650  
212 Rader Hall

Department of Art  
Department of Communications  
Department of English, Foreign Languages, and Philosophy  
Department of Geography, Government, and History  
Department of Music





# Department of Art

Mr. Thomas Sternal, Chair  
(606) 783-2766  
211 Claypool-Young Art Building

## Art

**Faculty**--D. Bartlett, B. Booth, D. Ferrell, R. Franzini, R. Howard,  
R. Jones, J. Sartor, T. Sternal (chair), S. Tirone, D. Young

### Competencies Required in the Program

Students are expected to:

1. Produce art work which exhibits originality, skills essential to the media and professionalism in presentation.
2. Be able to converse thoughtfully and articulately about their work, their chosen media, and the history of art.
3. View art exhibitions outside the Morehead area.

### Assessment Procedures

Sophomore exhibits of four works

Senior resumes including 20 slides of their art work  
2.50 grade point average required in all art classes at end of sophomore year  
2.75 grade point average required in all art classes at graduation

Transfer students must comply with the intent of these requirements on an individually evaluated basis.

## Bachelor of Arts

The Department of Art offers undergraduate and graduate programs in art education, art history, and studio art. Courses on the beginning, intermediate, and advanced levels are available in art education, art history, ceramics, commercial art, crafts, drawing, figure drawing, painting, photography, printmaking, and sculpture.

### Art Major

	Sem. Hrs.
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
ART 263--Introduction to Art History I	3
ART 264--Introduction to Art History II	3
ART 283--Basic Black and White Photography; or ART 351--Intaglio Printmaking; or ART 352--Lithographic Printmaking	3
ART 245--Ceramics I; or ART 294--Sculpture I	3
ART History (300 or higher elective)	3

ART electives (Art Majors wanting certification must take-- ART 300 and ART 321)	6
Art major (minimum) credits	36

### Area of Concentration beyond the Major

ART 304--Drawing II	3
Art History 300 or above	3
Four additional elective art courses (could include all Studio, Commercial Art, Art History, Art Education, Internship Courses as choices)	12
Art concentration (minimum) credits	54

### Studio Art Minor

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
ART 283--Basic Black and White Photography; or ART 351--Intaglio Printmaking; or ART 352--Lithographic Printmaking	3
ART 245--Ceramics I; or ART 294--Sculpture I	3
ART elective	3
Studio art minor (minimum) credits	24

### Art History Minor

ART 101--Two Dimensional Foundation	3
ART 103--Color Foundation	3
ART 263--Introduction to Art History I	3
ART 264--Introduction to Art History II	3
Art history 300 or above	6
Art elective course	3
Art history minor (minimum) credits	21

### Art Education Minor

ART 101--Two Dimensional Foundation	3
ART 102--Three Dimensional Foundation	3
ART 263--Introduction to Art History I	3
ART 264--Introduction to Art History II	3
ART 283--Basic Black and White Photography; or ART 351--Intaglio Printmaking; or ART 352--Lithographic Printmaking	3
ART 245--Ceramics I; or ART 294--Sculpture I	3
ART 300--Elementary Materials and Methods	3
ART 321--Secondary Materials and Methods	3
ART elective courses	6
Art education minor (minimum) credits	30

## Department of Communications

Janet Kenney, Chair  
(606) 783-2134  
107 Breckinridge Hall

The Department of Communications prepares students for professional, business, and educational careers in speech, theatre, radio-television, and journalism. Recognition of the literary, artistic, psychological and rhetorical elements of these studies enhances the student's appreciation of man's expressive achievements and the impact of the mass media of communications on society.

## Communications

**Faculty**--J. Adkins, M. Biel, N. Breaux, D. Collins, L. Dales, D. Greer, S. Kasior, D. Plum, K. Sexton

### Restrictions Applying to All Programs in Communications

A student may apply credit toward a program of study in the Department of Communications a limited number of hours from any combination of the following courses:

- Cooperative Study 139, 239, 439, 539.
- Internship 247, 447.
- Special Problems 476.

In each communications program, no more than 9 hours in any combination of the courses listed above may be applied toward an area of concentration or a major. No more than 6 such hours may be applied toward a minor.

Credit hours earned in these courses which exceed the limits above will not apply to program requirements, but may be applied to the minimum requirements for an A.B.

All students are required to participate in an exit assessment activity administered by the department prior to graduating.

## Bachelor of Arts

### Area of Concentration in Communications

All students taking the area of concentration will complete the core courses listed below and one of the four emphases on the accompanying pages. A minor is not required. However, students may complete a minor if they so desire.

### Core Courses

#### Required of All Students With An

#### Area of Concentration in Communication

GEO 100--Fundamentals of Geography . . . . . 3

CMNJ 110--Introduction to Mass Communication . . . . .	3
CMEM 150--Survey of Electronic Media . . . . .	3
CMEM 151--Introduction to Broadcast Techniques . . . . .	3
CMAP 166--Desktop Publishing & Publication Techniques I . . . . .	3
CMJN 201--News Writing & Reporting . . . . .	3
GOVT 242--State & Local Government . . . . .	3
HIS 242--Recent American History . . . . .	3
CMAP 382--Principles of Public Relations . . . . .	3
CMAP 383--Principles of Advertising . . . . .	3
SPCH 370--Business & Professional Speech . . . . .	3

TOTAL 33

*\*Note: Courses satisfying core requirements will not count simultaneously for general education requirements.*

### Competencies Required in All Emphases of Electronic Media

Students will demonstrate:

1. Basic knowledge of the history of broadcasting.
2. Basic knowledge of the operation of audio and television broadcasting equipment.
3. Ability to write for the broadcast media.
4. Knowledge of the theory and practice of news and public affairs writing and reporting.
5. Basic knowledge of the techniques and directing skills necessary for basic television production.
6. Ability to view the broadcast media with an objective and critical eye in order to be an informed user.
7. Basic understanding of the non-commercial and educational uses of broadcast media.
8. Basic understanding of the operation of non-broadcast and cable system.
9. Basic understanding of the management skills necessary for the operation of a broadcast station, including audience research and programming.
10. Basic understanding of the current trends and problems within the broadcast industry.
11. Understanding of the concepts, regulations, and laws which affect the electronic media.
12. Awareness of the social and economic implications of the electronic media, both nationally and worldwide.
13. Acceptable performance, in keeping with levels of individual talent, in such areas as announcing, newscasting and reporting, delivering commercial copy and hosting broadcast programs.
14. Basic knowledge of audio production direction.

### Assessment Procedures

Capstone Senior Course  
Exit Examinations

### Electronic Media Production & Management Emphasis

CMEM 221--Broadcast Portfolio I . . . . .	1
CMEM 250--Audio Production & Direction . . . . .	4
CMEM 321--Broadcast Portfolio II . . . . .	1
CMEM 338--Radio Operating Practices . . . . .	1
CMEM 340--Video Production & Direction . . . . .	3
CMEM 341--Writing for Electronic Media . . . . .	3

CMEM 421--Broadcast Portfolio III	1
CMEM 450--Electronic Media Management	3
CMEM 459--Electronic Media Law & Regulation	3
CMEM 562--Electronic Media Criticism	3
Electives	4
<b>TOTAL</b>	<b>27</b>

### Minor in Electronic Media Production & Management

CMEM 150--Survey of Electronic Media	3
CMEM 250--Audio Production & Direction	4
CMEM 340--Video Production & Direction I	3
CMEM 341--Writing for the Electronic Media	3
CMEM 450--Electronic Media Management	3
CMEM Electives	6
<b>TOTAL</b>	<b>22</b>

### Electronic Media News Emphasis

CMEM 221--Broadcast Portfolio I	1
CMEM 250--Audio Production & Direction	4
CMEM 321--Broadcast Portfolio II	1
CMEM 338--Radio Operating Practices	1
CMEM 340--Video Production & Direction I	3
CMEM 344--Broadcast News & Public Affairs	3
CMEM 420--News Feature & Documentary Writing	3
CMEM 421--Broadcast Portfolio III	1
CMEM 435--Interviewing for Broadcast	3
CMEM 459--Electronic Media Law & Regulation	3
Electives	4
<b>TOTAL</b>	<b>27</b>

### Minor in Electronic Media News

CMEM 150--Survey of Electronic Media	3
CMEM 250--Audio Production & Direction	4
CMEM 340--Video Production & Direction I	3
CMEM 344--Broadcast News & Public Affairs	3
CMEM 420--News Feature & Documentary Writing	3
CMEM Electives	6
<b>TOTAL</b>	<b>22</b>

### Competencies Required in the Journalism Emphasis

Students will demonstrate:

1. Competency in gathering, writing, and editing information for effective news stories and feature articles.
2. Competency in exposing and processing black and white photographic materials for the print media.
3. An understanding of the history and development of journalism in America and its role in the development and maintenance of a democratic society.
4. An understanding of media law as it applies to libel, privacy, copyright, freedom of information, open meetings and other basic legal interests of the press.
5. An understanding of and skills in design, page layout and graphics required for newspaper, magazine and advertising-public relations publications.
6. A skill in using production equipment and technology, including computers, software, scanners and printers.

### Additional Competencies for Specific Emphases:

#### News-Editorial Emphasis

Competency in writing effective works of opinion, including editorials, reviews, columns, and critical essays.

#### Advertising-Public Relations Emphasis

Competency in designing, producing and selling advertising and promotional materials for the print media.

Competency in skills necessary for producing and carrying out a public relations campaign.

#### Photojournalism

Competency in exposing and processing color photographic materials for the print media.

Competency in designing photo layouts for the print media.

#### Assessment Procedures

Capstone Senior Course

Exit Examinations

### Journalism Emphasis

CMJN 204--Copyreading & Editing	3
CMJN 247--Trail Blazer Internship	2
CMJN 285--Intro. to Photojournalism	3
CMJN 301--Advanced News Writing	3
CMJN 421--Portfolio	3
CMJN 447--Trail Blazer Internship	2
CMJN 465--Editorial Writing	3
CMAP 366--Desktop Publishing & Publication Techniques II	3
CMJN 505--Law & Ethics of the Press	3
<b>TOTAL</b>	<b>25</b>

### Minor in Journalism

CMAP 166--Desktop Publishing & Publication Techniques I	3
CMJN 201--News Writing & Reporting	3
CMJN 247--Trail Blazer Internship	3
CMJN 285--Intro. to Photojournalism	3
CMJN 301--Advanced News Writing	3
CMJN 465--Editorial Writing	3
CMJN 505--Law & Ethics of the Press	3
<b>TOTAL</b>	<b>21</b>

### Minor in Photojournalism

CMAP 166--Desktop Publishing & Publication Techniques I	3
CMJN 201--News Writing & Reporting	3
CMJN 204--Copyreading & Editing	3
CMJN 247--Trail Blazer Internship	3
CMJN 285--Intro. to Photojournalism	3
CMJN 386--Photo Essay & Editing	3
CMJN 387--Advanced Photojournalism	3
<b>TOTAL</b>	<b>21</b>

### Advertising-Public Relations Emphasis

CMAP 247--Internship	1
CMJN 285--Introduction to Photojournalism	3
MKT 304--Marketing	3
CMAP 366--Desktop Publishing & Publication Techniques II	3
CMAP 421--Portfolio	3
CMAP 447--Internship	2
MKT 454--Promotional Strategies	3

CMAP 482--Public Relations Practices	3
CMAP 483--Advertising Design	3
<b>TOTAL</b>	<b>24</b>

**Minor in Advertising-Public Relations**

CMAP 166--Desktop Publishing & Publication Techniques I	3
CMJN 201--News Writing & Reporting	3
CMAP 247--Internship	1
CMAP 382--Principles of Public Relations	3
CMAP 383--Principles of Advertising	3
CMAP 366--Desktop Publishing & Publication Techniques II	3
CMAP 482--Public Relations Practices	3
CMAP 483--Advertising Design	3
<b>TOTAL</b>	<b>22</b>

**Speech**

**Faculty**--L. Albert, E. Earl, S. Gish, H. Hamm, G. LaFleur, C. Lindell, J. Modaff, C. Thomas, J. Wilson

**Competencies Required in the Program**

*Students are to possess:*

1. Clear vocal expression in English.
2. Demonstrated effectiveness in public address.
3. Ability to analyze text through performance.
4. Comprehension of basic communication theories.
5. Ability to research, develop and deliver cogent arguments.
6. Ability to participate effectively in small group discussions.
7. Ability to criticize and practice persuasive appeals.

**Assessment Procedures**

Senior Capstone Course  
Exit Examinations

**Restrictions Applying to All Programs in Communications.**

A student may apply credit toward a program of study in the Department of Communications a limited number of hours from any combination of the following courses:

- Cooperative Study 139, 239, 439, 539.
- Internship 247, 447.
- Special Problems 476.

In each communications program, no more than 9 hours in any combination of the courses listed above may be applied toward an area of concentration or a major. No more than 6 such hours may be applied toward a minor.

Credit hours earned in these courses which exceed the limits above will not apply to program requirements, but may be applied to the minimum requirements for an A.B.

**Bachelor of Arts**

**Major**

SPCH 100--Voice and Articulation	3
SPCH 110--Basic Speech	3
SPCH 200--Oral Interpretation	3
SPCH 220--Introduction to Communication Theory	3
SPCH 382--Argumentation and Debate; or SPCH 383--Group Discussion	3
SPCH 385--Persuasion	3
SPCH 401--Capstone Senior Seminar	2

Teacher education majors have the following additional requirements: SPCH 495 and 15 hours of speech electives, as approved by the advisor, for a total of 38 hours. SPCH 497 is strongly recommended for all majors entering the field of education.

Non-teacher education majors are required 18 hours of speech electives as approved by the advisor and in addition to the above program requirements, for a total of 38 hours. For those interested in college level teaching SPCH 595 or SPCH 495, SPCH 497, and THEA 300 are strongly recommended.

**Minor**

SPCH 100--Voice and Articulation	3
SPCH 110--Basic Speech	3
SPCH 200--Oral Interpretation	3
SPCH 382--Argumentation and Debate; or SPCH 383--Group Discussion	3
SPCH 401--Capstone Senior Seminar	2
*SPCH 495--Administering the Communications Program	3
Electives in speech, approved by the advisor	6-9
	<b>23</b>

*\*Required only for the minors entering the field of education. (SPCH 497 is strongly recommended for all minors entering the field of education.)*

*All students in speech are required to participate in an exit assessment activity administered by the department prior to graduating.*

**Minor in Organization Communication**

SPCH 310--Interpersonal Communication	3
SPCH 370--Business and Professional Speech	3
SPCH 567--Organizational Communication	3
ENG--Option--One of the following courses	3
ENG 192--Technical Composition	
ENG 591--Technical Writing I	
ENG 595--Technical Writing II	
Electives (Choose three courses from following list)	9
SPCH 210--Listening	
SPCH 315--Verbal Survival	
SPCH 383--Group Discussion	
SPCH 385--Persuasion	
SPCH 510--Advanced Public Speaking	
SPCH 570--Parliamentary Procedure	
SPCH 571--Interviewing	
OADM 220--Basic Information Processing I	
OADM 321--Business Communications	
ENG--technical writing courses not taken to meet the above requirements	



All students in the department are required to participate in an exit assessment activity administered by the department prior to graduating.

## Speech/Theatre

**Faculty**--L. Albert, E. Earl, S. Gish, H. Hamm, W. Layne, G. LaFleur, C. Lindell, T. Lockhart, J. Modaff, C. Thomas, J. Wilson

### Competencies Required in the Program

Students are expected to possess:

1. Clear vocal expression in English.
2. Demonstrated effectiveness in public address.
3. Ability to participate effectively in small group discussions.
4. Ability to demonstrate familiarity with significant periods and styles of dramatic literature.
5. Ability to design and construct basic scenic units such as flats and platforms.
6. Ability to select, design and construct stage properties.
7. Ability to interpret a play through the design and rendering of a stage setting.
8. Ability to maintain and complete a stage manager's prompt book.
9. Ability to design and build costumes, demonstrating and understanding of character, action, and theme through line, color, and fabric.
10. Ability to demonstrate familiarity with artistic and mechanical principles of stage lighting.
11. Ability to demonstrate knowledge of theory and skills in the art of acting, including movement, voice, characterization, relaxation, concentration, line memorization, script analysis and improvisation.
12. Ability to demonstrate basic skills in play directing including script analysis, staging, rehearsal techniques, design, coordination and communication of production concept.

### Assessment Procedures

Capstone Senior Seminar  
Exit Examination

### Restrictions Applying to All Programs in Communications

A student may apply credit toward a program of study in the Department of Communications a limited number of hours from any combination of the following courses:

Cooperative Study 139, 239, 439, 539.  
Internship 247, 447.  
Special Problems 476.

In each communications program, no more than 9 hours in any combination of the courses listed above may be applied toward an area of concentration or a major.

No more than 6 such hours may be applied toward a minor.

Credit hours earned in these courses which exceed the limits above will not apply to program requirements, but may be applied to the minimum requirements for an A.B.

## Bachelor of Arts

### Major

SPCH 100--Voice & Articulation . . . . .	3
SPCH 110--Basic Speech . . . . .	3
SPCH 382--Argumentation and Debate; or SPCH 383--Group Discussion . . . . .	3
SPCH 401--Capstone Senior Seminar . . . . .	2
SPCH 405--Administering the Communications programs . . . . .	3
THEA 100--Fundamentals of the Theatre . . . . .	3
THEA 200--Introduction to Dramatic Literature . . . . .	3
THEA 210--Technical Production . . . . .	3
THEA 284--Acting Technique . . . . .	3
THEA 380--Play Directing . . . . .	3
Approved Electives . . . . .	9
	TOTAL 38

Teacher education majors have the following additional requirements: SPCH 100, SPCH 495, THEA 210, THEA 284, and THEA 380. In addition, teacher education majors must complete 9 hours of electives approved by the advisor for a total of a 38 hour major.

All students in speech theatre are required to participate in an exit assessment activity administered by the department prior to graduating.

## Theatre

**Faculty**--W. Layne, T. Lockhart (director of theatre)

### Competencies Required in the Program

Students are to possess:

1. Ability to demonstrate familiarity with significant periods and styles of dramatic literature.
2. Ability to demonstrate basic knowledge of chronological history of the theatre history.
3. Ability to design and construct basic scenic units such as flats and platforms.
4. Ability to select, design and construct stage properties.
5. Ability to interpret a play through the design and rendering of a stage setting.
6. Ability to maintain and complete a stage manager's prompt book.
7. Ability to design and build costumes, demonstrating an understanding of character, action, and theme through line, color and fabric.
8. Ability to demonstrate familiarity with artistic and mechanical principles of stage lighting.

9. Ability to demonstrate knowledge of theory and skills in the art of acting, including movement, voice, characterization, relaxation, concentration, line memorization, script analysis and improvisation.
10. Ability to execute all types of stage make-up.
11. Ability to demonstrate basic skills in play directing including script analysis, staging, rehearsal techniques, design coordination and communication of production concept.

**Restrictions Applying to All Programs in Communications**

A student may apply credit toward a program of study in the Department of Communications a limited number of hours from any combination of the following courses:

- Cooperative Study 139, 239, 439, 539.
- Internship 247, 447.
- Special problems 476.

In each communications program, no more than 9 hours in any combination of the courses listed above may be applied toward an area of concentration or a major. No more than 6 such hours may be applied toward a minor.

Credit hours earned in these courses which exceed the limits above will not apply to program requirements, but may be applied to the minimum requirements for an A.B.

**Bachelor of Arts**

**Major (Non-Teaching)**

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
SPCH 100--Voice and Articulation I	3
Theatre electives	6
TOTAL 36	

**Minor (Teaching and Non-Teaching)**

THEA 100--Fundamentals of the Theatre	3
THEA 200--Introduction to Dramatic Literature	3
THEA 210--Technical Production	3
THEA 284--Acting Technique	3
THEA 320--Scenographic and Drawing Techniques	3
THEA 322--Scene Design	3
THEA 380--Play Directing	3
TOTAL 21	

*All students in theatre are required to participate in an exit assessment activity administered by the department prior to graduating.*

## Department of English, Foreign Languages and Philosophy

Dr. Mark Minor, Chair  
(606) 783-2185  
103 Combs Building

### English

**Faculty**--R. Battaglia, M. Boisseau, G. Campbell, G. Colburn, G. R. Dobler, G. Eklund, M. Glasser, F. Helphinstine, T. Irons, J. LeMaster, J. Mace, G. Mays, M. Minor (chair), R. Morrison, S. Morrison, L. Neeper, B. Peters, N. Peterson, G. Rogers, J. Rogers, T. Stroik, L. Vishomirskye

#### Competencies Required in the Program

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).
3. Ability to write and think critically, leading to a mastery of discourse appropriate to English studies.
4. Competency in research methods and use of library materials appropriate to scholarship in English studies.
5. Knowledge of various linguistic, rhetorical, and/or critical approaches to language study.
6. Knowledge of culturally diverse literature.
7. Knowledge of Shakespeare's work.

*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 that they may use their language as effectively and precisely as possible and by introducing them to the sympathetic understanding of literature so that their personal lives will be enriched by literary art. It prepares students for such vocations as teaching, publishing, business and public relations as well as for further professional studies.

#### Requirements

In addition to the requirements listed, a minimum of two semesters (6 hrs.) of a foreign language is required of

students completing an area or major in English. Four semesters (12 hrs.) of a foreign language are recommended.

#### Area of Concentration (Teaching)\*

	Sem. Hrs.
American literature surveys (elect one) . . . . .	3
ENG 341--American Literature to 1850	
ENG 342--American Literature since 1850	
British literature surveys . . . . .	6
ENG 331--British Literature to 1750	
ENG 332--British Literature since 1750	
English grammar (elect one) . . . . .	3
ENG 315--Structure of English	
ENG 505--Linguistics: Grammar	
English linguistics (elect one) . . . . .	3
ENG 305--Introduction to Linguistics	
ENG 315--Structure of English	
ENG 393--History of the English Language	
ENG 394--Language and Society	
ENG 501--General Semantics	
ENG 505--Linguistics: Grammar	
Writing (elect course from 300-500 level) . . . . .	3
ENG 500--Studies in English for Teachers . . . . .	3
ENG 435--Shakespeare . . . . .	3
English electives (excludes 100 level courses) . . . . .	15
Of these 15 hours, a minimum of 12 hours of 300-500 level courses must be taken, including 6 hours from the following:	
ENG 344--The Short Story and the Novel	
ENG 436--The English Renaissance	
ENG 441--Restoration and Eighteenth Century British Literature	
ENG 442--Romantic Writers	
ENG 443--Victorian Writers	
ENG 444--Twentieth Century British Literature	
ENG 466--American Poetry	
ENG 499--Seminar: Major Writers	
ENG 528--Literary Criticism	
ENG 533--The English Novel	
ENG 534--Chaucer	
ENG 539--Milton	
ENG 545--Seventeenth Century British Literature	
ENG 552--Early Dramatic Literature	
ENG 553--Modern Drama	
ENG 561--Studies in American Literary Periods	
ENG 563--American Fiction	
Communications . . . . .	3
SPCH 200--Oral Interpretation	
Theatre requirement (elect one) . . . . .	3
THEA 100--Fundamentals of the Theatre	
THEA 110--Introduction to the Theatre	
Theatre elective (elect one) . . . . .	3
THEA 200--Introduction to Dramatic Literature	
THEA 300--Elements of Play Production	
THEA 354--Theatre History	
THEA 375--Creative Dramatics	
JOUR 201--News Writing and Reporting . . . . .	3
Journalism elective (elect course from 200-500 level) . . . . .	3
(Typing skills required)	54

In addition to the 54 hour requirement listed above, students pursuing the English teaching area must also take at least 6 sem. hrs. of a foreign language, EDUC 576--Reading in the Secondary School, and complete the requirements of the Teacher Education Program and Professional Laboratory Experience. The area in English does not include the general education requirements in composition (6 sem. hrs.) and speech (3 sem. hrs.).

**\*Note:** Students wishing to take the Area of Concentration in English without teaching certification may do so by substituting six sem. hrs. of elective courses in place of ENG 500--Studies in English for Teachers and the English grammar choice (ENG 315--Structures of English or ENG 505--Linguistics: Grammar). Both certification and non-certification students must complete at least six sem. hrs. of one foreign language. The area in English does not include the general education requirements in composition (six sem. Hrs.) and speech (3 sem. hrs.).

**Major**

General education literature (elect one) ..... 3  
 ENG 202--Introduction to Literature  
 ENG 211--Introduction to World Literature I\*  
 ENG 212--Introduction to World Literature II  
**\*ENG 211 is recommended for English majors seeking teacher certification.**

American literature surveys (elect one) ..... 3  
 ENG 341--American Literature to 1850  
 ENG 342--American Literature since 1850

British literature surveys ..... 6  
 ENG 331--British Literature to 1750  
 ENG 332--British Literature since 1750

English language\* (elect one) ..... 3  
 ENG 305--Introduction to Linguistics  
 ENG 315--Structure of English  
 ENG 393--History of the English Language  
 ENG 394--Language and Society  
 ENG 501--General Semantics  
 ENG 505--Linguistics: Grammar

**\*English majors seeking teacher certification must choose ENG 315 or 505, and must take an additional 3 sem. hrs. from the courses listed above in place of one of the elective below.**

Writing (elect course from 300-500 level) ..... 3  
 ENG 435--Shakespeare ..... 3  
**\*\*English electives (excludes 100 level courses) ..... 12**  
 33

**\*\*Of these 12 hours, a minimum of 9 hours of 300- 500 level courses must be taken, including 6 hours from the following courses (English majors seeking teacher certification must take ENG 500--Studies in English for Teachers, and may take it in place of one of the courses on the list):**

- ENG 344--The Short Story and the Novel
- ENG 436--The English Renaissance
- ENG 441--Restoration and Eighteenth Century British Literature
- ENG 442--Romantic Writers
- ENG 443--Victorian Writers
- ENG 444--Twentieth Century British Literature

- ENG 466--American Poetry
- ENG 499--Seminar: Major Writers
- ENG 528--Literary Criticism
- ENG 533--The English Novel
- ENG 534--Chaucer
- ENG 539--Milton
- ENG 545--Seventeenth Century British Literature
- ENG 552--Early Dramatic Literature
- ENG 553--Modern Drama
- ENG 561--Studies in American Literary Periods
- ENG 563--American Fiction

In addition to the 33 hours requirement listed above, the English major seeking teacher certification must take EDUC 576--Reading in the Secondary School and complete the Department of Education's requirements for the Teacher Education Program and Professional Laboratory Experience.

In addition to the 33 hour requirement listed above, all English majors must complete at least 6 sem. hrs. of one foreign language. The major does not include the general education requirement in composition (6 sem. hrs.)

**Minor in English**

American literature surveys (elect one) ..... 3  
 ENG 341--American Literature to 1850  
 ENG 342--American Literature since 1850

British Literature Surveys ..... 6  
 ENG 331--British Literature to 1750  
 ENG 332--British Literature since 1750

English language\* (elect one) ..... 3  
 ENG 305--Introduction to Linguistics  
 ENG 315--Structure of English  
 ENG 393--History of the English Language  
 ENG 394--Language and Society  
 ENG 501--General Semantics  
 ENG 505--Linguistics: Grammar  
**\*Teaching minors must choose ENG 315 or ENG 505**

Writing (Elect one from 300-500 level courses) ..... 3  
 English electives (200-500 level courses),  
 6 sem hrs. of which must be 300-500 level courses ..... 9  
**\*Teaching minors must include ENG 435--Shakespeare and ENG 500--Studies in English for Teachers.**

In addition to the 24 sem. hr. requirement listed above, teaching minors must take EDUC 576--Reading in the Secondary School. The minor in English does not include the general education requirement in composition (6 sem. hrs.) or literature (3 sem. hrs.).

**Minor in Linguistics**

This minor may be appealing to those majoring in professional fields such as law, business, or any area in which communication skills and use of the computer may be emphasized without calling for the expertise of an individual trained in depth in technical writing or literature.



Language courses	12
ENG 305--Introduction to Linguistics	
ENG 315--Structure of English	
ENG 505--Linguistics: Grammar	
One of the following:	
ENG 393--History of the English Language	
ENG 394--Language and Society	
ENG 501--General Semantics	
Writing courses (elect two)	6
ENG 391--Advanced Expository Writing	
ENG 395--Poetry Writing	
ENG 396--Fiction Writing	
ENG 591--Technical Writing I	
ENG 592--Technical Writing II	
ENG 583--Advanced Poetry Writing	
ENG 584--Advanced Fiction Writing	
ENG 597--Technical Editing	
Data processing courses (elect one)	3
CIS 201--Introduction to Computers	
CIS 202--Computer Programming (BASIC)	
CIS 301--Microcomputers	

Literature elective	3
	24

The minor in linguistics does not include the general education requirement in composition (6 sem. hrs.) or literature (3 sem. hrs.).

### Minor in Creative Writing

The minor in creative writing is designed for students who wish to develop their skills in writing fiction and poetry.

Language courses	6
ENG 315--Structure of English	
One of the following:	
ENG 305--Introduction to Linguistics	
ENG 393--History of the English Language	
ENG 394--Language and Society	
ENG 501--General Semantics	
ENG 505--Linguistics: Grammar	
Any course in French, German, Latin, Russian, or Spanish	
Writing courses (elect from the following)	10
ENG 391--Advanced Expository Writing	
ENG 395--Poetry Writing	
ENG 396--Fiction Writing	
ENG 583--Advanced Poetry Writing	
ENG 584--Advanced Fiction Writing	
ENG 596--Seminar in Creative Writing (1 sem. Hr.)	
JOUR 364--Feature Writing	
THEA 512--Playwriting	
Literature electives (300-500 level courses)	6
	22

The minor in creative writing does not include the general education requirements in composition (6 sem. hrs.) or literature (3 sem. hrs.).

### Minor in Technical Communication

The minor in technical communications is designed for students preparing for any career in which effective writing is important and for students preparing to become

professional technical, scientific, or business writers and editors.

Language	6
ENG 315--Structure of English	
One of the following courses:	
ENG 305--Introduction to Linguistics	
ENG 393--History of the English Language	
ENG 394--Language and Society	
ENG 501--General Semantics	
ENG 505--Linguistics: Grammar	
Writing	9
ENG or JOUR 591--Technical Writing I	
ENG or JOUR 592--Technical Writing II	
ENG 597--Technical Editing	
Other courses (elect from the following)	6
CIS 201--Introduction to Computers	
One of the following graphics skill courses:	
GCT 102--Graphic Arts I	
GCT 103--Technical Drawing I	
GCT 202--Graphic Arts II	
GCT 203--Technical Drawing II	
GCT 322--Photography	
JOUR 285--Introduction to Photojournalism	
ART 101--Two-Dimensional Foundation	
ART 103--Color Foundation	

The minor in technical communication does not include the general education requirements in composition (6 sem. hrs.) or literature (3 sem. hrs.).

### Minor in Literature

American or British Literature	3
(elect one of the following:)	
ENG 331--British Literature to 1750	
ENG 332--British Literature since 1750	
ENG 341--American Literature to 1850	
ENG 342--American Literature since 1850	
ENG 435--Shakespeare	3
Literature and literary criticism	9
(electives to be selected from 300-500 level courses)	
Philosophy	3
(elect one of the following:)	
PHIL 200--Introduction to Philosophy	
PHIL 308--Philosophy of the Arts	
PHIL 309--Existentialism	
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
(elect one of the following courses:)	
HIS 220--Early American History	
HIS 120--Recent American History	
HIS 324--The South	
HIS 334--The Renaissance and Reformation	
HIS 351--England to 1660	
HIS 352--England since 1660	
HIS 350--Religion in American History	

The minor in literature does not include the general education requirements in composition (6 sem. hrs.) or literature (3 sem. hrs.).

## French

**Faculty**--E. Hastings, M. Netherton, J. Secor

### Competencies Required in the Program

*Students completing the French Major will be expected to achieve the following competencies:*

1. *Proficiency in the Four Language Skills: Listening, Speaking, Reading, 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 Teacher Education Program.*

### Assessment Procedures:

*Two placement tests--one aural and one written--have been selected to evaluate all French majors at the intermediate and advanced levels.*

The French curriculum at Morehead State University teaches the language and literature of France, whereby students will perceive areas of thought and action different from their own. More specifically, it surveys French civilization through its literature as a complex development of France's history, geography, fine arts, and political and social institutions. It helps students attain a comfortable proficiency in speaking, reading, and writing French. Finally, it trains prospective teachers in techniques of foreign language teaching.

*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

30

\*Teaching majors must choose FRN 405--Linguistics and Language Teaching in addition to the 30 sem. hrs. of work specified above (33 sem. hrs. total).

### 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
	21

\*Teaching minors must include FRN 405--Linguistics and Language Teaching.

Students with high school credit in French may be placed in a course more advanced than 101 to begin their studies.

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

## German

**Faculty**--Staff

There are no academic programs in German, but courses are available. Please refer to the course description section for course offerings.

## Italian

**Faculty**--J. Secor

There are no academic programs in Italian, but courses are available. Please refer to the course description section for course offerings.

## Latin

**Faculty**--M. Netherton

There are no academic programs in Latin, but courses are available. Please refer to the course description section for course offerings.

## Russian

**Faculty**--L. Vishomirskye

There are no academic programs in Russian, but courses are available. Please refer to the course description section for course offerings.

## Spanish

**Faculty**--V. Cano, E. Hastings, J. Secor

### *Competencies Required in the Program*

1. Ability to understand Spanish spoken at a moderate rate.
2. Ability to speak Spanish well enough to carry on a conversation.
3. Ability to read Spanish without excessive use of a dictionary.
4. Ability to write simple Spanish correctly.
5. Familiarity with some of the most significant works of literature of the Hispanic world, as well as with other aspects of its culture and civilization.

*Additional Competencies for Teacher-Education Students: Students seeking certification in Spanish are expected to possess those competencies determined by the Teacher Education Program.*

### **Assessment Procedures:**

*Exit examinations  
Student portfolios*

The Spanish curriculum at Morehead State University 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, fine arts, and political and social institutions. For students interested in international business, the curriculum offers also the opportunity to acquire a proficiency in Spanish for business and commerce.

Students may receive full credit at Morehead State University for courses taken with the summer study abroad program in Spain through the Kentucky Institute of European Studies (KIIS).

The program in Spanish prepares students to enter into the areas of teaching, interpreting, and translating. 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

### Major

Basic Language . . . . .	12
SPA 101--Beginning Spanish I	
SPA 102--Beginning Spanish II	
SPA 201--Intermediate Spanish I	
SPA 202--Intermediate Spanish II	
Advanced Language . . . . .	3
SPA 300-Grammar and Composition	
Spanish Literature (elect one 300 and one 400 course) . . . . .	6
SPA 301--Survey of Peninsular Spanish Literature from 1700	
SPA 401--Masterpieces of Spanish Literature	
SPA 302--Survey of Spanish American Literature from Colonial Times to 1880	
SPA 402--Masterpieces of Spanish American Literature	
Approved 300- to 500-level electives* . . . . .	9
	30

\*Teaching majors must choose SPA 405: Linguistics and Language Teaching in addition to the 30 sem. hrs. of work specified above (33 sem. hrs. total). SPA 320: Hispanic Culture and Civilization is recommended for those students who will take the National Teachers Examination in Spanish.

### Minor

Basic Language . . . . .	12
SPA 101--Beginning Spanish I	
SPA 102--Beginning Spanish II	
SPA 201--Intermediate Spanish I	
SPA 202--Intermediate Spanish II	
Advanced Language . . . . .	3
SPA 300-Grammar and Composition	
Approved 300- to 500-level electives* . . . . .	6
	21

\*Teaching minors must include SPA 405: Linguistics and Language Teaching.

Students with high school credit in Spanish may be placed in a course more advanced than 101 to begin their studies.

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

## Philosophy

**Faculty**--G. Luckey, F. Mangrum, W. O'Brien, J. Weir

### *Competencies Required in the Program*

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--Logic	3
PHIL 405--History of Philosophy I	3
PHIL 406--History of Philosophy II	3
Additional credit in philosophy approved by the department	18
Minimum for a major	30

### Minor

PHIL 200--Introduction to Philosophy	3
PHIL 306--Logic	3
PHIL 405--History of Philosophy I	3
PHIL 406--History of Philosophy II	3
Additional credit in philosophy approved by the department	9
Minimum for a minor	21

## Religious Studies

**Faculty**--G. Luckey, F. Mangrum, J. Weir

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



## Department of Geography, Government and History

Dr. Ronald Mitchelson, Chair  
(606) 783-2655  
350 Rader Hall

### Geography

Faculty--R. Burns, R. Gould, Y. Luo, R. Mitchelson

#### Competencies Required in the Program

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

The Department of Geography, Government and History offers a well-balanced undergraduate program in geography which includes a 30-semester hour major and a 21-semester 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 a student's understanding of the diversity of human cultures on the planet.

In addition to the requirements for a major or minor in geography, those students who seek teacher certification must include GEO 375, The Teaching of Social Studies, in the preparation.

## Bachelor of Arts

### Major

	Sem. Hrs.
GEO 100--Fundamentals of Geography	3
GEO 101--Physical Geography	3
GEO 211--Economic Geography	3
GEO 241--United States and Canada	3
*GEO--electives in systematic geography	9
**GEO--electives in regional geography	9
Minimum for a major	30

### Minor

GEO 100--Fundamentals of Geography	3
GEO 101--Physical Geography	3
GEO 211--Economic Geography	3
GEO 241--United States and Canada	3
*GEO--electives in systematic geography	3
**GEO--electives	6
Minimum for a major	21

\*Electives in systematic and regional geography must be selected with the approval of the student's faculty advisor.

Those students who desire teacher certificate must complete the required courses in professional education and the professional semester. College algebra and trigonometry or statistics are suggested electives for students who plan to pursue a graduate degree in geography.

## Government

Faculty--L. Back, J. Dahlberg, W. Green, R. Northrup, K. Schafer, M. Yale

#### Competencies Required in the Program

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**  
Exit examination

## 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 and government service.

In addition to the requirements for a major or minor in Government, those students who seek teacher certification must include GOVT 375--Teaching of Social Studies in their preparation.

Government majors and minors interested in the scientific study of politics may take SOC 450--Research Methods and SOC 451--Social Science Data Analysis to satisfy the 6 semester hours of Government elective credit.

## Major

### Required Introductory Courses

GOVT 141--United States Government	3
GOVT 242--State and Local Government	3

### Required Advanced Courses

Choose one course in each of the five subfields.

1. <b>Political Thought</b>	3
GOVT 312--Western Political Thought	
GOVT 314--American Political Thought	
GOVT 316--Contemporary Political Ideologies	
2. <b>Public Law</b>	3
GOVT 321--Constitutional Law: Governmental Powers	
GOVT 322--Courts and Civil Liberties	
3. <b>American Politics and Public Policy</b>	3
GOVT 340--Congress and the Federal Bureaucracy	
GOVT 342--The American Presidency	
GOVT 343--Political Parties and Elections	
GOVT 347--Domestic and Foreign Policy	
4. <b>Comparative Politics</b>	3
GOVT 330--Parliamentary Democracies	
GOVT 334--Soviet Union and Eastern Europe	
5. <b>International Politics</b>	3
GOVT 360--United Nations and World Organization	
GOVT 362--Current World Problems	
GOVT 364--International Relations	

Government Electives	12
	33

## Minor

### Required Introductory Courses

GOVT 141--United States Government	3
GOVT 242--State and Local Government	3

### Required Advanced Courses

Choose one course in four of the five subfields.

1. <b>Political Thought</b>	3
GOVT 312--Western Political Thought	
GOVT 314--American Political Thought	
GOVT 316--Contemporary Political Ideologies	
2. <b>Public Law</b>	3
GOVT 321--Constitutional Law: Governmental Powers	
GOVT 322--Courts and Civil Liberties	
3. <b>American Politics and Public Policy</b>	3
GOVT 343--Political Parties and Elections	
GOVT 346--Congress, the Presidency, and Bureaucracy	
GOVT 347--Domestic and Foreign Policy	
4. <b>Comparative Politics</b>	3
GOVT 330--Parliamentary Democracies	
GOVT 334--Soviet Union and Eastern Europe	
5. <b>International Politics</b>	3
GOVT 360--United Nations and World Organization	
GOVT 362--Current World Problems	
GOVT 364--International Relations	

Government Electives	6
	24

## History

**Faculty**--D. Flatt, C. Holt, B. Jackson, J. Kleber, P. LeRoy, S. Sprague

### Competencies Required in the Program

*Students are expected to possess:*

1. *The ability to recognize the continuity and change that mark human history as manifest in various parts of the world. This also necessitates recognition of the interconnectedness of world history and the impact of past events on current issues.*
2. *The ability to explore contemporary media of information storage and retrieval in order to access data useful to the study of a particular historical event. The ability to access primary and secondary historical documents if fundamental.*
3. *The ability to interpret historical events from a variety of perspectives that require the use of cause-*

*and-effect logic in real world settings that necessarily involve multiple causation.*

4. *The ability to recognize and value the varied nature of the human condition across individuals and culture groups through the practice of historical analysis.*
5. *The ability to express methods of historical investigation and the findings of those investigations in written and oral format.*

#### Assessment Procedures

*Exit examination*  
*Senior seminar*  
*Portfolios*

## 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.

In addition to requirements for a major or minor in history, those students who seek teacher certification must include HIS 450, Teaching Social Studies, in their programs of study.

### Major

HIS 110--Recent World History . . . . .	3
HIS 120--Recent American History . . . . .	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 Nonwestern History . . . . .	3
HIS 399--Special Topics in History . . . . .	3
HIS 471--Senior Seminar in History . . . . .	3
Advanced Electives in History . . . . .	6
	Minimum for Major 33

### Minor

HIS 110--Recent World History . . . . .	3
HIS 120--Recent American History . . . . .	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 Nonwestern History . . . . .	3
Advanced Elective in History . . . . .	3
	Minimum for Minor 24

#### Supplemental Requirements of each Major and Minor in History:

- a. Three hours of any foreign language must be included in the communications component of the general education requirement.
- b. HIS 450, Teaching Social Studies, must be included in the program if seeking teacher certification.

- c. Each major or minor is required to complete a satisfactory student portfolio. These are discussed and initiated when the student enrolls in HIS 250.
- d. 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:

- a. HIS 322--Appalachia or HIS 323--Kentucky
- b. HIS 311--Native American 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**--J. Dahlberg (coordinator), W. Green, K. Schafer

### Competencies Required in the Program

*Students are expected to possess:*

1. *Knowledge of local, state, and national governments with particular emphasis on the American court system and its procedures. Understanding of the role of attorneys and paralegals in the delivery of legal services.*
2. *The ability to apply the basic principles of law within specialized areas.*
3. *The ability to function within the context of modern law office while making use of new information technologies applied to the creation and use of common legal forms and documents.*
4. *The ability to recognize and value the varied nature of the human condition across individuals and culture groups through paralegal practice.*
5. *The ability to express methods of legal research, to conduct original studies, and to present findings of those investigations in written and oral format.*

#### Assessment Procedures

*Senior seminar*  
*Internship evaluation*

## Bachelor of Arts

The paralegal profession is a fast-growing field in which paralegals (also called legal assistants) perform a variety of essential legal tasks under the supervision of lawyers. Some of the many tasks a paralegal might encounter are client interviewing, drafting of legal documents, researching points of law, litigation support, law office management, and representing clients before administrative agencies as allowed by law.

The 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 practical skills development necessary to provide legal assistance to attorneys in law offices, corporations, and government agencies. Although paralegals occasionally become lawyers, the Paralegal Studies Major is designed specifically for the training of paralegals and is not an appropriate major for students wishing to become lawyers. (See Pre-Law in this section.)

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.

## Major

### Program Requirements:

#### General Education Prerequisite

GOVT 141--United States Government . . . . . 3

#### Supplemental Requirement:

OADM 110--Keyboarding . . . . . 1

#### Required Courses: (in suggested sequence)

PLS 210--Introduction to Paralegalism . . . . .	3
GOVT 327--Legal Research and Writing . . . . .	3
PLS 334--Contract and Tort Law . . . . .	3
PLS 332--Property Law . . . . .	3
PLS 335--Corporations and Comm'l Law . . . . .	3
GOVT 322--Courts and Civil Liberties . . . . .	3
PLS 340--Criminal Law and Procedure . . . . .	3
PLS 430--Civil Procedure . . . . .	3
PLS 480--Senior Paralegal Practice Seminar . . . . .	3
PLS 490--Paralegal Internship . . . . .	6
	33

#### Elective Courses:

Students must take six hours from the following approved electives:

GOVT 321--Constitutional Law . . . . .	3
GOVT 324--Environmental Law and Policy . . . . .	3
PLS 333--Family Law . . . . .	3
PLS 336--Wills, Trusts and Estates . . . . .	3
PLS 360--Legal Specialty Course . . . . .	3
PLS 476--Special Problems . . . . .	3
	39

## Pre-Law

**Faculty**--L. Back, J. Dahlberg, W. Green, R. Northrup, K. Schafer, M. Yale

Law schools do not require applicants to have completed a standard pre-law curriculum. Students who choose to prepare for law school by majoring or minoring

in Government are advised to take a wide spectrum of coursework which should include courses in Philosophy and in English composition and literature. The pre-law faculty provide advising for students who plan to attend law school and who have not chosen a major.

## Social Science

**Faculty**--L. Back, R. Burns, J. Dahlberg, D. Flatt, R. Gould, W. Green, C. Holt, B. Jackson, J. Kleber, P. LeRoy, Y. Luo, R. Mitchelson, R. Northrup, K. Schafer, S. Sprague, M. Yale

### Competencies Required in the Program

*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, to conduct original studies, and to present findings of those investigations in written and oral format.*

### Assessment Procedures

*National Teachers Examination*

*Performance during professional semester*

## Bachelor of Arts

The Area of Concentration in Social Science prepares students for teacher certification at the secondary level in at least four social studies teaching fields. It is a very effective option for gaining flexibility in teaching careers. This option aligns with trends in teacher certification that foster streamlining of certification requirements and procedures. A minimum of 9 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. Students who seek teacher certification must include HIS 450, Teaching Social Studies, in their program as a



supplemental requirement beyond the 60 hours of content courses.

## Area of Concentration in Social Science

### A. History Component (equivalent to history minor)

HIS 110--Recent World History	3
HIS 120--Recent American History	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 Nonwestern History	3
Advanced Elective in History	3
	24

### B. Economics, Geography, Government, Sociology

The student must complete 3 out of the 4 clusters listed

below:

Economics	9
ECON 201--Principles of Economics I	
ECON 202--Principles of Economics II	
ECON 350--Microeconomic Theory	
Geography	9
GEO 100--Fundamentals of Geography	
GEO 211--Economic Geography	
GEO 300--World Geography	

Government	9
GOVT 141--United States Government	
GOVT 242--State and Local Government	
GOVT 330--Parliamentary Democracies	
Sociology	9
SOC 101--General Sociology	
SOC 305--Cultural Anthropology	
SOC 405 --Sociological Theory	
	27

### C. Distributional Course

The student must take 3 hours in the cluster **not chosen** in part B.

Course from remaining cluster	3
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### D. Advanced Electives

The student may take any electives in Economics, Geography, Government, History, or Sociology at the 300 level or higher. These should be approved by the advisor.

Two advanced electives	6
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## Department of Music

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

### Music

**Faculty**--M. Acord, D. Anderson, A. Beane, J. Beane, H. L. Blair, S. Blair, L. Blocher, J. Bragg, J. Burgess, R. J. Flippin, C. Gallaher, L. Keenan, E. Louder, R. Miles, E. Norden, F. Oddis, R. Pritchard, R. Ross, J. Schuler, P. Taylor, J. Viton

#### *Competencies Required in the Bachelor of Music Education Program*

##### 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; and enroll in an ensemble appropriate to their major instrument each semester except the professional semester; study each of the instrument groups (strings, woodwinds, brass, percussion, voice) and 4 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 experience the joy of expressing themselves through music.*

##### Assessment Procedures

*Survey of graduates  
Performance recitals  
Exit interview*

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. A change in the designated principal area may be made with the approval of the department chair.

With departmental permission, private instruction may be taken by students not following a music curriculum, in which case the course standards may be different 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 supports 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 is a wind or percussion instrument. All instrumental majors are required to take at least two semesters of vocal 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 twelve-grade music certificate in either vocal or instrumental music.

An option for vocal and instrumental certification is also available.\*\*

	Sem. Hrs.
1. APPLIED MUSIC	31-33
Principal applied area	14
Ensembles, at least two vocal	7-9
*Class Piano	4
Class voice and instruments	6
2. *MUSIC THEORY	16
Music Theory I-IV	10
Music Reading I-III	6
3. MUSIC HISTORY AND LITERATURE	10
Literature of Music I-II	4
History of Music I-II	6
4. CONDUCTING	4
Basic Conducting	2
Choral Conducting; or	
Instrumental Conducting	2
5. MUSIC EDUCATION	6
Introduction to Music Education	1
Elementary Materials and Methods	3
Vocal or Instrumental Materials and Methods	2
Field Experience	1
	68-70

\*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
	12
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
	12

## Bachelor of Music

### Competencies Required in the Bachelor of Music Program

#### Performance

*Students must declare a principal area of performance. A Jury examination is required at the end of each semester, and 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 their major instrument each semester; must develop keyboard skills and skills in a secondary instrument as deemed appropriate to their principal instrument.*

Music Theory/Analysis

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

Conducting

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

**Assessment Procedures**

- Survey of graduates
- Performance recitals
- Exit interview

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.

1. MUSIC THEORY	18
Music Theory I-IV	10
Music Reading I-III	6
Form Analysis	2
2. MUSIC HISTORY AND LITERATURE	10
Literature of Music I-II	4
History of Music I-II	6
3. ENSEMBLES	8
4. CONDUCTING	4
Basic Conducting	2
Instrumental or Choral Conducting	2

*Note: Jazz and studio music students should take basic conducting.*

To complete their conducting requirement, they will take *Rehearsal Techniques for Jazz Ensembles (MUSC 473)*.

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

1. VOICE	
Private Voice	16
Class Voice	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
	40
2. 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
	40

3. 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
	40
4. STRINGS	
Private Strings	19
Class Piano and/or Private Keyboard	7
Junior Recital	2
Senior Recital	3
Electives	8
Class Voice	1
	40
5. 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
	40
6. 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
	40
7. JAZZ AND STUDIO MUSIC	
Private Applied Music	12
Junior Recital	2
Senior Recital	3
Jazz Keyboard	2
Class Piano and/or Jazz Keyboard	4
Jazz History and Literature	3
Arranging for Jazz Ensembles I and II	4
Studio Improvisation	7
Music electives	3
	40

## Bachelor of Arts

### Competencies Required in the Bachelor of Arts Degree (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 a 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 upon 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
	48

## Minor

Applied Music	14
Private Lessons	8
Ensembles	4
Class or Private Piano	2
Music Theory	9
Music Theory I-IV	6
Music Reading I-III	3
Music Literature I and II	4
	27

## Music Teacher's National Association Certificate Program (MTNA)

In order to provide specialized musical instruction to individuals pursuing a career as full or part-time studio teachers, Morehead State University offers course work leading to this professional certification at two levels: (1) Associate and (2) Professional. By offering courses in this curriculum, Morehead State University 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."

## 1. Associate Certificate

MUST 131--Music Theory I	3
MUST 132--Music Theory II	3
MUST 133--Music Reading I; or MUST 135--Music Reading II	3
MUSH 161--Literature of Music I	2
MUSH 162--Literature of Music II	2
MUSE 378--Piano Pedagogy	2
MUSW 476--Special Problems in Music	2
Private Study	12
	TOTAL 29

## Professional Certificate

MUST 131--Music Theory I	3
MUST 132--Music Theory II	3
MUST 236--Music Theory III	2
MUST 237--Music Theory IV	2
MUST 133--Music Reading I	1
MUST 135--Music Reading II	2
MUST 233--Music Reading III	3
MUSH 161--Literature of Music I	2
MUSH 162--Literature of Music II	2
MUSH 361--History of Music I	3
MUSH 362--History of Music II	3
MUSE 378--Piano Pedagogy	2
MUSW 476--Special Problems in Music	2
Private Study	24
	TOTAL 54

After completing the above course work, 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 Morehead State University.

## College of Science and Technology

**Gerald DeMoss (Interim Dean)**  
**(606)783-2158**  
**246 Reed Hall**

Department of Agricultural Sciences  
Department of Biological and Environmental Sciences  
Department of Human Sciences  
Department of Industrial Education and Technology  
Department of Mathematical Sciences  
Department of Nursing and Allied Health Sciences  
Department of Physical Sciences



# Department of Agricultural Sciences

Dr. R. Lane Cowsert, Chair  
(606) 783-2662  
330 Reed Hall

## Agricultural Education

Faculty--J. Bendixen

### Competencies Required in the Program

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 awareness of the basic concepts of the physical and biological sciences and how these sciences are applicable to the field of agriculture.*
3. *An awareness of the importance of the arts, humanities, social and behavioral sciences, and health sciences to mankind.*
4. *A basic 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. *An understanding of agricultural education.*
6. *The ability to use effective planning in course organization in agricultural education.*
7. *The ability to plan daily instructional programs in agricultural education.*
8. *An understanding of occupational experience programs and their role in agricultural education.*
9. *An understanding of FFA and its role in agricultural education.*
10. *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 . . . . .	Sem. Hrs. 45
(See general education requirements)	

The student must complete a minimum of 50 semester hours credit in technical agriculture which includes at least 6 approved semester hours in each of the fields listed below. This area of concentration is designed and approved for students who wish to teach agriculture education in the public schools in Kentucky.

### Core Requirements

Required courses in technical agriculture . . . . .	50
AGR Agricultural Economics . . . . .	6
AGR Agricultural Mechanics . . . . .	6
AGR Animal Science . . . . .	6
AGR Horticultural and Plant Science . . . . .	6
AGR Soil Science . . . . .	6
AGR--approved agriculture electives . . . . .	20
Required courses in professional agriculture education . . . . .	27
EDF 207--Foundations of Education . . . . .	3
EDF 211--Human Growth and Development . . . . .	3
EDSP 332--Teaching the Exceptional Student . . . . .	2
AGR 580--Methods of Teaching Vocational Agriculture . . . . .	4
AGR 582--Adult and Young Farmer Education . . . . .	3
AGR 584--Teaching Vocational Agriculture . . . . .	8
AGR 585--Teaching Agricultural Mechanics . . . . .	3
AGR 586--Planning Program in Vocational Agriculture . . . . .	3
Approved electives . . . . .	4
<b>Total 128</b>	

### Teacher Certification

Students seeking teacher certification must apply for an be admitted to the teacher education program. Students must have an overall standing of 2.50 in the 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

Faculty--D. Applegate, J. Bendixen, L. Cowsert (Chair), D. Johnson, T. McMillan, B. Rogers, S. Rundell, J. Willard, R. Wolfe

### Competencies Required in the Program

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 awareness of the basic concepts of the physical and biological sciences and how these sciences are applicable to the field of agriculture.*
3. *An awareness of the importance of the arts, humanities, social and behavioral sciences, and health sciences to mankind.*
4. *A basic 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

- A. An understanding of the principles of accounting and how they are used in agribusiness.

#### Agricultural Economics Option

- A. An understanding of the principles of economics and how they are used in agricultural economics.

#### Agronomy Option

- A. 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

- A. The ability to demonstrate techniques used in the evaluation and feeding of farm livestock.

#### Golf Course Management Option

- A. An understanding of the selection, establishment, and maintenance of plants used on the golf course.
- B. An understanding of the business, horticultural, and recreational aspects of golf course management.

#### Horticulture Option

- A. 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 . . . . . 45  
(See general education requirements)

The following specific general education requirements must be completed:

BIOL 150--Introductory Plant Science . . . . .	3
CHEM 101--Survey of General Chemistry . . . . .	4
CHEM 201--Survey of Organic Chemistry . . . . .	4
MATH 131--General Mathematics; or	
MATH 135--Mathematics for Technical Students . . . . .	3
SPCH 110--Basic Speech . . . . .	3

### Area of Concentration

The student must complete a minimum of 56 semester hours in the area of concentration in agricultural science. Of which 32 semester hours are the following 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 203--Agricultural Economics . . . . .	3
AGR 211--Soils . . . . .	3
AGR 215--Horticultural Science . . . . .	3
AGR 251--Introduction to Agricultural Mechanics . . . . .	3
AGR 260--Technical Analysis . . . . .	2
AGR 300--Pest Management . . . . .	3
AGR 301--Farm Management . . . . .	3
AGR 402--Advanced Agricultural Experience . . . . .	2
(or approved co-operative education)	
AGR 471--Seminar . . . . .	1

Twenty-four semester hours must be taken in one of the options on the following pages.

### 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
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Twenty-one hours from the following groups, with courses from at least 3 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 560--Financial Markets . . . . .	3

#### Group B

OADM 136--Business Calculations . . . . .	3
OADM 363--Administrative Office Systems . . . . .	3
MNGT 301--Principles of Management . . . . .	3
MNGT 311--Personnel Management . . . . .	3

#### Group C

AGR 305--Marketing Farm Products . . . . .	3
MKT 304--Marketing . . . . .	3
MKT 350--Salesmanship . . . . .	3
MKT 354--Consumer Behavior . . . . .	3
MKT 453--Market Planning and Strategies . . . . .	3

#### Group D

MNGT 261--The Legal Environment and Business Organizations . . . . .	3
MNGT 362--The Legal Environment and Business Practices . . . . .	3



**Group E**

AGR 303--Land Economics	3
ACCT 282--Principles of Accounting II	3
FIN 407--Principles of Insurance	3
ACCT 387--Income Tax	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 Economics II	3
ECON 350--Microeconomics Theory	3
ECON 551--Macroeconomics Theory	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--Introductory Agricultural Policy	3
ECON 510--History and Economic Thought	3
FIN 342--Money and Banking	3
FIN 343--Investments	3
ECON 547--International Economics	3
MATH 354--Business Statistics	3

**Agronomy Option**

Students must complete the required core course in the area of concentration in agricultural science and 24 semester hours of requirements and electives, with advisor's approval. Requirements and electives are listed below:

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 513--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. Requirements and electives are listed below:

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 list below. The minimum number of semester hours for each of the following six fields must be completed:

(1)--Agriculture economics	3
AGR 205--Farm Records	3
AGR 302--Agriculture Finance	3
AGR 303--Land Economics	3
AGR 305--Marketing of Farm Products	3
AGR 386--Introductory Agriculture Policy	3
(2)--Agricultural mechanics	3
AGR 350--Farm Power and Machinery Management	3
(3)--Animal science	6
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
(4)--Plant science	6
AGR 212--Landscape Plants	3
AGR 213--Landscape Design	3
AGR 224--Greenhouse Operations	3

AGR 308--Weed Science	3
AGR 314--Plant Propagation	3
AGR 315--Fruit Production	3
AGR 317--Floral Design	3
AGR 318--Landscape Maintenance	3
AGR 319--Herbs	3
AGR 320--Principles of Vegetable Production	3
AGR 323--Interior Landscaping	3
AGR 324--Greenhouse Structures	3
AGR 325--Turf Management	3
AGR 326--Nursery Management	3
AGR 327--Advanced Landscape Design	3
AGR 328--Floral Crop Production	3
AGR 384--Forage Crops	3
(5)--Soil science	3
AGR 311--Soil Conservation	3
AGR 312--Soil Fertility and Fertilizers	3
(6)--Approved Agricultural Electives	3

**Golf Course Management Option**

Students who select this option must complete the required core courses in the area of concentration in agricultural science and 24 semester hours of requirements, with advisor’s approval, as follows:

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

**Horticulture Option**

Students must complete the required core courses in the area of concentration in agricultural and 24 semester hours of requirements and electives. Requirements and electives are listed below:

Required Course	3
AGR 314--Plant Propagation	3

Twenty-one semester hours must be selected from the following courses, with approval of advisor.

AGR 212--Landscape Plants	3
AGR 213--Landscape Design	3
AGR 224--Greenhouse Operations	3
AGR 308--Weed Science	3
AGR 315--Fruit Production	3
AGR 317--Floral Design	3
AGR 318--Landscape Maintenance	3
AGR 319--Herbs	3
AGR 320--Principles of Vegetable Production	3
AGR 323--Interior Landscaping	3
AGR 324--Greenhouse Structures	3
AGR 325--Turf Management	3
AGR 326--Nursery Management	3
AGR 327--Advanced Landscape Design	3

AGR 328--Floral Crop Production	3
HS 103--Interior Graphics	3
BIOL 318--Local Flora	3

**Major**

The student must complete a minimum of core course requirements listed under the area of concentration in agricultural science, five 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**

The student must complete a minimum of 17 semester hours of the following agriculture courses and 4 semester hours of required additional courses in the following list, plus a major selected in another field. General course electives may also be taken in agriculture and related areas by students wishing greater depth in agriculture.

Required courses in agriculture	17
AGR 101--Orientation to Agriculture	1
AGR 133--Introduction to Animal Science	3
AGR 180--Introduction to Field Crops	3
AGR 203--Agricultural Economics	3
AGR 211--Soils	3
AGR 215--Horticultural Science	3
AGR 471--Seminar	1

**Agricultural Technology**

Faculty--D. Applegate, J. Bendixen, L. Cowsert (chair), D. Johnson, T. McMillan, B. Rogers, S. Rundell, J. Willard, R. Wolfe

**Competencies Required in the Program**

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 awareness of the basic concepts of the physical and biological sciences and how these sciences are applicable to the field of agriculture.*
3. *A basic understanding and literacy of all disciplines of agriculture especially to include the disciplines of animal science, agronomy, soils, horticulture, agricultural mechanics, and pest management.*

Additional Competencies for Specific OptionsAgribusiness Option

- A. A basic understanding of the principles of economics and management and how they are used in agribusiness.

Equine Technology Option

- A. An understanding of the current principles of equine production.

Ornamental Horticulture Option

- A. An understanding of the basic principles involved in the production of ornamental crops.  
 B. 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 ..... 15  
 (See general education requirements)

The following specific general education requirements must be completed:

BIOL 150--Introductory Plant Science	3
ENG 101--Composition I	3
ENG 192--Technical Composition	3
MATH 131--General Mathematics; or	
MATH 135--Mathematics for Technical Students	3
SPCH 110--Basic Speech	3

The student must complete a minimum of 40 semester hours in the area of agricultural technology, of which 32 semester hours are the following core agriculture course requirements and 18 semester hours are approved electives selected from within one of the following four options:

**Core Requirements****Required courses**

AGR 101--Orientation to Agriculture	1
AGR 102--Agricultural Experience	2
AGR 133--Introduction to Animal Science	3
AGR 180--Introduction to Field Crops	3
AGR 205--Farm Records	3
AGR 211--Soils	3
AGR 215--Horticultural Science	3
AGR 235--Supervised Work Experience	2
AGR 251--Introduction to Agricultural Mechanics	3
AGR 260--Technical Analysis	2
AGR 300--Pest Management	3
CHEM 101--Survey of General Chemistry	4

Eighteen semester hours must be taken in one of the options listed below:

**Agribusiness Option**

The student must complete the core courses in agricultural technology and required and elected courses as follows:

**Required Courses**

AGR 203--Agricultural Economics	3
AGR 301--Farm Management	3
ECON 101--Introduction to American Economy	3

Nine hours must be selected from the following courses, with approval of advisor.

ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
AGR 302--Agricultural Finance	3
AGR 305--Marketing of Farm Products	3
CIS 201--Introduction to Computers	3
CIS 301--Microcomputers	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3
MNGT 261--Legal Environment of Business Organizations	3
MKT 350--Salesmanship	3
OADM 136--Business Calculations	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 (1) 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--Botany	4
BIOL 318--Local Flora	3

**Group B**

AGR 203--Agricultural Economics	3
AGR 301--Farm Management	3
AGR 302--Agricultural Finance	3
AGR 305--Marketing of Farm Products	3
ACCT 281--Principles of Accounting I	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 203--Agricultural Economics	3
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 3 hours as AGR 329 or AGR 332 or AGR 333 may be applied to the option)

## Ornamental Horticulture Option

The student must complete the core courses in agricultural technology and required and elected courses as follows:

Required Course	
AGR 314--Plant Propagation	3

Fifteen semester hours must be selected from the following courses, with approval of advisor.

AGR 212--Landscape Plants	3
AGR 213--Landscape Design	3
AGR 224--Greenhouse Operations	3
AGR 308--Weed Science	3
AGR 315--Fruit Production	3
AGR 317--Floral Design	3
AGR 318--Landscape Maintenance	3
AGR 319--Herbs	3
AGR 320--Principles of Vegetable Production	3
AGR 323--Interior Landscaping	3
AGR 324--Greenhouse Structures	3
AGR 325--Turf Management	3
AGR 326--Nursery Management	3
AGR 327--Advanced Landscape Design	3
AGR 328--Floral Crop Production	3
HS 103--Interior Graphics	3

## Horsemanship

Faculty--T. McMillan, J. Willard

### Minor

The student must complete a minimum of the 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

Students must select 6 hours from the following:

AGR 329--Advanced Stockseat Horsemanship	3
AGR 332--Advanced Saddleseat Horsemanship	3
AGR 333--Advanced Huntseat Horsemanship	3

## Pre-Forestry

Faculty--R. Wolfe, B. Rogers

Students interested in forestry may take their first two years of course work at Morehead State University and then complete their studies at an accredited school 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 Morehead State University. The program may be modified to meet entrance requirements at any institution offering a forestry program.

### Required Course Sequence

<b>First Semester</b>	
ENG 101--Composition I	3
BIOL 150--Introductory Plant Science	3
CHEM 101--Survey of General Chemistry	4
MATH 175--Analytic Geometry and Calculus I	4
PHED--activity course	1
General elective	2

<b>Second Semester</b>	
ENG 192--Technical Composition	3
AGR 180--Introduction to Field Crops	3
CHEM 201--Survey of Organic Chemistry	4
MATH 353--Statistics	3
PHED--activity course	1
General elective	2

<b>Third Semester</b>	
SOC 170--Rural Sociology	3
PHYS 201, 201A--Elementary Physics I and Laboratory	4
BIOL 215--General Botany	4
CON 102--Surveying I	3
AGR 211--Soils	3

<b>Fourth Semester</b>	
HIS 220--Early American History	3
SPCH 110--Basic Speech	3
ECON 201--Principles of Economics I	3
PSY 154--Introduction to Psychology	3
ENG--literature elective	3



## Pre-Veterinary Medicine

Faculty--S. W. 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 the student investigate the requirements for each college to which they may apply.

Admission to veterinary college is very state oriented. States which have a veterinary college give priority to their own residents but may contract with states that do not have a veterinary college to accept a certain number of out-of-state students per 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. The students must work closely with the preveterinary 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:

ENG 101--Composition I	3
ENG 102--Composition II	3
ENG 391--Advanced Expository Writing	3
ENG 211--Introduction to World Literature I	3
ENG 212--Introduction to World Literature II	3
*MATH 152--College Algebra	3
MATH 174--Pre-Calculus Mathematics;	
MATH 175--Analytic Geometry and Calculus I; or	
MATH 160--Mathematics for Business and Economics	3
PHIL 303--Social Ethics; or	
PHIL 306--Logic	3
HIS 210--Early World History	3

HIS 110--Recent World History	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
PHYS 201--Elementary Physics I	4
PHYS 202--Elementary Physics II	4
BIOL 171--Principles of Biology	4
BIOL 210--General Zoology	4
#AGR 515--Animal Nutrition	3
Social Science electives	6
Science electives (300 level)	12-14

\*Not required, but recommended

#AGR 316--Feeds and Feeding is pre-requisite

## Veterinary Technology

Faculty--V. Barnes, B. Lewis, S. Rundell, C. L. Tyner (coordinator)

### Competencies Required in the Program

Students receiving an Associate of Applied Sciences Degree in Veterinary Technology should possess the following:

1. Written, oral and interpersonal communication skills.
2. Applied mathematical skills applicable to the field of veterinary technology.
3. An awareness of the physical and biological concepts applicable to the field of veterinary technology.
4. Basic literacy and skills in the following areas of veterinary technology:
  - A. Animal science and breed identification, restraint, animal nutrition and feeding, comparative anatomy and physiology, nursing care and management, radiologic techniques, parasitology, pharmacology, anesthetic nursing and monitoring, surgical assistance, and necropsy techniques of companion animals, laboratory animals, horses and food production animals.
  - B. Veterinary laboratory skills including hematology, urinalysis, coprology, microbiology, cytology and serologic testing.
  - C. Management and sanitation of animal housing facilities.
  - D. Elementary computer skills.
  - E. Medical terminology.
  - F. Veterinary office and hospital management.
  - G. Ethics and jurisprudence in veterinary medicine.
5. 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**

- Exit examination*
- Survey of employers*
- Advisory board consultation*
- Survey of graduates*

**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.

**Admission Requirements**

All high school graduates and individuals with a GED certificate may apply for admission to the Veterinary Technology Associate Degree Program.

The Veterinary Technology Program has a selective admission policy which is separate from and additional 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:

1. Incoming freshmen or transfer students with less than 12 semester hours must meet two out of three of the following requirements for admission into the program:
  - A. ACT Composite Score of 15 (enhanced-18) or higher;
  - B. High School G.P.A. of 2.5 or higher on a 4.0 scale;
  - C. Three months employment experience with a veterinarian or other animal care employer and letter of recommendation from employer.
2. Transfer students must have a college G.P.A. of 2.5 on a 4.0 scale, and a minimum of 12 semester hours of approved courses.

**Required Course Sequence****First Semester--(Fall)**

VET 100--Orientation to the Veterinary Profession . . . . .	1
MATH 135--Math for Technical Students . . . . .	3
VET 101--Veterinary Science & Skills I . . . . .	2
VET 104--Anatomy & Physiology of Domestic Animals . . . . .	4
AGR 133--Introduction to Animal Science . . . . .	3
NAHS 202--Medical Terminology . . . . .	2
VET 235--Supervised Work Experience . . . . .	1
	16

**Second Semester--(Spring)**

ENG 101--English Composition I . . . . .	3
VET 107--Laboratory Techniques I . . . . .	3
VET 201--Veterinary Science & Skills II . . . . .	2
VET 230--Pharmacology for Veterinary Techniques . . . . .	2
VET 235--Supervised Work Experience . . . . .	1
CHEM 101--Survey of General Chemistry . . . . .	4
	15

**Third Semester--(Fall)**

AGR 260--Technical Analysis . . . . .	2
VET 208--Laboratory Techniques II . . . . .	3
VET 250--Vet. Anesthesiology & Surgical Assisting . . . . .	4
VET 303--Veterinary Science & Skills III . . . . .	3
BIOL 213--Introduction to Veterinary Microbiology . . . . .	4
	16

**Fourth Semester--(Spring)**

VET 310--Clinical Laboratory Techniques . . . . .	3
VET 340--Radiology . . . . .	3
VET 341--Large Animal Clinical Procedures . . . . .	4
VET 342--Small Animal Clinical Procedures . . . . .	4
ENG 102--English Composition II; or ENG 193--Technical Composition . . . . .	3
	17

**Fifth Semester--(Summer I)**

VET 361--Preceptorship I . . . . .	4
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**Fifth Semester--(Summer II)**

VET 362--Preceptorship II . . . . .	4
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Total 72

## Department of Biological and Environmental Sciences

Dr. Gerald DeMoss, Chair  
(606) 783-2844  
102 Lappin Hall

### Biology

**Faculty**--D. Brumagen, F. Busroe, G. DeMoss (chair), G. Gearner, J. Howell, D. Magrane, L. Meade, T. Pass, A. Phelps, M. Pryor, B. Reeder, D. Saxon, H. Setser, C. Tuerk

#### Competencies Required in the Program

Students completing a major in biology in the Department of Biological and Environmental Sciences must demonstrate competencies in basic and supplementary areas.

Competency is required in the following basic areas of science:

1. Organismic Biology (Botany and Zoology)
2. Genetics
3. Microbiology
4. Cell Biology
5. Physiology
6. Ecology

#### Additional Competencies in Basic Areas for Teaching Program

1. Evolution
2. Earth Science (required in the area; supplemental in the major)

Competency is required in the in the following areas of physical and mathematical sciences:

#### Teaching Program

1. Chemistry (Inorganic, Organic)
  2. Physics (Elementary)
  3. Mathematics (Algebra, Trigonometry)
- Competency is required in methods of teaching biological sciences.

#### Non-teaching Program

1. Chemistry (Inorganic, Organic, Biochemistry)
2. Physics (Elementary)
3. Mathematics (Algebra, Trigonometry, Statistics)

#### Assessment Procedures

#### Teaching Program

Exit examination  
Performance on teacher certification examination

#### Non-teaching Program

Exit examination  
Performance of graduate on entrance examinations to post-baccalaureate programs

The Department of Biological and Environmental Sciences offers a comprehensive non-teaching major and minor in biology which are designed (1) to provide a strong foundation for the development of professional biologists; (2) to offer progressive programs for pre-dentistry, pre-medicine, pre-physical therapy, pre-pharmacy, and pre-chiropractic medicine; and (3) to support the academic programs of other departments. A teaching major and minor in biology are also available (see curriculum outline listed under the Secondary Science Teaching section). Requirements for the non-teaching biology major and the teaching major are identical, except that those pursuing the teaching major complete the professional semester (student teaching), have additional supplemental requirements, and have additional courses from which they may select their advanced electives.

## Bachelor of Science

### Non-Teaching Major

Requirements for the teaching major are listed under "Secondary Science Teaching."

### Core (29 hours)

	Sem. Hrs.
BIOL 100--Orientation to Biological and Environmental Sciences Programs	1
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 461--Ecology	3
BIOL 425--Animal Physiology; or BIOL 426--Plant Physiology	3
Total for Biology core	29

### Electives (9 hours)

*Advanced biology categories (see listing below)	9
Total hours for a biology major (non-teaching)	38

### Advanced biology categories

Students must select, from the following three categories, nine hours (minimum of three courses) of advanced electives in biology. The student may select no more than two courses from any one group. 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 426--Plant Physiology

BIOL 518--Pathogenic Microbiology  
 BIOL 519--Virology  
 BIOL 425--Animal Physiology

### Group B

BIOL 337--Comparative Anatomy  
 BIOL 338--Developmental Biology  
 BIOL 514--Plant Pathology  
 BIOL 520--Histology  
 BIOL 540--Parasitology  
 BIOL 550--Plant Anatomy  
 BIOL 555--Plant Morphology

### Group C

BIOL 318--Local Flora  
 BIOL 334--Entomology  
 BIOL 437--Ornithology  
 BIOL 505--Invertebrate Zoology  
 BIOL 510--Limnology  
 BIOL 531--Herpetology  
 BIOL 535--Mammalogy  
 BIOL 536--Ichthyology

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:** Biology 574 (Experimental Course) or BIOL 599 (Selected Workshop Topics): one course may be used as an elective for Group A, B, or C if it is approved as suitable by the departmental curriculum committee.

## Supplemental Requirements

### I. Chemistry (12-16 hours)

Students must select one of the following sequences:

#### Sequence I (16 hours)

CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4
CHEM 326--Organic Chemistry I	4
CHEM 301--Survey of Biochemistry; or BIOL 590--Biochemistry	4

#### Sequence II (12 hours)

<i>Chemistry</i>	
CHEM 101--Survey of General Chemistry	4
CHEM 201--Survey of Organic Chemistry	4
CHEM 301--Survey of Biochemistry	4

### II. Physics (8 hours)

PHYS 201--Elementary Physics I	3
PHYS 201A--Elementary Physics Lab	1
PHYS 202--Elementary Physics II	3
PHYS 202A--Elementary Physics II Lab	1

### III. Mathematics (6 hours)

MATH 174--Pre Calculus Mathematics II or equivalent	3
MATH 123--Introduction to Statistics or equivalent	3
Total Supplemental Hours	26-30

## Non-Teaching Minor

Requirements for the teaching minor are listed under "Secondary Science Teaching."

## Core (12 hours)

BIOL 171--Principles of Biology	4
BIOL 210--General Zoology	4
BIOL 215--General Botany	4
Core total	12

## Electives (Minimum of 12 hours)

One of the following courses (minimum of 3 hours)	3
BIOL 304--Genetics	
BIOL 317--Microbiology	
BIOL 380--Cell Biology	
BIOL 426--Plant physiology	
BIOL 425--Animal Physiology	
BIOL 461--Ecology	

Three additional courses (minimum of 9 hours). These courses must be selected from the list of courses (Core and Elective) accepted for the biology major (non-teaching)

biology major (non-teaching)	9
Total hours for a non-teaching biology minor	24

## Supplemental Requirements

### Chemistry (8 hours)

The student must take one of the following sequences:

#### Sequence I

CHEM 101--Survey of General Chemistry	4
CHEM 201--Survey of Organic Chemistry	4

#### Sequence II

CHEM 111--Principles of Chemistry	4
CHEM 112--Principles of Chemistry II	4
Total supplemental hours	8

## Environmental Science

**Faculty**--D. Brumagen, F. Busroe, G. DeMoss (chair), G. Gearner, J. Howell, D. Magrane, L. Meade, T. Pass, A. Phelps, M. Pryor, B. Reeder, D. Saxon, H. Setser, C. Tuerk

### Competencies Required in the Program

Students successfully completing a major in environmental science in the Department of Biological and Environmental Sciences must demonstrate competencies in areas constituting a core program.

Competency is required in the following core areas of environmental science:

1. Population
2. Resources
3. Environment
4. Physical Geology
5. Environmental Geology
6. Environmental Biology
7. Environmental Economics
8. Environmental Law and Policy
9. Conservation of Natural Resources

### Assessment Procedures

Exit examination

## Bachelor of Science

An environmental science major with four options is offered. The four options are in ecology; geology; social sciences and economics; and chemistry and physics. With careful planning between the student and the advisor, a teaching certificate can be obtained in one of the option fields. Private industry, governmental agencies, municipalities, public utilities, and ecological contracting companies are primary sources of employment.

### Major

All majors must take the environmental science core, immediately below, and choose an option.

BIOL 100--Orientation to Biological and Environmental Sciences Programs	1
GEOS 100--Physical Geology	1
BIOL 355--Population, Resources, Environment	3
BIOL 356--Environmental Biology	3
GEOS 376--Environmental Geology	3
ECON 501--Environmental Economics	3
GOVT 324--Environmental Law and Policy	3
GEO 505--Conservation of Natural Resources	3
	20

### Ecology Option

Environmental science core courses	20
BIOL 171--Principles of Biology	4
BIOL 210--General Zoology	4
BIOL 215--General Botany	4
BIOL 357--Environmental Testing Methods	3
BIOL 461--Ecology	3
BIOL 510--Limnology	3
Elective from Biology 318, 334, 530, 531, 535, or 437	3

### Supplemental Requirements

CHEM 101--Survey of General Chemistry; or CHEM 111--Principles of Chemistry I	4
CHEM 201--Survey of Organic Chemistry; or CHEM 112--Principles of Chemistry II	4
GEOS 240--Oceans	3
MATH 353--Statistics	3

### Geology Option

Environmental science core courses	20
GEOS 107--Introduction to Geoscience	3
GEOS 201--Historical Geology	3
GEOS 240--Oceans	3
GEOS--electives approved by advisor	9

### Supplemental Requirements

MATH 353--Statistics	3
BIOL 357--Environmental Testing Methods	3
CHEM 101--Survey of General Chemistry; or CHEM 111--Principles of Chemistry I	4
PHYS 201--Elementary Physics I and PHYS 201A--Elementary Physics I Lab	3
PHYS 201A--Elementary Physics I Lab	1
CHEM 201--Survey of Organic Chemistry; or CHEM 112--Principles of Chemistry II; or	4
PHYS 202--Elementary Physics II and	3
PHYS 202A--Elementary Physics II Lab	1

## Social Sciences and Economics Option

Environmental science core courses	20
GEO 211--Economic Geography	3
GEO 390--Weather and Climate	3
ECON 201--Principles of Economics I	3
ECON 541--Public Finance	3
GOVT 372--Political Geography	3
GOVT 351--Public Administration	3
Social sciences and economics electives approved by advisor	12

### Supplemental Requirements

GEOS 240--Oceans	3
BIOL 357--Environmental Testing Methods	3

## Chemistry and Physics Option

Environmental science core courses	20
*CHEM 111--Principles of Chemistry I	4
*CHEM 112--Principles of Chemistry II	4
CHEM 360--Analytical Chemistry I	4
CHEM 460--Analytical 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
PHYS 350--Nuclear Science	4
PHYS 361--Fundamentals of Electronics	3
*CHEM 101 and 201 may be used. See advisor.	

### Supplemental Requirements

GEOS 240--Oceans	3
MATH 353--Statistics	3
BIOL 357--Environmental Testing Methods	3

## Minor

GEOS 100--Physical Geology	1
GEOS 240--Oceans	3
GEOS 376--Environmental Geology	3
BIOL 355--Population, Resources, Environment	3
BIOL 356--Environmental Biology	3
GOVT 324--Environmental Law and Policy	3
Electives from PHIL 303, MATH 353, BIOL 357, ECON 501, GEO 505 and BIOL 553 (only one course may be chosen from last two listed)	6
	22

## Medical Technology

**Faculty**--D. Brumagen, F. Busroe, G. DeMoss (chair), G. Gerner, J. Howell, D. Magrane, L. Meade, T. Pass, A. Phelps, M. Pryor, B. Reeder, D. Saxon, H. Setser, C. Tuerk

### Competencies Required in the Program

*Students successfully completing the Area of Concentration in Medical Technology in the Department of Biological and Environmental Sciences are expected to demonstrate competency in basic, supplementary, and clinical areas.*

*Competency is required in the following basic areas of biological sciences:*

1. Genetics
2. Microbiology



3. *Cell Biology*
4. *Parasitology*
5. *Immunology*
6. *Pathogenic Microbiology*
7. *Biochemistry*

Competency is required in the following supplementary areas of physical and mathematical sciences:

1. *Chemistry (Inorganic, Organic, Analytical)*
2. *Mathematics (Algebra, or higher; Statistics)*

Competency is also required in the following clinical areas:

1. *Immunology and Serology*
2. *Immunohematology*
3. *Analysis of Body Fluids*
4. *Hematology and Coagulation*
5. *Clinical Chemistry*
6. *Clinical Microbiology*
7. *Mycology*
8. *Laboratory Administration*
9. *Clinical Instrumentation*
10. *Laboratory Mathematics*

#### Assessment Procedures

*Exit examination*

*Performance on certification examinations*

## Bachelor of Science

The field of medical technology is 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 medical 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 science 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 scientists. Jobs are available in many employment settings. Starting salaries may be over \$25,000 but vary according to geographic location. 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, Kentucky
2. Owensboro-Davies County Hospital  
Owensboro, Kentucky
3. Methodist Hospital of Kentucky  
Pikeville, Kentucky
4. Lourdes Hospital  
Paducah, Kentucky
5. University of Louisville  
Louisville, Kentucky

Students, with the assistance of their medical technology coordinator, usually begin to make applications to medical technology schools at the beginning of their junior year. Acceptance by an accredited school of medical technology for clinical study is competitive and is generally based on the applicant's academic record (minimum of 2.8 grade-point-average), personal interviews, and letters 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 schools of medical technology.

Most affiliated hospitals charge a nominal fee 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 year of training. Grants and/or loans (Pell Grant and others) are available for eligible students through the University.

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.

MSU confers upon successful candidates the Bachelor of Science degree with an area in medical technology. Upon completion of the four-year program, students are qualified to take a certifying examination in medical technology.

The medical technology curriculum is flexibly designed. A student deciding, for whatever reason, not to complete the "three plus one" program may still pursue and obtain a bachelor of science degree in biology through continued enrollment and acceptable performance at MSU.

#### Area in Medical Technology

BIOL 100--Orientation to Biological and Environmental Sciences Programs	1
BIOL 171--Principles of Biology	4
BIOL 304--Genetics	3

BIOL 317--Principles of Microbiology	4
BIOL 419--Immunology	3
BIOL 231--Human Anatomy	3
BIOL 232--Human Physiology	3
BIOL 233--Human Physiology Lab	1
BIOL 380--Cell Biology	3
BIOL 518--Pathogenic Microbiology	3
BIOL 540--General Parasitology	3
CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4
CHEM 360--Analytical Chemistry	4
CHEM 326--Organic Chemistry I	4
CHEM 460--Instrumental Analysis; or CHEM 301--Survey of Biochemistry	4
CIS 201--Introduction to Computers	3
ENG 101--Composition I	3
ENG 102--Composition II; or ENG 192--Technical Composition	3
ENG--Literature 202, 211, or 212	3
GEN EDUC--social and behavioral sciences	9
GEN EDUC--communications and humanities elective	3
GEN EDUC--General elective	3
HLTH 150--Personal Health and PHED activity course; or HLTH 203--Safety and First Aid	3
MATH 123--Introduction to Statistics or equivalent	3
MATH 152--College Algebra or equivalent	3
PSY 154--Introduction to Psychology	3
Science elective (see recommended electives below)	3
SPCH 110--Basic Speech	3

#### Recommended electives related to program:

BIOL 336--Pathophysiology	4
BIOL 520--Histology	3
CHEM 327--Organic Chemistry II	4
PHYS 202--Elementary Physics II	3
PHYS 202A--Elementary Physics II Lab	1

### SENIOR YEAR (Clinical)

All students attending an accredited school of medical technology during their clinical program of professional study must be enrolled in BIOL 413, 414, 415, and 416, Medical Technology Clinical Practicum, 4 to 14 hours, at Morehead State University during the fall, spring, and summer sessions.

The student will receive a minimum of 36 semester hours of credit upon successfully completing one year of clinical training at an accredited school of medical technology. Credit awarded will be applicable toward a Bachelor of Science degree with an area of concentration in medical technology.

All the following courses, or their equivalents, must be satisfactorily completed (at least a 2.0 or C average) during the hospital-based clinical year in order to receive credit for Biology 413, 414, 415, and 416 and to obtain a recommendation for one of the certification examinations.

**Immunohematology.** Theory and performance of tests related to donor selection, storage of units, blood grouping, Rh titers, compatibility testing, antibody detection and identification, and blood component therapy. 58 hours lecture and 106 hours of laboratory.

**Medical Microbiology.** Cultural techniques and characteristics, metabolic demands and microscopic study of bacteria from patient cultures and unknowns; identification by culture, chemical, and serological techniques; drug susceptibility testing. Lecture topics include frequently and uncommonly encountered bacteria and viruses. 80 hours lecture and 180 hours laboratory.

**Medical Mycology.** Cultural characteristics and microscopic study of differentiating morphology are stressed in a workshop atmosphere; participants work on unknowns. Preliminary procedures and identification of tubercular organisms; 30 hours lecture and 33 hours laboratory.

**Serology and Immunology.** Theory and principles of the various serological tests; methods employed include precipitation, flocculation, hemolysis, and fluorescence. 40 hours lecture and 32 hours laboratory.

**Routine Analysis.** Chemical and microscopic laboratory methods used to study gastric, cerebrospinal, urine, pleural, and abdominal body fluids; related physiology and disease states. 40 hours lecture and 150 hours laboratory.

**Clinical Chemistry.** Quantitative chemical analyses performed for various constituents of blood: enzymes, electrolytes, carbohydrates, hormones, lipids, and nitrogen compounds. Precision manual techniques and a wide variety of instrumental methods are utilized; quality control is emphasized; a limited amount of toxicology is included. Lectures on principles of laboratory tests and physiological reactions in addition to correlation of laboratory findings with disease states. 114 lecture and 180 hours laboratory.

**Special Topics.** A three-part course in (1) orientation, including ethics, professional relationships, the institution and policies, the school program, venipuncture, patient approach, specimen identification, and basic calculation; (2) solutions, essentially a condensed elementary review of quantitative analysis, including gravimetric and volumetric procedures and associated calculations; and (3) management, a four-day workshop designed by the American Management Association to introduce basic management skills. 75 hours lecture, 33 hours laboratory, and 16 hours seminar.

**Medical Parasitology.** A workshop study of the geographical distribution, laboratory identification, modes of transmission, and effects of parasitic infestation on man. 25 hours lecture and 45 hours laboratory.

**Hematology.** Physical, chemical, and microscopic procedures are utilized to evaluate the qualitative and quantitative composition of blood and bone marrow. The function of factors governing the clotting mechanism. Advanced hematology emphasizes correlation of laboratory test results and clinical findings. Collection of specimens and patient contacts are made from this area. 99 hours lecture and 180 hours laboratory.

**Seminar.** Various activities include: patient case studies to correlate laboratory results with disease states;

literature search and preparation of review questions with team competition in answering; assigned classroom presentations. Sixteen hours discussion.

## Pre-Chiropractic

**Faculty**--D. Brumagen, F. Busroe, G. DeMoss (chair), G. Gearner, J. Howell, D. Magrane, L. Meade, T. Pass, A. Phelps, M. Pryor, B. Reeder, D. Saxon, H. Setser, C. Tuerk

The 1968 General Assembly of the Commonwealth of Kentucky passed legislation (H.B. No. 147) requiring a minimum of 60 semester hours of study in an accredited college or university as prerequisite to any person becoming eligible for licensure to practice any healing art (including chiropractic medicine). A student who desires to pursue this course of study should consult the catalog of the chiropractic school which he or she plans to attend.

### Requirements

Most schools or colleges of chiropractic medicine require the following pre-professional education for admission to the Doctor of Chiropractic degree programs:

1. 60 semester hours or 90 quarter hours leading to a baccalaureate degree in a college or university program with a minimum g.p.a. of 2.50 on a 4.0 scale,
2. six semester hours or nine quarter hours of biology with laboratory,
3. six semester hours or nine quarter hours of general chemistry with laboratory,
4. six semester hours or nine quarter hours of organic chemistry with laboratory,
5. six semester hours or nine quarter hours of physics with laboratory,
6. six semester hours or nine quarter hours of English and/or communication skills,
7. three semester hours or 4.5 quarter hours of psychology,
8. three semester hours or 4.5 quarter hours of social sciences and/or humanities, and
9. it is recommended that biology courses be elected from principles of biology, cell biology, general zoology, or principles of microbiology.

A more specific course curriculum for entrance to the Palmer College of Chiropractic is outlined below. Morehead State University has an articulation agreement with Palmer College that provides students completing the minimum suggested courses and maintaining an acceptable g.p.a. priority consideration for admission to their chiropractic program. Other schools of Chiropractic may have specific requirements. To find out more about these

requirements, consult the catalogs from individual schools or contact the Pre-Chiropractic Advisor.

## Palmer College of Chiropractic Admission Recommendations

BIOL 171--Principles of Biology	4
BIOL 210--General Zoology; or	4
BIOL 231--Human Anatomy	3
BIOL 232--Human Physiology	3
BIOL 233--Human Physiology Lab	1
(Students electing BIOL 231 must complete BIOL 232 and 233)	

### INORGANIC CHEMISTRY

CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4

### ORGANIC AND BIOCHEMISTRY

CHEM 326--Organic Chemistry I	4
CHEM 327--Organic Chemistry II	4
BIOL 301--Survey of Biochemistry	4

### PHYSICS

PHYS 201--Elementary Physics I	3
PHYS 201A--Elementary Physics I Lab	1
and	
PHYS 202--Elementary Physics II	3
PHYS 202A--Elementary Physics II Lab	1
or	
PHYS 231--Engineering Physics I	3
PHYS 231A--Engineering Physics I Lab	1
and	
PHYS 232--Engineering Physics II	3
PHYS 232A--Engineering Physics II Lab	1
ENGLISH	6
Any college level course of English and/or communicative skills in the English language, including theatre, drama, and journalism.	
PSYCHOLOGY	3
Any college level course in the psychology department.	
SOCIAL SCIENCES OR HUMANITIES	15
Sociology, government, any class that does not include math, science, or chemistry.	

## Pre-Dentistry

**Faculty**--D. Brumagen, F. Busroe, G. DeMoss (chair), G. Gearner, J. Howell, D. Magrane, T. Pass, A. Phelps, M. Pryor, B. Reeder, D. Saxon, H. Setser, C. Tuerk

The Council on Dental Education of the American Dental Association has established minimum requirements for admission to dental schools. Basic Requirements are built around successful completion of 60 semester hours of college credits from an accredited liberal arts and sciences college or university. Minimum course requirements include one year of study in the areas of English, biology, general chemistry, organic/biochemistry, and at least one semester of physics. It is important that all science classes include both lecture and laboratory instruction. Dental schools do not encourage students to apply with such minimal preparation, because the selection of applicants is also based on the demonstration of superior qualification in personal maturity and academic competence. Three,

and preferably four, years of undergraduate preparation are necessary to provide students with those qualifications that will permit entry into dental schools. Pre-dental students should have a good background in sciences and mathematics beyond the minimum requirements and they should also cultivate interests in literature, music, art, speech, languages, social sciences, and psychology. For purposes of scheduling, course selection, and complete preparation for professional school, the pre-dental student must work closely with the faculty advisor.

A student who follows a program that includes the requirements for graduation and enters dental school at the end of the junior year may, after successfully completing the first year at dental school, transfer credits to Morehead State University and receive the bachelor's degree, provided he or she has completed all of the general education requirements.

### Requirements

Pre-dental students generally follow the curriculum designed for the biology major and a minor of their choice. However, certain complementary and specific general education courses are recommended. An academic handbook and suggested curriculum are available from the pre-dental advisor.

## Pre-Medicine

**Faculty**--D. Brumagen, F. Busroe, G. DeMoss (chair), G. Gearner, J. Howell, D. Magrane, L. Meade, T. Pass, A. Phelps, M. Pryor, B. Reeder, D. Saxon, H. Setser, C. Tuerk

Most medical schools require a minimum number of specific science courses. Applicants must have completed the following courses prior to entrance: one year each of biology, physics, general chemistry, and organic chemistry with laboratories. Additional requirements include one year of English and at least one semester of pre-calculus/calculus, and psychology. These specific courses and the successful completion of a baccalaureate degree represent basic requirements for entrance to medical schools, and it is highly recommended that these requirements be supplemented by additional study in a variety of subject areas. It is recommended that the pre-medical student take advanced courses in chemistry, mathematics, physics, and biology. It is most important that the pre-medical student balance a scientific education with courses selected from the arts, humanities, and social sciences. For purposes of scheduling, course selection, and complete preparation for professional school, the pre-medical student must work closely with the faculty advisor.

Since specific requirements vary among medical schools, it is essential that the student investigate the requirements of the medical school of his or her choice during the first two years of the preparatory program.

### Requirements

Pre-medical students generally follow the curriculum designed for the biology major and chemistry minor, although other options may be completed. However, certain complementary and specific general education courses are recommended. An academic handbook and suggested curriculum are available from the pre-medical advisor.

## Pre-Pharmacy

**Faculty**--D. Brumagen, F. Busroe, G. DeMoss (chair), G. Gearner, J. Howell, D. Magrane, L. Meade, T. Pass, A. Phelps, M. Pryor, B. Reeder, D. Saxon, H. Setser, C. Tuerk

The suggested program of pre-pharmacy study at MSU will meet the general requirements for most pharmacy schools. It can be modified to satisfy the needs of the individual student.

Admission to a school of pharmacy may be obtained after completion of a two-year pre-pharmacy program, although it often takes three years. Depending on the degree program followed, three or four additional years are required to complete pharmacy school.

### Requirements

Pre-pharmacy students generally follow the curriculum designed for the biology major and chemistry minor. However, certain complementary and specific general education courses are recommended. An academic handbook and suggested curriculum are available from the pre-pharmacy advisor.

## Pre-Physical Therapy

**Faculty**--D. Brumagen, F. Busroe, G. DeMoss (chair), G. Gearner, J. Howell, D. Magrane, L. Meade, T. Pass, A. Phelps, M. Pryor, B. Reeder, D. Saxon, H. Setser, C. Tuerk

Most schools of physical therapy require 60 to 70 hours of selected coursework 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 Morehead State University 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.



## Requirements

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.

## Secondary Science Teaching

*Advisor: Check with appropriate departmental office.*

### Area of Concentration (Science Teaching)

A student can become certified as a secondary science teacher by completing a Bachelor of Science degree with an area of concentration in science. The student is required to complete the core of courses listed in part A as well as an emphasis in biology, chemistry, earth science, or physics as presented in part B. In addition, the student will be expected to complete the mathematics curriculum listed in part C. The student must also complete the Teacher Education Program discussed elsewhere in this catalog. The student is certified in the emphasis chosen as well as in general science and interdisciplinary sciences. Further certification is obtained by the completion of additional emphases.

#### Part A--The Core

<b>Biology</b>	
BIOL 171--Principles of Biology	4
BIOL 210--General Zoology; or BIOL 215--General Botany	4
<b>Chemistry</b>	
CHEM 101--Survey of General Chemistry	4
CHEM 201--Survey of Organic Chemistry; or CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4
<b>Earth Science</b>	
GEOS 100--Physical Geology	1
GEOS 107--Introduction to Geoscience	3
GEOS 201--Historical Geology; or GEOS 410--Geological History of Plants and Animals	3
<b>Physics</b>	
PHYS 201--Elementary Physics I	
PHYS 201A--Elementary Physics I Lab	4
or	
PHYS 231--Engineering Physics I	
PHYS 231A--Engineering Physics II Lab	5
and	
PHYS 202--Elementary Physics II	
PHYS 202A--Elementary Physics II Lab	4
or	
PHYS 232--Engineering Physics II	
PHYS 232A--Engineering Physics II Lab	5
<b>Science</b>	
SCI 592--Science for the Secondary Teacher; or BIOL 485--Methods of Teaching Biology	3

#### Computer Science

CIS 201--Introduction to Computers; or Equivalent	3
	37-39

### Part B - Choice of Emphasis

<b>Biology (30 sem. hrs.)</b>	
BIOL 100--Orientation to Biological and Environmental Sciences	1
*BIOL 210--General Zoology; or *BIOL 215--General Botany	4
BIOL 304--Genetics	3
BIOL 317--Principles of Microbiology	4
BIOL 380--Cell Biology	3
BIOL 461--Ecology	3
BIOL 425--Animal Physiology; or BIOL 426--Plant Physiology	3
**Advanced biology electives	9
Total hours for biology emphasis	30

\*Whichever was not taken as part of "The Core"

\*\*A minimum of three courses to be selected from the list of courses (core and elective) acceptable for the teaching major in biology (see the teaching major listed below).

#### Chemistry (minimum 15 sem. hrs.)

CHEM 326--Organic Chemistry I	4
CHEM 327--Organic Chemistry II	4
CHEM 360--Analytical Chemistry I	4
Elect from the following:	
CHEM 328--Organic Chemistry III	5
CHEM 350--Inorganic Chemistry	3
CHEM 410--Spectral Interpretation in Chemical Analysis	2
CHEM 441--Physical Chemistry I	3
CHEM 450--Qualitative Organic Analysis	4
CHEM 460--Analytical Chemistry II	4

#### Earth Science (minimum 15 sem. hrs.)

GEOS 240--Oceans	3
GEOS 262--Mineralogy	4
GEOS 276--Geologic Methods	3
Elect from the following:	
GEOS 200--Coal Mining Geology	3
GEOS 300--Petrology	3
GEOS 301--Economic Geology	3
GEOS 315--Stratigraphy and Sedimentation	4
GEOS 325--Structural Geology	3
GEOS 350--Geomorphology	3
GEOS 376--Environmental Geology	3
GEOS 379--Invertebrate Paleontology	4
GEOS 410--Geological History of Plants and Animals	3

#### Physics (minimum 15 sem. hrs.)

PHYS 350--Nuclear Science	4
Elect from the following:	
*PHYS 212--General Physics Problems	2
PHYS 221--Statics	3
PHYS 250--Light, Color, Cameras, and Perception	3
PHYS 320--The Science of Music	3
PHYS 332--Electricity and Magnetism	4
PHYS 340--Experimental Physics	3
PHYS 352--Concepts of Modern Physics	3
PHYS 361--Fundamentals of Electronics	3
PHYS 391--Dynamics	3
PHYS 410--Solid State Physics	3
PHYS 411--Thermodynamics	3
PHYS 452--Nuclear Physics	3



PHYS 481--Mathematical Physics	3
PHYS 493--Quantum Mechanics	3
*PHYS 212 will not apply if student has completed PHYS 231 and PHYS 232.	

## Part C--Supplemental Requirements in Mathematics

Students who seek certification with an area of concentration in science must complete the following mathematics requirement:

One course from the following:

MATH 152--College Algebra	3
MATH 175--Analytic Geometry and Calculus I	3-4
Also one course from the following:	
MATH 141--Plane Trigonometry	3
MATH 174--Pre-Calculus	3
MATH 275--Analytic Geometry and Calculus II	4
MATH 353--Statistics	3-4
	6-8

## Majors (Teaching)

A student can receive certification by completing a Bachelor of Science degree with a major in biology, chemistry, earth science, mathematics, or physics. With the exception of mathematics, certification is no longer granted with a minor in this list of disciplines unless a major in one of the other natural science disciplines is completed. Further certification can also be obtained through the completion of a second major from the list or through other majors or minors as suggested by an advisor. In addition, the student must complete the requirements listed under the Teacher Education Program.

## Biology

### Core (29 hours)

BIOL 100--Orientation to Biological and Environmental Sciences Programs	1
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 461--Ecology	3
BIOL 425--Animal Physiology; or BIOL 426--Plant Physiology	3
BIOL 485--Methods of Teaching Biology	3
Total for biology core	32
Electives (6 hours)	
Advanced biology categories (see below)	6
Total hours for a biology major (teaching)	38

## Advanced Biology Categories

Students must select, from the following three categories, 6 hours (minimum of two courses) of advanced electives in biology. The student may select courses from one or more of these groups. Courses selected from advanced biology categories will not be counted as part of the biology core.

### Group A

BIOL 419--Immunology
BIOL 232--Human Physiology and BIOL 233--Laboratory for Human Physiology
BIOL 336--Pathophysiology
BIOL 425--Animal Physiology
BIOL 426--Plant Physiology
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--Parasitology
BIOL 550--Plant Anatomy
BIOL 555--Plant Morphology

### Group C

BIOL 318--Local Flora
BIOL 334--Entomology
BIOL 437--Ornithology
BIOL 505--Invertebrate Zoology
BIOL 510--Limnology
BIOL 531--Herpetology
BIOL 535--Mammalogy
BIOL 536--Ichthyology

**Note:** Biology 574 (Experimental Courses) or BIOL 599 (Selected Workshop Topics) -- one course may be used as an elective for Group A, B, or C if it is approved as suitable by the departmental Curriculum Committee.

## Supplemental Requirements

### Chemistry and Geoscience (16 hours)

CHEM 101--Survey of General Chemistry	4
CHEM 201--Survey of Organic Chemistry	4
CHEM 301--Survey of Biochemistry	4
GEOS 100--Physical Geology	1
GEOS 201--Historical Geology	3

### Physics (8 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 and Computer Science (6 hours)

MATH 174--Pre-Calculus Mathematics II or equivalent	3
CIS 201--Introduction to Computers	3
Total supplemental hours	30

## Minors (Teaching)

A student can receive a certifiable teaching minor in biology, chemistry, earth science, mathematics, and physics. With the exception of mathematics, the minor must be complemented by a major in a natural science. As stated under Area of Concentration and Teaching Majors above, the student must also complete the requirements of the Teacher Education Program listed elsewhere in this catalog.

**Biology****Core (12 hours)**

BIOL 171--Principles of Biology	4
BIOL 210--General Zoology	4
BIOL 215--General Botany	4
Core total	12

**Electives (minimum of 12 hours)**

Three of the following courses (minimum of 9 hours)	9
BIOL 304--Genetics	
BIOL 317--Microbiology	
BIOL 380--Cell Biology	
BIOL 426--Plant Physiology	
BIOL 425--Animal Physiology	
BIOL 461--Ecology	
One additional course (minimum of 3 hours) to be selected from the list of courses (core and electives) accepted for the biology major (teaching)	3
Total hours for a biology teaching minor	24

**Supplemental Requirements****Chemistry (8 hours)**

The student must take one of the following sequences:

**Sequence I**

CHEM 101--Survey of General Chemistry	4
CHEM 201--Survey of Organic Chemistry	4

**Sequence II**

CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4
Total supplemental hours	8

**Gulf Coast Research Laboratory**

Morehead State University 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 hours credit. Not all courses are offered each year.

Marine Science I: Oceanography (U)	5
Marine Science II: Marine Biology (U)	5
Coastal Vegetation (U/G)	3
Marine Phycology (U/G)	4
Salt Marsh Plant Ecology (U/G)	4
Coastal Marine Geology (U/G)	3
Marine Invertebrate Zoology (U/G)	6
Marine Ichthyology (U/G)	6
Marine Microbiology (U/G)	5
Comparative Histology of Marine Organisms (U/G)	6
Marine Fisheries Management (U/G)	4
Fauna and Faunistic Ecology of Tidal Marshes (U/G)	4
Early Life History of Marine Fishes (G)	4
Marine Ecology (U/G)	5
Parasites of Marine Animals (U/G)	6
Marine Aquaculture (U/G)	6
Coastal Ecology for Teachers (U/G)	4
Special Problems in Marine Science (U/G)	1 to 6
Special Topics in Marine Science (U/G)	1 to 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  
Ocean Springs, MS 39564-7000  
Telephone (601)872-4201

## Department of Human Sciences

Dr. Marilyn Sampley, Chair  
(606) 783-2966  
100 Lloyd Cassity Building

### Child Development

Faculty--J. Ellington, M. Sampley (Chair), C. Taylor

#### Competencies Required in the Program

Competency is required in the following basic areas in the Child Development Program:

#### Child Development

1. Students will demonstrate ability to evaluate the physical, intellectual, emotional, moral, personality and social development of the individual.
2. Students will demonstrate ability to evaluate care and guidance techniques which meet the basic needs of the child and contribute to his optimal development.

#### Preschool Administration

1. Students will demonstrate ability to assess and administer models of early childhood education programs for young children.
2. Students will demonstrate ability to analyze career and job opportunities.

#### Employment Performance

1. Students will demonstrate performance of specific skills, abilities and behaviors regarding occupational adjustment.
2. Students will demonstrate suitability for child development related employment and potential for future employability.

#### Assessment Procedures

Exit examination  
Survey of employers

## Associate of Applied Science in Child Development

(Two-Year Program)

The two-year associate degree program 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.

### General Education Requirement

ENG 101--Composition I	3
ENG 102--Composition II	3
SPCH 110--Basic Speech; or SPCH 370--Business & Professional Speech	3
MATH 231--Mathematics for Elementary Teachers	3
Social and Behavioral Sciences Elective	3
	15

### Program Requirements

HS 101--Orientation to the Home Economics Profession; or PDI 100--Personal Development Institute	1
HS 200--Family Perspectives	3
HS 201--Principles of Nutrition	3
*HS 355--Child Growth and Development	3
*HS 356--Preschool Administration	3
HS 363--Human Resource Management	3
ART 121--School Art	3
BIOL 110--Biological Science for Elementary Teachers; or SCI 103--Introduction to Physical Science	3
CIS 201--Introduction to Computers	3
EDEE 327--Literature and Materials for Young Readers	3
EDSP 230--Education and Exceptional Children	3
HLTH 203--Safety and First Aid	3
MNGT 310--Small Business Organization	3
MUSE 221--Music for Elementary Teachers	2
MUST 100--Rudiments of Music	2
PHED 311--Movement Exploration	3
PSY 154--Introduction to Psychology	3
HS 332--Field Experience in Home Economics; or HS 339--Cooperation Education; or EDEL 250--Practicum	4
	51

\*Taught alternate years

### Minor

The minor in child development is offered to complement majors in disciplines such as health, radio/TV, journalism, recreation, sociology, and general home economics. The minor prepares students for positions in day care centers and nursery schools.

### Course Requirements

HS 200--Family Perspectives; or *Sociology elective	3
HS 201--Principles of Nutrition; or *HLTH 203--Safety and First Aid	3
**HS 355--Child Growth and Development; or *ART 121--School Art	3
**HS 356--Preschool Administration	3
**HS 363--Human Resource Management; or *MNGT 310--Small Business Organization	3
EDEE 327--Literature and Materials for Young Readers	3
EDSP 230--Education and Exceptional Children	3
PHED 311--Movement Exploration	3
	24

\*Course substitution when requirement is fulfilled in a home economics major.

\*\*Taught alternate years.

## Associate of Applied Science (Two-Year Program)

**Faculty**--J. Ellington, C. Flatt, N. Graham, M. Kunz, N. Maguire, M. Sampley (chair), C. Taylor

An Associate of Applied Science Degree in Human Sciences is available with options in Foodservice Management, Interior Design Assistant, and Fashion Merchandising. The core requirement consists of 35 semester hours.

The fashion merchandising option prepares for employment by retail stores and manufacturers of clothing and textiles products; food service technology prepares for entry level management positions in food service; and interior design assistant prepares for employment as assistants with experienced designers or in retail sales.

### Competencies Required in the Program

Competency is required in the following basic areas in the associate degree program in Human Sciences:

#### Fashion Merchandising

##### Apparel Construction

1. Students will demonstrate a basic knowledge of apparel construction techniques appropriate to specific end-use applications and specialized consumer groups.
2. Students will demonstrate the stages of apparel production and construction from fiber to finished garment.

##### Apparel Selection

1. Students will apply basic design principles to apparel selection for specific end uses and specialized consumer needs.
2. Students will demonstrate abilities in merchandise display and promotion activities.

##### Employment Performance

1. Students will demonstrate performance of specific skills, abilities and behaviors regarding occupational adjustment.
2. Students will demonstrate suitability for fashion merchandising related employment and potential for future employability.

#### Food Service Management

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.

#### Interior Design Assistant

1. An understanding of the historical background of furniture and architectural styles.

2. Competence in drafting including plans elevations and perspectives.
3. Basic understanding of C.A.D. Systems
4. Ability to market their skills by way of written, graphic and oral communication.
5. An understanding of the psychology from both a housing and salesmanship standpoint.
6. Competence in consultation of both commercial and residential projects.
7. Ability to appreciate and evaluate their environment from an aesthetic standpoint.
8. A knowledge of textile and various construction materials for specification and subsequent cost estimates.
9. Basic knowledge of federal and state safety codes.
10. Both legal and financial aspects of housing
11. Ability to specify and design lighting systems.
12. Understands basic creative design principles and the application to interior design problem-solving.
13. Understands historical aspects of interior design.
14. Understands the design process in its application to micro and macro environments.
15. Understands, evaluates, and interprets research findings and relationships to design problem-solving.
16. Understands and evaluates human factor data in arriving at design solutions.
17. Understands business and professional practices.

Competency is required in the following supplemental areas for all options:

1. Mathematics
2. Composition and communication skills
3. Computer literacy
4. Behavioral and social sciences
5. Interpersonal skills
6. Business organizations and their regulatory environment
7. Professional development
8. Field, clinical or co-op experience

#### Assessment Procedures

Exit examination  
Survey of employers

The following core requirements must be completed in all associate degree options:

ENG 101--Composition I	3
ENG 102--Composition II; or	
ENG 192--Technical Writing	3
MATH 135--Math for Technical Students; or	
MATH 123--Introduction to Statistics	3
SPCH 370--Business & Professional Speech; or	
OADM 321--Business Communications	3
PSY 154--Introduction to Psychology	3
CIS 201--Introduction to Computers	3
ECON 201--Principles of Economics I	3
MNGT 261--The Legal Environment of Bus. Organ.; or	
MNGT 160--Introduction to Business	3



MKT 350--Salesmanship	3
PDI 100--Personal Development	1
HS 200--Family Relations	3
HS 239--Cooperative Education; or HS 332--Field Experience	4

### Fashion Merchandising Option

Core Requirements	35
Option Requirements:	
HS 241--Clothing Production Studio	3
HS 250--Visual Merchandising	3
HS 280--Apparel Analysis	3
HS 290--Introduction to the Apparel Industry	3
HS 323--Textiles	3
HS 344--Historic Costume	3
HS 349--Clothing and Culture	3
MKT 304--Marketing	3
MKT 350--Salesmanship	3
MNGT 310--Small Business Organizations	3
OADM 321--Business Communications	3
TOTAL OPTION REQUIREMENTS	33
TOTAL	68

### Food Service Management

Core Requirements	35
Option Requirements:	
HS 130--Elementary Foods Preparation	3
HS 132--Foodservice Operations	3
HS 136--Dining Room Procedures and Beverage Control	3
HS 231--Meal Management	3
HS 234--Computer Assisted Food Service Management	3
HS 334--Quality Food Preparation	3
HS 337--Food Production Management	3
ACCT 281--Principles of Accounting I	3
OADM 136--Business Calculations	3
Approved Electives	6
TOTAL OPTION REQUIREMENTS	33
TOTAL	68

### Interior Design Assistant

Core Requirements	35
Option Requirements:	
HS 103--Interior Graphics I	3
HS 104--Interior Graphics II	3
HS 220--Survey of Design	3
HS 250--Visual Merchandising	3
HS 252--Problems in Interior Design	3
HS 323--Textiles	3
HS 251--Housing	3
HS 370--Residential Interior Design, Studio I	3
HS 381--History of Interiors I	3
HS 382--History of Interiors II	3
OADM 190--Office Administration	3
TOTAL OPTION REQUIREMENTS	33
TOTAL	68

## Interdisciplinary Early Childhood Development

Faculty--C. Taylor

### Competencies Required in the Program

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

1. Students will demonstrate ability to evaluate the physical, intellectual, emotional, moral, personality and social development of the individual.
2. Students will demonstrate ability to assess and administer models of early childhood development programs for young children.
3. Students will demonstrate ability to evaluate prenatal care, child care and guidance techniques which meet the needs of children and contribute to optimal development.
4. Students will demonstrate ability to evaluate the process of parenting, problems, issues, early intervention and family center relationships.
5. Students will demonstrate ability to evaluate skills necessary for developmentally appropriate instruction and care of preschool children.

### Assessment Procedures

- Exit examinations
- Survey of employers

## Bachelor of Science

### Major

This program focuses on an interdisciplinary approach which includes home economics and supporting courses. A minimum of 128 credit hours is required for the completion of this program. The 128 hour baccalaureate degree program includes 45 credit hours of general education requirements, a 30 credit hour major, a 11 credit hour core, and 3 credit hours of supplementary requirements. The teaching precertification option of a 25 credit hour minor in special education, 5 credit hours of professional courses and 12 credit hours of practicums or the non-certification option of a complementary minor, 2 credit hour professional course, 14 credit hours of electives and 8 credit hours of work experience and practicums provide employment alternatives in at-risk programs, as well as franchised, corporate, private and independent child development centers.

### Core Requirements

HS 101--Orientation to the Home Economics Profession	1
HS 200--Family Perspectives	3
HS 201--Principles of Nutrition	3

HS 363--Human Resource Management	3
HS 471--Seminar	1
	11

### Program Requirements

HS 327--Maternal, Infant, and Child Nutrition	3
HS 355--Child Growth and Development	3
HS 356--Preschool Administration	3
HS 357--Parental and Infant Care and Development	3*
HS 457--Parenting	3*
HS 467--Trends & Issues in Early Childhood Development	1*
ART 121--School Art	3
EDEE 327--Literature and Materials for Young Readers	3
MUSE 221--Music for Elementary Teachers	2
MUST 100--Rudiments of Music	2
PDI 100--Personal Development Institute	1
PHED 311--Movement Exploration	3
	30

### Supplemental Requirements

HLTH 203--Safety and First Aid	3
	3

### General Education Requirements

BIOL 110--Biological Science for Elementary Teachers	3
CIS 201--Introduction to Computers	3
MATH 231--Mathematics for the Elementary Teachers I	3
PSY 154--Introduction to Psychology	3
Additional General Education Requirements	27-33**
	42-45**

### Teacher Pre-Certification Option:

(Certification requirements have not been determined or approved; this option will be revised to meet approved requirements.)

Required Special Education Minor	25
EDEL 301--Media Strategies	2
EDF 207--Foundation of Education	3
HS 332--Field Experience	4
(150 of the 240 hours pertain to required practicum prior to teaching practicum)	
HS 477--Early Childhood Development Practicum	8
	131

### Non-Certification Option:

Minor	21
HS 332--Field Experience; or	
HS 339--Cooperative Education; or	
EDEL 250--Practicum	4#
HS 477--Early Childhood Development Practicum	4*
EDEL 301--Media Strategies	2
Electives	14
	128

\*New Course

\*\*General Education for Pre-Certification

#Summer Enrollment Option

## Bachelor of Science in Human Sciences

**Faculty**--J. Ellington, C. Flatt, N. Graham, M. Kunz, N. Maguire, M. Sampley (chair), C. Taylor

A Bachelor of Science Degree in Human Sciences is available with concentrations in Dietetics; Hotel, Restaurant, and Institutional Management; Interior Design; Retail Merchandising and Design; and Vocational Home Economics. A core of 66 semester hours is required for the degree.

### Competencies Required in the Program

Competency is required in the following basic areas in the bachelor of science degree program in Human Sciences:

#### Dietetics

1. Know scientific principles of human nutrition in health and disease.
2. Know nutrient composition of food and appropriate sources of date.
3. Know principles of food science and techniques of food preparation
4. Know principles of menu planning for optional nutrition of individuals and groups in health and disease.
5. Know the influence of socioeconomic, cultural, and psychological factors on food and nutrition behavior.
6. Know the influence of nutrition care delivery in community programs.
7. Know principles of effective communication and documentation.
8. Know use of computers for data processing and information management in dietetics.
9. Know basic concepts of research methodology and statistical analysis.
10. Know principles of education and effective methods of teaching.
11. Know techniques of interviewing and counseling.
12. Know principles of organization and management.
13. Know fundamentals of human relations and group dynamics.
14. Know fundamentals and techniques of financial management.
15. Know principles and techniques of human resource management.
16. Know fundamentals of quality assurance.
17. Know principles of nutrition assessment, planning intervention, and evaluation.
18. Know the principles of procurement, food production distribution, and
19. Know laws, regulations, and standards affecting dietetic practice.

20. Know fundamentals of merchandising and promoting food and nutrition services.
21. Know nutrient needs for various stages of the life cycle.

#### **Hotel, Restaurant and Institutional Management**

1. Know principles of food science and techniques of food preparation.
2. Know use of computers for data processing and information in hospitality industry.
3. Know principles of organization and management.
4. Know fundamentals and techniques of financial management.
5. Know principles and techniques of human resource management.
6. Know the principles of procurement, food and beverage production, distribution and service.
7. Know fundamentals of merchandising and marketing for hospitality.
8. Know principles of layout and design, maintenance and housekeeping of hospitality facilities.
9. Know the laws and standards affecting the hospitality industry.
10. Know a variety of fundamentals and principles associated with the hospitality industry.

#### **Interior Design**

1. An understanding of the historical background of furniture and architectural styles.
2. Competence in drafting including plans, elevations and perspectives.
3. Basic understanding of C.A.D. Systems.
4. Ability to market their skills by way of written, graphic and oral communication.
5. An understanding of the psychology from both a housing and salesmanship standpoint.
6. Competence in consultation of both commercial and residential projects.
7. Ability to appreciate and evaluate their environment from an aesthetic standpoint.
8. A knowledge of textile and various construction materials for specification and subsequent cost estimates.
9. Basic knowledge of federal and state safety codes.
10. Both legal and financial aspects of housing.
11. Ability to specify and design lighting systems.
12. Understand basic creative design principles and the application to interior design problem-solving.
13. Understand historical aspects of interior design.
14. Understand the design process in its application to micro and macro environments.
15. Understand, evaluate, and interpret research findings and relationships to design problem-solving.
16. Understand and evaluate human factor data in arriving at design solutions.
17. Understand business and professional practices.

#### **Retail Merchandising and Design**

##### Apparel Construction

1. Students will demonstrate a basic knowledge of apparel construction techniques appropriate to specific end-use applications and specialized consumer groups.
2. Students will demonstrate the stages of apparel production and construction from fiber to finished garment.
3. Students will acquire knowledge of basic apparel design concepts and techniques.

##### Apparel Selection

1. Students will apply basic design principles to apparel selection for specific end uses and specialized consumer needs.
2. Students will be able to trace the historic development of costume and apply such to current fashion trends.
3. Students will apply social, psychological, cultural and economics aspects of dress to apparel selection.

##### Apparel Industry

1. Students will be familiar with the structure and production processes of the textile and apparel industry.
2. Students will demonstrate abilities in merchandise display and promotion activities.
3. Students will acquire knowledge of the impact of global affairs on the apparel industry.

##### Textiles

1. Students will demonstrate knowledge of standardized textile testing procedures.
2. Students will demonstrate the ability to select appropriate textiles procedures by specified end-use for home furnishings and apparel products.
3. Students will acquire knowledge regarding current textile legislation and regulations.
4. Students will demonstrate the ability to select appropriate renovation and care processes from textile and apparel products commensurate with fabrication and construction of such items.

#### **Vocational Home Economics**

1. Develop a broad based body of knowledge of all areas of home economics subject matter.
2. Acquire interpersonal skills in working with various age groups of people.
3. Skill development in curriculum planning and teaching strategies for home economics education.
4. Develop a working knowledge of all educational programs in home economics, middle grades through adult and become certified to teach home economics education grades 5-12 and adult.

**Competency is required in the following supplemental areas for all options:**

1. Personal development
2. Human Relations

3. *Consumer Nutrition*
4. *Family Resources*
5. *Management*
6. *Family in global perspective*
7. *Professional development*
8. *Field/clinical/cooperative experience*
9. *Social and behavioral sciences*
10. *composition and communication skills*
11. *Computer literacy*
12. *Business organizations and their regulatory environment*
13. *Principles of physical science and biological science*
14. *Mathematical skills*
15. *First aid care*
16. *Art principles*

The following core requirements must be completed for the Bachelor of Science Degree in Human Sciences for all options:

### Core Requirements

PDI 100--Personal Development	1
HS 200--Family Relations	3
HS 201--Principles of Nutrition	3
HS 363--Family Economics	3
HS 471--Senior Seminar	2
ART 101--Two Dimensional Foundations	3
BIOL 105--Introduction to Biological Sciences; or BIOL 232--Human Physiology	3
CHEM 101--Survey of General Chemistry; or SCI 109--Physical Science for the Elem. Teacher	3
CIS 201--Introduction to Computers	3
ECON 201--Principles of Economics I	3
ECON 202--Principles of Economics II	3
ENG 101--Composition I	3
ENG 102--Composition II; or ENG 192--Technical Composition	3
HLTH 203--Safety and First Aid	3
MATH 135--Math for Technical Students; or MATH 152--College Algebra	3
MNGT 261--The Legal Environ. of Bus. Organ.; or MNGT 301--Principles of Management	3
PSY 154--Introduction to Psychology	3
SOC 101--General Sociology	3
SPCH 110--Basic Speech; or SPCH 370--Business and Professional Speech	3
Select from following	12
HS 239--Cooperative Education;	
HS 332--Field Experience in Home Economics;	
HS 333--Diet Therapy;	
HS 410--Therapeutic Nutrition;	
HS 439--Cooperative Education;	
HS 477--Early Childhood Development Practicum;	
HS 490--Special Topics in Human Sciences;	
Approved electives	
<b>TOTAL CORE REQUIREMENTS</b>	<b>66</b>

### Option I: Dietetics

The Dietetics option has approval status by the American Dietetic Association. Students who complete

the dietetics requirements are eligible to apply for dietetic internships and/or preprofessional practice programs in order to meet registration requirements by the American Dietetic Association.

<b>Core Requirements</b>	<b>66</b>
<b>Supplemental Requirements</b>	
ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
BIOL 217--Elementary Medical Microbiology	3
BIOL 232--Human Physiology	3
BIOL 232L--Human Physiology Laboratory	1
CHEM 201--Survey of Organic Chemistry	4
CHEM 301--Survey of Biochemistry	4
MATH 353--Statistics	3
MNGT 311--Personnel Management	3
<b>TOTAL SUPPLEMENTAL REQUIREMENTS</b>	<b>27</b>
<b>Option Requirements</b>	
HS 130--Elementary Food Preparation	3
HS 132--Introduction to Hotel, Restaurant and Institutional Management	3
HS 231--Meal Management	3
HS 234--Computer Assisted Food Service Management	3
HS 328--Nutrition in the Life Cycles	3
HS 330--Quality Food Purchasing	3
HS 334--Quality Food Preparation	3
HS 335--Equipment and Facilities Planning	3
HS 336--Institutional Organization and Management	3
HS 337--Food Production Management	3
HS 437--Advanced Nutrition	3
HS 438--Experimental Foods	3
HS 443--Community Dietetics	3
<b>TOTAL OPTION REQUIREMENTS</b>	<b>39</b>
<b>TOTAL</b>	<b>132</b>

### The Preprofessional Practice Program in Dietetics (Ap4)

The Ap4 provides for the achievement of performance requirement for entry level dietitian through a minimum of 900 hours of supervised practice. The Ap4 is approved by the American Dietetic Association. Graduates are eligible to write the National Registry Examination for licensure as a Registered Dietitian. A certificate is awarded upon completion of the Ap4.

### Admission Requirements

The Ap4 follows completion of the Plan V academic requirements and an overall grade point average of 2.5.

### Required Course Sequence

<b>Fall Semester</b>	
HS 510--Professional Practice in Clinical Dietetics	6
HS 537--Preprofessional Practice in Administrative Dietetics I	6
<b>Spring Semester</b>	
HS 532--Preprofessional Practice in Community Dietetics	6
HS 539--Preprofessional Practice in Administrative Dietetics II	6



## Option 2: Hotel, Restaurant, and Institutional Management

The option in Hotel, Restaurant, and Institutional Management prepares graduates for a career in the hospitality industry. The program includes business and management courses in order to prepare students to perform successfully in the field. A business minor is required.

Core Requirements	66
<b>Supplemental Requirements</b>	
ACCT 281--Principles of Accounting I	3
ACCT 282--Principles of Accounting II	3
MKT 304--Marketing	3
MATH 354--Business Statistics	3
<b>TOTAL SUPPLEMENTAL REQUIREMENTS</b>	<b>12</b>
<b>Option Requirements</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 330--Quality Food Purchasing	3
HS 334--Quality Food Preparation	3
HS 335--Equipment and Facilities Planning	3
HS 336--Institutional Organization and Management	3
HS 337--Advanced Food Production	3
HS 338--Maintenance, Engineering, and Housekeeping for Hospitality Facilities	3
HS 435--Cost Control in Hotel, Restaurant, and Institutional Management	3
HS 436--Hotel, Restaurant, and Institutional Marketing Management	3
<b>TOTAL OPTION REQUIREMENTS</b>	<b>33</b>
Appropriate minor is required	24
<b>TOTAL</b>	<b>135</b>

## Option 3: Interior Design

Graduates of the Interior Design option are prepared to work as contract, residential, or specialty designers in interior design studios, contract studios, retail or office furnishings stores, architectural firms, industry, institutions, or self-owned businesses.

Core Requirements	66
<b>Option Requirements</b>	
HS 103--Interior Graphics I	3
HS 104--Interior Graphics II	3
HS 220--Survey of Design	3
HS 250--Visual Merchandising	3
HS 252--Problems in Interior Design	3
HS 323--Textiles	3
HS 351--Housing	3
HS 381--History of Interiors I	3
HS 382--History of Interiors II	3
HS 370--Residential Interior Design, Studio I	3
HS 475--Contract Interior Design, Studio II	3
<b>TOTAL OPTION REQUIREMENTS</b>	<b>33</b>
Minor in art or business is required	24
General Education	6
<b>TOTAL</b>	<b>129</b>

## Option 4: Retail Merchandising and Design

Retail Merchandising and Design serves to prepare students to enter careers in the retailing or production of apparel and textiles. In addition to the general education requirements, the students take selected courses from home economics, business, and other related fields of study.

Core Requirements	66
<b>Option Requirements</b>	
HS 141--Introduction to Textiles and Clothing	3
HS 250--Visual Merchandising	3
HS 280--Apparel Analysis	3
HS 290--Introduction to the Apparel Industry	3
HS 323--Textiles	3
HS 349--Clothing and Culture	3
HS 450--Merchandising Applications	3
Select for the following	12
HS 241--Clothing Production	
HS 340--Intermediate Textiles	
HS 341--Flat Pattern Design	
HS 342--CAD Applications in Apparel Design and Production	
HS 344--Historic Costume	
HS 439--Cooperative Education	
HS 460--Merchandising Display and Promotion	
HS 490--Special Topics	
HS 542--Socio-psychological Aspect of Cloth	
<b>TOTAL OPTION REQUIREMENTS</b>	<b>33</b>
Minor in business is required	24
General Education	6
<b>TOTAL</b>	<b>129</b>

## Option 5: Vocational Home Economics

The Vocational Home Economics option requires students to teach in middle grades, senior high school, and adult home economics programs. These majors are required to complete 1,000 hours of work experience in home economics related positions to qualify for a vocational teaching certificate. A total of 2,000 hours of work experience in a specific area is required for a gainful home economics teaching certificate.

Core Requirements	66
<b>Supplemental Requirements</b>	
HS 470--Teaching Methods for Vocational Home Economics Education	3
HS 573--Curriculum Development in Vocational Home Economics Education	3
EDEM 330--Foundations of Reading	3
EDF 207--Foundations of Education	3
EDF 211--Human Growth and Development	3
EDF 311--Learning Theories in the Classroom	3
EDMG 332--Reading Strategies for Middle Grades	3
EDSE 312--Teaching Skills and Media	3
EDSE 332--Teaching the Exceptional Student	3
EDSE 415--Teaching in Today's School	3
EDSE 416--Student Teaching	12
<b>TOTAL SUPPLEMENTAL REQUIREMENTS</b>	<b>42</b>
<b>Option Requirements</b>	
HS 130--Elementary Food Preparation	3
HS 141--Introduction to Textiles and Clothing	3

HS 231--Meal Management	3
HS 252--Problems in Interior Design	3
HS 351--Housing	3
HS 355--Child Growth and Development	3
HS 356--Pre-school Administration	3
HS 454--Life Management	3
HS 457--Parenting	3
TOTAL OPTION REQUIREMENTS	27
TOTAL	135

\*\*1,000 hours work experience required for Vocational Teaching Certificate. This can be met under core requirements with co-ops, practicums, clinical, or field experience.

Supplemental Requirements --	
Non-Certification Option	26-30
Complete one minor from one of the following:	
Child Development	
Food Service	
Fashion Merchandising	
Interior Design	
HS Approved Electives - 16 hours	

## Fashion Merchandising

### Minor

The minor in fashion merchandising is offered to complement majors in varied disciplines such as art, business, and journalism.

## Course Requirements

HS 250--Visual Merchandising	3
HS 280--Apparel Analysis	3
HS 290--Introduction to the Apparel Industry	3
HS 323--Textiles	3
HS 344--Historic Costume	3
HS 349--Clothing and Culture	3
HS 450--Fashion Merchandise Techniques	3
HS 460--Merchandise Display and Promotion	3
	24

\*Course substitution when requirement is fulfilled in textile and clothing major.

## Personal Development Institute

Faculty--C. Flatt

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 Industrial Education and Technology

Dr. Charles Coddington, Chair  
 (606) 783-2013  
 210 Lloyd Cassity Building

## Industrial Technology

**Faculty**--C. Coddington (chair), B. deGraw, R. Hayes, D. Karwatka, W. Morella, E. Nass, W. C. Patrick, J. Smallwood, R. Spangler, R. Stanley, R. Tucker, J. VanHoose, E. Winfield

### Competencies Required in the Associate of Applied Science in Industrial Technology Program

#### Core Competencies Required in All AAS Degree Programs

Competency is required in the following basic areas of Industrial Technology:

1. Conventional Drafting and Design
2. Analog Circuit Design and Application
3. Introduction to Technology
4. Materials and Processes
5. Conventional Manufacturing Processes
6. Supervision and Manufacturing Theory and Practice

Competency is required in the following supplemental areas:

1. Mathematics
2. Composition and communication skills
3. Physical Science
4. Computer Literacy

#### Assessment Procedures

- Exit examination
- Survey of employers

## Associate of Applied Science in Industrial Technology

### Core Requirements

	Sem. Hrs.
ENG 101--Composition I . . . . .	3
ENG 192--Technical Composition . . . . .	3
CIS 201--Introduction to Computers . . . . .	3
*MATH 135--Math for Technical Students; and/or MATH 141--Plane Trigonometry; and/or MATH 152--College Algebra . . . . .	6
SPCH 370--Business and Professional Speech . . . . .	3
GCT 103--Technical Drawing . . . . .	3
**EET 140--Basic Electricity; or EET 141--Electrical Circuits . . . . .	3
IET 100--World of Technology . . . . .	3
IET 320--Supervisory Practices . . . . .	3
MFT 186--Manufacturing and Fabrication . . . . .	3
<b>Total Core Requirements</b>	<b>33</b>

\*Not accepted as satisfying core or program requirements in Construction/Mining, Electrical/Electronics, and Manufacturing/Robotics options.

\*\*EET 140 not accepted in Electrical/Electronics and Manufacturing/Robotics options

### Option 1: Construction/Mining Technology

Competency is required in the following basic areas of the Construction/Mining Technology Option

1. Architectural Drafting and Design
2. Strength of Material
3. Architectural Construction Application
4. Estimating and Planning
5. Residential and Commercial Codes and Regulations
6. Engineering Graphics
7. Land Development
8. Materials Excavation and Handling
9. Mineral and Coal Resource Exploration and Evaluation.
10. Mineral and Coal Business
11. Mining Health Safety
12. Environmental Health and Safety
13. Surveyance and Underground Mining Systems
14. Mine Facilities Design
15. Computer Analysis

Core Requirements . . . . .	33
Option Requirements	
CON 101--Intro. to Construction Technology; or MIN 101--Intro. to Mining and Reclamation . . . . .	3
CON 102--Surveying I . . . . .	3
CON 103--Materials Testing; or CON 201--Properties of Const. Materials . . . . .	3
MIN 305--Surface Mining Systems . . . . .	3
Two courses from any of the following . . . . .	6
CON 104--Survey II	
CON 202--Structural Design	
CON 204--Codes, Contract, and Spec.	
CON 205--Estimating & Const. Cost	
CON 206--Construction Management	
MIN 302--Coal Analysis & Preparation	
MIN 307--Hydrology	
Electives . . . . .	13

### Option 2: Electrical/Electronics Technology

Competency is required in the following areas of the Electrical/Electronics Technology Option.

1. Analog Circuit Design, Theory, and Application
2. Digital Logic Circuit and Industrial Application
3. Industrial, Residential, and commercial Circuits and Application
4. Electrical Regulations and Codes Governing Installation and Maintenance
5. Electro-Mechanical Theory Application and Systems
6. System Analysis

7. *Analog and Digital Circuit Designs and Applications*
8. *Problem Solving and Trouble Shooting in analog and Digital Circuits*
9. *Computer Technology*
10. *Design Logic*
11. *System Analysis*

<b>Core Requirements</b> .....	33
<b>Option Requirements</b>	
EET 213--Analog Devices & Circuits I .....	3
EET 214--Analog Devices & Circuits II .....	3
EET 215--Basic Control Systems .....	3
EET 240--Residential Wiring .....	3
EET 241--Circuit Analysis .....	3
EET 245--Digital Electronics .....	3
Total Option Requirements	18
Electives .....	13
<b>TOTAL</b>	<b>64</b>

### Option 3: Graphic Communications Technology

Competency is required in the following basic areas of the Graphic Communications Technology Option:

1. *Conventional Drafting and Design*
2. *Automated Drafting and Design*
3. *Quality Control and Industrial Supervision/Management*
4. *Photographic Techniques*
5. *Commercial and Industrial Design Theory and Practices*
6. *Lithographic Theory and Practices*
7. *Desktop Publishing*
8. *Commercial/Industrial Publishing Practices*
9. *Artistic Creations*
10. *Descriptive Geometry*
11. *Materials and Processes*
12. *Cross-sectional Comprehension of Technology*
13. *Conventional Manufacturing Techniques*
14. *Automated Manufacturing Techniques*
15. *Construction Materials and Structures*
16. *Electro/Mechanical and Fluidics Systems*

<b>Core Requirements</b> .....	33
<b>Option Requirements</b> (Advisor selected from the following list after consultation with student)	
GCT 203--Technical Drawing II .....	3
GCT 215--Computer Aided Drafting .....	3
GCT 301--Tool Layout & Design .....	3
GCT 303--Technical Illustration .....	3
GCT 305--Housing .....	3
GCT 315--Computer Aided Design .....	3
GCT 102--Graphic Arts I .....	3
GCT 202--Graphic Arts II .....	3
GCT 302--Offset Lithography .....	3
GCT 350--Machine Composition I .....	3
Total Option Requirements	18
Supportive Electives .....	13
<b>TOTAL</b>	<b>64</b>

<b>Suggested List for Supportive Electives</b>
CON 202--Structural Design
GCT 204--Descriptive Geometry
GCT 322--Photography
IET 160--Intro. to Power Fluid Mechanics
IET 319--Quality Control
JOUR 306--Newspaper Graphics and Production
MFT 286--Machine Tool Processes
MKT 304--Marketing
MKT 350--Salesmanship
MNGT 160--Intro. to Business
MNGT 310--Small Business Organization
OADM 110--Keyboarding
OADM 111--Beginning Typewriting

### Option 4: Manufacturing/Robotics Technology

Competency is required in the following basic areas in Manufacturing/Robotics Technology

1. *Materials and Processes*
2. *Conventional Manufacturing Processes*
3. *Automated Manufacturing*
4. *Strength of Materials*
5. *Material Testing*
6. *Metallurgy*
7. *Metal Bonding and Fusing Techniques*
8. *Robotics*
9. *Basic Machining Theory and Application*
10. *Quality Control*
11. *Theory of Fluids*
12. *Hydraulic and Pneumatic Circuits and Applications*
13. *Environmental Systems*
14. *Machine Tool Processes*
15. *Power Systems*
16. *Plant Supervision and Management Theory*
17. *Electro/Mechanical Systems*
18. *Metal Fabrication process*
19. *Conventional Manufacturing Processes*
20. *Metallurgy*
21. *Robotics/Automated Manufacturing Processes*

<b>Core Requirements</b> .....	33
<b>Option Requirements</b> (Advisor selected from the following list after consultation with student)	
MFT 106--Thermoplastics Processing .....	3
MFT 286--Machine Tool Process .....	3
MFT 306--Mold Design and Construction .....	3
MFT 386--NC-CNC Manufacturing Technology .....	3
ROB 170--Fundamentals of Robotics .....	3
ROB 270--Robotics Systems Engineering .....	3
WEL 386--Welding .....	3
IET 160--Intro. to Power and Fluids .....	3
IET 260--Hydraulics and Pneumatics .....	3
Option Requirements	18
Supportive Electives .....	13
<b>TOTAL</b>	<b>64</b>



# Bachelor of Science in Industrial Technology

**Faculty**--C. Coddington (chair), B. deGraw, R. Hayes, D. Karwatka, W. Morella, E. Nass, W. C. Patrick, J. Smallwood, R. Spangler, R. Stanley, R. Tucker, J. VanHoose, E. Winfield

## Competencies Required in the Bachelor of Science in Industrial Technology Program

Competency is required in the following basic areas of Industrial Technology:

1. Industrial Materials and Processes
2. Conventional and Automated Manufacturing
3. Electro-Mechanical Systems Theory and Applications
4. Engineering Graphics principles, Application and Interpretations
5. Industrial Design Principles and Applications
6. Strengthen of Materials and Materials Testing
7. Quality Control, Industrial Management and Supervision
8. Systems Analysis, Problem Solving and Trouble Shooting Techniques
9. Computer Technology and Applications
10. Regulations and Codes

Competency is required in the following supplemental areas:

1. Mathematics (Algebra, Trigonometry)
2. Composition and Communication Skills
3. Physical and Social Sciences
4. Computer Hardware and Software Literacy

Competency is required in pedagogy for Technology or Trade and Industrial Teacher Education majors selecting the Kentucky Teacher certification option.

**NOTE:** A maximum of twelve 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, IET, MFT, and ROB, can be selected following consultation with the student's advisor.

**NOTE:** Students are required to obtain a grade of "C" in all technical and supplemental courses requiring a performance competency.

### Core Requirements

ENG 101--Composition I	3
ENG 192--Technical Composition	3
BIOL 105--Intro. to Biological Sciences;	3
PHYS 201--Elementary Physics I; or	
PHYS 202--Elementary Physics II	3
CIS 201--Intro. to Computers	3
ECON 101--Intro. to American Economy	3
FNA 160--Appreciation of Fine Arts	3
GEO 100--Fundamentals of Geography	3
MATH 141--Plan Trigonometry; or	

MATH 152--College Algebra	3
SOC 101--General Sociology; or	
PSY 154--Intro. to Psychology (Ed Majors)	3
SPCH 370--Business and Professional Speech	3
EET 140--Basic Electricity; or	
EET 141--Electrical Circuits	3
GCT 103--Technical Drawing I	3
IET 100--World of Technology	3
IET 320--Supervisory Practices	3
IET 371--Seminar	1
MFT 186--Manufacturing and Fabrication	3
<b>Total Core Requirements</b>	<b>49</b>

## Option 1: Construction/Mining Technology

<b>Core Requirements</b>	<b>49</b>
<b>Technical Option</b>	
CON 101--Intro. to Construction; or	
MIN 101--Intro. to Mining and Reclamation	3
CON 102--Surveying I	3
CON 104--Surveying II	3
CON 103--Materials Testing; or	
CON 201--Properties of Construction Materials	3
MIN 305--Surface Mining Systems	3
MIN 307--Hydrology	3
Select from the following list:	18
CON 202--Structural Design	
CON 203--Construction Methods and Equipment	
CON 204--Codes, Contracts, and Specifications	
CON 205--Estimating and Construction Costs	
CON 206--Construction Management	
MIN 104--Underground Mine Safety	
MIN 200--Mine Surveying	
MIN 201--Mine Equipment	
MIN 202--Internship	
MIN 302--Coal Analysis and Preparation	
MIN 402--Mine Roof and Rib Control	
MIN 403--Blasting and Explosives	
MIN 406--Underground Mine Technology	
<b>Total Option Requirements</b>	<b>36</b>
<b>Supportive Requirements</b>	<b>15</b>
To be determined in consultation with student. Must include at least 3 credits of mathematics in addition to core requirements.	
<b>Technical Electives</b>	<b>19</b>
<b>Supportive General Education Electives</b>	<b>9</b>
	<b>128</b>

## Major

The student must complete 49 semester hours for the core requirements, 24 semester hours for the technical option, 9 semester hours for the supportive requirements, and a combination of technical electives and general education electives as specified to complete the degree.

<b>Core Requirements</b>	<b>49</b>
(See as stated above)	
<b>Technical Option</b>	
CON 101--Intro. to Construction; or	
MIN 101--Intro. to Mining & Reclamation	3
CON 102--Surveying I	3
CON 104--Surveying II	3
CON 103--Metal Testing; or	
CON 201--Properties of Const. Materials	3
MIN 305--Surface Mining Systems	3
MIN 307--Hydrology	3
Select from the following list:	6

CON 202--Structural Design	
CON 203--Construction Methods and Equipment	
CON 204--Codes, Contracts, and Specifications	
CON 205--Estimating and Construction Costs	
CON 206--Construction Management	
MIN 104--Underground Mine Safety	
MIN 200--Mine Surveying	
MIN 201--Mine Equipment	
MIN 202--Internship	
MIN 302--Coal Analysis and Preparation	
MIN 402--Mine Roof and Rib Control	
MIN 403--Blasting and Explosives	
MIN 406--Underground Mine Technology	
Total Option Requirements	24
Supportive Requirements	9
To be determined in consultation with student. Must include at least 3 credits of mathematics in addition to core requirements.	
Technical Electives	37
To be selected by student and advisor to include a Minor.	
Supportive General Education Electives	9
	128

## Option 2: Electricity/Electronics Technology

Core Requirements	49
(See as stated on pg. 24)	
Technical Option	
EET 213--Analog Devices and circuits I	3
EET 214--Analog Devices and Circuits II	3
EET 215--Basic Control Systems	3
EET 240--Residential Wiring	3
EET 241--Circuit Analysis	3
EET 245--Digital Electronics	3
EET 344--Communications Circuits	3
EET 345--Microprocessor Electronics	3
EET 443--Industrial Electricity	3
EET 444--Communication Systems	3
EET 445--Computer Electronics	3
Total Option Requirements	36
Supportive Requirements	15
To be determined in consultation with student considering the following courses first. Must include at least 3 credits of mathematics in addition to core requirements.	
IET 260--Hydraulics and Pneumatics	
IET 319--Quality Control	
IET 422--Industrial Safety Standards and Enforcement	
PHYS 361--Fundamentals of Electronics	
WEL 386--Welding I	
Technical Electives	19
To be selected by student	
Supportive General Education Electives	9
	128

## Major

The student must complete 49 semester hours for the core requirements, 24 semester hours for the technical option, 9 semester hours for the supportive requirements and a combination of technical electives and general education as specified to complete the degree.

Core Requirements	49
(See as stated on pg. 24)	
Technical Option	
EET 213--Analog Devices and circuits I	3
EET 214--Analog Devices and Circuits II	3
EET 215--Basic Control Systems	3
EET 240--Residential Wiring	3

EET 241--Circuit Analysis	3
EET 245--Digital Electronics	3
Select one group	
IET 321--Wood Laminating and Turning; and	3
IET 442--Industrial Safety Standards and Enforcement	3
EET 344--Communications Circuits; and	3
EET 444--Communications Systems	3
EET 345--Microprocessor Electronics; and	3
EET 445--Computer Electronics	3
Supportive Requirements	9
To be determined in consultation with student considering the following courses first. Must include at least 3 credits of mathematics in addition to core requirements.	
IET 260--Hydraulics and Pneumatics	
IET 319--Quality Control	
PHYS 361--Fundamentals of Electronics	
Technical Electives	37
To be selected by student and advisor - to include a Minor	

## Option 3: Graphic Communications Technology

Core Requirements	49
(See as listed on pg. 24)	
Technical Option	36
Advisor selected in consultation with student	
CON 102--Surveying I	
CON 202--Structural Design	
GCT 102--Graphic Arts I	
GCT 202--Graphic Arts II	
GCT 203--Technical Drawing II	
GCT 215--Computer Aided Drafting	
GCT 301--Tool Layout and Design	
GCT 302--Offset Lithography	
GCT 303--Technical Illustration	
GCT 305--Housing	
GCT 315--Computer Aided Design	
GCT 322--Photography	
GCT 350--Machine Composition I	
GCT 351--Graphic Duplication	
GCT 403--Machine Drawing and Design	
GCT 404--Architectural Drawing	
GCT 450--Machine Composition II	
IET 317--Time and Motion Study	
IET 330--Industrial Design	
IET 476--Special Problems	
Supportive Requirements	15
To be determined in consultation with student considering the following courses first. Must include at least 3 credits of mathematics in addition to core requirements.	
CON 101--Introduction to Construction Technology	
CON 104--Surveying II	
IET 260--Hydraulics and Pneumatics	
IET 319--Quality Control	
JOUR 306--Newspaper Graphics and Production	
MNGT 160--Introduction to Business	
OADM 111--Beginning Typewriting	
Technical Electives	19
To be selected by student	
ACCT 281--Principles of Accounting I	
CHEM 111--Principles of Chemistry I	
CON 204--Codes, Contracts, and Specifications	
CON 205--Estimating and Construction Costs	
ECON 201--Principles of Economics I	
ECON 202--Principles of Economics II	
MFT 286--Machine Tool Processes	
MKT 304--Marketing	
MKT 305--Purchasing	

MKT 354--Consumer Behavior	
MNGT 160--Introduction to Business	
MNGT 301--Principles of Management	
MNGT 310--Small Business Organization	
MNGT 311--Personnel Management	
OADM 111--Beginning Typewriting	
PHYS 202--Elementary Physics II	
<b>Supportive General Education Electives</b>	9
	128

## Major

The student must complete 49 semester hours for the core requirements, 24 semester hours for the technical option, 9 semester hours for the supportive requirements and a combination of technical electives and general education electives as specified to complete the degree.

<b>Core Requirements</b>	49
(See as stated on pg. 24)	
<b>Technical Option</b>	24
CON 202--Structural Design	
GCT 102--Graphic Arts I	
GCT 202--Graphic Arts II	
GCT 203--Technical Drawing II	
GCT 215--Computer Aided Drafting	
GCT 301--Tool Layout and Design	
GCT 302--Offset Lithography	
GCT 303--Technical Illustration	
GCT 305--Housing	
GCT 315--Computer Aided Design	
GCT 322--Photography	
GCT 350--Machine Composition I	
IET 317--Time and Motion Study	
IET 330--Industrial Design	
IET 476--Special Problems	
<b>Supportive Requirements</b>	9
To be determined in consultation with student. Must include at least 3 credits of mathematics in addition to core requirements.	
IET 319--Quality Control	
JOUR 306--Newspaper Graphics and Production	
MNGT 160--Introduction to Business	
<b>Technical Electives</b>	37
To be selected by student and advisor - to include a Minor	
<b>Supportive General Electives</b>	9
	128

## Option 4: Manufacturing/Robotics Technology

<b>Core Requirements</b>	49
(See as listed on pg. 24)	
<b>Technical Option</b>	
Advisor selected in consultation with the student.	
CON 103--Materials Testing	3
EET 215--Basic Control Systems	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>Total Technical Option</b>	36

**Supportive Requirements** 15  
To be determined in consultation with student considering the following first. Must include at least 3 credits of mathematics in addition to core requirements.

<b>Technical Electives</b>	19
To be selected by student	
CIS 202--Structured Programming BASIC	
EET 245--Digital Electronics	
EET 345--Microprocessor Electronics	
IET 319--Quality Control	
MATH 260--FORTRAN Programming	
MKT 304--Marketing	
MKT 305--Purchasing	
MNGT 160--Introduction to Business	
MNGT 301--Principles of Management	
MNGT 306--Production Management	
MNGT 310--Small Business Organization	
<b>Supportive General Education Electives</b>	9
	128

## Major

The student must complete 49 semester hours for the core requirements, 24 semester hours for the technical option, 9 semester hours for the supportive requirements and a combination of technical electives and general education electives as specified to complete the degree.

<b>Core Requirements</b>	49
(See as stated on pg. 24)	
<b>Technical Option</b>	24
Advisor selected in consultation with student	
CON 103--Materials Testing	
EET 215--Basic Control Systems	
GCT 215--Computer Aided Drafting	
GCT 301--Tool Layout and Design	
IET 260--Hydraulics and Pneumatics	
IET 422--Industrial Safety Standards and Enforcement	
MFT 106--Thermoplastic Processing	
MFT 286--Machine Tool Processes	
MFT 306--Mold Design and Construction	
MFT 386--NC-CNC Manufacturing Technology	
MFT 488--Flexible Manufacturing Engineering Technology	
ROB 170--Fundamentals of Robotics	
ROB 270--Robotics Systems Engineering	
ROB 370--Robotics Interfacing Engineering	
ROB 470--Robotics Applications Engineering	
WEL 307--Automated Welding Technology	
WEL 386--Welding I	
<b>Supportive Requirements</b>	9
To be determined in consultation with student considering the following courses first. Must include at least 3 credits of mathematics in addition to core requirements.	
<b>Technical Electives</b>	37
To be selected by student and advisor - to include a Minor	
<b>Supportive General Education Electives</b>	9
	128

## Option 5: Industrial Education Orientation/Exploration

<b>Core Requirements</b> .....	49
(See as stated on pg. 24)	
<b>Technical Option</b> .....	33
(Advisor will select <u>21</u> hours from the following after consultation with the student.)	
CON 103--Materials Testing .....	3
GCT 102-- Graphic Art .....	3
GCT 215--Computer Aided Drafting .....	3
IET 111--Basic Woods .....	3
IET 160--Intro. to Power Fluids; or	
IET 260--Hydraulics and Pneumatics .....	3
IET 319--Quality Control .....	3
IET 395--Special Problems in Voc. Ed. ....	3
IET 398--Supervised Work Experience .....	3
ROB 170--Fundamentals of Robotics .....	3
(Advisor will select <u>9</u> hours from the following after consultation with student:)	
CON 203--Construction Methods and Equipment	
CON 206--Construction Management	
EET 240--Residential Wiring	
GCT 202--Graphic Arts II	
GCT 302--Offset Lithography	
GCT 303--Technical Illustration	
GCT 322--Photography	
GCT 350--Machine Composition	
MFT 286--Machine Tool Process	
MFT 306--Mold Design and Construction	
MFT 386--NC-CNC Manufacturing Technology	
ROB 270--Robotics System Engineering	
<b>Technical Electives</b> .....	3
Total Option Requirements	
<b>Supportive Requirements</b> .....	39
EDF 211--Human Growth and Development	
EDF 311--Learning Theories in the Classroom	
EDEM 330--Foundations of Reading	
EDMG 332--Reading Strategies for the Middle Grade Teacher	
EDSE 333--Field Experiences in Secondary Classrooms	
EDSP 332--Teaching the Exceptional Students	
HLTH 150--Personal Health	
IET 390--Principles of Industrial Education	
IET 392--Technical Curriculum and Media Development	
IET 475--Teaching Methods in Industrial Education	
IET 478--Supervised Teaching Practicum in Industrial Education	
<b>Supportive Electives</b> .....	7
128	

NOTE: MATH 152 and PHYS 201 or 202 are required for Teacher Certification

## Option 6: Industrial Education Preparation Level

<b>Core Requirements</b> .....	49
<b>Technical Option</b> .....	33
Vocational Area of Specialization	
IET 364--Career and Voc. Guidance; or	
IET 185--Methods of Inst. in Voc. Ed.	
IET 301--Trade and Technical Analysis	
IET 422--Industrial Safety Standards and Enforcement	
<b>Supportive Requirements</b> .....	25
IET 390--Principles of Industrial Education	
IET 392--Technical Curriculum and Media Development	
IET 394--Student Teaching in Vocational Education	
IET 393--Methods in Vocational Industrial Education	
IET 401--Seminar in Industrial Education	
EDF 211--Human Growth and Development	
EDF 311--Learning Theories in Classroom	
EDSP 332--Teaching the Exceptional Student	
HLTH 150--Personal Health	
<b>Technical Electives</b> .....	12
<b>Supportive Electives</b> .....	7
128	

NOTE: MATH 152 and PHYS 201 or PHYS 202 required for teacher certification.



# Department of Mathematics

Dr. Rodger Hammons, Chair  
(606) 783-2930  
206 Lappin Hall

## Mathematics

**Faculty**--J. Boardman, V. Cyrus, B. Flora, J. Fryman,  
R. Hammons (Chair), L. Jaisingh, G. Johnston, T. Klein, E. Korntved,  
R. Lindahl, J. Mann, A. Martin, G. Nolen, T. Pack, R. Ross, J. Saxon,  
D. Seth

### Competencies Required in the Program

#### Expected Educational Results:

1. *The student exiting the programs in mathematics must be able to 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. *The student must be able to 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. *The student must develop appropriate learning skills to foster the investigation of mathematical ideas and direct his/her own learning.*
4. *The student must be able to 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 committed to the education of students who intend (1) to teach mathematics at any level, (2) to apply mathematics in industry or government, or (3) to use mathematical techniques and concepts in their chosen fields of endeavor.

## Major

	Sem. Hrs.
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 471--Seminar	1
Electives from mathematics courses above 300 level except Math 330, Math 332, Math 353, Math 354, Math 373, or Math 374 as approved by the Chair of the Department of Mathematical Sciences	11
	36

## Major (Teaching)

MATH 170--Introduction to Algorithms	3
MATH 175--Analytic Geometry and Calculus I	4
MATH 275--Analytic Geometry and Calculus II	4
MATH 301--Elementary Linear Algebra; or MATH 308--Discrete Mathematics	3
MATH 300--Introduction to Mathematical Proof	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 374--Clinical and Field Experiences in the Teaching of Mathematics	3
MATH 471--Seminar	1
	36

In addition, the Department strongly recommends that teaching majors complete MATH 276 and both MATH 301 and MATH 308.

## Minor

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, Math 276, or other mathematics courses above 300 level except Math 330, Math 332, Math 354, Math 373, or Math 374 as approved by the Chair of the Department of Mathematical Sciences	13
	24

## Minor (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 365--Introduction to Mathematical Statistics	3
MATH 370--College Geometry I	3
MATH 373--Principles and Techniques of Teaching Mathematics	3
MATH 301--Elementary Linear Algebra; MATH 350--Introduction to Higher Algebra; or MATH 471--Seminar	1-3
	24-26

## Minor in Statistics

### OPTION I -- 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
	21

### OPTION II - 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
	21

## Mathematics and Computer Programming

**Faculty**--J. Boardman, V. Cyrus, B. Flora, J. Fryman, R. Hammons (Chair), L. Jaisingh, G. Johnston, T. Klein, E. Korntved, R. Lindahl, J. Mann, A. Martin, G. Nolen, T. Pack, R. Ross, J. Saxon, D. Seth

### Competencies Required in the Program

Students will be able to:

1. Analyze, model and solve problems in the areas of algebra, analysis, statistics and geometry.
2. Use the computer 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.
5. Develop oral and written communication skills.
6. Provide collaborative mathematics learning experiences.

### 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 teach mathematics at any level, (2) to apply mathematics in industry or government, or (3) to use mathematical techniques and concepts in their chosen fields.

### Area of Concentration in Mathematics and Computer Programming

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 301--Elementary Linear Algebra	3
MATH 300--Introduction to Mathematical Proof	3
MATH 308--Discrete Mathematics	3
MATH 312--Numerical Methods	3
MATH 365--Introduction to Mathematical Statistics	3
MATH 363--Differential Equations	3
CIS 201--Introduction to Computers	3
CIS 205--Structured C Programming	3
CIS 210--Computer Programming ASSEMBLER I	3
CIS 260--FORTRAN Programming	3
CIS 303--Data Structures Implemented in PASCAL	3
CIS 325--Analysis/Design of Computer Bus. Systems	3
CIS 426--Data Base Management Systems	3
Electives in physics, electronics, advanced data processing or mathematics as approved by the Chair of the Department of Mathematical Sciences	9
	63

## Department of Nursing and Allied Health Sciences

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Dr. Linda Salyer, Chair  
(606) 783-2632  
234 Reed Hall

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### Associate Degree Nursing

(606)783-2438  
204 Lloyd Cassity Bldg.

**Faculty**--C. Clevenger, M. Flaughner, J. Gross (Coordinator), L. Mays, S. Shires, B. Wilburn

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#### Competencies Required in the Program

Students will:

1. *Function as a provider of care by:*
  - a. *using the nursing process based on NANDA as a method of planning, providing, and evaluating nursing care for multiple patients with complex health needs and family/significant others in structured health care settings.*
  - b. *demonstrating safe performance of technical skills.*
  - c. *collaborating with other members of the health care team in the development and implementation of individualized teaching plans.*
  - d. *using interpersonal skills.*
  - e. *using complex technology in providing patient care.*
2. *Function as a manager of care by:*
  - a. *providing and organizing care based on NANDA to patients at any stage of the lifespan with complex alterations in health.*
  - b. *servicing as a patient advocate when providing care for patients with complex health needs.*
  - c. *delegating aspects of nursing care to other health care workers compatible with their educational preparation and expertise.*
3. *Function as a member within the discipline of nursing by:*
  - a. *assuming accountability for nursing practice at the associate degree level.*
  - b. *assuming individual accountability for continuing professional and educational development.*
  - c. *integrating historical, economic, and educational components of nursing into associate degree nursing practice.*
  - d. *incorporating ethical and legal standards of practice into associate degree nursing practice.*

#### Assessment Procedures

*Licensure examination pre-tests*  
*Licensure examinations*  
*Surveys of graduates*

### Associate of Applied Science (Two-Year Program)

The Associate Degree Nursing Program (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 Morehead State University through the university's Office of Admissions.
2. Submit a completed application packet to the Associate Degree Nursing Program:
  - A. Completed ADN application;
  - B. Official copy of high school transcript(s);
  - C. GED scores if applicable;
  - D. Official American College Test Scores (ACT) or CPP 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 challenge exam scores and verification of current license;
  - B. Nursing transfer students: in addition to the above materials, submit nursing course syllabi of the institution from which you wish to transfer credit.
4. Student selection process occurs during the spring semester preceding Fall admission.
5. Applicants reapplying to the ADN 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 must be submitted to the address listed below before February 1 preceding Fall admission:  
Associate Degree Nursing Program  
UPO 715, Morehead State University  
Morehead, Kentucky 40351-1689

### Admission Criteria

The Associate Degree Nursing Program has a limited enrollment. Applicants to the ADN program are selected based upon the following criteria:

1. American College Test (Enhanced ACT) Scores or CPP Scores.
  - A. Mandatory minimum composite score of 19
  - B. Preference will be given to ACT minimum subscores in the following order:
    - (1) Natural Sciences -- 20
    - (2) Social Sciences -- 17
    - (3) Math -- 19
    - (4) English -- 20
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 in required ADN program courses if completed before admission. A minimum of 9 semester hours of college credit in general education support courses required for the Associate Degree Nursing Program must be earned in order for college GPA to be considered. At least 3 of these 9 hours must be credit earned in a math or natural science course.
4. An interview by nursing faculty may be required for applicants who meet mandatory criteria but do not meet minimum preferred criteria. (See 1B and 2).
5. Evidence of current cardiopulmonary resuscitation (CPR) certification for BLS Course Level B.
6. Health and Physical Capability Requirements (Also required for retention -- At the discretion of faculty, a mental and physical re-evaluation may be asked for at any point in the program):
  - A. Physical capabilities:
    - (1) Vision capabilities:
      - (a) Normal or corrected refraction within the ranges of 20/20 to 20/190;
      - (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:  
Possess in at least one hand the ability to perceive temperature change and pulsations and to differentiate between various textures and structures.
  - (4) Language capabilities:  
Possess the ability to verbally communicate.
  - (5) Motor capabilities:  
Possess 4 functional limbs (normal or artificial) which allow the following actions:
    - (a) Grasp securely with at least one hand;
    - (b) Stand for long periods of time;
    - (c) Walk unassisted.
- 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 statement from a health department or physician of present status within immediate past 12 months
    - (b) Immunization as recommended by the advisory committee on Immunization Practices of the U.S. Public Health Services and the Committee on Infectious Diseases of the American Academy of Pediatrics.

**NOTE:** 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) upon completion of a thorough physical examination.

**NOTE:** 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 form and Department of Nursing and Allied Health Sciences Applicant Health Form are available in the department and it is the student's responsibility for obtaining these forms.

### 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 letters 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 Degree Nursing program. This cost includes clothing, equipment, malpractice insurance, and academic materials.



## Required Course Sequence for ADN Students

A total of 71 credit hours is required for the AAS degree which includes 35 credit hours of general education and support courses and 36 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 Associate Degree Nursing 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.

	Sem. Hrs.
<b>First Semester</b>	
NURA 100--Fundamentals of Nursing	6
PSY 154--Introduction to Psychology	3
MATH 135--Mathematics for Technical Students (or higher level Math)	3
BIOL 231--Human Anatomy	3
NUR 151--Interpersonal Skills for Health Promotion	2
	17
<b>Second Semester</b>	
NURA 101--Maternity Nursing	4
NURA 102--Mental Health Nursing	4
BIOL 232--Human Physiology	3
CHEM 101--Survey of General Chemistry	4
PSY 156--Life Span Psychology	3
	18
<b>Third Semester</b>	
NURA 203--Child Adult Nursing I	8
ENG 101--English Composition I	3
HS 201--Principles of Nutrition	3
BIOL 217--Elementary Medical Microbiology; or BIOL 317--Principles of Microbiology	4
	18
<b>Fourth Semester</b>	
NURA 204--Child Adult Nursing II	10
NURA 210--Nursing Issues and Trends for the Associate Degree Nurse	2
ENG 102--English Composition II	3
SOC 101--General Sociology	3
	18

\*\*After entry to the ADN Program, all nursing courses (NURA) must be taken in the required sequence listed.

## Bachelor of Science in Nursing

(606)783-2296  
234 Reed Hall

**Faculty**--A. Blair, J. Brumagen, D. Goldy, F. Kilburn, L. McNabb, D. Owen, B. Porter, P. Ramey, L. Salyer (Acting Coordinator), M. Skaggs, A. Tackett, M. White

### Competencies Required in the Program

Upon completion of the BSN program 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, lifespan, 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 care giver, 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 one's own professional practice and for continuing personal, professional and educational development.

### Assessment Procedures

Licensure examination pre-tests

Licensure examination

Survey of graduates

Survey of employers

## Bachelor of Sciences in Nursing (Four-Year Program)

The Baccalaureate Nursing Program (BSN) 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 BSN program also has a Registered Nurse (RN) track where graduates of associate degree and diploma nursing programs may pursue the BSN degree.

### Admission Requirements and Procedures

The BSN 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 g.p.a. will be accepted.

### Application Procedure

1. Be admitted to Morehead State University through the university's Office of Admissions.
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 BSN curriculum sequence.
3. Submit a completed application packet to the Baccalaureate Nursing Program. The application packet includes:
  - A. Completed BSN 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;
  - G. Validation of grades for required pre-nursing courses;
  - H. Official ACT or CPP scores
  - I. Verification of health and physical capabilities.
  - J. Validation of current CPR certification at C level (American Heart Association).
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 BSN program in the Fall semester of the sophomore year of the curriculum sequence.
7. In order to be considered for official admission to the generic BSN program, all materials except the health form must be submitted to the address below before March 1 preceding Fall admission to the program:
 

Baccalaureate Nursing Program  
Morehead State University  
UPO Box 715  
Morehead, Kentucky 40351-1689

### Admission Criteria

The Baccalaureate Nursing Program has a limited enrollment. Applicants to the BSN program are selected based upon the following criteria:

1. Completion of the 34 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 grade-point average of 2.5 or above (with no rounding) based on the required 34 credits;
4. Minimum composite score of 19 on enhanced ACT or CPP;

5. Current certification by the American Heart Association in cardiopulmonary resuscitation (CPR) at level C.
6. More than two course repeats due to failure(s) of pre-nursing courses (i.e., failure of more than two courses or failure of the same course more than twice) will result in ineligibility to apply.

**NOTE:** Exceptions will be made for students continuously enrolled full-time in the pre-nursing sequence of courses during the 1993-94 academic year and who continue as full-time pre-nursing students during the 1994-95 academic year. No exceptions will be made after the Fall 1995 admission to the sophomore curriculum of the BSN program.

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 grade-point average as outlined in criteria.

7. Meet the following health and physical capabilities requirements:
  - A. Physical capabilities:
    1. Vision capabilities:
      - a. Normal or corrected refraction within the ranges of 20/20 to 20/190;
      - 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: Possess in at least one hand the ability to perceive temperature changes and pulsations and to differentiate between various textures and structures.
    4. Language capabilities: Possess the ability to verbally communicate.
    5. Motor capabilities: Possess 4 functional limbs (normal or artificial) which allow the following actions:
      - a. Grasp securely with at least one hand;
      - b. Lift at least 20 pounds without assistance;
      - c. Stand for long periods of time;
      - d. Walk without assistance of canes, crutches, walkers and/or humans.
  - B. Mental Health Status: 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 statement from a health department or physician of present status within immediate past 12 months
2. Immunization as recommended by the advisory committee on Immunization Practices of the U.S. Public Health Services and the Committee on Infectious Diseases of the American Academy of Pediatrics.
3. Hold a minimum grade of a "C" in each of the required general education, support and nursing courses.
4. Possess a current certification by the American Heart Association cardiopulmonary resuscitation (CPR) at level C.
5. Complete challenge exams.
6. Meet the following health and physical capabilities requirements:

A. Physical capabilities:

1. Vision capabilities:
  - a. Normal or corrected refraction within the ranges of 20/20 to 20/190;
  - 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:  
Possess in at least one hand the ability to perceive temperature change and pulsations and to differentiate between various textures and structures.
4. Language capabilities:  
Possess the ability to verbally communicate.
5. Motor capabilities:  
Possess 4 functional limbs (normal or artificial) which allow the following actions:
  - a. Grasp securely with at least one hand;
  - b. Lift at least 20 pounds without assistance;
  - c. Stand for long periods of time;
  - d. Walk without assistance of canes, crutches, walkers and/or humans.

B. Mental Health Status:

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 statement from a health department or physician of present status within immediate past 12 months
2. Immunization as recommended by the Advisory Committee on Immunization Practices of the U.S. Public Health Services and the Committee on Infectious Diseases of the American Academy of Pediatrics.

**NOTE:** Any student may petition for additional consideration related to the health and physical capabilities requirements through the Office of the Dean of Sciences and Technology, located in 246 Reed Hall.

## BSN-RN Track Admission Requirements and Procedures

### Application Procedure (RNs)

1. Be admitted to Morehead State University through the Office of Admissions.
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 September 1 for admission into the spring semester:
  - A. Completed application form for BSN program;
  - B. Transcripts from all universities/colleges attended;
  - C. University undergraduate catalog(s) if transfer credit is sought;
  - D. Course syllabi for all nursing courses completed if transfer credit is sought;
  - E. Documentation of challenge exam scores;
  - F. Validation of current Kentucky nursing licensure;
  - G. Verification of health and physical capability;
  - H. Validation of current CPR certification at C level (AHA).
4. Required materials must be submitted prior to enrolling in the first clinical nursing course (i.e., NURB 254).

Baccalaureate Nursing Program - RN Track  
Morehead State University  
UPO Box 715  
Morehead, Kentucky 40351-1689

\*A Regional Coordinator for the BSN Program - RN Track is available at the Ashland Area and Big Sandy (Prestonsburg) Extended Campus Centers.

### Admission Criteria (RNs)

Applicants for the BSN program-RN track component must:

1. Hold a current Kentucky license to practice as a registered nurse.
2. Be a graduate of an Associate Degree Nursing or Diploma program.

Verification of health and physical capabilities is documented by the completion of the BSN Health Form by a licensed physician.

BSN Application Form and BSN Health Form are available in the Department of Nursing and Allied Health Sciences.

### 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 nursing program. This cost includes clothing, equipment, malpractice insurance and academic materials.

## Required Course Sequence for BSN Program

A total of 133 credit hours is required for the BSN degree which includes 67 credit hours of general education and support courses, 63 credit hours of nursing courses, and 3 credit hours of free electives. BSN program policies on challenge examination, transfer credit, academic standards and progression, and criteria for taking State Board Licensure Examination can be obtained from the Department of Nursing and 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 BSN program. The generic sequence follows:

### Freshman Year

#### First Semester

ENG 101--English Composition I	3
BIOL 231--Human Anatomy	3
PSY 154--Introduction to Psychology	3
MATH 135 or higher (except MATH 231 & 232)	3
CHEM 100 and CHEM 100L--Basic Chemistry; or CHEM 101 and 101L--Survey of General Chemistry	4
	16

#### Second Semester

Eng 102--English Composition	3
SOC 101--General Sociology	3
CHEM 201--Survey of Organic Chemistry and 201A	4
BIOL 232--Human Physiology	3
PSY 156--Life Span Psychology	3
NURB 152--Basic Concepts and Theories	2
	18

### Sophomore Year

#### First Semester

NURB 248--Basic Nursing Concepts I	4
NURB 249--Pharmacology	3
NURB 254--Health Assessment	3
BIOL 217--Elementary Medical Microbiology	4
	16

#### Second Semester

NURB 252--Basic Nursing Concepts II	4
NURB 253--Mental Health Nursing	4
BIOL 336--Pathophysiology	4
SOC 205--The Family	3
HS 201--Principles of Nutrition	3
	18

### Junior Year

#### First Semester

NURB 350--Nursing Care of the Childbearing Family	4
NURB 351--Nursing of Children	4
*ENG 202--Introduction to Literature;	
*ENG 211--Introduction to World Literature I;	
*ENG 212--Introduction to World Literature II	3

MATH 353--Statistics	3
*CIS 201--Introduction to Computers	3
	17

#### Second Semester

NURB 360--Adult Nursing	10
NURB 361--Introduction to Nursing Research	3
*Social Science Elective	3
	16

### Senior Year

#### First Semester

NURB 450--Community Health Nursing	4
NURB 451--Gerontologic Nursing	4
NURB 452--Teaching and Learning in Health Care	2
*SPCH 370--Business and Professional Speech	3
*Humanities elective	3
	16

#### Second Semester

NURB 461--Nursing Leadership and Management	3
NURB 469--Advanced Clinical Concepts	2
NURB 471--Issues and Trends in Nursing	2
NURB 495--Advanced Nursing Practicum	3
*Free elective	3
*Social Science Elective	3
	16

\*May be taken any semester in the program sequence.

**NOTE:** After entry into the BSN Program, all courses must be taken in the semester sequence listed. Exceptions to the curriculum sequence are listed with an (\*) beside the course (CIS 201, ENG 202, 211, 212, SPCH 370, Social Sciences and Humanities electives). NURB 361 and NURB 452 may be taken prior to the curriculum sequenced semester. The student may enroll in NURB 452 only if enrolled in a clinical nursing course other than NURB 248 and NURB 254. 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 Nursing Courses for the RN-Track

NURB 365--Concepts and Theories Basic to Professional Nursing for the RN Track Student	3
NURB 249--Pharmacology	3
NURB 254--Health Assessment	3
NURB 361--Introduction to Nursing Research	3
NURB 375--Transitional Courses	32
NURB 450--Community Health Nursing	4
NURB 451--Gerontologic Nursing	4
NURB 452--Teaching and Learning in Health Care	2
NURB 461--Nursing Leadership and Management	3
NURB 469--Advanced Clinical Concepts	2
NURB 471--Issues and Trends in Nursing	2
NURB 495--Advanced Nursing Practicum	3

**NOTE:** NURB 249\* and NURB 375\* have specified challenge exams.

\*Required to challenge prior to admission.

## Required Behavioral, Natural Sciences and Humanities Courses Required for the RN Track

ENG 101--English Composition	3
ENG 102--English Composition II	3
ENG 202--Introduction to Literature;	
ENG 211--Introduction to World Literature I;	
ENG 212--Introduction to World Literature II	3

SOC 101--General Sociology	3
SOC 205--The Family	3
CHEM 100 and CHEM 100L--Basic Chemistry; or CHEM 101 and 101L--Survey or General Chemistry	4
CHEM 201 and 201L--Survey or Organic Chemistry	4
MATH 135 or higher (except for MATH 231 and 232)	3
MATH 353--Statistics	3
PSY 154--Introduction to Psychology	3
PSY 156--Life Span Psychology	3
BIOL 217--Elementary Medical Microbiology	4
BIOL 231--Human Anatomy	3
BIOL 232--Human Physiology	3
BIOL 336--Pathophysiology	4
HS 201--Principles of Nutrition	3
CIS 201--Introduction to Computers	3
Humanities Elective	3
FNA 160--Appreciation of Fine Arts; any foreign language; ART 263--Introduction to Art History I; ART 264--Introduction to World History II; MUSH 161--Literature of Music I; MUSH 162--Literature of Music II; MUSH 261--Music Listening; MUSH 361--History of Music I; MUSH 362--History of Music II; THEA 100--Fundamentals of the Theatre; or THEA 110--Introduction to the Theatre	
Social Science Electives (3 credit hours from each cluster)	6
HIS 210--Early World History; HIS 110--Recent World History; HIS 220--Early American History; or HIS 120--Recent American History	
Economics 101--Introduction to the American Economy; or ECON 202--Principles of Economics II;	
GOVT 141--U. S. Government; GOVT 242--State and Local Government; or GOVT 362--Current World Problems;	
GEO 100--Fundamentals of Geography; GEO 211--Economic Geography; GEO 241--United States and Canada; or GEO 300--World Geography	
SPCH 370--Business and Professional Speech	3
Free Elective	3

**NOTE:** NURB 365 may be taken prior to official admission into the BSN program. All nursing courses must be taken in sequence with the exceptions of NURB 452 and NURB 361 which 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 for keeping abreast of changes in curriculum requirements and/or sequencing is shared by faculty and students.

## Radiologic Technology

(606)783-2646  
430 Reed Hall

**Faculty**--J. Darling (Coordinator), B. Dehner, C. Gibbs, R. Smith

### Competencies Required in the Program

Upon completion of the Associate Degree Radiologic Technology Program the graduate will be able to:

- Utilize interpersonal skills (verbal and non-verbal forms of communication) with patients, patients' families, colleagues, and other health care personnel.
- Use effective oral and written medical communication methods.
- Demonstrate knowledge of human structure, function, and pathology.
- Provide basic care and comfort measures for patients at any stage of life span who are receiving radiologic procedures.
- Utilize principles of body mechanics when transporting and moving patients or equipment.
- Perform basic mathematical functions utilized in the radiologic technology process.
- Operate radiographic imaging equipment and accessory devices utilized in the performance of radiologic procedures.
- Position the patient and imaging system so that appropriate anatomical structures are illustrated in the performance of entry level radiographic examinations and procedures.
- Modify standard radiologic procedures to accommodate patients at any stage of life span with various anatomical and physiological conditions.
- Process radiographs.
- Determine exposure factors to obtain diagnostic quality radiographs with minimum radiation exposure.
- Adapt exposure factors for various patients conditions, equipment, accessories, and contrast media to maintain appropriate radiographic quality.
- Practice radiation protection for the patient, self, and others.
- Recognize emergency patient conditions and initiate first aid and basic life-support procedures.
- Evaluate radiographic images for appropriate positioning and image quality.
- Evaluate the performance of radiographic systems in relation to safe limits of equipment operation and reporting malfunctions to the proper authority.
- Demonstrate knowledge and skill relating to radiologic quality assurance practices.
- Participate as a member of the health care team.
- Exercise independent judgement and discretion in the technical performance of medical imaging and procedures.
- Apply the legal and ethical accountability for the quality of radiologic services administered.
- Assume legal and ethical accountability for the quality of radiologic services administered.
- Assume responsibility for own self-development and continued learning within the profession.

### Assessment Procedures

Survey of graduates  
Survey of employers



*Monitoring of licensure examinations  
Evaluation by advisory committee*

## Associate of Applied Science (Two-Year Program)

The Joint Review Committee on Education in Radiologic Technology accredited associate degree Radiologic Technology Program (Rad Tech) is designed to prepare individuals for entry into the health care profession of radiologic technology.

Students accepted into the Rad Tech Program must spend a minimum of 24 months enrolled in the program. Students spend 50% of their time fulfilling clinical education requirements and gaining "hands on" clinical experience in hospitals associated with the program. The Rad Tech Program is currently affiliated with the following twelve hospitals: ARH Regional Medical Center in Hazard, Ky.; Good Samaritan Hospital in Lexington, Ky.; HCA King's Daughters Hospital in Frankfort, Ky.; Highlands Regional Medical Center in Prestonsburg, Ky.; Lake Cumberland Medical Center in Somerset, Ky.; Three Rivers Hospital in Louisa, Ky.; Mary Chiles Hospital in Mount Sterling, Ky.; Meadowview Regional Hospital in Maysville, Ky.; Methodist Hospital of Kentucky in Pikeville, Ky.; Morgan County Appalachian Regional Hospital in West Liberty, Ky.; Pattie A. Clay Memorial Hospital in Richmond, Ky.; and Saint Claire Medical Center in Morehead, Ky.

Qualified graduates are eligible to apply for the American Registry of Radiologic Technologists' national certification examination.

### Admission Requirements and Procedures for Radiologic Technology Program

All high school graduates and individuals with a GED certificate may apply for admission to the Associate Degree Radiologic Technology Program. The Radiologic Technology Program has a selective admission policy that is separate from, and in addition to, the University's admission procedure. Admission to the University does not guarantee admission to the Radiologic Technology Program. Enrollment in the Radiologic Technology Program will not exceed 50 students per year. The application procedure and admission criteria for the Radiologic Technology program are as follows:

#### Application Procedure

1. Apply to Morehead State University through the university's Office of Admissions.
2. Submit required materials listed below to the Radiologic Technology Program by March 1.
  - A. Complete Radiologic Technology Application Form
  - \*B. Copy of American College Test Scores (ACT) or equivalent (i.e. CPP or SAT)

- C. Copy of high school transcript, showing date of graduation and the overall grade point average based upon a 4.00 scale or GED scores showing date of passage. (If applicant is still in high school, transcripts must include all grades earned through Fall semester of the senior year and the overall grade point average based upon 4.00 scale.) (If accepted, the completed high school transcript must be submitted as soon as available.)
- D. Copy of transcripts from all colleges attended.
- \*\*E. Completed physician's statement of applicant's health and physical capabilities status.
- \*\*F. Documentation of at least four (4) hours of observation in a JCAHO accredited hospital's radiology department.

\*Applicants may contact the Morehead State University's Testing and Evaluation Center, Room 501, Ginger Hall at (606) 783-2526 for information about the American College Test (ACT).

\*\*Sections E and F are not to be completed until the applicant has passed the Radiologic Technology academic portion of the admissions procedure.

3. Applicants reapplying to the Associate Degree Radiologic Technology Program must submit new application and/or updated application materials to be reconsidered for program admission.
4. To be considered for admission to the Radiologic Technology Program all materials must be submitted to the following address by March 1 preceding Fall admission:

Radiologic Technology Program  
Morehead State University  
UPO 784  
Morehead, Kentucky 40351-1689

### Admission Criteria:

Applicants to the Associate Degree Radiologic Technology program are selected based on the following admission criteria: **(NOTE: Applicants must meet criteria I or II. After receiving a letter of conditional acceptance for the program, applicant must meet criteria III and IV.**

- I. American College Test, (Enhanced ACT scores) or equivalent test scores,
  - A. Mandatory minimum composite score of 19 and
  - B. Must have a "B" (3.0 on 4.0 scale) average in high school or GED validation, if applicable, if the standard score is 50 or above.
  - C. Upon receipt of a conditional acceptance to the Rad Tech Program, a health form will be sent to you. The health form must be returned totally complete by the published deadline. An incomplete health form may result in a student not receiving final acceptance into the program due to other pending applications. Also, if accepted conditionally due to an incomplete



high school transcript, this transcript must be submitted as soon as possible.

- II. American College Test or Enhanced ACT Scores/or equivalent test scores,
- Mandatory minimum composite score of 19 and
  - Must have a GPA of 2.5 on a scale of 4.0 in required Radiologic Technology program courses if completed before the admissions period. A minimum of 8 semester hours of college credit in general education and support courses required for the Associate Degree Radiologic Technology Program must be earned in order for college GPA to be considered. (These courses are denoted by asterick\* in the Rad Tech curriculum requirement and course sequence.) At least 3 of these hours must be earned in the math or natural science courses listed. Also, the overall college GPA must be 2.0 or above.
  - Students must have at least a "C" in all support and general education courses that are required by the Rad Tech Program, even if these courses are not used to determine the GPA on 8 hours as stated previously.
  - Upon receipt of a conditional acceptance to the Rad Tech Program, a health form will be sent to you. The health form must be returned totally complete by the published deadline. An incomplete health form may result in a student not receiving final acceptance into the program due to other pending applications. Also, if accepted conditionally due to an incomplete high school transcript, this transcript must be submitted as soon as possible.

**NOTE:** Criteria III and IV to be completed **ONLY** following receipt of a letter of conditional acceptance by the program.

- III. Rad Tech Observation Requirement: Complete at least a four (4) hour observation period in the Radiology Department of a hospital accredited by the Joint Commission on Accreditation of Healthcare Organizations (JCAHO).

**NOTE:** Documentation of meeting the observation requirement must be verified by one of the administrative personnel in the selected Radiology Department. Applicants who do not complete the stated observation requirement will not be admitted to the Radiologic Technology Program.

- IV. **Health and Physical Capabilities Requirement:** Verification that the applicant meets the health and physical capability requirements as documented by a licensed physician(s) upon completion of a thorough physical examination. Applicants who do not meet the stated health requirements will not be admitted to the Radiologic Technology Program.

A copy of the Health and Physical Capabilities Requirements is available in Radiologic Technology Program's Application Brochure. The brochure may be obtained by contacting the program office or phoning (606) 783-2646 or 783-5175.

## Fees and Expenses

Fees and expenses specific to the Radiologic Technology Program are in addition to those required by the university. These are subject to change without prior notification. The following fees to be paid by the student, will be collected by the program:

- 1st Semester--\$8.00 Radiologic film markers fee; \$1.00 dosimeter set-up fee; \$10.00 dosimeter service fee; \$15.00 liability insurance fee; \$20.00 CPR fee (given as department C.E. offering).
- 2nd Semester--\$10.00 dosimeter service fee.
- 3rd Semester--\$10.00 dosimeter service fee; \$15.00 liability insurance fee.
- 4th Semester--\$20.00 CPR fee; \$10.00 dosimeter service fee; \$13.00 class picture fee; and \$2.00 radiation termination report.

Other expenses students are responsible for: the purchase of white uniform; white hose (if applicable), white clinical shoes, white lab coat, program patches for each uniform and an identification name pin (the latter is available from the University Store); and all housing and transportation expenses incurred during clinical internship assignments. Also, the national certification examination, given by the American Registry of Radiologic Technologists following graduation from the RT program, requires an application fee, and any student dosimeters lost or damaged require a \$2.00 replacement fee. Optional fees include: the purchase of a school pin upon graduation and additional graduation announcements.

## Program Requirements

All RAD courses and the NAHS 202, BIOL 231, and BIOL 232 courses must be taken in sequence as listed. Rad Tech program policies on pregnancy and academic standards and progression, can be obtained from the program office.

### First Semester

RAD 106--Patient Care Procedures	2
RAD 110--Radiographic Anatomy and Positioning I	4
RAD 119--Imaging, Exposure, and Radiologic Technology Practice	3
NAHS 202--Medical Terminology	2
MATH 135--Mathematics for Technical Students or higher Math with the exception of MATH 231 or 232	3
BIOL 231--Human Anatomy	3
	17

### Second Semester

RAD 130--Clinical Internship I	10
RAD 132--Concepts in Radiologic Technology	2
	12

**First Summer Session**

RAD 210--Radiographic Anatomy and Positioning II . . . . .	3
ENG 101--Composition I . . . . .	3
	6

**Second Summer Session**

RAD 215--Radiation Biology and Protection . . . . .	3
ENG 192--Technical Composition; or	
ENG 102--Composition II . . . . .	3
	6

**Third Semester**

RAD 230--Clinical Internship II . . . . .	10
RAD 232--Imaging Sectional Anatomy . . . . .	2
	12

**Four Semester**

RAD 305--Advanced Diagnostic Imaging Practices . . . . .	3
RAD 310--Radiographic Anatomy and Positioning III . . . . .	3
RAD 315--Radiation Physics and Electronics . . . . .	2
RAD 319--Advanced Radiologic Procedures . . . . .	2
RAD 322--Radiologic Pathology . . . . .	2
BIOL 232--Human Physiology . . . . .	3
PSY 154--Introduction to Psychology . . . . .	3
	18

**Third Summer Session**

RAD 330--Clinical Internship III . . . . .	4
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**Fourth Summer Session**

RAD 340--Clinical Internship IV . . . . .	3
RAD 341--Seminar of Radiologic Technology . . . . .	1
	4

TOTAL 79

## Department of Physical Sciences

Dr. J. Dudley Herron, Chair  
(606) 783-2914  
123 Lappin Hall

### Chemistry

**Faculty**--M. Adams, D. Adsmoind, Z. Barnes, H. Cain,  
H. Hedgecock, J. Herron (chair), R. Hunt

#### Competencies Required in the Program

The student will:

1. Develop enough learning techniques to adapt to new vocational and educational situations, i.e., be able to educate themselves in new applied areas and keep up with progress in the field.
2. Develop enough self confidence, personal independence and understanding of scientific method 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 on technical material in a clear and logical way.
5. Present oral reports on technical material in a clear and logical way.
6. Be able to retrieve any needed information from the scientific literature.
7. Analyze laboratory data for its correctness and locate probable sources of error, including an understanding of standard statistical tests and the concepts of error and uncertainty, and an understanding of the advantages and limitations of current instrumental and other laboratory techniques.
8. Be able to use the basic principles of chemistry as presented in the first year class in a wide variety of contexts, especially the relation of microscopic physical picture to bulk chemical behavior. Be able to relate scientific principles to observed behavior.
9. Comprehend the major systems of nomenclature used in chemistry and know enough about the basic functional groups of inorganic and organic chemistry to have a primitive vocabulary of basic types of chemical reactions and to be able to use this to make rational chemical predictions.

#### Assessment Procedures

Performance of graduates on entrance examinations  
Performance of graduates in professional schools  
Surveys of graduates  
Surveys of employers

The Chemistry program attempts (1) to educate students both in chemical theory and in laboratory

techniques to the degree required for professional chemists to support other career objectives; (2) to prepare students to enter graduate school; (3) to prepare chemistry teachers for the public schools; or (4) to offer supportive courses needed by students in other disciplines.

### Bachelor of Science

#### Area of Concentration

Students who plan to become professional chemists or attend graduate school should complete the following courses:

	Sem. Hrs.
CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4
BIOL 171--Principles of Biology	4
MATH 175--Analytic Geometry and Calculus I	4
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
MATH 275--Analytic Geometry and Calculus II	4
MATH 276--Analytic Geometry and Calculus III	4
CHEM 326--Organic Chemistry I	4
CHEM 327--Organic Chemistry II	4
CHEM 340--Chemical Information	3
CHEM 351--Inorganic Chemistry I	2
CHEM 360--Analytical Chemistry I	4
CHEM 441--Physical Chemistry I	3
CHEM 442--Physical Chemistry II	4
CHEM 451--Inorganic Chemistry II	3
CHEM 460--Analytic Chemistry II	4
SCI 470--Senior Thesis I	1
SCI 471--Senior Thesis II	1
	67

For students who plan to go to a graduate school, a reading knowledge of a foreign language is usually required. Two semesters of German, Russian, or French are recommended. For students who plan to enter an industrial position directly on graduation, co-operative study is recommended. BIOL 595, BIOL 596, and CHEM 450 are recommended for all students in this program. This curriculum is designed to meet the standards of the American Chemical Society when completed in conjunction with advice from the chemistry advisor.

#### Non-Teaching Major\*

Students who plan to become scientists or science-related professionals requiring a strong background in chemistry *plus* another discipline should complete the course sequence that follows. Requirements for the teaching major are listed under "Secondary Science Teaching."

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 351--Inorganic Chemistry	2
CHEM--Upper division electives approved by	

chemistry advisor	14
	32

\*At least 50% of the coursework in the major must be taken in residency.

## Supplemental Requirements

BIOL 105--Introduction to Biological Science or Higher; (BIOL 171, Principles of Biology, is recommended)	3-4
MATH 152--College Algebra or equivalent	3
PHYS 201--Elementary Physics I and PHYS 201A--Lab (or equivalent)	4
PHYS 202--Elementary Physics II and PHYS 202A--Lab (or equivalent)	4
	14-17

All students in this program must complete the necessary prerequisite for these courses.

## Non-Teaching Minor

Requirements for the teaching minor are listed under "Secondary Science Teaching."

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--Upper division electives approved by chemistry advisor	5
	21

## Geology

Faculty--D. Hylbert, C. Mason, J. Philley, S. Reid

### Competencies Required in the Program

Students will be:

1. Trained for a career as a professional geologist in county, state, and federal agencies and in industry.
2. Prepared for graduate studies in geology.

### Assessment Procedures

Performance of graduates on entrance examinations  
Performance of graduates in professional schools  
Survey of graduates  
Survey of employers

## Bachelor of Science

### Area of Concentration (Non-Teaching)

GEOS 100--Physical Geology	1
GEOS 107--Introduction to Geoscience	3
GEOS 201--Historical Geology	3
GEOS 262--Mineralogy	4
GEOS 276--Geologic Methods	3
GEOS 300--Petrology	4
GEOS 315--Stratigraphy and Sedimentation	4
GEOS 325--Structural Geology*	4
GEOS 379--Invertebrate Paleontology	4
GEOS 420--Optical Mineralogy	3
SCI 470--Senior Thesis I	1
SCI 471--Senior Thesis II	1
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 Laboratory	1
PHYS 202--Elementary Physics II	3
PHYS 202A--Elementary Physics II Laboratory	1
MATH 175--Analytic Geometry and Calculus I	4
BIOL 171--Principles of Biology	4
CIS 202--Computer Programming BASIC; or MATH 353--Statistics	3
*Attendance at an approved summer geology field camp	6
	68

## Major (Non-Teaching)

GEOS 100--Physical Geology	1
GEOS 107--Introduction to Geoscience	3
GEOS 201--Historical Geology	3
GEOS 262--Mineralogy	4
GEOS 276--Geologic Methods	3
GEOS 300--Petrology	3
GEOS 315--Stratigraphy and Sedimentation	4
GEOS 325--Structural Geology	4
GEOS 379--Invertebrate Paleontology	4
SCI 470--Senior Thesis I	1
SCI 471--Senior Thesis II	1
	32

## Supplemental Requirements\*

BIOL 210--General Zoology	4
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 approved by advisor	6-8
	26-28

Students are also urged to take MATH 175, CIS 202 or 260 and a summer geology field camp.

\*However, students who do not plan to attend graduate school may waive, or make substitutions for, the supplemental requirements; approval by the advisor is required.

## Minor (Non-Teaching)

Requirements for the teaching minor are listed under "Secondary Science Teaching."

GEOS 100--Physical Geology	1
GEOS 107--Introduction to Geoscience	3
GEOS 201--Historical Geology	3
GEOS 262--Mineralogy	4
GEOS 410--Geologic History of Plants and Animals	3
GEOS--electives approved by advisor	7
	21

## Integrated Science

Faculty--R. Boram, M. Esham, R. Field, B. Malphrus

## Minor (Non-Teaching)\*

SCI 103--Introduction to Physical Sciences (or equivalent)	3
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BIOL 105--Introduction to Biological Sciences (or equivalent) . . . . .	3
Electives approved by the advisor . . . . .	18
	24

\*The minor in integrated science, a non-teaching minor, should be evenly distributed between the biological sciences and the physical sciences.

## Physics

Faculty--R. Brengelman, D. Cutts, C. Whidden

### Competencies Required in the Program

1. The graduates will be satisfactorily employed or attending graduate school. On an annual basis no more than one graduate student should be unemployed per graduating class.
2. The student will take an adequate number of courses to have a broad understanding of the core physics.
3. Students will gain experience as student assistants in the sophomore lab.
4. The graduate will be capable of independent thinking.

### Assessment Procedures

Performance of graduates on entrance examinations  
Performance of graduate in professional schools  
Survey of graduates  
Survey of employers

## Bachelor of Science

The physics program: (1) provides a complete undergraduate program which has enough flexibility to permit its graduates to pursue careers as professional physicists in industry; (2) enables students to pursue graduate degrees in pure and applied physics; or, (3) provides supportive courses for students in other programs such as applied sciences, biology, chemistry, geology, mathematics, and the pre-professional programs.

### Major (Non-Teaching)

Requirements for the teaching major are listed under "Secondary Science Teaching."

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
PHYS 353--Concepts of Modern Physics . . . . .	4
PHYS--electives approved by advisor*, ** . . . . .	16
SCI 470--Senior Thesis I . . . . .	1
SCI 471--Senior Thesis II . . . . .	1

### Supplemental Requirements

CHEM 111--Principles of Chemistry I . . . . .	4
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CHEM 112--Principles of Chemistry II . . . . .	4
MATH 175--Calculus I . . . . .	4
MATH 275--Calculus II . . . . .	4
MATH 276--Calculus III . . . . .	4
MATH 300 or higher elective approved by advisor . . . . .	3
	23

\*Students planning to do graduate work in physics should, as a minimum preparation, take PHYS 332, 340, 391, 411, 481, and 493.

\*\*Students desiring an emphasis in applied physics or engineering should consider choosing from PHYS 211, 221, 332, 340, 361, 381, 391, 411, and 481.

### Minor

Requirements for the teaching major are listed under "Secondary Science Teaching."

PHYS 231--Engineering Physics I . . . . .	4
PHYS 231A--Engineering Physics I Laboratory . . . . .	1
PHYS 232--Engineering Physics II . . . . .	4
PHYS 232A--Engineering Physics II Laboratory . . . . .	1
and	
PHYS 350--Nuclear Science . . . . .	4
PHYS--electives, approved by advisor . . . . .	7
	21

## Pre-Engineering

Faculty--R. Brengelman, D. Cutts, C. Whidden

### Two-Two Program (Transfer)

The student spends two years of study in pre-engineering at Morehead State University and then transfers to a college of engineering to complete a Bachelor of Science degree in an engineering field.

### Requirements

MATH 175--Calculus I . . . . .	4
MATH 275--Calculus II . . . . .	4
MATH 276--Calculus III . . . . .	4
MATH 363--Differential Equations . . . . .	3
CHEM 111--Principles of Chemistry I . . . . .	4
CHEM 112--Principles of Chemistry II . . . . .	4
ENG 101--Composition I . . . . .	3
ENG 102--Composition II . . . . .	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
SPCH 110--Basic Speech . . . . .	3
Elect two courses from the following	
MATH 260--FORTRAN . . . . .	3
PHYS 221--Statics . . . . .	3
PHYS 411--Thermodynamics . . . . .	3
	48

General Education Courses . . . . . 16

\*All engineering schools require specific general education courses in the social sciences and humanities. A list of MSU courses which meet UK University Studies requirements is available from the pre-engineering advisor. Students transferring to other engineering schools should contact the advisor before selecting specific courses.



## Three-Two Program (Dual Degree)

The student completes three years (96 hrs.) which include the courses listed in the Two-Two program of study and the Morehead State University 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 B.S. degree in physics or mathematics or chemistry or the Bachelor of University Studies in physical sciences 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. Consult the advisor for details.

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

**Faculty**--R. Brengelman, D. Cutts, C. Whidden

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. 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

ENG 101--Composition I	3
ENG 102--Composition II	3
CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4
CHEM 326--Organic Chemistry I	4
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
MATH 175--Calculus I	4
MATH 353--Statistics	3
PHYS 201--Elementary Physics I	3
PHYS 201A--Elementary Physics I Laboratory	1

PHYS 202--Elementary Physics II	3
PHYS 202A--Elementary Physics II Laboratory	1
PSY elective	3
Social Science electives	6
	60

Acceptance into optometry school depends largely upon academic performance. Therefore the student considering this program should have a strong high school background in science and mathematics.

The core courses represent common requirements among schools of optometry. Specific schools have additional requirements.

The students receiving a bachelor's degree from Morehead State University must complete the requirements for graduation found in the Undergraduate Catalog. Consult the advisor for additional information.

## Secondary Science Teaching

*Advisor: Check with appropriate departmental office.*

### Area of Concentration (Science Teaching)

A student can become certified as a secondary science teacher by completing a Bachelor of Science degree with an area of concentration in science. The student is required to complete the core of courses listed in part A as well as an emphasis in biology, chemistry, earth science, or physics as presented in part B. In addition, the student will be expected to complete the mathematics curriculum listed in part C. The student must also complete the Teacher Education Program discussed elsewhere in this catalog. The student is certified in the emphasis chosen as well as in general science and interdisciplinary sciences. Further certification is obtained by the completion of additional emphases.

### Part A -- The Core

#### Biology

BIOL 171--Principles of Biology	4
BIOL 210--General Zoology; or BIOL 215--General Botany	4

#### Chemistry

CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4

#### Earth Science

GEOS 100--Physical Geology	1
GEOS 107--Introduction to Geoscience	3
GEOS 201--Historical Geology; or GEOS 410--Geological History of Plants and Animals	3

#### Physics

PHYS 201--Elementary Physics I	
PHYS 201A--Elementary Physics I Lab or PHYS 231--Engineering Physics I	4

PHYS 231A--Engineering Physics I Lab and PHYS 202--Elementary Physics II PHYS 202A--Elementary Physics II Lab or PHYS 232--Engineering Physics II PHYS 232A--Engineering Physics II Lab	5 4 5
<b>Science</b>	
SCI 592--Science for the Secondary Teacher; or BIOL 485--Methods of Teaching Biology	3
<b>Computer Science</b>	
CIS 201--Introduction to Computers; or Equivalent	3
	37-39

## Part B -- Choice of Emphasis

<b>Biology</b>	
BIOL 100--Orientation to Biological and Environmental Sciences	1
*BIOL 210--General Zoology; or *BIOL 215--General Botany	4
BIOL 304--Genetics	3
BIOL 317--Principles of Microbiology	4
BIOL 380--Cell Biology	3
BIOL 461--Ecology	3
BIOL 425--Animal Physiology; or BIOL 426--Plant Physiology	3
**Advanced biology electives	9
Total biology emphasis	30

\*Whichever was not taken as part of "The Core."

\*\*A minimum of three courses to be selected from the list of courses (core and elective) acceptable for the teaching major in biology (See the teaching major listed on pg. 143.)

### Chemistry (minimum 15 sem. hrs.)

CHEM 326--Organic Chemistry I	4
CHEM 351--Inorganic Chemistry I	2
CHEM 360--Analytic Chemistry I	4
Elect from the following:	
CHEM 327--Organic Chemistry II	4
CHEM 328--Organic Chemistry III	3
CHEM 441--Physical Chemistry I	3
CHEM 450--Qualitative Organic Analysis	4
CHEM 451--Advanced Inorganic Chemistry	3
CHEM 460--Analytical Chemistry II	4

### Earth Science (minimum 15 sem. hrs.)

GEOS 240--Oceans	3
GEOS 262--Mineralogy	4
GEOS 276--Geologic Methods	3

Elect from the following:

GEOS 200--Coal Mining Geology	3
GEOS 300--Petrology	3
GEOS 301--Economic Geology	3
GEOS 315--Stratigraphy and Sedimentation	4
GEOS 325--Structural Geology	3
GEOS 350--Geomorphology	3
GEOS 376--Environmental Geology	3
GEOS 379--Invertebrate Paleontology	4
GEOS 410--Geological History of Plants and Animals	3

### Physics (minimum 15 sem. hrs.)

PHYS 350--Nuclear Science	4
Elect from the following:	
PHYS 221--Statics	3

PHYS 320--The Science of Music	3
PHYS 332--Electricity and Magnetism	4
PHYS 340--Experimental Physics	3
PHYS 353--Concepts of Modern Physics	4
PHYS 361--Fundamentals of Electronics	3
PHYS 391--Dynamics	3
PHYS 410--Solid State Physics	3
PHYS 411--Thermodynamics	3
PHYS 452--Nuclear Physics	3
PHYS 481--Mathematical Physics	3
PHYS 493--Quantum Mechanics	3

## Part C -- Supplemental Requirements in Mathematics

Students who seek certification with an area of concentration in science must complete the following mathematics requirements:

One course from the following:

MATH 152--College Algebra	3
MATH 174--Pre-Calculus	3
MATH 175--Analytic Geometry and Calculus I	4

Also one course from the following:

MATH 141--Plane Trigonometry	3
MATH 174--Pre-Calculus	3
MATH 275--Analytic Geometry and Calculus II	4
MATH 353--Statistics	3
	6-8

## Area of Concentration

### Mathematics-Physical Science (Teaching)

A student can become certified as a secondary teacher of mathematics, chemistry, physics, and various integrated sciences, including general science by completing a Bachelor of Science degree with an area of concentration in mathematics-physical science. The student is required to complete the program that follows. The student must also complete the Teacher Education Program discussed elsewhere in this catalog.

#### Chemistry (16 semester hours)

CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4
CHEM 326--Organic Chemistry I	4
CHEM 360--Analytic Chemistry I	4

#### Mathematics (18 semester hours)

MATH 175--Analytic Geometry and Calculus I	4
MATH 275--Analytic Geometry and Calculus II	4
MATH 353--Statistics	3
MATH 370--College Geometry	3
MATH 373--Principles and Techniques of Mathematics	3
MATH 471--Seminar	1

#### Physics (minimum 16 hours)

##### Algebra Based

PHYS 201--Elementary Physics I	3
PHYS 201A--Elementary Physics I Laboratory	1
PHYS 202--Elementary Physics II	3
PHYS 202A--Elementary Physics II Laboratory	1
PHYS 350--Nuclear Science	4
PHYS 300 or higher--approved elective	4

Calculus Based	
PHYS 231--Engineering Physics I	4
PHYS 231A--Engineering Physics I Laboratory	1
PHYS 232--Engineering Physics II	4
PHYS 232A--Engineering Physics I Laboratory	1
PHYS 350--Nuclear Science	4
PHYS 300 or higher--approved elective	2

#### Supplemental Requirement (4 hrs.)

BIOL 171--Principles of Biology	4
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### Majors (Teaching)

A student can receive certification by completing a Bachelor of Science degree with a major in chemistry, mathematics, or physics. With the exception of mathematics, certification is no longer granted with a minor in this list of disciplines unless a major in one of the other natural science disciplines is completed. Further certification can also be obtained through the completion of a second major from the list or through other majors or minors as suggested by an advisor. In addition, the student must complete the requirements listed under the Teacher Education Program.

### Chemistry\*

Students who wish to become certified in chemistry at the secondary level are expected to complete the sequence of courses listed below:

CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4
CHEM 326--Organic Chemistry I	4
CHEM 351--Inorganic Chemistry I	2
CHEM 360--Analytical Chemistry I	4
CHEM--Approved electives beyond CHEM 300	14
	32

\*At least 50% of the coursework in the major must be taken in residency.

### Supplemental Requirements

BIOL 105--Introduction to Biological Science or higher: (BIOL 171, Principles of Biology, is recommended)	3-4
MATH 152--College Algebra or equivalent	3
PHYS 201-201A--Elementary Physics I and Lab (or equivalent)	4
PHYS 202-202A--Elementary Physics II and Lab (or equivalent)	4
SCI 592--Science for the Secondary Teacher	3
	17-18

### Physics\*

Students who wish to become certified in physics at the secondary level are expected to complete the sequence of courses listed below:

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
PHYS 350--Nuclear Science	4
PHYS 352--Concepts of Modern Physics	3
PHYS 361--Fundamentals of Electronics	3
PHYS--Approved elective	3-4

PHYS--Approved elective	3-4
PHYS--Approved elective	3-4
PHYS--Approved elective	3-4
	32

\*At least 50% of the coursework in the major must be taken in residency.

### Supplemental Requirements

BIOL 105--Introduction to Biological Sciences (or higher)	3-4
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
SCI 592--Science for the Secondary Teacher (MATH 363--Differential Equations recommended also.)	3

26-30

### Minors (Teaching)

A student can receive a certifiable teaching minor in chemistry, earth science, mathematics, and physics. With the exception of mathematics, the minor must be complemented by a major in a natural science. As stated under Area of Concentration and Teaching Majors above, the student must also complete the requirements of the Teacher Education Program listed elsewhere in this catalog.

### Chemistry\*

CHEM 111--Principles of Chemistry I	4
CHEM 112--Principles of Chemistry II	4
CHEM 326--Organic Chemistry I (or approved elective)	3-4
CHEM 351--Inorganic Chemistry I (or approved elective)	3-4
CHEM 441--Physical Chemistry I (or approved elective)	3-4
CHEM--electives approved by advisor	5-8
	23

### Earth Science\*

GEOS 100--Physical Geology	1
GEOS 107--Introduction to Geoscience; or SCI 570--Earth Science	3
GEOS 201--Historical Geology	3
SCI 200--Descriptive Astronomy	3
GEO 390--Weather and Climate	3
GEOS 410--Geological History of Plants and Animals	3
GEOS--electives approved by advisor	7
	23

### Physics\*

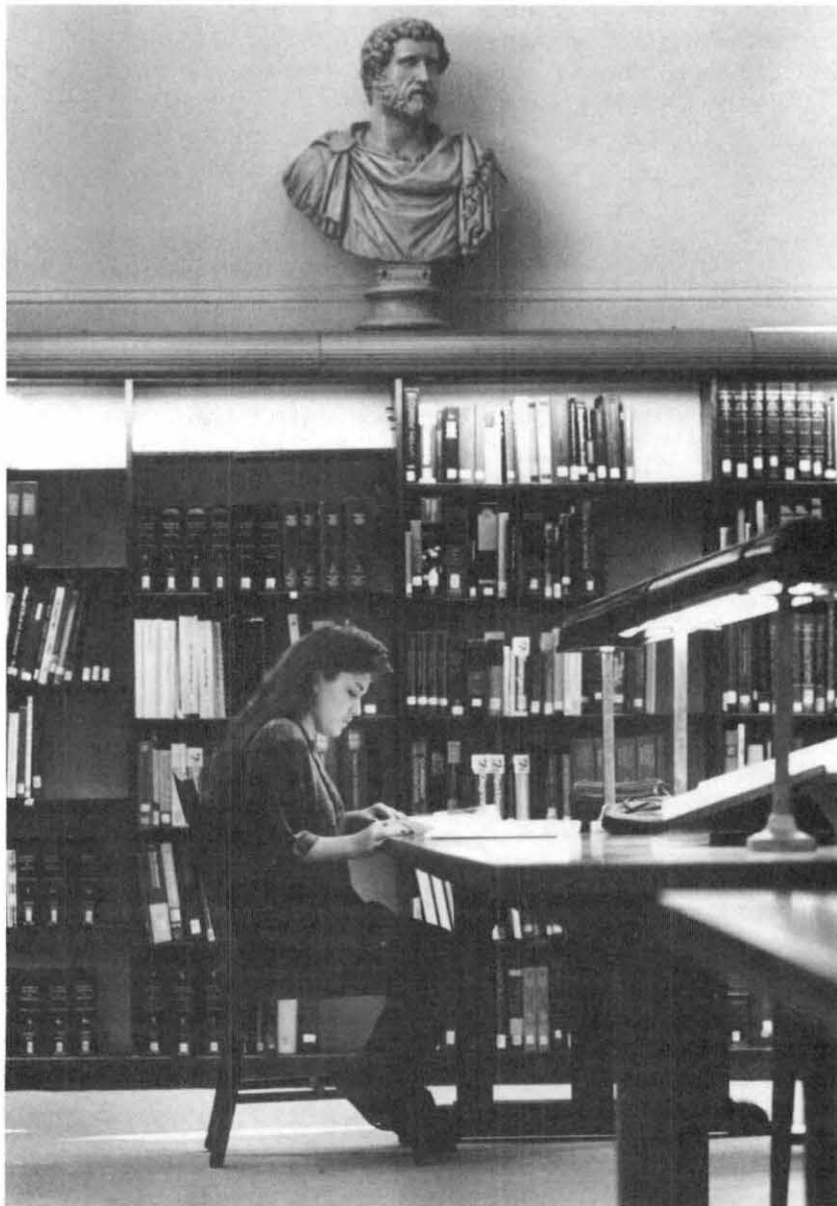
PHYS 231--Engineering Physics I	4
PHYS 231A--Engineering Physics I Lab	1
PHYS 232--Engineering Physics II	4
PHYS 232A--Engineering Physics II Lab	1
PHYS--electives approved by advisor	13
	23

\* (1) Approved electives for each minor must include at least six semester hours of 300- or 400-level courses.

\* (2) A teaching minor **must** be accompanied by a teaching major in the natural sciences, including mathematics.

## 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.





## Accounting

**ACCT 139. Cooperative Education I.** (1 to 8 hrs.); on demand. *Permission of department chair required.* Work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course. Not available for option credit.

**ACCT 199. Selected Workshop Topics.** (1 to 4 hrs.); on demand. Periodic workshops on various accounting subjects are designed to supplement the basic course offerings in accounting. Credit toward degree programs must be approved by the student's advisor and the department chair.

**ACCT 239. Cooperative Education II.** (1 to 8 hrs.); on demand. *Permission of department chair required.* Work experience with an extension of exposure gained in ACCT 139 or of a nature similar to a sophomore status course. Not available for option credit.

**ACCT 281. Principles of Accounting I.** (3-0-3); I, II. Meaning and purpose of accounting; the balance sheet, the income statement, books of original entry, special journals, adjusting and closing entries, controlling accounts, notes, interest, inventory, accounts receivable, fixed assets.

**ACCT 282. Principles of Accounting II.** (3-0-3); I, II. *Prerequisite: ACCT 281.* Payroll; corporate accounts, ownership equity, and earnings; financial reporting; manufacturing accounting; funds flow analysis; interpretation of financial statements; managerial analysis.

**ACCT 300. Managerial Accounting.** (3-0-3); on demand. *Prerequisite: ACCT 282.* Analysis of cost data; manufacturing and cost analysis, budgets, managerial decision-making analysis. Not available for option credit for accounting majors.

**ACCT 339. Cooperative Study III.** (1 to 8 hrs.); on demand. *Permission of department chair 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 384. Intermediate Accounting I.** (3-0-3); I, II. *Prerequisite: ACCT 282.* Fundamental accounting procedures, the accounting procedures, the accounting cycle, financial position, measurement of costs, revenues, and expenses, analysis of cash, temporary investments receivables, inventory, investments, plant and equipment, intangibles.

**ACCT 385. Intermediate Accounting II.** (3-0-3); I, II. *Prerequisite: ACCT 384.* Accounting theory and practice applicable to corporate net worth accounts and liabilities; appropriations and reserves; income determination, funds flow analysis, special problems of analysis, presentation, and interpretation of financial data.

**ACCT 386. Internship of Accounting.** (1 to 4 hrs.); on demand. *Prerequisites: completion of 18 hours in accounting and permission of the 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 387. Income Tax.** (3-0-3); I, II. *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 390. Cost Accounting I.** (3-0-3); I, II. *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 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 439. Cooperative Education IV.** (1 to 8 hrs.); on demand. *Permission of department chair required.* 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.

**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 385.* 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 385.* 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 506. Theory of Accounts.** (3-0-3); on demand. *Prerequisite: ACCT 385.* Study of development of accounting theory, application of theory to income measurement valuation and equities, review of current literature in the field of the pronouncements of FASB, CASB, SEC, AICPA, and AAA affecting theory.

**ACCT 528. 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 539. Cooperative Study V.** (1 to 8 hrs.); on demand. *Permission of department chair required.* Work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students. Not available for option credit.

**ACCT 575. Controllership.** (3-0-3); on demand. *Prerequisites: ACCT 281 and 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 584. C.P.A. Problems.** (3-0-3); on demand. *Prerequisites: 20 hrs. of accounting and senior standing.* Application of generally accepted accounting principles of CPA examination problems. Covers four sections of exam (practice, theory, auditing, and business law) with emphasis on problems and theory.

**ACCT 587. Advanced Tax Accounting. (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 590. 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.

**ACCT 599. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various accounting subjects will be presented periodically to supplement the basic course offerings in accounting. Credit toward degree programs must be approved by the student's advisor and the department chair.

## 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. (1-2 hours); 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.

**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 aids; correct body position; halts, turns, and figurework; 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, AGR 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 aids, rein aids, and canter leads; detailed study of gaits, equipment, and dress; 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, AGR 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 aids, rein aids, and canter leads; detailed study of gaits, equipment, and dress; 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, and sheep and horses.

**AGR 180. Introduction to Field Crops. (2-2-3); II. Prerequisite: BIOL 150.** A study of the fundamentals of crop production, current practices in grain, pasture, forage, and medicinal crop production; seed production and quality; morphology of crops.

**AGR 203. Agricultural Economics. (3-0-3); II.** Economic organization of the farm productive unit; concentration on principles of production economics, supply and demand schedules.

**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 207. Land Conservation and Forest Management. (2-2-3); II.** Principles of land resource conservation. Special emphasis on land and water conservation by reforestation of areas denuded by strip mining.

**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 in relation to plant growth; the principles of soil management, conservation, and land use.

**AGR 212. Landscape Plants. (2-2-3); I (in 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 (in odd years.) Prerequisite: AGR 212 and HEC 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 (in 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 hours); I, II, III.** A supervised work experience program for students planning careers in agriculture upon completion of the associate degree program. See VET 235.

**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 develop essential skills.

**AGR 260. Technical Analysis. (1-2-2); I, II, III.** The major theme of this course involves the study of the processes used in collecting, organizing, and transforming raw data into useful information. Application software pertinent to students in the Veterinary Technology, Pre-Veterinary Medicine and Agriculture programs will be employed by the students to learn these processes.

**AGR 300. Pest Management. (2-2-3); II. Prerequisite: AGR 133 or AGR 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, (in 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, (in 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, (in 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, (in even years.) Prerequisites: AGR 180, 211, CHEM 112, 112A.** Identification and classification of weed species, methods of reproduction, and growth characteristics. Effects on crop and livestock yield and control methods.

**AGR 311. Soil Conservation. (2-2-3); I. Prerequisite: AGR 211.** Agricultural land resources, capabilities, and uses; extent of erosion, causes of erosion and its effect; the soil and its classification; mapping; aims and principles of soil conservation; economics of soil conservation; conservation practices, including contouring, terracing, strip farming, and sodded waterways.

**AGR 312. Soil Fertility and Fertilizers. (3-0-3); II, (in odd years.) Prerequisite: AGR 211.** The source and methods of manufacture of fertilizer materials; profitable use of fertilizers and lime in soil management.

**AGR 314. Plant Propagation. (2-2-3); II, (in 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, (in even years.) Prerequisite: AGR 215 or consent of instructor.** Tree fruits, nuts, and small fruits; varieties, sites, soils, pruning, pest control, planing, and commercial marketing.

**AGR 316. Feeds and Feeding. (2-2-3); I. Prerequisites: CHEM 201 and AGR 133.** 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, (in 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 (in even years.) Prerequisites: BIOL 150 or AGR 215, 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, (in 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 (in 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 (in even 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 hotheouses.

**AGR 325. Turf Management. (2-2-3); I (in even years.) Prerequisites: BIOL 150 and AGR 215 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 (in 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 (in 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. Prerequisites: AGR 215 and AGR 224.** Production of bedding plants, flowering potted plants, cut-flowers, and foliage plants.

**AGR 329. Advanced Stockseat Horsemanship. (1-4-3); I (in 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 (in 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 (in 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 (in even years.) *Prerequisite:* AGR 332. The techniques of horsemanship and methods of equitation instruction.

**AGR 336. Dairy Production.** (2-2-3); (in even years.) *Prerequisites:* AGR 133, and AGR 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 (in even years.) *Prerequisites:* AGR 133 and AGR 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 (in 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 341. Apiculture.** (2-2-3); on demand. Establishing and managing honeybee colonies, prevention and control of pests, and handling the honey crop.

**AGR 342. Horse Production.** (2-2-3); I (in 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 (in even years.) *Prerequisites:* AGR 133 and 316 or approval of the 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 (in odd years.) *Prerequisites:* AGR 133 and 316 or approval of the 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 (in odd years.) *Prerequisites:* AGR 133 and 316 or approval of the department. History, development, and distribution of types and breeds; selection, breeding, feeding, and management of sheep; production and handling of wool.

**AGR 350. Farm Power and Machinery Management.** (2-2-3); I. Selection, operation, maintenance, and servicing of agriculture power and machinery units.

**AGR 380. Equine Management.** (2-2-3); I, III (in odd years.) *Prerequisites:* AGR 243 and AGR 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 (in 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; and pest control.

**AGR 385. Agribusiness Management.** (3-0-3); II (in 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 Agricultural Policy.** (3-0-3); II (in 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 402. Advanced Agricultural Experience.** (1-2 hours); 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 471. Seminar.** (1-0-1); I, II. *Prerequisite:* second semester junior standing. Identification of problems and issues reflected in the current professional agricultural literature.

**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 480. Equine Breeding and Reproduction.** (1-4-3); II. *Prerequisites:* AGR 342 and AGR 332 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 recordkeeping.

**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 agricultural education 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 method in organizing and program planning in post high school vocational agricultural education and conducting young farmer and adult farmer classes.

**AGR 584. Teaching Vocational Agriculture.** (8-0-8); II. Supervised teaching in centers selected by the state agriculture education staff and members of the teaching staff. Teacher experiences with in-school and out-of-school groups.

**AGR 585. Teaching Agricultural Mechanics.** (3-0-3); I. Objectives with methods, equipment and management of the



shop, organization of facilities for high school and vocational technical programs.

**AGR 586. Planning Programs in Vocational Agriculture. (3-0-3); II.** Organization and analysis of the program of vocational agriculture. Departmental program of activities, summer programs, advisory committees, and Future Farmers of America activities.

**AGR 588. Curriculum Development and Content Selections. (3-0-3); III.** Each student prepares the content for a four-year program in vocational agriculture.

**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, III.** An introduction to drawing and design concepts including shape, line, value, perspective, and composition. A variety of basic drawing materials are used. Theory, skill, and perceptual development are emphasized.

**ART 102. Three Dimensional Foundation. (2-2-3); I, II, III.** An introduction to three dimensional design, special theory, and concepts are taught employing a variety of methods and materials such as paper, wire, styrofoam, and plaster.

**ART 103. Color Foundation. (2-2-3); I, II, III.** The study of color and its application to color and light, pigment blending, and process printing through lecture and class projects.

**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 109. Computer in the Visual Arts. (2-2-3); I, II.** An introduction to the computer as a tool in the visual arts. Emphasis will be placed on desktop publishing and the generation and manipulation of images. Amiga and MacIntosh computers will be used.

**ART 204. Drawing I. (2-2-3); I, II, III.** Introduction to objective and subjective drawing using various graphic media.

**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); Prerequisites: ART 101, 102, and 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); I, II, III.** 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. Introduction to Art History I. (3-0-3); I.** A survey of ancient, primitive, and Asian art.

**ART 264. Introduction to Art History II. (3-0-3); II.** A survey of Medieval, Renaissance, Baroque, and Modern art.

**ART 283. Basic Black and White Photography. (2-2-3); I, II.** Practical introduction to the basic camera and darkroom techniques of black and white photography. Areas covered include camera operation, film exposure and development, enlarging, and print presentation.

**ART 294. Sculpture I. (2-2-3); I, II.** 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: acceptance into the teacher education program.** Background and philosophy of elementary art in education.

**ART 304. Drawing II. (2-2-3); I, II. Prerequisite: ART 204.** A continuation of ART 204.

**ART 305. Graphic Design II. (2-2-3), I, II. Prerequisite: ART 205.** A study of three-dimensional design with emphasis on product and package design.

**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. Prerequisite: ART 214.** Painting from still life and landscape with emphasis on creative interpretation and expression.

**ART 316. Watercolor I (2-2-3); I, II, III. Prerequisites: ART 101, 102, and 103, or permission of department.** 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: acceptance into teacher education program.** Presentation of the background, philosophy, and techniques for the teaching of art in the secondary school.

**ART 341. Fibers I. (2-2-3); I, II.** Introduction to fiber processes, including spinning and dyeing, coiling, twining, wrapping, tapestry, and loom weaving.

**ART 342. Surface Design for Fabric I. (2-2-3); I, II.** An introduction to surface design including stamping, tiling, repeat design, and screen printing on fabric.

**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 the 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 the 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 383. High Contrast Photography (2-2-3); I, II. Prerequisite: ART 282.** Creative use of a variety of darkroom techniques utilizing high contrast films and papers. Techniques covered include drop-out, bas-relief, and tone-line printing; solarization; stripping, and paste-up.

**ART 384. Color Photography.** (2-2-3); I, II. *Prerequisite:* ART 283. Introduction to materials and processes utilizing color films and papers.

**ART 385. Alternative Photographic Printing Processes.** (2-2-3); I, II. *Prerequisite:* ART 283. Preparation and use of hand-coated photo-sensitive papers. Printing processes include cyanotype, Van Dyke, kallitype, platinotype, palladium, and gum-bichromate.

**ART 386. Studio Photography.** (2-2-3); I, II. *Prerequisite:* ART 283 or permission of instructor. Study of studio photography, including use of view camera, artificial lighting, and other studio equipment, as an element of commercial design.

**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); (taught on demand during summer). Participation in art activities according to individual needs.

**ART 400. Apprenticeship.** (3 to 16 credits); 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 406. 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. May be repeated. *Prerequisite:* ART 407. The continuation of studies in the area of commercial illustration. A more comprehensive study of different media and illustration techniques.

**ART 409. Airbrush.** (2-2-3); I, II. *Prerequisites:* ART 214, 205, 305, and 405 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 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. May be repeated. *Prerequisite:* ART 351. Advanced studio in

intaglio printmaking. Techniques include engraving, mezzotint, color intaglio, photo-etching and color monotype.

**ART 452. Lithographic Printmaking Studio.** (2-2-3); I, II. May be repeated. *Prerequisite:* ART 352. Advanced studio in lithographic printmaking. Techniques include color lithography, reversal, chine colle, and multi-plate registration.

**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 476. Individual Art Problems.** (1 to 6 hrs.); I, II, III. *Prerequisite:* The student must have completed all of the department's courses that are offered in the specific media and must obtain permission of the instructor. Individual Art Problems will be offered for the student who wishes to explore one medium in depth.

**ART 504. Drawing IV.** (2-2-3); I, II. Repeatable up to 6 hours. *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 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 594. Sculpture III.** (2-2-3); I, II. *Prerequisites:* ART 294 and 394. Advanced problems in sculpture involving a combination of materials and their uniqueness as media.

## Biology

**BIOL 100. Orientation to Biological and Environmental Sciences Programs.** (1-0-1); I. *Prerequisite:* enrollment or interest in programs in the Department of Biological and Environmental Sciences. The importance of the academic advisor, the structure of departmental programs, student career-oriented organizations, career selection, program requirements, and applications to professional/graduate schools. Required of all departmental majors, K credit.

**BIOL 105. Introduction to Biological Sciences.** (3-0-3); I, II, III. Fundamental life processes: photosynthesis, respiration, reproduction, growth, and evolution. Emphasis on man. NOT ACCEPTABLE for biology majors and minors.

**BIOL 110. Biological Science for Elementary Teachers.** (2-2-3); I, II, III. *Prerequisites:* None. 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.

**BIOL 150. Introductory Plant Science.** (2-2-3); I. Structure, growth, reproduction, and ecology of plants. Emphasis on

cultivated plants and agriculture applications. NOT ACCEPTABLE for biology majors and minors.

**BIOL 171. Principles of Biology.** (3-2-4); I, II. General biological principles, emphasis on cell structure and function, energetics, homeostasis, genetics, evolution, and ecology.

**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 student's advisor.

**BIOL 206. Biological Etymology.** (2-0-2); I, II. Root-concepts of terms necessary for a better understanding of the biological sciences.

**BIOL 210. General Zoology.** (2-4-4); I, II. *Prerequisites: 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, antimicrobial 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: BIOL 105 or equivalent or consent of instructor.* Human organism with emphasis on gross morphology. NOT ACCEPTABLE as credit for biology majors.

**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. *Prerequisites: 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. Survey of Biochemistry.** (3-2-4); I, II. *Prerequisite: CHEM 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.). Primarily for students in applied sciences and not for majors or minors in chemistry or biology. See CHEM 301.

**BIOL 304. Genetics.** (2-2-3); I, II, III. *Prerequisite: BIOL 171.* Mendelism, chromosomes and heredity, gene theory, cytological and physiological analyses, and population genetics.

**BIOL 313. Economic Botany.** (3 hours credit). 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. (Correspondence only.)

**BIOL 317. Principles of Microbiology.** (2-4-4); I, II, III. *Prerequisites: BIOL 171 and CHEM 112.* Fundamental and applied aspects of microbiology. Morphology, metabolism, genetics, taxonomy, and immunology emphasized. Medical and environmental microbiology laboratory techniques stressed.

**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 320. Basic Microtechniques.** (0-4-2); on demand. *Prerequisites: BIOL 171 and CHEM 111.* Techniques for preparing plant and animal tissues for microscopic study; preparation of microscopic slides.

**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. *Prerequisites: BIOL 217, 232, and CHEM 201 or equivalents.* Dynamic aspects of disease and disruption of normal physiology. Correlates anatomy, physiology, and biochemistry and their application to clinical practice for Allied Health students.

**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 355. Population, Resources, and Environment.** (3-0-3); I, II, III. Human ecology with special emphasis on the relationships between man, his resources, and his environment.

**BIOL 356. Environmental Biology.** (3-0-3); II. *Prerequisite: BIOL 355 or consent of instructor.* Basic ecological principles, population and community ecology as they apply to current environmental problems. BIOL 357 is a companion course, although either may be taken separately.

**BIOL 357. Environmental Testing Methods.** (1-4-3); I, II. *Prerequisite: consent of instructor.* Methods used in determining water quality and air and noise pollution levels. Techniques of animal and plant population estimation. BIOL 356 is a companion course, although either may be taken separately.

**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 student's advisor.

**BIOL 413. Medical Technology Clinical Practicum. (4); III.** See Medical Technology Curriculum.

**BIOL 414. Medical Technology Clinical Practicum. (4); III.** See Medical Technology Curriculum.

**BIOL 415. Medical Technology Clinical Practicum. (14); I.** See Medical Technology Curriculum.

**BIOL 416. Medical Technology Clinical Practicum. (14); II.** See Medical Technology Curriculum.

**BIOL 419. Immunology. (2-2-3); II.** *Prerequisites: BIOL 317 and BIOL 380.* May be concurrently enrolled in BIOL 380. Basic cellular and molecular mechanisms of the immune response and its regulation, including response manifestations. Modern laboratory techniques stressed.

**BIOL 425. Animal Physiology. (2-2-3); I.** *Prerequisite: BIOL 210, CHEM 201 or 326, plus eight additional hours of biology.* Comparison of fundamental physiological processes in representative invertebrate and vertebrate animals. Emphasis placed on comparative energetics and physiological adaptations of organisms to their environment.

**BIOL 426. Plant Physiology. (2-2-3); on demand.** *Prerequisites: BIOL 215 and CHEM 112 or equivalent.* Diffusion, osmosis, cell wall and membrane structure, mineral nutrition, photosynthesis, respiration, macromolecules, 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 461. Ecology. (2-2-3); I.** *Prerequisites: BIOL 210, BIOL 215, MATH 152 or higher, 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.

**BIOL 485. Biology Teaching Methods. (1-4-3); II.** *Prerequisites: Admission to the Teacher Education Program and completion of at least 20 hours in biology.* Concepts of teaching and methods for the selection, preparation, and presentation of lecture laboratory materials for secondary biology classes.

**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); I, II.** *Prerequisites: BIOL 210, BIOL 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.** *Prerequisites: 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); I.** *Prerequisite: BIOL 217 or 317.* Medically important microorganisms; bacteria and fungi emphasized. The isolation, cultivation, and identification of pathogenic microorganisms from clinical specimens 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, CHEM 201, or 326, plus eight additional hours of biology.* Characteristics of tissues and organs of vertebrates.

**BIOL 530. Ichthyology. (1-4-3); II in even years.** *Prerequisite: BIOL 210.* The anatomy, physiology, taxonomy, ecology, distribution, natural history, and evolution of fish. Emphasis on collection, identification, and classification of those fresh water fish native to eastern North America. Common marine fish 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 fish. Emphasis on collection, identification, and classification of those herptiles found in eastern North America. Field trips required.

**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. Field trips required.

**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 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); I.** *Prerequisite: consent of instructor.* Distribution and reserve depletion of wildlife, forest, land, water, air, and mineral resources; emphasis on population, pollution, and environment. Field trips to environmentally important areas are required. Not acceptable as credit for Biology or Environmental Science majors and minors. 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 574. Experimental Courses. (1 to 4 hrs.); on demand.** *Prerequisite: variable.* These courses are always innovative, perhaps non-traditional, and often specialized offerings designed to enhance programs in the biological and environmental sciences and other disciplines. If successful, individual courses may be assigned a standard number.

**BIOL 580. History of Science. (3-0-3); on demand.** See SCI 580.



**BIOL 590. Biochemistry. (4-0-4); I. Prerequisite:** *CHEM 327 or equivalent or permission of Professor.* 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 599. 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 student's advisor.

## Chemistry

**CHEM 100. Basic Chemistry. (3-2-4); on demand. A** survey of chemistry with emphasis on biological systems, with laboratory.

**CHEM 101. Survey of General Chemistry. (3-2-4); I, II, III.** A survey of inorganic chemistry which includes elements, compounds, molecular geometry, bonding, redox, gases, acids, bases, and salts. Primarily for students in the applied sciences.

**CHEM 111. Principles of Chemistry I. (3-2-4); I, II. Prerequisite:** *MATH 152 (or equivalent) or enhanced ACT mathematics score over 19.* 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.

**CHEM 112. Principles of Chemistry II. (3-2-4); I, II. Prerequisite:** *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, III. Prerequisite:** *CHEM 101.* An introduction to organic chemistry that includes nomenclature, molecular structure, functional groups and reactions, and topics related to medicinal and consumer chemistry. Primarily for students in applied sciences.

**CHEM 239. Cooperative Education. (1-8 hours). I, II, III.** Participation in supervised work experience in a professional environment. Department approval is required.

**CHEM 299. Selected Topics. (1 to 6 hrs.); on demand.**

**CHEM 301. Survey of Biochemistry. (3-2-4); I. Prerequisite:** *CHEM 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.), with laboratory. See BIOL 301.

**CHEM 326. Organic Chemistry I. (3-2-4); I, II. Prerequisite:** *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:** *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:** *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 339. Cooperative Education. (1-8 hours). I, II, III.** Participation in supervised work experience in a professional environment. Department approval is required.

**CHEM 340. Chemical Information. (2-2-3); II. Prerequisite:** *CHEM 112, CHEM 326 recommended.* 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. (2-0-2); II. Prerequisite:** *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. (2-4-4); I. Prerequisite:** *CHEM 112. CHEM 326 recommended.* Content to include errors and small sample statistics, complicated stoichiometry, analytical applications of equilibrium calculations, electrochemical potentials, and an introduction to spectrophotometry. Laboratory work includes gravimetric, volumetric, direct potentiometric and spectrophotometric determinations.

**CHEM 399. Selected Topics. (1 to 6 hrs.); on demand.**

**CHEM 439. Cooperative Education. (1-8 hours); I, II, III.** Participation in supervised work experience in a professional environment. Department approval is required.

**CHEM 441. Physical Chemistry I. (3-0-3); I. Prerequisite:** *PHYS 201 or 231 and CHEM 360. Pre- or corequisite:* *MATH 276.* Chemical thermodynamics and chemical kinetics.

**CHEM 442. Physical Chemistry II. (3-2-4); II. Prerequisite:** *CHEM 441.* Topics include quantum chemistry, spectroscopy, statistical mechanics, and transport properties.

**CHEM 450. Qualitative Organic Analysis. (2-4-4); on demand. Prerequisite:** *CHEM 327.* Physical and chemical methods for qualitative analysis of organic compounds.

**CHEM 451. Advanced Inorganic Chemistry. (3-0-3); I (in alternate years.) Prerequisite:** *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. (2-4-4); II (in alternate years.) Prerequisites:** *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.

**CHEM 499. Selected Topics. (1 to 6 hrs.); on demand.**

## Communications (General)

**COMM, 239, 439, 539. Cooperative Education. I, II, III.** The Department of Communications 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. Prior application necessary. See restrictions applying to all programs in communications.

**COMM 247. Internship. (1 to 3 hrs.); I, II, III.** Competency-based practical experience aimed at increasing the proficiency of the study in assigned positions. Prior application necessary. May be repeated. See restrictions applying to all programs in communications.

**COMM 447. Internship. (1 to 3 hrs.); I, II, III.** Competency-based practical experience aimed at increasing the proficiency of the study in assigned positions. Prior application necessary. May be repeated. See restrictions applying to all programs in communications.

**COMM 476. Special Problems. (1 to 3 hrs.); I, II, III. (By prior arrangement with instructor only.)** Research on an original project with appropriate written report, within a subject area. May be repeated. See restrictions applying to all programs in communications.

## Communications (Advertising - Public Relations)

**CMAP 166. Desktop Publishing and Publication Techniques I. (2-2-3). I, II, III.** This course is an introduction to Advertising-Public Relations, Journalism and Electronic Media Arts and provides students with the basic computer skills necessary for success in mass media courses and field.

**CMAP 239. Cooperative Education. (1 to 3 hrs); I, II, III. Prerequisite: CMAP 166 & CMJN 201.** The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor.

**CMAP 247. Internship. (1 to 3 hrs); I, II, III. Prerequisite: CMAP 166 & CMJN 201.** Competency-based practical experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**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 news-papers. Hands-on experience in layout and production.

**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. (3-0-3); I, II.** Advertising principles and practices.

**CMAP 399. Public Relations Workshop. (3-0-3); On demand. Prerequisite: CMAP 382 or 383.** A hands-on workshop in preparing print-media public relations materials.

**CMAP 421. Portfolio. (3-0-3); I, II. Prerequisite: Senior standing.** This course is designed to give students seeking careers in Advertising-Public Relations information and hands-on instruction in the preparation and presentation of a

working portfolio. Includes lectures and instruction from advertising and public relations professionals.

**CMAP 439. Cooperative Education. (1 to 3 hrs); I, II, III. Prerequisite: CMAP 239, 382 & 383.** The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor.

**CMAP 447. Internship. (1 to 3 hrs); I, II, III. Prerequisite: CMAP 247, 382 & 383.** Competency-based practical experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**CMAP 464. Magazine Editing and Design. (3-0-3); On demand. Prerequisite: CMAP 166.** Editing and the graphic design of magazines.

**CMAP 466. Desktop Publishing and Publication Techniques II. (2-2-3), I, II, III. Prerequisite: CMAP 166 or permission of instructor.** Study and application of desktop publishing and publication techniques using the most up-to-date computer software programs.

**CMAP 476. Special Problems. (1 to 3 hrs); I, II, III. Prerequisite: CMAP 382 & 383.** Research on an original project with appropriate written report, within a subject area. Permission of instructor.

**CMAP 482. Public Relations Practices. (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 storyboards.

**CMAP 539. Cooperative Education. (1 to 3 hrs); I, II, III. Prerequisite: CMAP 439, 466, 482, 483.** The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor.

**CMAP 583. Advertising Copy Writing. (3-0-3); On demand. Prerequisite: CMAP 483.** Writing advertising headlines and copy for mass media.

**CMAP 584. Psychology of Advertising. (3-0-3); III. Prerequisite: CMAP 483.** Psychological strategy used in art, words, and graphics as persuasive advertising devices.

## Communications (Electronic Media)

**CMEM 150. Survey of Electronic Media. (3-0-3); I, II.** The basic conditions of the electronic media industry from its regulation to advertising. Students will also learn the basics of everyday operation of broadcast and cable facilities.

**CMEM 151. Introduction to Broadcasting Techniques. (2-2-3); I, II.** An introduction to the equipment utilized in production for the electronic media. The basic operation of this equipment. To include program conception and the application of technology to achieve communication with an audience.

**CMEM 155. Performance for Electronic Media. (3-0-3); I, II.** The basic theory and application of good vocal production techniques. Placing an emphasis on vocal communication skill of enunciation, pronunciation, inflection and pacing.

**CMEM 221. Broadcasting Portfolio I. (1-0-1); II.** Practical application of compiling a well-structured portfolio which will

serve as an integrated and documented album of the knowledge and skills the student will take into professional broadcasting. The portfolio, which will be completed in CMEM 421, Broadcast Portfolio III (1-0-1), will also serve as one means of exit assessment.

**CMEM 239. Cooperative Education.** (1 to 4 hrs); I, II, III. *Prerequisite: CMEM 150 & 151.* The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor and supervisor.

**CMEM 247. Internship.** (1 to 3 hrs); I, II, III. *Prerequisite: CMEM 150 & 151.* Competency-based experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**CMEM 250. Audio Production and Direction.** (3-2-4); I, II. A study of the theory and application of audio production for all electronic media, including radio, television, cable, and film.

**CMEM 320. Advertising and Sales for Electronic Media.** (3-0-3); I. Theory and application of the practical and theoretical aspect of advertising for the electronic media. A study of campaigns, ratings, concepts of the purchase of time on electronic media.

**CMEM 321. Broadcast Portfolio II.** (1-0-1); II. *Prerequisite: CMEM 221.* Students will continue to compile professional portfolio which will serve as an integrated and documented album of the knowledge and skills they will take into professional broadcasting. Students will also receive training and counseling in deciding their career objectives.

**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 151 and 250 or consent of instructor.* Basic electronic media production techniques and an introduction of directing skills in a laboratory situation.

**CMEM 341. Writing for the Electronic Media.** (3-0-3); I, II. *Prerequisite: CMEM 250 and 340 and a proficiency in typing or keyboarding.* The study and application of theory and techniques used in creating advertising and programming for the electronic media. Emphasis is placed on the conception and creation of advertising presentations.

**CMEM 344. News and Public Affairs for the Electronic Media.** (3-0-3), I, II. *Prerequisite: 9 hours of Electronic Media Courses or consent of the instructor.* Theory and practice of preparing, writing and presentation of news and public affairs programming as applied to the electronic media.

**CMEM 357. Sportscasting.** (2-2-3); 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); II. *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); III. (May be repeated for credit when topics vary). *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 fields of expertise.

**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 421. Portfolio III.** (1-0-1); II. *Prerequisite: CMEM 221 and 321.* Students' professional portfolios will be assessed. These will serve as an integrated and documented album of the knowledge and skills they will take into professional broadcasting. Students will also receive instruction on writing resumes and cover letters; will complete their resumes and enroll into the job placement system of The Office of Career Planning and Placement.

**CMEM 423. Advanced Commercial and Continuity Writing.** (3-0-3); II. *Prerequisite: CMEM 341.* Script writing techniques for the advanced media copywriter. Practice in writing various types of commercials, continuities and formats for the electronic media.

**CMEM 435. Interviewing for the Electronic Media.** (3-0-3); I, II. *Prerequisite: 9 hours of undergraduate Electronic Media Arts 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 439. Cooperative Education.** (1 to 8 hrs); I, II, III. *Prerequisite: CMEM 150, 151, 250 and 340.* The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor and supervisor.

**CMEM 440. Video Production and Direction II.** (3-3-4); I, II. *Prerequisite: CMEM 340 junior standing and 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 445. Electronic Field Production.** (3-0-3); III. *Prerequisite: CMEM 440 or consent of instructor.* Theory and practice in the production of commercial and feature production outside the studio using a single-camera technique. Includes post-production electronic editing and production techniques.

**CMEM 447. Internship.** (1 to 3 hrs); I, II, III. *Prerequisite: CMEM 247, 250 or 340.* Competency-based experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**CMEM 450. Electronic Media Management.** (3-0-3); II. *Prerequisite: 18 hours of undergraduate CMEM or consent of instructor.* The examination of administrative decision-making in electronic media. Attention is focused on audience research, sales regulatory 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 250 and 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); I, II. An examination of the basic regulatory law and



policy as applied to electronic media as it is today and from an historical and socio-economic perspective.

**CMEM 476. Special Problems.** (1 to 3 hrs); I, II, III. *Prerequisite: Junior standing and by prior arrangement with instructor only.* Research on an original project (may include an audio or video production) with appropriate written report, within a subject area. May be repeated.

**CMEM 539. Cooperative Education.** (1 to 8 hrs); I, II, III. *Prerequisite: CMEM 239 or 439 and 250 or 340.* The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor and supervisor.

**CMEM 550. Problems in Contemporary Electronic Media.** (3-0-3); II. *Prerequisite: Senior standing and consent of instructor.* An examination of current problems within the electronic media industry.

**CMEM 558. Public Broadcasting.** (3-0-3); I. *Prerequisite: Senior standing and consent of instructor.* A study of the development of the public broadcasting system in the United States as compared to other "public" systems in other countries from both a theoretical and operational standpoint.

**CMEM 560. History of Broadcasting.** (3-0-3); II. *Prerequisite: Senior standing and consent of instructor.* A historical study of radio and television as a communication service and its development in the United States.

**CMEM 562. Electronic Media Criticism.** (3-0-3); I. *Prerequisite: Senior standing and consent of instructor.* An examination of the electronic media in sociological, aesthetic, historical psychological and humanistic terms.

**CMEM 580. New Technology, Policy and the Communication Industry.** (3-0-3); I. *Prerequisite: Senior standing and consent of instructor.* An examination of the new developments in electronic media, the sources of policy and influence which guide them and public interest issues affected by these policies.

**CMEM 582. American Popular Culture and Communications Technology.** (3-0-3); II. *Prerequisite: Senior standing and consent of instructor.* 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.

## Communications (Journalism)

**CMJN 110. Introduction to Mass Communications.** (3-0-3); I, II. Survey of history, functions, career openings, and interrelationship of newspapers, radio, television, other media and attendant agencies.

**CMJN 201. News Writing and Reporting.** (3-0-3); I, II. *Prerequisite: CMAP 166.* Gathering news on and off campus; organizing and writing news items, using computers (typing skills required). Students will be screened for grammar and typing proficiency.

**CMJN 204. Copyreading and Editing.** (3-0-3); I, II. *Prerequisite: CMJN 201.* Copy correcting, both on typed news copy and on computers; proofreading, headline writing, news selection, page layout.

**CMJN 239. Cooperative Education.** (1 to 3 hrs); I, II, III. *Prerequisite: CMJN 201 & CMAP 166.* The Area of Concentration offers a series of cooperative study courses allowing students to alternate semesters of on-campus studies

with periods of full-time related work experience. Prior application necessary. Permission of instructor.

**CMJN 247. Internship.** (1 to 3 hrs); I, II, III. *Prerequisite: Permission of instructor.* Competency-based practical experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**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. (Lab fee will be assessed each student).

**CMJN 301. Advanced News Writing and Reporting.** (3-0-3); II. *Prerequisite: CMAP 166 & CMJN 201.* Advanced reporting including covering courts, police, governmental agencies. Interviewing skills, legal aspects of the press, and theories of social responsibility.

**CMJN 310. History of Journalism.** (3-0-3); I. *Prerequisite: CMJN 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); II. *Prerequisite: CMJN 201.* Philosophy and techniques in writing sports and sports analysis or commentary for print media.

**CMJN 386. Photo Essay and Editing.** (3-0-3); I. *Prerequisite: CMJN 285.* Photographic composition, selection and production of pictures for various publications.

**CMJN 387. Advanced Photojournalism.** (3-0-3); II. *Prerequisite: CMJN 285.* In-depth study of photo-journalism equipment, techniques, style, including color photography. For journalism majors and minors only. Camera rental fee for students without suitable camera.

**CMJN 439. Cooperative Education.** (1 to 3 hrs); I, II, III. *Prerequisite: CMJN 239.* The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods of related work experience. Prior application necessary. Permission of instructor.

**CMJN 447. Internship.** (1 to 3 hrs); I, II, III. *Prerequisite: CMJN 247.* Competency-based practical experience aimed at increasing the proficiency of the students in assigned positions. Prior application necessary. Permission of instructor and supervisor.

**CMJN 465. Editorial Writing.** (3-0-3); I. *Prerequisite: CMJN 201.* Purposes and methods of editorial writing, including ethics, and values.

**CMJN 476. Special Problems.** (1 to 3 hrs); I, II, III. *Prerequisite: CMAP 166 & CMJN 201.* Research on an original project with appropriate written report, within a subject area. Permission of instructor.

**CMJN 504. School Publications.** (3-0-3); III. *Prerequisite: CMAP 166 or consent of instructor.* Senior standing. Advancement of students in the production of school newspapers, yearbooks, and magazines; includes a complete review of journalism principles.

**CMJN 505. Law and Ethics of the Press.** (3-0-3); II. *Prerequisite: Six hours of advanced journalism credit.* Senior standing. An examination of law as it affects print and broadcast media and advertising.

**CMJN 539. Cooperative Education.** (1 to 3 hrs); I, II, III. *Prerequisite: CMJN 439.* The Area of Concentration in Communication offers cooperative study courses allowing students to alternate semesters of on-campus studies with periods



of related work experience. Prior application necessary. Permission of instructor.

**CMJN 560. Reviews and Criticism. (3-0-3); II.**  
*Prerequisite:* Six hours of advanced journalism credit. *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 and by press, television, radio and film; the nature of propaganda in advertising.

## Computer Information Systems

**CIS 139. Cooperative Education I. (1 to 8 hours); on demand.** Permission of department chair required. Work experience in the computer field in a position approved through an application process. Not available for option credit.

**CIS 199. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various Computer Information Systems subjects will be presented periodically to supplement the basic course offerings in Computer Information Systems. Credit toward degree programs must be approved by the student's advisor and the department chair.

**CIS 200. Logic and Structured Design of Computer Programs. (3-0-3); I, II.** This course is intended to introduce computer information systems students to the logic of programming languages in general rather than to a specific code. The course presents tools and techniques in such a way that they may be understood by relatively unsophisticated students who will perfect their programming abilities later in specific programming language courses.

**CIS 201. Introduction to Computers. (3-0-3); I, II, III.** An exploration of fundamental computer concepts and applications. The importance, versatility, persuasiveness, and ethical concerns of computers in our society. Fundamental word processing, spreadsheet, and database tasks.

**CIS 202. Structured Programming BASIC. (3-0-3); I, II.**  
*Prerequisite:* *CIS 200 or CIS 201.* Programming the computer using STRUCTURED BASIC language. No prior knowledge is assumed. Emphasis on problem solving and interactive mode programming.

**CIS 205. Structured C Programming. (3-0-3); I, II.**  
*Prerequisites:* *CIS 200 or CIS 201.* The student will be introduced to the basic tools and techniques required to write, edit, compile, and run a structured C language program.

**CIS 210. Digital Concepts and Programming in ASSEMBLER I. (3-0-3); I.**  
*Prerequisite:* *CIS 200 or CIS 201.* Programming stored program computer using ASSEMBLER language. Interpretation of machine code and memory dumps in hexadecimal notation. The binary instruction set, condition code, mask and branching, looping, and subroutines.

**CIS 215. Structured Programming COBOL I. (3-0-3); I.**  
*Prerequisite:* *CIS 200 or CIS 201.* Practical business applications programming using COBOL language. Terminal input and printer output used.

**CIS 216. Structured Programming in PL/1. (3-0-3); on demand.**  
*Prerequisite:* *CIS 200 or CIS 201.* Fundamentals of structured programming in PL/1 computer language. Practical business and scientific applications emphasized in programming assignments.

**CIS 239. Cooperative Education II. (1 to 8 hours); on demand.** Permission of department chair required. Work experience in the computer field in a position approved through an application process. Not available for option credit.

**CIS 260. Structured FORTRAN Programming I. (3-0-3); I, II.**  
*Prerequisite:* *CIS 200 or CIS 201.* Introduction to structured FORTRAN programming language. Application of mathematical techniques to problems in programming business, engineering, management, and modeling. Examples employed to provide comprehensive knowledge of the language.

**CIS 290. Microcomputer Operating System (MS/PC DOS). (1-0-1); I, II.** This course assumes no prior knowledge of microcomputers or of the operating system. The course features step-by-step instruction in using DOS commands. It is designed to help students gain a better understanding and control of microcomputers through efficient use of the operating system.

**CIS 291. Microcomputer Spreadsheet Applications. (1-0-1); I, II.** This course assumes no prior knowledge of microcomputers or of spreadsheet applications. The course emphasizes a conceptual understanding of spreadsheets and illustrates those concepts by teaching students the keystrokes for an industry standard spreadsheet such as Lotus 1-2-3. It is designed to help students develop techniques needed to plan, build, and apply well-designed spreadsheets to solve true-to-life problems.

**CIS 292. Microcomputer Database Management. (1-0-1); I, II.** This course assumes no prior knowledge of microcomputers or of database management. The course emphasizes a conceptual understanding of database management and illustrates those concepts by teaching students the keystrokes for an industry standard database management system.

**CIS 301. Microcomputers. (3-0-3); I, II, III.**  
*Prerequisite:* *CIS 201.* Hardware and software of microcomputers. In-depth study of microcomputer operating system and applications of word processing, spreadsheets, and databases.

**CIS 303. Data Structures Implemented in Pascal. (3-0-3); II.**  
*Prerequisites:* *CIS 200 or CIS 201, CIS 205, CIS 215, or CIS 216, and CIS 260.* 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 implemented in Pascal.

**CIS 305. Advanced Structured C Programming. (3-0-3); II.**  
*Prerequisite:* *CIS 205.* The student will be introduced to the advanced tools and techniques required to write, edit, compile and run a program in the C language.

**CIS 311. Introduction to Management Information Systems. (3-0-3); I.**  
*Prerequisites:* *CIS 200 or CIS 201, ACCT 281.* A study to prepare managers for the successful implementation and use of information technology for organizations. This course recognizes and covers the strategic role that information systems can play in gaining competitive advantages in the market place.

**CIS 315. Structured Programming COBOL II. (3-0-3); II.**  
*Prerequisites:* *CIS 215.* Advanced structured computer programming using COBOL. Tape and disk file structures and processing emphasized.

**CIS 316. Structured Programming in Advanced PL/1. (3-0-3); on demand.**  
*Prerequisites:* *CIS 216.* Advanced structured computer programming using PL/1. Data structures, tape, and disk-file structures and processing will be emphasized using business and scientific applications.

**CIS 317. File Processing and Command Languages. (3-0-3); I. Prerequisites: CIS 205, CIS 215, CIS 216 or CIS 260.** Computer file organization methods and access techniques. Use of command language to allocate storage and to direct processing.

**CIS 325. Analysis and Design of Information Systems. (3-0-3); II. Prerequisite: CIS 205, CIS 215, CIS 216, CIS 260.** Information systems analysis, design, and implementation. Feasibility studies, economic cost comparisons, the tools and techniques of systems analysis and design including CASE tools.

**CIS 339. Cooperative Education III. (1 to 8 hours); on demand.** Permission of department chair required. Work experience in the computer field in a position approved through an application process. Not available for option credit.

**CIS 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various Computer Information Systems subjects will be presented periodically to supplement the basic course offerings in Computer Information Systems. Credit toward degree programs must be approved by the student's advisor.

**CIS 426. Database Management Systems. (3-0-3); II. Prerequisites: CIS 325.** Database structures, creation, modification, processing, and physical representation.

**CIS 430. Advanced Topics in Information Science. (3-0-3); on demand. Prerequisites: CIS 202, CIS 205, CIS 215 or CIS 260.** 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 Science.

**CIS 439. Cooperative Education IV. (1 to 8 hours); on demand.** Permission of department chair required. Work experience in the computer field in a position approved through an application process. Not available for option credit.

**CIS 440. Data Communications. (3-0-3); I. Prerequisites: CIS 200 or CIS 201.** A study of the ways to transmit data to and from computers and components of computer systems. Managing and analyzing this service. Topics will include micro-mainframe links, LANS, and WANS.

**CIS 445. Systems Development Project. (3-0-3); II. Prerequisites: CIS 200 or CIS 201, CIS 205 or CIS 215, CIS 325, and pre or co-requisite CIS 426.** Using an assigned project from a case or a working environment situation, students will, individually or in teams, develop a computer application through the use of the structured systems development life cycle.

**CIS 476. Special Problems in Computer Information Systems. (1 to 3 hrs.); on demand. Prerequisites: CIS 202, CIS 205, CIS 216, or CIS 260 and CIS 325.** This course is an independent study of Computer 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.

**CIS 515. Computer Information Systems Field Project. (3-0-3); on demand. Prerequisites: CIS 200 or CIS 201, CIS 215 or 216 and permission of instructor.** Experience in actual data processing environments outside the classroom; students assigned in the university's computing facilities as well as other approved computing facilities.

**CIS 516. Educational Computing. (3-0-3); on demand.** The development of competencies in the use of microcomputers for instruction, management, information processing, computer assisted instruction, and practical high-level programming

applications through programming assignments. Hardware and operating systems are covered. Designed primarily for students without previous data processing instruction

**CIS 599. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various Computer Information Systems subjects will be presented periodically to supplement the basic course offerings in Computer Information Systems. Credit toward degree programs must be approved by the student's advisor and the department chair.

## 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 102. Surveying I. (1-4-3); II.** Basic introduction to surveying methods plus introduction to surveying equipment.

**CON 103. Materials Testing. (2-2-3); II.** An investigation of materials science including typical physical destructive and nondestructive testing procedures. Reviews of ASTM and other standard agencies.

**CON 104. Surveying II. (1-4-3); I.** An extension of Surveying I with more in-depth field experience.

**CON 201. Properties of Construction Materials. (2-2-3); I.** An extension of materials testing with emphasis on heavy and highway construction materials, control standards, and properties expected.

**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.

## Criminology

**CRIM 201. Sociology of Criminology. (3-0-3); I, II.** An analysis of the theoretical and philosophical foundations of the American correctional system and an examination of its role in society. Contemporary treatment methods for adult and juvenile offenders will be surveyed.

**CRIM 210. The Sociology of Deviance. (3-0-3); I. Prerequisites: SOC 101 or consent of instructor. (See SOC 210).**

**CRIM 306. Juvenile Delinquency. (3-0-3); I, II. Prerequisites: Three hours sociology general education or consent of instructor. (See SOC 306).**

**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 388. History of Corrections. (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.

**CRIM 399. Selected Topics. (1 to 3 hrs.); on demand.**  
 Unique topics and learning experiences that supplement regular course offering. May be repeated in additional subject areas.

**CRIM 401. Criminology. (3-0-3); on demand. Prerequisite: SOC/CRIM 210 and three additional hours of CRIM; or consent of instructor.** (See SOC 401).

**CRIM 420. Seminar in Criminal Behavior. (3-0-3); II.**  
*Prerequisite: SOC/CRIM 401 or consent of instructor.* Specific problems and issues concerning criminal behavior examined in depth. Includes analysis of the causes of particular kinds of behavior, examination of methods of control, and consideration of current approaches to rehabilitation.

**CRIM 450. Research Methodology. (3-0-3); I, II, III.**  
*Prerequisite: Three hours sociology general education and six additional hours of SOC/CRIM; or consent of instructor.* (See SOC 450).

**CRIM 476. Special Problems. (1 to 3 hrs.); I, II, III.**  
*Prerequisite: 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 corrections.

**CRIM 490. Practicum in Corrections. (0-0-6); I, II, III.**  
*Prerequisite: SOC/CRIM 210, nine additional hours CRIM, and senior or graduate student standing; or consent of instructor.* 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.** This course will be required for all sociology criminology emphasis majors.

**CRIM 510. Law of Corrections. (3-0-3); I. Prerequisite: SOC/CRIM 210 and three additional hours CRIM; or consent of instructor.** An analysis of civil law in the United States related to the protection of society, the accused and adjudicated offender, and the administration of justice.

**CRIM 515. Correctional Counseling. (3-0-3); II.**  
*Prerequisite: SOC/CRIM 210, social work major, or consent of instructor.* The basic concepts and principles involved in interviewing, counseling, and group therapy which are employed in correctional facilities.

## Economics

**ECON 101. Introduction to the American Economy. (3-0-3); on demand.** Introduction to fundamental concepts and principles of economics with emphasis on institutions basic to the American economic system. (Cannot be used to satisfy the

requirements for the B.B.A.; not open to those who have had ECON 201, 202, or equivalent.)

**ECON 139. Cooperative Education I. (1 to 8 hrs.); on demand. Permission of department chair required.** Work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course. Not available for option credit.

**ECON 199. 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 201. Principles of Economics I. (3-0-3); I, II.** Theories of income, employment, monetary policy, fiscal policy, the price level, and economic growth.

**ECON 202. Principles of Economics II. (3-0-3); I, II.** The theory of the firm, resource allocation, and international economics.

**ECON 239. Cooperative Education II. (1 to 8 hrs.); on demand. Permission of department chair required.** Work experience with an extension of exposure gained in ECON 139 or of a nature similar to a sophomore status course. Not available for option credit.

**ECON 302. Labor Economics. (3-0-3); on demand. Prerequisite: ECON 101 or 201.** Labor management relations, the labor movement, labor legislation, government control and regulation, economic inequality, standards of living, and industrial conflicts.

**ECON 305. Comparative Economic Systems. (3-0-3); on demand. Prerequisites: ECON 101 or 201.** 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.); on demand. Permission of department chair required.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior level course. Not available for option credit.

**ECON 350. Microeconomic Theory. (3-0-3); I, II. Prerequisites: ECON 201 or 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 439. Cooperative Education IV. (1 to 8 hrs.); on demand. Permission of department chair required.** 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.

**ECON 476. Special Problems in Economics. (1 to 3 hrs.); on demand. Prerequisites: completion of 21 hrs. in economics and/or finance with prior consent of the 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 500. Mathematical Economics. (3-0-3); on demand.**

*Prerequisites: MATH 152, ECON 201 and 202 or equivalent.* Application of mathematical and statistical techniques to the business firm, market systems, and the study of economic and finance theory.

**ECON 501. Environmental Economics. (3-0-3); on demand.**

*Prerequisites: ECON 101 or 201 or equivalent.* Analysis of the economic reasons contributing to environmental degradation and exploration of economic policies to reduce this problem.

**ECON 503. Urban and Regional Economics. (3-0-3); on demand.**

*Prerequisites: ECON 101 or 202 or equivalent.* 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 510. History of Economic Thought. (3-0-3); on demand.**

*Prerequisites: ECON 101 or 202 or equivalent.* The origin and development of economic theories from the Mercantilist through modern times.

**ECON 539. Cooperative Education V. (1 to 8 hrs.); on demand.**

*Permission of department chair required.* Work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students. Not available for option credit.

**ECON 541. Public Finance. (3-0-3); on demand.**

*Prerequisites: ECON 101 or 201, or 202 or consent of instructor.* Public expenditures; public revenue; taxation; public credit; financial administration of government.

**ECON 545. Industrial Organization and Public Policy. (3-0-3); on demand.**

*Prerequisites: ECON 101 or 202, or equivalent.* Forms of business combination; the problem of business concentration and monopoly; the role of the regulatory agency; antitrust legislation and interpretation.

**ECON 547. International Economics. (3-0-3); on demand.**

*Prerequisites: ECON 101 or 202, or equivalent.* International trade theory, international monetary relationships, and the balance of payments. Emphasis is placed on contemporary problems and possible solutions.

**ECON 551. Macroeconomic Theory. (3-0-3); on demand.**

*Prerequisites: ECON 101 or 201, or equivalent.* National income accounting; macroeconomic theories of output determination, employment, inflation, and growth; monetary and fiscal policies to control aggregate economic activity.

**ECON 555. Economic Development and Growth. (3-0-3); on demand.**

*Prerequisites: ECON 201 and 202 or equivalent.* Classical and modern theories of growth and development and their application in both advanced and underdeveloped nations.

**ECON 590. Economic Education for Teachers. (3-0-3); on demand.**

Fundamental economic concepts and their application and integration in education (cannot be used to satisfy requirements for the B.B.A., nor as an elective in the MBA program).

**ECON 599. 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 Education)

**EDAH 102. Study Skills. (1-0-1); I, II (Each 9-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.); I, II, III.** 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 150. Skills for Preschool Teachers. (3-0-3); II.** A study of classroom skills needed by preschool teachers to promote the physical, intellectual, social and emotional development of young children. (This course is only open to those in the Child Development Associate Program—CDA.)

**EDEC 199. Workshop. (1 to 3 hrs.); I, II, III.** 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.); I, II, III.** Continuation of EDEC 199.

**EDEC 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.

**EDEC 527. The Pre-School Child. (3-1-3); I, III.** 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. (3-1-3); II, III.** 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); I, II, III.** *Prerequisites: EDEC 527, 528, and admission to teacher education program.* Students are assigned to pre-school classroom 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.); I, II, III.** *Prerequisites: 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--K-4)

**EDEE 305. Learning Theories and Practices in Early Elementary. (3-0-3).** *Prerequisites: PSY 154, EDF 207, and EDF 211.* A comprehensive study of contemporary developments in the field of early elementary education including the applications of learning theories to classroom practices; the historical and philosophical origins of current curricular content and practices in early education; and an examination of research findings; study of the impact of familial, economic, and social factors on school performance of learners in the K-4 range.

**EDEE 321. Teaching Math in Early Elementary Grades. (3-0-3);** *Prerequisites: Admission to the Teacher Education Program, Math 231 and EDEM 330.* 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).** *Prerequisites: Admission to the Teacher Education Program, 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 K-4. (Clinical and field experiences are an integral part of this course.)

**EDEE 323. Language Arts for Early Elementary. (3-0-3).** *Prerequisites: Admission to the Teacher Education Program and EDEM 330.* Role of language arts in the early elementary curriculum. Diagnosis of children's communications skills, needs, and subsequent teaching techniques are central to the course. Areas of emphasis include language development, listening and thinking skills, speaking, written expression, spelling, and handwriting. (Clinical and field experiences are an integral part of this course.)

**EDEE 327. Literature and Materials for Young Readers. (3-0-3).** A survey of children's literature from oral tradition through contemporary times, including all types of literature and media appropriate for Early Elementary K-4. 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).** *Prerequisites: EDF 207, EDF 211, EDEM 330, and Admission to Teacher Education Program.* Material and methods of teaching basic reading skills in grades K-4. 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. (12-0-12).** *Prerequisites: 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 090. Reading Enrichment. (3-0-3); III.** An individualized preparatory course designed to improve reading and study skills and prepare students for college level work.

**EDEL 110. Developmental Reading I. (2-2-3); I, II.** Provides diagnostic independent guided improvement of reading skills. Vocabulary and improved comprehension skills are stressed.

**EDEL 111. Developmental Reading II. (2-2-3); I, II.** *Prerequisite: EDEL 110.* Continuation of Developmental Reading I.

**EDEL 112. Reading English as a Second Language. (2-2-3); I, II, III.** Individualized program for teaching vocabulary and reading skills to the non-English speaking student.

**EDEL 199. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in elementary education. Maximum of six semester hours may be earned under this course number.

**EDEL 250. Practicum. (1 to 6 hrs.); I, II, III.** Experiences include placement in either a classroom or simulated classroom laboratory.

**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); I, III.** *Prerequisites: admission to teacher education program and approval of head of the department.* 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 337. Reading Strategies for the Elementary Teacher. (2-2-3); I, II, III.** *Prerequisites: admission to teacher education program and EDEL 336 or equivalent.* Materials and methods of teaching advanced reading skills in grades K-8. Students are taught how to teach skills needed for content area reading. Various types of grouping techniques stressed. (Laboratory experiences an integral part of this course.)

**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, III.** The development of competencies in the use of microcomputers for instruction, management, information processing, computer assisted instruction, and practical high-level programming applications through programming assignments. Hardware and operating systems are covered. Designed primarily for students without previous data processing instruction (cross listed with CIS 516).

**EDEL 599. Workshop. (1 to 3 hrs.); 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 (Early Elementary and Middle Grades)

**EDEM 330. Foundations of Reading.** (3-0-3); I, II, III. *Prerequisite: 24 semester hours including EDF 207, EDF 211, EDSP 230 and EDEE 305 or EDMG 306 (Orientation/Exploration, Preparation Level and Home Economics students are exempt from prerequisites not required in their program).*

An explanation of the developmental aspects of the reading process in grades K-8 in terms of instruction, assessment, materials, and classroom organization.

**EDEM 426. Pre-Student Teaching Seminar.** (1-0-1); I, II. *Prerequisite: Admission to the professional semester.* A group seminar to address current issues and topics in education. Taken during the professional semester.

## Education (Middle Grades--5-8)

**EDMG 306. Development and Learning in Middle Grades.** (3-0-3); I, II. *Prerequisite: EDF 211.* 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. *Prerequisites: EDF 207, EDF 211, EDEM 330, and admission to the Teacher Education Program. (Orientation/Exploration, Preparation Level and Home Economics 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 5-8. 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 5-8 are an integral part of this course.)

**EDMG 341. Teaching Math in Middle Grades.** (3-0-3); I, II, III. *Prerequisites: MATH 231, EDEM 330 and admission to the Teacher Education Program.* 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 5-8 are an integral part of this course.)

**EDMG 342. Teaching Social Studies in the Middle Grades.** (3-0-3); I, II. *Prerequisite: Admission to the Teacher Education Program, 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 5-8. (Clinical and field experiences in grades 5-8 are an integral part of this course.)

**EDMG 343. Language Arts in Middle Grades.** (3-0-3); II. *Prerequisites: Admission to the Teacher Education Program, EDF 207, 211, EDSP 230, EDMG 306 and EDMG 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, III. 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 5-8. Emphasis on criteria for evaluation and selection of materials, reading interest, needs, and abilities of preadolescence.

**EDMG 446. Supervised Student Teaching.** (12-0-12); I, II. *Prerequisite: Completion of requirements for admission to the professional semester.* Placement in a student teaching center during which time observation, participation, and student teaching are done. Special conferences with the supervising teacher, attendance, and participation in faculty meetings and co-curricular activities are also required.

## Education (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 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 adulthood and their implications for elementary and secondary teachers. (Laboratory experiences an integral part of course.)

**EDF 311. Learning Theories in the Classroom.** (3-0-3); I, II, III. *Prerequisite: admission to teacher education program.* Study of the principles of learning and motivation as they are applied in the classroom. (Laboratory experiences an integral part of course.)

**EDF 360. History of Education.** (3-0-3). 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 contribution.

## 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 199. Selected Topics.** (1 to 3 hrs.); I, II, III. Investigation of specific problem areas in field of study. May be repeated in additional subject areas.

**EDGC 364. Career and Vocational Guidance.** (3-0-3); II. Study of concept of career education, and exploration of emerging role of the guidance counselor in regard to problems that exist in present educational system; innovative concept of career education; 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.

**EDGC 566. Introduction to Vocational Rehabilitation Services.** (3-0-3); I, III. History of vocational rehabilitation movement, legislative efforts, and impact; overview of the 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 permission of instructor.** In-depth study of various target populations in need of rehabilitation services, including physically disabled, public offenders, delinquents, drug addicts, aged, mentally ill, mentally retarded, and the educationally, socially, and culturally disadvantaged.

**EDGC 599. Workshop. (1 to 3 hrs.); I, II, III.** 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 (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. Prerequisite: admission to teacher education program 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.** The course provides students with opportunities to develop the pedagogical knowledge and skills required to perform successfully the tasks of planning, implementing, and evaluating instructions.

**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 415. 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.)

**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, co-curricular activities, and the National Teacher Exam required. (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 516. Educational Data Processing. (3-0-3); I, II, III.** The development of competencies in the use of microcomputers for instruction, management, information processing, computer assisted instruction, and practical high-level programming applications through programming assignments. Hardware and operating systems are covered. Designed primarily for students without previous data processing instruction.

**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.); 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 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. Should be taken concurrently with EDSP 230.

**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.** Introductory course in speech correction for classroom teacher. (Same as SPCH 320.)

**EDSP 332. Teaching the Exceptional Student. (2-2-2); I, II. Prerequisite: EDF 311.** 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 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 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 teacher education program; attainment of scholastic standing of 2.50 on residence courses at Morehead State; minimum standing of 2.50 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 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 435. Supervised Teaching Practicum. (4 to 12 hrs.); I, II, III. Prerequisites:** admission to teacher education program; attainment of scholastic standing of 2.50 on residence courses at Morehead State; minimum standing of 2.50 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 in public school special education and elementary education classrooms on the basis of one week placement for each credit hour unit. (Application made through the director of student teaching.)

**EDSP 436. Supervised Teaching Practicum. (4 to 12 hrs.); I, II, III. Prerequisites:** admission to the teacher education program; attainment of a scholastic standing of 2.50 on residence courses at MSU; minimum standing of 2.50 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 in a public school setting with trainable mentally handicapped students and in regular elementary classrooms on the basis of one week placement for each credit hour unit. (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, 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 547. The Trainable Mentally Handicapped. (3-0-3); I, III. Prerequisites:** EDSP 230 and 350. Etiology and symptomatology of trainable mentally handicapped children and assessment procedures appropriate with children who are severely to profoundly handicapped.

**EDSP 551. Curriculum for Pre-School Exceptional Children. (2-2-3); 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);** 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 30, 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 556. Teaching the Trainable Mentally Handicapped. (2-2-3); II, III. Prerequisites:** EDSP 547 and 350. Application of methods and materials for teaching trainable mentally

handicapped. Construction and use of instructional aids to be used with handicapped individual.

**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 teacher 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). Prerequisite:** EDSP 552. Application of materials and methods (including construction of instructional aids) for teaching student with learning disabilities.

**EDSP 581. Educational Statistics. (2-2-3);** Introduction of statistical and graphical methods to educational and psychological logical data. Includes areas of descriptive and inferential statistics that apply to educational research.

**EDSP 599. Workshop. (One to three hours); I, II, III.** Supervised practice in working in specific areas of special education.

## 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.

**EDUC 576. Reading in the Secondary School. (2-2-3); II, III.** 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.** Designed to provide assistance in establishing an organized, well-managed classroom. Emphasis on available options and alternatives in dealing with disruptive students in classroom.

## Electricity-Electronics Technology

**EET 140. Basic Electricity. (2-2-3); I, II.** General course on the laws, theories, and applications of electricity. NON-MAJORS ONLY. Majors of electricity, electronics, or robotics should take EET 141. Lab required.

**EET 141. Electrical Circuits. (2-2-3); I, II.** Introduction to direct and alternating current circuits, including resistive, inductive, and capacitive components, reactance.

**EET 213. Analog Devices and Circuits I, II. (2-2-3); I. Prerequisite:** EET 241 or consent of the instructor. Physical properties, models, and basic circuit design of transistor and semiconductor devices.

**EET 214. Analog Devices and Circuits I, II. (2-2-3); II. Prerequisite:** EET 213. Continuation of EET 213. Study of analog semiconductor devices and their applications. Includes FET's, operational amplifiers, power amplifiers, and power supplies.

**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 140, or EET 141, or consent of the 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. Circuit Analysis. (3-0-3); II. Prerequisite:** *EET 141.* Mathematical analysis of DC and AC circuits using Kirchhoff's laws, Thevenin's and Norton's theorems, determinants, polar-rectangular conversions, and vectors.

**EET 243. Power Transformers and Distribution. (2-2-3); I. Prerequisite:** *EET 141 or consent of the instructor.* The study of electrical power generation and distribution. Analysis of transformers and transmission lines, and methods of producing electrical power. Lab required.

**EET 245. Digital Electronics. (2-2-3); II. Prerequisites:** *EET 241 or consent of the instructor.* Functional and logical operation of digital circuits, including logic gates, combinational logic, multivibrators, counters and registers.

**EET 343. Motors and Generators. (2-2-3); II. Prerequisite:** *EET 243 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 242 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 443. Industrial Electricity. (2-2-3); II. Prerequisites:** *EET 241 and EET 240 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.

**NOTE:** English 101 and 102 or 192, or English 103 are prerequisites for all other English courses.

**ENG 101. Composition I. (3-0-3).** Development of writing ability, basic problems of structure of language, frequent papers.

**ENG 102. Composition II. (3-0-3).** Continuation of ENG 101; emphasis on critical thinking; frequent papers, including a short research paper.

**ENG 103. Composition III. (3-0-3).** An advanced placement composition course which covers in one semester the essential material of ENG 101 and 102.

**ENG 192. Technical Composition. (3-0-3).** Continuation of 101, with emphasis on the writing of scientific-industrial directions, letters, and memos, abstracts, minor project reports, and the use of visual aids.

**ENG 202. Introduction to Literature. (3-0-3).** Extensive reading in poetry, fiction, and drama, with emphasis on basic principles of literary evaluation. (Not recommended for English area, major, or minor students.)

**ENG 211. Introduction to World Literature I. (3-0-3).** Analysis of selected masterpieces of literature from the early Greeks to the Renaissance, with emphasis on ideas basic to the Western tradition.

**ENG 212. Introduction to World Literature II. (3-0-3).** Analysis of selected masterpieces of literature from the Renaissance to the present, with emphasis on ideas basic to the Western tradition.

**ENG 305. Introduction to Linguistics. (3-0-3).** Introduction to the major areas of contemporary linguistics.

**ENG 310. Introduction to Science Fiction. (3-0-3).** Representative science fiction short stories and novels, mostly by British and American authors of the twentieth century; occasional films; independent reading.

**ENG 315. Structure of English. (3-0-3).** The structures of the English language from the perspective of descriptive and structural linguistics.

**ENG 320. Women Writers and Feminist Perspectives. (3-0-3).** 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.

**ENG 325. Religious Literature of the World. (3-0-3).** The literature of the major religions of the world.

**ENG 331. British Literature to 1750. (3-0-3).** A survey of British literature from *Beowulf* through Dr. Johnson.

**ENG 332. British Literature since 1750. (3-0-3).** A survey of British literature from Wordsworth to the present.

**ENG 341. American Literature to 1850. (3-0-3).** A survey of American literature from its colonial beginnings to Whitman.

**ENG 342. American Literature since 1850. (3-0-3).** A survey of American literature from Whitman to the present.

**ENG 344. The Short Story and the Novel. (3-0-3).** Study of representative forms of the short story and the novel.

**ENG 348. African-American Literature. (3-0-3).** A study of African-American poets, playwrights, autobiographers, and novelists of the nineteenth and twentieth centuries.

**ENG 360. Appalachian Literature. (3-0-3).** 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).** Readings in the major representative Southern authors.

**ENG 367. Old Testament Literature. (3-0-3).** A critical study of the history and literature of the Old Testament.

**ENG 368. New Testament Literature. (3-0-3).** A critical study of the history and literature of the New Testament.

## English

**ENG 090. Developmental Writing. (3-0-3).** 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).** 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 373. Introduction to Women's Studies. (3-0-3); I, II.** *Prerequisites: Completion of the (9 hour) general education requirement in English and Literature or consent of instructor.*

A survey course designed to develop student's 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.

**ENG 389. Honors Seminar in Literature. (3-0-3).** Intensive analytical study of a technique, movement, theme, author, or genre. Restricted to Honors Program students.

**ENG 391. Advanced Expository Writing. (3-0-3).** Practice in the writing of expository prose, and long essays based on research.

**ENG 393. History of the English Language. (3-0-3).** 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).** Introduction to sociolinguistics. Focus on language variation and issues of language, gender, race, power, and education.

**ENG 395. Poetry Writing. (3-0-3).** *Prerequisite: ENG 202, 211, or 212.* 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).** *Prerequisite: ENG 202, 211, or 212.* 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 399. Special Courses. (1 to 3 hrs.).** *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).** A study of selected comedies, histories, and tragedies in their historical and critical context.

**ENG 436. The English Renaissance. (3-0-3).** Selected literature from 1500 to 1600, including works by Skelton, Wyatt and Surrey, Sidney, Spenser, and Shakespeare (excluding his plays).

**ENG 441. Restoration and Eighteenth Century British Literature. (3-0-3).** Representative selections of English literature, including works by Dryden, Pope, Swift, Addison and Steele, and Johnson.

**ENG 442. Romantic Writers. (3-0-3).** Representative selections of English literature, including works by Wordsworth, Coleridge, Byron, Shelley, Keats, and the essayists.

**ENG 443. Victorian Writers. (3-0-3).** Representative selections of English literature, including works by Browning, Tennyson, Arnold, and Carlyle.

**ENG 444. Twentieth Century British Literature. (3-0-3).** Study of modern British literary genres.

**ENG 466. American Poetry. (3-0-3).** 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 476. Directed Studies. (1 to 3 hrs.).** *Prerequisite: consent of the instructor and the 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 499. Seminar: Major Writers. (3-0-3).** Intensive study of one or more major figures in the literature of the world.

**ENG 500. Studies in English for Teachers. (3-0-3).** The philosophy, rationale, and content of English in American middle and high schools.

**ENG 501. General Semantics. (3-0-3).** Presents the problems of meaning as related to referential, distributional, and rational ways of encountering experience.

**ENG 503. Teaching Writing. (3-0-3).** Study of composition theory, research, and practice as applicable to the teaching and evaluation of writing for high school and college.

**ENG 505. Linguistics: Grammar. (3-0-3).** Principles of structural, transformational, generative, and tagmemic grammar.

**ENG 528. Literary Criticism. (3-0-3).** 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).** Development of the English novel from its beginnings to the twentieth century.

**ENG 534. Chaucer. (3-0-3).** 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).** Intensive reading of Milton's poetry and major prose.

**ENG 544. American Folklore. (3-0-3).** A study of such traditional oral forms as the proverb, tale, epic, ballad, and folk song.

**ENG 545. Seventeenth Century British Literature. (3-0-3).** English literature 1600-1660; Donne, Jonson.

**ENG 552. Early Dramatic Literature. (3-0-3).** Representative dramas from the Greeks to the mid-nineteenth century.

**ENG 553. Modern Drama. (3-0-3).** Representative dramas from the advent of realism to the present.

**ENG 561. Studies in American Literary Periods. (3-0-3).** The study of the writers and genres of an American literary period.

**ENG 563. American Fiction. (3-0-3).** The development of American fiction from Charles Brockden Brown to Faulkner.

**ENG 570. Introduction to Film Literature. (3-0-3).** 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.)** *Prerequisite: consent of the instructor and the 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).** *Prerequisite: completion of ENG 395 or 396, or approval of the 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.

**ENG 584. Advanced Fiction Writing. (3-0-3).** *Prerequisite: completion of ENG 395 or 396, or approval of the instructor.* Advanced instruction in fiction writing: plot, conflict, characterization, point of view, atmosphere and other concerns

of contemporary fiction. Intensive writing workshop format with emphasis on contemporary fiction and the audience and market for literary fiction.

**ENG 591. Technical Writing I. (3-0-3).** Principles of analysis, process, and definition; progress, recommendation, and research reports; proposals and memoranda; visual aids; transitions, mechanics of clear and precise statement.

**ENG 592. Technical Writing II. (3-0-3).** *Prerequisite: consent of instructor.* Continuation of ENG 591.

**ENG 597. Technical Editing. (3-0-3).** *Prerequisite: ENG/JOUR 591 or permission of the instructor.* Study of the practice and management of editing for technical, scientific, professional, and corporate reports and writings.

**ENG 599. Special Courses. (1 to 3 hrs.).** *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 139. Cooperative Education I. (1 to 8 hrs.); on demand.** *Permission of department chair required.* Work experience in a field relevant to the student's career objective and academic preparation. Experience is usually analogous to a freshman level course. Not available for option credit.

**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 239. Cooperative Study II. (1 to 8 hrs.); on demand.** *Permission of department chair required.* Work experience with an extension of exposure gained in FIN 139 or of a nature similar to a sophomore status course. Not available for option credit.

**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.

**FIN 325. Bank Management. (3-0-3); on demand.** *Prerequisite: ACCT 282, ECON 101, 201, or 202.* Organization and operation of the commercial bank.

**FIN 339. Cooperative Education III. (1 to 8 hrs.); on demand.** *Permission of department chair 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 201.* Origin, development, and functions of money; banking functions and processes; the Federal Reserve System and monetary policy.

**FIN 343. Investments. (3-0-3); on demand.** *Prerequisite: ECON 101 or 202.* Investment risks, security analysis, investment policy-making, both individual and institutional.

**FIN 360. Business Finance. (3-0-3); I, II.** *Prerequisites: ACCT 282, ECON 101 or 202, 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 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 407. Principles of Insurance. (3-0-3); on demand.** *Prerequisite: ECON 101 or 202 and junior standing.* A general course in risk and insurance, including basic insurance concepts, legal principles, property and liability insurance, life and health insurance, and the insurance industry organization and operations.

**FIN 439. Cooperative Education IV. (1 to 8 hrs.); on demand.** *Permission of department chair required.* 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.

**FIN 443. Portfolio Analysis. (3-0-3); on demand.** *Prerequisites: FIN 360, 343, and MATH 354.* Includes study of portfolio theory, risk analysis, portfolio management. Applications including computer analysis of financial data stressed.

**FIN 460. Advanced Business Finance. (3-0-3); on demand.** *Prerequisites: FIN 360, ACCT 387, and MATH 354.* Includes intensive study of capital budgeting, cost of capital, capital structure, special topics in finance.

**FIN 476. Special Problems in Finance. (1 to 3 hrs.); on demand.** *Prerequisite: Completion of 21 hours in finance and/or economics with prior consent of the 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.** *Prerequisites: ECON 101 or 201 and 202 or equivalent 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 490. Seminar in Financial Theory and Practice. (3-0-3); II.** *Prerequisites: FIN 360, 342, and 343 or equivalent.* 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 539. Cooperative Education V. (1 to 8 hrs.); on demand.** *Permission of department chair required.* Work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students. Not available for option credit.

**FIN 560. Financial Markets. (3-0-3); on demand.** *Prerequisites: ECON 201 and 202 or equivalent.* Institutional and business factors that influence demand and supply of funds, effect on price movements, detailed analysis of money and capital markets.

**FIN 599. 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. Appreciation of the Fine Arts. (3-0-3); I, II, III.** To make students aware of the relationship of the common core which permeates all the arts.

**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).** Emphasis on developing communicative skills. Listening, speaking, reading, writing. Basic grammar and orientation to French culture. Video and audio components.

**FRN 102. Beginning French II. (3-0-3).** Continuation of 101. Use of four skills for effective communication in a variety of situations.

**FRN 201. Intermediate French. (3-0-3).** Continuation of 102. Increased emphasis on interactive language and grammatical competency.

**FRN 202. Conversation and Composition. (3-0-3).** Continuation of 201. Listening and reading for proficiency. Creative personal expression in speaking and writing.

**FRN 203. Introduction to France. (3-0-3).** Continuation of 202. Implementation of four skills into broad-based dialogue and discussion relating to all aspects of French culture and civilization.

**FRN 301. Advanced Grammar and Composition. (3-0-3).** *Prerequisite: FRN 202 or permission 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).** *Prerequisite: FRN 202 or permission of instructor.* In-depth analysis of phonology and articulation. Speaking practice in a variety of styles, emphasizing corrective pronunciation and fluency.

**FRN 303. Survey of French Literature I. (3-0-3).** *Prerequisite: FRN 202 or permission 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).** *Prerequisite: FRN 202 or permission 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); I, II.** *Prerequisite: FRN 301 or permission of instructor.* Analysis and imitation of native speech patterns. Practice in aural/oral communication for a variety of situations. May be repeated 3 times for credit.

**FRN 403. Seminar in French Literature I. (3-0-3).** *Prerequisite: FRN 303 or 304 or permission of instructor.* A seminar on an author, genre, or period in Medieval or Early Modern French literature (up to 1750). May be repeated two times for credit.

**FRN 404. Seminar in French Literature II. (3-0-3).** *Prerequisite: FRN 303 or 304 or permission of instructor.* A

seminar on an author, genre, or period in modern French literature (after 1750). May be repeated two times for credit.

**FRN 405. Linguistics and Language Teaching. (3-0-3).** For French teaching majors and minors. 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.).** *Prerequisite: Consent of the instructor and the 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.

**FRN 550. Reading French I. (3-0-3).** *Prerequisite: Permission of the instructor.* Intensive practice in reading of the French language, with rapid and correct idiomatic translation as the aim.

**FRN 551. Reading French II. (3-0-3).** *Prerequisite: FRN 550 or permission of the 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.).** *Prerequisite: Consent of the instructor and the 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.

**FRN 599. Special Courses. (1 to 3 hrs.).** *Prerequisites: Variable.* These courses are usually specialized offerings in French for the advanced undergraduate and graduate student. The purpose of these courses is to enhance the existing program in French.

## Geography

**GEO 100. Fundamentals of Geography. (3-0-3); I, II, III.** Man's varied responses and adjustments to his natural and cultural environment; human activity within major regions of the world. Basic to further study in geography.

**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.

**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. Emphasis is on the interaction between man and his environment in various environmental settings.

**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 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.

**GEO 331. Europe. (3-0-3); on demand.** 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 man's 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: Physical geography or geology.** 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. See GOVT 372.

**GEO 383. Asia. (3-0-3); on demand.** The man-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. (1-4 hours); 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 450. Teaching Social Studies. (3-0-3); I, II.** See HIS 450.

**GEO 476. Special Problems. (1-3 hours); on demand. Prerequisite: Consent of instructor.** Research project or directed readings on a special topic developed with the instructor.

**GEO 500. Soviet Union. (3-0-3); on demand.** Systematic and regional study, with special attention given to the resource base. Appraisal of the agricultural and industrial strengths of the country; consideration of the effects of governmental policy and economic growth.

**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 students not having a background for 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 relationships. 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 540. World Manufacturing. (3-0-3); on demand.** Interpretive analysis of the distribution and function of selected manufacturing industries; location theory, trends in regional industrial changes.

**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 590. Applied Meteorology. (3-0-3); on demand. Prerequisite: GEO 390.** Weather elements, emphasis on meteorological skills; application to industrial, aviation, maritime and military needs.

**GEO 599. Selected Topics in Geography. (1-4 hours); 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.

## Geoscience

**GEOS 100. Physical Geology. (0-2-1); I, II, III.** An introductory study of common minerals, rock classes, and topographic and geologic maps.

**GEOS 107. Introduction to Geoscience. (3-0-3); I, II, III.** A general survey of earth; its astrogeological setting, its fluid portion, its solid part, its active processes, its history, the role of geology in preserving earth's resources. See SCI 107.

**GEOS 199. Selected Topics. (1 to 6 hrs.); on demand.**

**\*GEOS 200. Coal Mining Geology. (3-0-3); I. Prerequisite: GEOS 100.** A study of coal and coal-bearing rocks together with the application of geologic techniques of surface and underground mining.

**\*GEOS 201. Historical Geology. (2-2-3); II. Prerequisites: GEOS 100 and 107.** Physical events in the earth's history; structure of sedimentary facies of each major stratigraphic subdivision; fossil record from the Precambrian period.

**GEOS 239. Cooperative Education. (1 to 8 hrs.); I, II, III.** Participation in supervised work experience in a professional environment. Department approval is required.

**GEOS 240. Oceans. (3-0-3); I.** An elective semi-technical course providing a broad general background in the biological, chemical, physical, and geological aspects of oceans and ocean basins; various types of pollution and future economic potentials of the oceans.

**GEOS 262. Mineralogy. (2-4-4); II in alternate years. Prerequisites: GEOS 100 or CHEM 102 or 112.** Physical and chemical properties of minerals, chemical, optical, and X-ray methods of identification; systematic survey of common mineral groups.

**\*GEOS 276. Geologic Methods. (2-2-3); I. Prerequisites: GEOS 201 or permission of instructor.** Emphasis on basic laboratory and field techniques and instruments relevant to geologic studies.

GEOS 299. Selected Topics. (1 to 6 hrs.); on demand.

GEOS 300. Petrology. (3-2-4); II in alternate years.

*Prerequisite:* GEOS 262 or permission of instructor. Modes of occurrence and origin of igneous, sedimentary and metamorphic rocks in relation to geologic processes; methods of identifying and classifying rocks.

\*GEOS 315. Stratigraphy and Sedimentation. (2-4-4); I in alternate years. *Prerequisite:* GEOS 201 or 510. Geologic correlation of stratal units; facies analyses, systematic analysis of sedimentary rocks, and biostratigraphic studies.

\*GEOS 325. Structural Geology. (3-2-4); I in alternate years. *Prerequisites:* GEOS 201 and MATH 141 (or its equivalent). Mechanical properties of rocks and dynamics of rock deformation. Folds, faults, joints, cleavage, igneous structures.

GEOS 339. Cooperative Education. (1 to 8 hrs.); I, II, III. Participation in supervised work experience in a professional environment. Department approval is required.

\*GEOS 350. Geomorphology. (2-2-3); II in alternate years. *Prerequisite:* GEOS 107 or GEO 100. Land surfaces; topographic form and geologic history; morphologic analysis.

\*GEOS 376. Environmental Geology. (3-0-3); II. *Prerequisite:* GEOS 100. Man's relationship to the geological environment. Geological hazards; mineral resources and the environment; urban geology.

\*GEOS 379. Invertebrate Paleontology. (2-4-4); I in alternate years. *Prerequisites:* GEOS 201, BIOL 210 or GEOS 410. Invertebrate animals, their morphology, classification, paleoecology, phylogeny, and stratigraphic succession; faunal assemblages and research techniques.

GEOS 399. Selected Topics (1 to 6 hrs.); on demand.

\*GEOS 410. Geological History of Plants and Animals. (2-2-3); on demand. *Prerequisites:* BIOL 210 and 215 or GEOS 201. The evolutionary history of plants and animals throughout geological time.

\*GEOS 413. Micropaleontology. (2-2-3); on demand. *Prerequisite:* GEOS 201. Collection, preparation, microscopic investigation, classification, paleoecology, and stratigraphic succession of microfossils.

GEOS 415. History of Geology. (2-0-2); on demand. Development of geological thought; important persons and their contributions to our knowledge of the earth.

GEOS 420. Optical Mineralogy. (2-2-3); I. *Prerequisite:* GEOS 262 or permission of instructor. Behavior of light in isotropic and anisotropic minerals. Identification of minerals with polarizing microscope.

GEOS 425. Introduction to Hydrogeology. (2-2-3); II. *Prerequisites:* GEOS 100; GEOS 200 or higher level GEOS course; MATH 152; CHEM 112 or CHEM 201; or permission of the instructor. Origin and movement of ground water; geology of ground water occurrence; basic principles of water chemistry and water quality; introduction to sources of ground water contamination and methods of monitoring and remediating ground water.

GEOS 439. Cooperative Education. (1 to 8 hrs.); I, II, III. Participation in supervised work experience in a professional environment. Department approval is required.

\*GEOS 450. Economic Geology. (3-0-3); on demand. *Prerequisites:* GEOS 262 or consent of the instructor. Formation and occurrence of major metallic and nonmetallic mineral deposits of the world.

GEOS 476. Special Problems. (1 to 6 hrs.); I, II, III. *Prerequisite:* consent of instructor. Topic to be approved prior to registration.

GEOS 499. Selected Topics (1 to 6 hrs.); on demand.

GEOS 599. Selected Topics (1 to 6 hrs.); on demand. \*Field trip required or recommended.

## German

GER 101. Beginning German I. (3-0-3). Fundamentals of structure: basic vocabulary, reading, writing, pronunciation and some conversation.

GER 102. Beginning German II. (3-0-3). A continuation of GER 101.

GER 201. Intermediate German I. (3-0-3). A review of grammar and pronunciation, with emphasis on reading of contemporary writings.

GER 202. Intermediate German II. (3-0-3). *Prerequisite:* GER 201. A continuation of GER 201.

GER 203. Expository German. (3-0-3). 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). Further development of language skills. Extensive experience in the language laboratory is required.

GER 302. Composition and Conversation. (3-0-3). A continuation of GER 301 with greater emphasis on stylistics.

GER 303. Advanced Expository German. (3-0-2). Extensive reading in the contributions of the German-speaking world to the fine arts, business, and special and exact sciences.

GER 310. The German Novelle. (3-0-3). The Novelle from Goethe to the present.

GER 311. German Literature to 1880. (3-0-3). A general of German literature from old High German to Hebbel and Ludwig.

GER 312. German Literature since 1880. (3-0-3). A survey of German literature from Hauptmann to the present.

GER 320. German Literature from 1750 to 1800. (3-0-3). A survey of the literature of Germany in the latter half of the eighteenth century.

GER 330. The German Lyric. (3-0-3). An intensive study of German lyric poetry from 1730 to the present.

GER 405. Linguistics and Language Teaching. (3-0-3). For German minors. Seminar for minors in various foreign languages; requires projects appropriate to the specialty of each.

GER 420. German Drama of the Nineteenth Century. (3-0-3). Major representative plays and their background.

GER 440. Literature of the Twentieth Century. (3-0-3). Major modern German writers.

GER 480. Independent Study. (3-0-3). A close reading of selected texts for their literary merit. Open only to students minoring in German. May be repeated once for credit.

## 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 the national government; and domestic and foreign policy.

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 312. Western Political Thought. (3-0-3); I.** A study of the political ideas of ancient, medieval, and modern political thinkers including Plato, Aristotle, Machiavelli, Hobbes, Montesquieu, Lock, Rousseau, Mill, and Marx.

**GOVT 314. American Political Thought. (3-0-3); II in alternate years. Prerequisite: GOVT 141.** A study of the formation, evolution, and current character of American political ideas with particular emphasis on the major political thinkers and their ideas in shaping the structure of political life.

**GOVT 316. Contemporary Political Ideologies. (3-0-3); II in alternate years. Prerequisites: GOVT 141.** 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 321. Constitutional Law: Governmental Powers. (3-0-3); I. Prerequisites: GOVT 141.** 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. Prerequisite: GOVT 141.** 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 or consent of the instructor.** A study of the political and legal aspects of major environmental policies including the impact of energy policies on environmental health and safety.

**GOVT 326. Street Law. (3-0-3); II.** A study of practical criminal and civil law which every citizen should know. This course may not be taken for Paralegal Studies credit.

**GOVT 327. Legal Research and Writing. (3-0-3); I, II. Prerequisite: GOVT 141 or PLS 210 or consent of the instructor.** A study of legal materials, the development of research techniques, and case and statutory analysis with extensive practice in writing legal memoranda and briefs for trial and appellate practice. (Paralegal Studies students are encouraged to take both GOVT 141 and PLS 210 prior to this course in order to maintain the recommended course sequence.)

**GOVT 330. Parliamentary Democracies. (3-0-3); I.** A study of the constitutional development, political organization, legislatures, administration, and courts of the governments of the United Kingdom, France, and Germany.

**GOVT 334. Russia and Eastern European Governments. (3-0-3); II.** A study of the Soviet political system; its ideological base, governing structures, and political processes; and an analysis of the major Eastern European governments and their political life.

**GOVT 336. Politics of the Non-Western World. (3-0-3); on demand.** A study of contemporary political institutions and the dynamics of the political process in Latin America, Africa, Middle East, and Asia. The geographical areas and nations studied may vary each semester.

**GOVT 340. Congress and the Federal Bureaucracy. (3-0-3); II.** 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 341. Political Behavior. (3-0-3). On demand. Prerequisite: GOVT 141 or consent of the instructor.** A study of mass and elite political behavior including political socialization,

attitudes, and opinions; voting behavior; and government decision making.

**GOVT 342. The American Presidency. (3-0-3); I.** 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 in alternate years. Prerequisite: GOVT 141 or consent of the instructor.** 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 in alternate years. Prerequisite: GOVT 242 or consent of the instructor.** A study of the nature, organization, powers, and functions of Kentucky state government.

**GOVT 345. Appalachian Politics. (3-0-3); II in alternate years. Prerequisite: GOVT 242 or consent of the instructor.** A study of the politics and institutions of the Appalachian region.

**GOVT 347. American Public Policy. (3-0-3); II. Prerequisite: GOVT 141.** 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. Black Politics. (3-0-3); II in alternate years. Prerequisites: GOVT 141 or consent of the instructor.** A study of twentieth century Black political thought and the nature of Black 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. Prerequisite: GOVT 141 or consent of the instructor.** A study of the historical evolution, theory of organization and administration, and the personal, financial, and legal aspects of public administration.

**GOVT 353. Public Personnel Administration. (3-0-3); on demand. Prerequisite: GOVT 351 or consent of the instructor.** A study of personnel utilization; concepts, principles and practice of the merit system; leadership; decision-making processes; and motivation of public employees.

**GOVT 360. United Nations and World Organizations. (3-0-3); II.** 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 Soviet-American relations, regional political conflicts, and major world issues including food, population, and human rights policies.

**GOVT 364. International Relations. (3-0-3); I. Prerequisite: GOVT 141 or consent of the 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 372. Political Geography. (3-0-3); II.** A study of the principles and concepts of political geography and their application to an understanding of political phenomenon world wide. See GEO 366.

**GOVT 373. Introduction to Women's Studies. (3-0-3); I, II. Prerequisites: Completion of the (9 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.** Special courses which supplement regular course offerings. May be repeated if the subtitle indicates a different course is being offered.

**GOVT 450. Teaching Social Studies. (3-0-3); I, II.** See History 375.

**GOVT 476. Special Problems in Government. (1-3 hours); on demand. Prerequisite: Consent of the 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 hours); I, II, III. Prerequisites: GOVT 141, GOVT 346, and Junior standing.** A two-week intensive study course in Washington, DC, during January, May, or August on major current legal, political, domestic and foreign policy issues. Prior approval of chair is required.

**GOVT 494. Washington Center Internship Program. (15 hours); I, II, III. Prerequisites: GOVT 141, GOVT 346, and Junior standing.** A semester-long work-study experience in a congressional or administrative agency office in Washington, DC. Prior approval of chair is required. Only 6 semester hours of this internship may be used in satisfaction of Government major or minor elective credit.

**GOVT 496. Frankfort Legislative Intern Program. (15 hours).** 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. Prior approval of chair is required.

**GOVT 498. Local, State, and National Government Internship. (3 hours); on demand. Prerequisites: GOVT 141 and Junior standing. GOVT 242 for state and local internships.** A supervised work-study experience in local, state, and national government. Prior approval of chair is required.

**GOVT 576. Directed Study in Government. (1-3 hours); on demand. Prerequisites: Consent of the instructor and Senior or Graduate standing.** Original research project or readings in a particular subject area of government and politics.

**GOVT 599. Selected Topics in Government. (3-0-3); on demand. Prerequisites: Consent of the instructor and Senior or Graduate standing.** 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.

design and layout, composition methods, image reproduction, screen process and bindery applications.

**GCT 103. Technical Drawing I. (1-4-3); 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 (letter-press and offset), bindery operations, and darkroom procedures for photography and photographic screen process applications to the graphic arts industry.

**GCT 203. Technical Drawing II. (1-4-3); I, 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); I. Prerequisite: GCT 203.** The historical and theoretical background for technical drawing and the study of graphic problem solving.

**GCT 215. Computer Aided Drafting. (1-4-3); I, II. Prerequisite: GCT 103.** The study and application of producing 2 and 3 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). Prerequisite: GCT 203.** 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. Prerequisites: GCT 103, 203, and 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: For industrial education majors, 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

## 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,



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); I odd. *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); on demand. *Prerequisite:* GCT 305. A technical course covering the fundamental principles, techniques, and practices of architecture. Emphasis on commercial.

**GCT 450. Machine Composition II.** (1-4-3); on demand. *Prerequisite:* GCT 350. A continuation/follow-up to GCT 350—Machine Composition I, 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.

## Health

**HLTH 150. Personal Health.** (2-0-2); I, II, III. (Course not accepted as credit toward a major or minor.) Required for all education students. Emphasis upon wellness and developing self-responsibility for achieving a healthful lifestyle.

**HLTH 160. Introduction to Health.** (3-0-3); II, III. 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 of sudden illness.

**HLTH 205. Mental Health.** (3-0-3); II. *Prerequisite:* PSY 154. Models of man, philosophy of life, standards of mental health, social factors in mental illness, stress and its effect, parent-child relations, and school problems.

**HLTH 206. Principles of Nutrition.** (3-0-3); I, II. (Same as HEC 201.)

**HLTH 300. Health in the Elementary School.** (2-1-2); I. 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 150. Focuses upon content, materials, and methodologies for teaching young children the principles and practices of health care, safety, and good nutrition.

**HLTH 303. Community Health.** (3-0-3); II, III. *Prerequisite:* HLTH 150 or HLTH 160. Foundations of health as applied to the community: population, health promotion, health protection, health services.

**HLTH 304. Health in the Secondary School.** (2-1-2); II. *Prerequisite:* Admission to the teacher education program. 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, II, and III (alternate). Emphasis on the study of the continual balancing of the different dimensions and the dynamic pursuit of holistic human needs—physical, spiritual, social, emotional, intellectual and occupational.

**HLTH 360. Family Health.** (3-0-3); II. Family and family living; nature of family, love, marriage preparation, marriage, parenthood issues.

**HLTH 415. Issues in Health.** (3-0-3); II. An overview of the major health issues throughout history with emphasis upon the Twentieth Century.

**HLTH 419. Emergency Medical Techniques.** (5-1-6); III. *Prerequisite:* HLTH 203. Development of skills in recognition of symptoms of illness and injury and proper procedures of emergency care. Reliance placed heavily upon demonstration and practice as teaching method. (Laboratory experiences are integral part of course.)

**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 303. On-site work experience in a community health setting under qualified supervision. (Laboratory experiences are integral part of course.)

**HLTH 508. General School Safety.** (3-0-3); I, II, III. *Prerequisite:* Senior or graduate classification. 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); I, II, III. Designed to survey 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 an approved, specific health problem, 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.

## History

**HIS 090. Introduction to American History.** (3-0-3); I, II. Part of the developmental studies curriculum emphasizing a basic understanding of American history through its connections with the rest of the world. Can not be applied to graduation requirements and is not transferable to another institution.

**HIS 110. Recent World History.** (3-0-3); I, II, III. Survey of human civilization from the Age of Reason to the Atomic Age.

**HIS 120. Recent American History.** (3-0-3); I, II, III. Survey of American history since the close of the Civil War.

**HIS 210. Early World History.** (3-0-3); I, II, III. Analysis of historic themes and issues up to the end of the religious wars.

**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 the 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.** America from World War to world leadership. 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 310. African American History. (3-0-3); I. Prerequisite: HIS 250.** American history from the perspective of African America. From the origins of slavery to contributions to American society.

**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 study in historical perspective, of the people and the events of the Appalachian Mountains.

**HIS 323. History of Kentucky. (3-0-3); I, III. Prerequisite: HIS 250.** 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 to the Cold War.

**HIS 355. Modern Germany. (3-0-3); on demand. Prerequisite: HIS 250.** History of Germany from initial 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 the modern world.

**HIS 358. Revolutionary Europe. (3-0-3); on demand. Prerequisite: HIS 250.** History of Europe from the Age of Absolutism to the overthrow 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 360. The World, 1914-1939. (3-0-3); on demand. Prerequisite: HIS 250.** Study that extends the results of World War I with special emphasis on communism, fascism, and nazism.

**HIS 361. The World, 1939-present. (3-0-3); on demand. Prerequisite: HIS 250.** Detailed survey of World War II and its aftermath.

**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 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 the Department.** Analysis of the philosophies of world history; 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 450. Teaching Social Studies. (3-0-3); I, II. Prerequisite: HIS 250 and at least three HIS classes at 300 level.** 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.

**HIS 471. Senior Seminar in History.** (3-0-3); I, II. *Prerequisite:* HIS 250 and HIS 399, or permission of Department. Students research, write, and publicly deliver paper. Course provides opportunity for review of professional and graduate opportunities and completion of student portfolio.

**HIS 544. Kentucky Historical Tours.** (3-0-3); I. *Prerequisite:* Permission of the Department. Opportunity to see and hear about Kentucky's historic places. Credit cannot be applied to history major or minor.

**HIS 576. American History, Directed Study.** (1 to 3 hours); on demand. *Prerequisite:* Permission of Department. *Open only to history majors and minors.* Opportunity to extend work into an area of interest.

**HIS 577. European History, Directed Study.** (1 to 3 hours); on demand. *Prerequisite:* Permission of Department. *Open only to history majors and minors.* Opportunity to extend work into area of interest.

**HIS 578. Nonwestern History, Directed Study.** (1 to 3 hours); on demand. *Prerequisite:* Permission of Department. *Open only to history majors and minors.* Opportunity to extend work into area of interest.

**HIS 599. Selected Topics in History.** (3 hours); on demand. *Prerequisite:* Permission of Department. *Open only to history majors and minors.* Special course to supplement regular offerings.

## Honors

**HON 101. The Age of Classicism.** (3-0-3); I. *Prerequisite:* Admission to the Honors Program or permission of the Honors Director and instructor. A study of Greek and Roman writings which have changed the perception of ourselves and the world.

**HON 102. The Age of Faith.** (3-0-3); II. *Prerequisite:* Admission to the Honors Program or permission of the Honors Director and instructor. The writings of major humanists and scientists are studied to show developments in the arts and sciences in the Middle Ages.

**HON 201. The Age of Enlightenment.** (3-0-3); I. *Prerequisite:* Admission to the Honors Program or permission of the Honors Director and instructor. Writings and ideas of major humanists and scientists whose discoveries have altered our perception of ourselves and our environment.

**HON 202. The Age of Uncertainty.** (3-0-3); II. *Prerequisite:* Admission to the Honors Program or permission of the Honors Director and instructor. A survey of human beings' responses to societal changes from 1850 to the present. The critical study of five major literary works that have stimulated changes in human thoughts and actions.

## Human Sciences

**HS 103. Interior Graphics I.** (2-2-3); I. Principles and techniques of drafting. Communication of design ideas by graphic representation of plans and perspectives. Introduction to computer-assisted design system.

**HS 104. Interior Graphics II.** (1-4-3); II. *Prerequisite:* HS 103 or consent of instructor. Continuation of previous drafting course, giving broader depth and scope to skills and knowledge in graphics. Experience on computer-assisted design system.

**HS 130. Elementary Food Preparation.** (2-2-3); I. Fundamental principles of food preparation. Efficient methods of preparation stressed in laboratory practice. Knowledge gained of nutritional food values and food characteristics as they relate to preparation techniques.

**HS 132. Introduction to Hotel, Restaurant, and Institutional Management.** (2-2-3); 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.** (2-2-3); II. Taught 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 220. Survey of Interior Design.** (2-2-3); I. Taught alternate years. *Prerequisite:* HS 104. Study of the principles and elements of design with emphasis on color and lighting. Study of furniture selection and arrangement.

**HS 231. Meal Management.** (2-2-3); II. *Prerequisite:* HS 130. Food for the family and consumer is studied in relation to basis for selection, comparative costs, nutritional values, storage requirements, and aesthetics of meal planning and service.

**HS 234. Computer Assisted Food Service Management.** (2-2-3); I. *Prerequisites:* HS 132. 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 hours); I, II, III. Work experience with an extension of exposure gained in HS 139 or of a nature similar to a sophomore status course.

**HS 241. Clothing Production Studio.** (2-3-3); taught alternate years. *Pre-requisite:* HS 141 or consent of instructor. Advanced construction and basic tailoring. Innovative and couture techniques.

**HS 250. Visual Merchandising.** (2-2-3); I. A study of the objectives, principles, and methods of visual merchandising. Emphasis is placed on the visual merchandising function within a retail store. Students design window displays and select interior display fixtures for retail stores.

**HS 252. Problems in Interior Design.** (2-2-3); II. Taught 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 280. Apparel Analysis.** (3-0-3); II. A study of the design principles on which apparel design is based, fashion terminology, quality manufacturing methods, and wardrobe planning. Clothing requirements for all stages of the life cycle,



including clothing needs of the physically handicapped, are studied.

**HS 290. Introduction to the Apparel Industry. (3-0-3); I.** A study of the organization and operation of the fashion industry. Includes the history of the European and American fashion industries, designers, fiber and fabric producers, apparel and accessory manufacturers, fashion market centers, and fashion publications.

**HS 327. Maternal, Infant, and Child Nutrition. (3-0-3); Taught 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); Taught alternate years. Prerequisite: HS 201.** A study of factors determining nutrient requirements for each of the physiological age groups during the life cycle.

**HS 330. Quantity Food Purchasing. (3-0-3); Taught alternate years, or concurrently with HS 334.** 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 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. Diet Therapy. (2-2-3); Taught alternate years. Prerequisites: BIOL 332, HS 201, 233.** 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 334. Quantity Food Preparation. (2-5-3); I.** Principles and techniques of quantity food preparation. Use of standardized recipes and institutional equipment. Must be followed by HS 337 in next semester.

**HS 335. Equipment and Facilities Planning. (3-0-3); Taught 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); Taught alternate years. Prerequisites: MNGT 301, HS 334, 337.** 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 337. Food Production Management. (1-6-3); II. Prerequisite: HS 334 preceding semester.** Principles of scheduling and supervision of food production.

**HS 338. Concepts of Maintenance, Engineering, and Housekeeping for Hospitality Facilities. (2-2-3); Taught 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 340. Intermediate Textiles. (2-2-3); I. Taught alternate years. Prerequisites: CHEM 101 and 101A.** Advanced study

of textile products and the raw materials from which they are made. The influence of fiber, yarn, construction method, coloration method, and finish are examined in relationship to performance and quality evaluation. Basic laboratory identification and performance testing are included.

**HS 341. Flat Pattern Design. (2-3-3); II. Taught alternate years. Prerequisites: HS 241 or consent of instructor.** Pattern making and fitting through the use of a sloper and flat pattern design techniques. Original designs will be created and constructed.

**HS 323. Textiles for Interiors. (2-2-3); II.** A study of the selection and evaluation of textile products used in commercial and residential interiors. State and federal regulations, codes, and testing procedures for commercial textiles are emphasized.

**HS 344. Historic Costume. (3-0-3); I.** The development of costume through the ages as an expression of social, economic, and cultural life of the time, and as a contribution to current fashion.

**HS 349. Clothing and Culture. (3-0-3); II. Offered alternate years. Prerequisite: none.** A study of the cultural, social, psychological and economic aspects of clothing needs and selections of individuals and groups. Emphasis of the study of clothing and appearance within larger cultural contexts in which these processes occur.

**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 355. Child Growth and Development. (3-2-3); 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 356. Preschool Administration. (3-2-3); II. Taught alternate years. Prerequisite: HS 355.** 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 357. Care and Development: Prenatal, Infants, and Toddlers. Taught alternate years. Prerequisite: HS 355 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 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 370. Residential Interior Design, Studio I. (3-2-3); I. Prerequisite: HS 220.** Planning a residential interior from problem through analysis of a family's needs for each area; the design idea from conception through finished presentation drawings. Emphasis on interior components, products available, and functional and economical design.

**HS 381. History of Interiors I. (3-0-3); I.** A study of the development of furnishings, interiors, and architecture from ancient history through the 18th century.

**HS 382. History of Interiors II. (3-0-3); II.** The development of furniture styles and interiors and the influence of architecture from American colonization through the twentieth century. Miscellaneous styles are studied.

**HS 410. Therapeutic Nutrition. (2-2-3); II. Taught alternate years. Prerequisites: BIOL 332, CHEM 301, HS 201, 328, 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 439. Cooperative Education.** (1 to 12 hours); 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 434. School Lunch Seminar.** (1 hr.); on demand. Techniques and problems related to the school lunch program.

**HS 435. Cost Controls in Hotel, Restaurant, and Institutional Management.** (3-0-3); I. Taught alternate years. *Prerequisites:* HS 330, 334, and 337. 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. Taught 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. Taught alternate years. *Prerequisites:* BIOL 332, CHEM 301, HS 201, 328. An in-depth review of the pathways of absorption, digestion, and metabolism of essential nutrients.

**HS 438. Experimental Foods.** (2-2-3); II. Taught alternate years. *Prerequisite:* HS 130 and CHEM 201. Principles of sensory evaluation of food; review of principles of food science and experimental corroboration.

**HS 441. Tailoring.** (1-4-3); I. Taught alternate years. *Prerequisites:* HS 141 and HS 241 or consent of instructor. Pattern alterations through construction of a trial muslin. Custom and speed tailoring techniques are required in coat or suit construction.

**HS 443. Community Dietetics.** (2-2-3); II. *Prerequisites:* HS 201, 328, 437, 333. Study of environmental, cultural and economic influences on food consumption patterns of groups. Survey of nutrition programs of federal, state, and local agencies. Emphasis on planning, assessing, implementing and evaluating nutrition programs in supervised clinical experiences.

**HS 450. Merchandising Applications.** (2-2-3); II. Taught alternate years. *Prerequisite:* HS 290. An analysis of essential concepts, practices and procedures related to profitable merchandising. Application of basic mathematical concepts, problem solving and terminology used by merchandisers and buyers. Computer simulation and applications to retail environment.

**HS 454. Life Management.** (3-0-3); I. Taught 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); Taught alternate years. *Prerequisite:* 355 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 460. Merchandise Display and Promotion.** (2-2-3); on demand. *Prerequisite:* HS 250 or consent of instructor. Advanced theory and application of window display and interior

store display, with actual experience in designing, presenting, and executing displays.

**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 Teaching Vocational Home Economics.** (3-0-3); I. Taught alternate years. *Prerequisites:* junior and senior standing in home economics and admission to the teacher education program. Study of the history, organization, and administration of consumer and homemaking classes, gainful home economics programs, and home economics adult education programs; role of the advisor of Future Homemakers of America organizations, principles of learning and application through use of various teaching techniques and methods.

**HS 471. Senior Seminar.** (2-0-2); II. 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.

**HS 475. Contract Design, Studio II.** (3-2-3); II. Taught alternate years. *Prerequisites:* HS 220, 104. Planning and presenting professional commercial interior designs. Emphasis on functional design, budgets, product research, lighting design, acoustics, contracts, and business procedures.

**HS 476. Special Problems.** (1 to 3 hrs.); I, II, III. Supervised study of a problem in some phase of home economics chosen by the student on the basis of individual need or interest.

**HS 477. Early Childhood Development Practicum.** (4-12 hrs.); I, II. *Prerequisites:* HS 355, HS 357, 457, 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 non-certification option; attainment of cumulative grade point average 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 490. Special Topics in Human Sciences.** (1-3); on demand. *Prerequisite:* department permission. A course designed to investigate specific topics of concern in specialized areas of home economics.

**HS 510. Preprofessional Practice in Clinical Dietetics.** (1-40-6); I. *Prerequisite:* All previous program requirements. Consists of supervised work experience with selected registered dietitians. Weekly written assignments by the student, supervisor evaluation reports, and visitation by program faculty will be used to monitor the student's progress. Clinical experience in general medical/oncology, surgery and rehabilitation, psychiatry and substance abuse, intensive care/coronary, pediatrics, and clinical dietetics staff relief.

**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. Preprofessional Practice in Community Dietetics.** (1-40-6); II. *Prerequisite:* All previous program requirements. Consists of supervised work experience with selected registered

dietitians. Weekly written assignments by the student, supervisor evaluation reports, and visitation by program faculty will be used to monitor the student's progress. Supervised experience in extended care/geriatric nutrition, dialysis clinic, maternal and child supplemental foods, home health and maternal nutrition, staff relief, out-patient teaching and quality assurance.

**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. Preprofessional Practice in Administrative Dietetics I. (1-40-6); I. Prerequisite:** All previous program requirements. Consists of supervised work experience with selected registered dietitians. Weekly written assignments by the student, supervisor evaluation reports, and visitation by program faculty will be used to monitor the student's progress. Concentration on food production in a health care setting, salad production, bakery and desserts, meat and vegetable preparation, trayline and food distribution, menu planning, purchasing, and safety and sanitation.

**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. Preprofessional Practice in Administrative Dietetics II. (1-40-6); II. Prerequisite:** All previous program requirements. Consists of supervised work experience with selected registered dietitians. Weekly written assignments by the student, supervisor evaluation reports, and visitation by program faculty will be used to monitor the student's progress. Supervised experience in cafeteria and catering, food merchandising, for-profit menu planning and purchasing, food service accounting, school lunch and quality assurance.

**HS 541. Tailoring Techniques. (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. Socio-Psychological Aspects of Clothing. (3-0-3); II. Taught alternate years. Prerequisite:** 6 hrs. in clothing and textiles. Social, psychological, and economic factors in the selection and use of clothing.

**HS 545. Clothing Design in Draping. (1-5-3); II. Taught alternate years. Prerequisite:** HS 241. Original garments created by draping on the dress form. Dress form will be constructed in the course. Taught alternate years.

**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 members.

**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 Home Economics. (3-0-3); I. Taught alternate years.** Development of middle grades, secondary, and post-secondary home economics programs; review of home economics curriculum at all grade levels for useful and gainful programs; a critical survey of resources; development of competency-based curriculum in the five areas of home economics.

**HS 590. Creative Foods. (1-2-3); on demand.** The study and preparation of gourmet foods. Emphasis on foods from different cultures.

**HS 592. Foods for Special Occasions. (2-2-3); on demand. Prerequisite:** permission of instructor and/or one food preparation course. A lecture-laboratory course with emphasis on planning, preparing, and serving foods for special occasions, including special diets, meal service, special equipment, and various budget levels. Arranged laboratories.

## Industrial Education and Technology

**IET 100. World of Technology. (3-0-3); I.** 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); I, II.** This is the beginning course in wood shop, consisting of theory and application with particular emphasis on individual and industrial values of wood.

**IET 160. Introduction to Power and Fluid Mechanics. (2-2-3); I, II.** 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 Voc. Education. (3-0-3); II. 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); I, II. Prerequisite:** IET 111 or consent of instructor. This is a continuation of basic wood technic. 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); I.** 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); I.** Control mechanisms are studied along with rocket engines, various forms of jet engines, and advanced power systems.

**IET 311. Design and Construction. (1-4-3); I. 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. Development of process capabilities and derivation of process limit graphs.

**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); on demand.** 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 330. Internal Combustion Engines I. (2-2-3); on demand.** Study of operating cycle and maintenance procedures on spark ignition, diesel, and wankel engines.

**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 381. Related Science, Mathematics, and Technology in Occupations. Offered only through written examination. (0-0-6); on demand.** Courses will be offered only through a scheduled examination. (Written, performance, and oral examinations in the field of specialization that the candidate is preparing to teach.)

**IET 382. Manipulative Skills in Occupations. Offered only through technical competence examinations. (0-0-6); on demand.** 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—offered only through oral examinations. (0-0-6); on demand.** 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 390. Principles of Industrial Education. (3-0-3); I.** The history of industrial education, types of curriculum, types of

schools, and level of industrial education programs are given emphasis as are vocational guidance and competency based occupational preparation.

**IET 391. Trade and Technical Analysis Techniques. (2-0-2); on demand.** The techniques used in analyzing a trade and jobs within a trade, in discovering the teachable content and the method of using scientific analysis in the development of course outline.

**IET 392. Technical Curriculum and Media Development. (2-2-3); I, III.** Emphasis is placed on developing competency based objectives for technical subject matter and on developing a variety of instructional media appropriate for technical curricula.

**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, admission to teacher education program.** Each student is assigned to an approved student teaching center offering comprehensive teaching experiences at the preparation-industrial education level. Directed to 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 associate degree will complete a minimum of 45 hours of supervised student teaching, 60 hours of directed observation, and 20 hours of participation. This experience carries four hours of credit.*

*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: Permission of the 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 the department head 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. (1-4 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. Prerequisite: IET 111, 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 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 472. Basic Industries Practicum. (1-2-2); I, II. Prerequisite: Upper division standing in industrial education.** A study of basic industry through lecture-discussion, reports, and field trips. Emphasis will be placed on contact with local industry through field trips.

**IET 475. Teaching Methods in Industrial Education—Orientation and Exploration Levels. (3-0-3); II. Co-requisite, enrolled in IET 478—Supervised Teaching Practicum. Must be admitted to teacher education program.** A study of the objectives of industrial arts and related behavioral changes; industrial arts curricular patterns and trends; selection and organization of subject matter, problem selection, and the project method of teaching; instructional materials and teaching aids; testing and evaluation; and professional growth.

**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. Supervised Teaching Practicum in Industrial Education—Orientation and Exploration Levels. (6-12 hrs.) Co-requisite: Enrolled in IET 475—Teaching Methods in Industrial Education, and admission to the teacher education program.** Each student is assigned to an approved student teacher center offering comprehensive teaching experience in the industrial education program at the orientation and exploration levels. Supervision will be provided by University faculty competent in industrial education at the orientation and exploration levels.

**IET 496. Organization and Management of the Laboratory. (2-0-2); Prerequisite: Admission to the teacher education program.** 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 520. Industrial Arts for the Elementary Teacher. (3-0-3); on demand. Prerequisite: Formal admission to the teacher education program.** This course is designed as a means to develop professional and technical competencies of pre-service and in-service elementary school teachers so they may enrich and strengthen programs of instruction by using industrial arts as both method and content.

**IET 560. Foundations of Industrial Education. (3-0-3); on demand.** Study of the philosophical positions underlying the development of industrial education; leaders, their influence and contributions; contemporary educational 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 590. Supervised Internship. (1 to 6 hrs.); I. Prerequisite: Department chair's approval prior to registration.** Student works under supervision at an approved educational or industrial work site. Credit commensurate with time, quality and variety of internship assignment. Research paper including daily log of activities required. Conditions to be agreed upon by on-site supervision, students, and graduate advisor prior to registration. Faculty will provide on-site visits.

## Italian

**ITL 190. Conversational Italian. (3-0-3).** An introduction to Italian language and culture. Emphasis on correct pronunciation, rapid speech, and fluency.

**ITL 200. Conversational Italian II. (3-0-3).** Emphasis on individual acquisition of correct, idiomatic Italian for communication.

## Latin

**LAT 101. Beginning Latin I. (3-0-3).** Drill in the basic elements of Latin grammar, word study, and reading of simple Latin selections.

**LAT 102. Beginning Latin II. (3-0-3).** A continuation of 101.

**LAT 201. Intermediate Latin I. (3-0-3).** Selections from Catullus, Cicero, Horace, Pliny, Martial, Livy, and Ovid.

**LAT 202. Intermediate Latin II. (3-0-3).** Writings of Cicero; his life and influence.

**LAT 301. Advanced Latin I. (3-0-3).** Poets of the Augustan Age, together with the history of the period.

**LAT 302. Advanced Latin II. (3-0-3).** Further study of the poetry of the Augustan Age. Selections from Vergil's Aeneid.

**LAT 401. Latin Literature I. (3-0-3).** Selections from the works of Horace, Vergil, Catullus, and others. Rotation of course content allows students to repeat the course for additional credit.

**LAT 402. Latin Literature II. (3-0-3).** Selections from Livy, Tacitus, Suetonius, Caesar, and others. Rotation of course content allows students to repeat the course for additional credit.



## Library Science and Instructional Media

**LSIM 101. Use of Books, Materials, and Libraries. (2-0-1) nine weeks only; I, II.** General library organization and orientation with emphasis upon utilization of library resources, including card catalogs, indexes, encyclopedias, and handbooks. Emphasis upon organization and resources of the Camden-Carroll Library. Course is designed for college freshmen.

**LSIM 521. Literature and Materials for Young People. (3-0-3); I, III.** Investigation of reading interests and needs of young people grades 7 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 with consideration of services offered to culturally disadvantaged and physically handicapped. Students given opportunity to read and discuss the "popular book" and practice in writing book reviews.

## Management

**MNGT 139. Cooperative Education I. (1 to 8 hrs.); on demand.** Work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course. Not available for option credit.

**MNGT 160. Introduction to Business. (3-0-3); I, II, III.** Basic survey course. Management, business organization, marketing, retailing, accounting, banking, finance, risk, and insurance.

**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 239. Cooperative Education II. (1 to 8 hrs.); on demand.** Work experience with an extension of exposure gained in MNGT 139 or of a nature similar to a sophomore status course. Not available for option credit.

**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 nonprofit corporations. The regulatory environment and legal constraints on organizations; the relationship between business and government in policy formation; and basic legal concepts.

**MNGT 301. Principles of Management. (3-0-3); I, II, III.** *Prerequisites: ACCT 282 and ECON 202.* History of management, the management process, the principles of management and their 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 Management. (3-0-3); I, II, III.** *Prerequisite: MNGT 301, MATH 160, and MATH 354.* Organization and operation of production management within the on-going service and product organization are described and analyzed. Descriptive practices and techniques, including work measurement, facilities location, and layout are used in analysis and problem solution.

**MNGT 310. Small Business Organization. (3-0-3); I, 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. Personnel Management. (3-0-3); I, II.** *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 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 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 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 Nonprofit Organization. (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 nonprofit organizations. Formulation, implementation, and evaluation strategies for management and marketing of these organizations is explored.

**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); or consent of instructor.** *Prerequisites: MNGT 261 and MNGT 362.* The social responsibility of business and individuals in commerce. Value systems, externally or self-imposed, their development and operation.

**MNGT 472. Business Policies and Problems. (3-0-3); I, II, III.** *Prerequisites: MNGT 301, MKT 304, or consent of instructor.* Specific problems involved in the forming of consistent business policies and maintaining of an efficient organization. Actual cases used for discussions and preparation of reports for executive decision making.

**MNGT 476. Special Problems in Management. (1 to 3 hrs.); on demand.** *Prerequisites: Senior standing and prior consent of department head.* 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 permission 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 506. Operations Analysis. (3-0-3); on demand. Prerequisite: MNGT 306, MATH 160 and 354, or consent of instructor.** Production and operations management are analyzed. Concepts and techniques used in the design, operation, and control of productive systems are studied.

**MNGT 539. Cooperative Education V. (1 to 8 hrs.); on demand.** Work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students. Not available for option credit.

**MNGT 556. Small Business Institute Field Project. (1-4-3); I, II. Prerequisite: Senior undergraduate or graduate standing and permission of instructor.** Student serves as a member of a consulting team to a small business. Responsibility is to analyze the business operation and make recommendations for improving of identified problem areas.

**MNGT 565. Organizational Behavior. (3-0-3); on demand. Prerequisite: Senior standing or consent of instructor.** A study of human and interpersonal behavior to understanding, evaluate, and appraise business and social situations. Emphasis on skill and the ability to work with peoples, groups, and institutions.

**MNGT 599. 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.

## Manufacturing Technology

**MFT 106. Thermoplastic Processing. (2-2-3); I. Prerequisite: GCT 103.** Introduction to the materials and techniques employed in the processing of thermoplastics.

**MFT 107. Thermosetting Plastics Processing. (2-2-3); II. Prerequisite: GCT 103.** 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 the instructor.** Various metal forming and machining experiences; emphasis on exact tolerances and precise dimensions. Lathe, mill, shaper, and grinder experiences.

**MFT 306. Mold Design and Construction. (2-2-3); II. Prerequisite: Consent of the instructor. (Recommended courses MFT 106, 107, 111, and 286).** 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. (1-4-3); 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 design for computerized numerical control applications.

## Marketing

**MKT 199. 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 304. Marketing. (3-0-3); I, II. Prerequisite: ECON 201 and 202 or consent of instructor.** Raw materials and products; organized exchange; analysis of market; market price; manufactured products; warehouses, cooperative societies; distribution organizations.

**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 350. Salesmanship. (3-0-3); I, II. Prerequisite: MKT 304 or consent of instructor.** The role of selling in the American economy; salesman's job and qualifications, development and application of sales techniques; selection, training, and management of the sales force.

**MKT 351. Sales Management. (3-0-3); I. Prerequisites: MNGT 301, MKT 304 or consent of instructor.** The changing role of the sales manager, developing a managerial and strategic framework concerning the sales manager's job; the behavior of a manager of people, money, and things within the sales sphere of business.

**MKT 354. Consumer Behavior. (3-0-3); I, II. Prerequisite: MKT 304 or consent of instructor. PSY 154 and SOC 101 recommended.** Fundamental process of motivation, perception, and learning nature and influence of individual predisposition, group influence on marketing, consumer decision processes, aggregate consumer behavior.

**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 417. Management and Marketing of Public and Nonprofit 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 nonprofit organizations. Formulation, implementation, and evaluation strategies for management and marketing of these organizations is explored.

**MKT 451. Retail Management. (3-0-3); on demand. Prerequisite: MKT 304.** Establishing a store, store organization,

buying, pricing and selling, planning and control, credit management, insurance tax reports and operating analysis, basic principles of retailing.

**MKT 452. Marketing Research and Analysis.** (3-0-3); I, II. *Prerequisites:* **MKT 304 and MATH 354.** Use of research to minimize error in decision analysis. Individual studies made by students in all areas of marketing, including advertising, packaging, and merchandising.

**MKT 453. Marketing Planning and Strategies.** (3-0-3); I, II. *Prerequisites:* **MNGT 301, MKT 304, and completion of or concurrent enrollment in all required marketing option courses or consent of instructor.** Overview of marketing functions, emphasis on formulation of policies and management of all marketing activities. Case studies are used.

**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 469. International Marketing.** (3-0-3); II. An introduction to the economic, legal, social and cultural dimensions of global marketing.

**MKT 476. Special Problems in Marketing.** (1 to 3 hrs.); I, II, III. *Prerequisites:* **Senior standing and prior consent of department head.** 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 555. Advertising.** (3-0-3); on demand. *Prerequisite:* **MKT 304.** Advertising as an indirect selling technique; emphasis on determining appeals, creating images, and developing coordinated campaigns. Actual campaign to be developed by each student; stress on ideas and concepts rather than mechanics.

**MKT 599. 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.

## 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:* **Algebra I in secondary school or MATH 091.** 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 interpretation,

translation, and solution. Hand-held calculators used for the solution of problems.

**MATH 123. Introduction to Statistics.** (3-0-3); I, II, III. Basic concepts of probability, sampling, and the algebra of events. Properties of selected discrete and continuous distributions.

**MATH 131. General Mathematics. Problem Solving Strategies.** (3-0-3); I, II, III. 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.

**MATH 135. Mathematics for Technical Students.** (3-0-3); I, II, III. Practical mathematics as applied to technical programs. Fractions, ratio and proportion, percentage, elementary algebra, formulae, volumes, and elementary trigonometry.

**MATH 141. Plane Trigonometry.** (3-0-3); I, II, III. *Prerequisite:* **High School Algebra II or equivalent.** Trigonometric functions, trigonometric identities, inverse functions, and applications.

**MATH 152. College Algebra.** (3-0-3); I, II, III. *Prerequisite:* **High School Algebra II or equivalent.** Field and order axioms; equations, inequalities; relations and functions; exponentials; roots; logarithms; sequences; probability and statistics.

**MATH 160. Mathematics for Business and Economics.** (4-0-4); on demand. *Prerequisite:* **High School Algebra II or equivalent.** 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:* **High School Algebra I and II or equivalent.** 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. Exponential, logarithmic, and trigonometric functions; complex numbers, theory of equations; sequences and series.

**MATH 175. Analytic Geometry and Calculus I.** (4-0-4); I, II. *Prerequisites:* **MATH 152 and MATH 141 or equivalents.** Functions and graphs; limits; continuity; differentiation; applications of the derivative; integration; applications of the definite integral.

**MATH 231. Mathematics for the Elementary Teacher I.** (3-0-3); I, II, III. (Designed for teachers K-8). Number systems, primes, and divisibility; fractions; decimals; real numbers; algebraic sentences.

**MATH 232. Mathematics for the Elementary Teacher II.** (3-0-3); I, II, III. (Designed for teachers K-8). *Prerequisite:* **MATH 231.** Introduction to computers; probability and statistics; geometric shapes; geometry of measurement; congruence and similarity.

**MATH 252. Boolean Algebra.** (3-0-3); on demand. *Prerequisite:* **MATH 152 or consent of the instructor.** Study of the basic laws and operations of Boolean algebra; simplification techniques, circuit design.

**MATH 260. FORTRAN Programming.** (3-0-3); I. *Prerequisites:* **CIS 202, 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, III. Prerequisite: MATH 175 and MATH 170.** 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 equations; vectors; differential calculus of functions of several variables; multiple integration; vector calculus.

**MATH 300. Introduction to Mathematical Proof. (3-0-3); I.** 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 308. Discrete Mathematics. (3-0-3); II. Prerequisites: MATH 170, MATH 300.** A course in algorithms, counting principles, recurrence relations, generating functions, graphs, trees, and networks.

**MATH 310. Introduction to Real Analysis. (3-0-3); II. Prerequisite: MATH 275 and 300.** Algebraic and topological properties of the reals; limits and continuity; differentiation; infinite series; Riemann integration.

**MATH 312. Numerical Methods. (3-0-3); I. Prerequisite: MATH 275.** A basic course in numerical analysis, including error analysis, series approximation, numerical integration techniques, practical applications of matrices, solution of simultaneous non-linear equations, and curve-fitting.

**MATH 330. Geometry for Teachers (K-4). (2-2-3); I (in even numbered years). 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. (Designed for teachers K-8).** Linear programming, combinatorial analysis, probability, matrices, game theory, and graph theory.

**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: High school Algebra II or equivalent.** Introduction to statistics with applications.

**\*MATH 354. Business Statistics. (3-1-3); I, II, III. Prerequisite: High school Algebra II or equivalent.** Introduction to statistics with applications to business.

**MATH 355. Principles of Optimization. (3-0-3); I. Prerequisite: MATH 152 or equivalent.** 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.** A course 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 (in odd numbered years). 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: PHY 221 or 231.** A study of motion of bodies. Kinematics and dynamics of particles and rigid bodies; work and energy; impulse and momentum.

**MATH 419. Probability. (3-0-3); I. Prerequisites: MATH 275 and MATH 365.** A first 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 MATH 353, MATH 354, or MATH 365.** Linear and quadratic regression models; least squares estimates; statistical inference; multicollinearity; residual analysis; selection of regression models; lack of fit.

**MATH 471. Seminar. (1-0-1); I, II. Prerequisite: Junior or senior standing.** Designed to give the student an introduction to research and literature in mathematics.

**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. See PHYS 481.

**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 310.** 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 Banach 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, MATH 354 or MATH 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. Prerequisites: MATH 353, MATH 354 or MATH 365.** 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 310 or 585 or permission 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 development in mathematics.

*\*A student may receive credit toward graduation in only one of the following: MATH 353, 354 or 365.*

## Military Science

**MS 101. Introduction to Military Science.** (2-0-2); I, II, III. Introduces the military science program. Explains organizations and composition of our present-day military forces. Study customs and traditions of the service. Introduces basic military skills, basic rifle marksmanship and rappelling.

**MS 101A. Introduction to Military Science Lab I.** (0-2-1). Practical and field application of skills acquired in MS 101. No prerequisites.

**MS 102. U.S. Army: Its Evolution and Development.** (2-0-2); I, II, III. Analyzes land navigation, use of compass and map reading. Introduces basic military skills in camouflage, inspections and military movement techniques. Includes basic rifle marksmanship and rappelling.

**MS 102A. U.S. Army: Its Evolution and Development Lab I.** (0-2-1); I. Practical and field application of skills acquired in MS 102. No prerequisites.

**MS 201. Military Leadership Principles and Techniques.** (2-0-2); I, II, III. Study of military skills, professional officer knowledge and leadership management principles.

**MS 201A. Military Leadership Principles and Techniques Lab I.** (0-2-1); I. Practical and field application of skills acquired in MS 201. No prerequisites.

**MS 202. Application of Military Skills and Knowledge.** (2-0-2); I, II, III. A study of military aspects of first aid; physical readiness; drill and ceremonies and land navigation.

**MS 202A. Application of Military Skills and Knowledge Lab I.** (0-2-1); I. Practical and field application of skills acquired in MS 202. No prerequisites.

**MS 301. Advanced Military Science I.** (2-0-2); I. Study and application of general military subjects relating to map reading, land navigation, radio and wire communication and physical security measures. Must be taken in same semester with MS 301A.

**MS 301A. Advanced Military Science Lab I.** (0-2-1); I. Practical and field application of skills acquired in MS 301. Must be taken in same semester with MS 301.

**MS 302. Advanced Military Science II.** (2-0-2); II. Study and application of general military skills relating to principles of

war, leadership roles, operation orders, decision-making process, tactics, nuclear, biological and chemical (NBC) operations, and branches of the Army. Must be taken in same semester with MS 302A.

**MS 302A. Advanced Military Science Lab II.** (0-2-1); II. Practical and field application of skills acquired in MS 302. Must be taken in same semester with MS 302.

**MS 339. Cooperative Education in Military Leadership.** (0-0-4); III. Attendance at ROTC Advanced Summer Camp. (Six weeks in duration.)

**MS 401. Advanced Military Science III.** (2-0-2); I. Development of cadet awareness of general military subjects to include briefing techniques, military justice, and training management. Must be taken in same semester with MS 401A.

**MS 401A. Advanced Military Science Lab II.** (0-2-1); I. Practical and field application of skills acquired in MS 401. Must be taken in same semester with MS 401.

**MS 402. Advanced Military Science IV.** (2-0-2); II. Development of cadet awareness in ethics and professionalism; exposure to military administrative procedures, and logistics management. Must be taken in same semester with MS 402A.

**MS 402A. Advanced Military Science Lab IV.** (0-2-1); II. Practical and field application of skills acquired in MS 402. Must be taken in same semester with MS 402.

## Mining

**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 103. Mine Drafting.** (1-4-3); on demand. *Prerequisite: GCT 103.* The adaptation of basic drawing and drafting skills to mine layout and design. Emphasis is placed upon accurate pictorial interpretation of measurement and layout and upon the development of mine drafting skills.

**MIN 104. Underground Mine Safety.** (3-0-3); on demand. A study of underground mine safety procedures as required by the Kentucky Department of Mines and Minerals and the United States Department of Labor's Mine Safety and Health Administration.

**MIN 200. Mine Surveying.** (1-4-3); on demand. *Prerequisites: GCT 103 and CON 102.* The use of the transit in underground and above-ground surveying. Techniques are used to teach the student to locate benchmarks, plot shafts, and passageways, and other details in mine surveying.

**MIN 201. Mine Equipment.** (3-0-3); on demand. *Prerequisite: MIN 101.* An analysis of various types of mining equipment, including design, function, methods of control applications, and safety of operation.

**MIN 202. Mine Ventilation.** (3-0-3); on demand. *Prerequisite: MIN 101.* A study of the control of mine air, mechanics of air flow, and mine fans. Also included is an analysis of mine gases and detection devices. State and federal mining regulations, methods of inspection, and lawful ventilation practices will be stressed.

**MIN 210. Internship.** (1 to 8 hrs.); on demand. The student will gain experience in actual work-place situation. The student will work in an approved organization under the

direction of a supervisor for a specified period of time. Credit will be earned in the relation to the amount of time worked. The faculty will visit the student at the job site, and the student will be expected to complete a written evaluation of his or her work experience.

**MIN 301. Mine Electrical Systems. (3-0-3); on demand.** *Prerequisites: EET 240 and MIN 101.* Analysis and function of mine electrical systems, preventative maintenance, and the inspection of the electrical equipment.

**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, BTU's, 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.** *Prerequisites: 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 401. Mining Economics. (3-0-3); on demand.** *Prerequisite: MIN 101.* A study of the various economic aspects related to the mining sector, with special emphasis on the coal industry. Topics include economic history, supply and demand, comparative mining industry structure, consumption and distribution patterns, and comparative cost analysis.

**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 404. Mine Management. (3-0-3); on demand.** *Prerequisite: MIN 101.* A study of basic principles of management and their specific applications to mine operations. Included will be the responsibilities associated with effective middle and front-line management in today's coal operations. The course will focus on supervisory functions with ideas for strengthening mine productivity, labor-management relations, costs, training, and safety.

**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.

## MSU (Freshman Orientation)

**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. (No prerequisite or co-requisite).

## 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 221. Music for the Elementary Teacher. (2-0-2); I, II, III.** *Prerequisite: MUST 100, 101, or 131.* Music fundamentals and methods for teaching music to elementary school children.

**MUSE 230. Introduction to Music Education. (1-0-1); I, II.** Orientation to music teaching in the public schools.

**MUSE 325. Materials and Methods for Elementary Grades. (2-2-3); I.** *Prerequisite: MUSE 230.* Materials and methods for the elementary school with emphasis on the teaching of musical concepts through developmental techniques.

**MUSE 335. Field Experience. (1 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: MUSE 325.* 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.** *Prerequisite: Credit for applied music in at least two of the following fields: strings, brasswinds, woodwinds, percussion.*

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 515. Microcomputers and Music. (3-0-3); on demand.** Applications microcomputers and music. An introduction to the current usage, implementation, and software assessment.

**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 the 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.

**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.

**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.

**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.

## 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. Trombone Choir. (0-2-1); on demand.**

**MUSM 163, 363. Tuba and Euphonium Ensemble. (0-2-1); on demand.**



MUSM 167, 367. **Brass Choir.** (0-2-1); I, II. Open to brass players with the consent of the instructor.

MUSM 168, 368. **Brasswind Ensemble.** (0-2-1); on demand.

MUSM 169, 369. **Percussion Ensemble.** (0-2-1); I, II.

MUSM 170, 370. **Concert Band.** (0-2-1); II. Open to all students. Admission by audition.

MUSM 171, 371. **Symphony Band.** (0-2-1); II. Open to all students. Admission by audition.

MUSM 172, 372. **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. **Jazz Ensemble.** (0-2-1); I, II. Open to all students. Admission by audition.

MUSM 182, 382. **Jazz Vocal Ensemble.** (0-2-1); I, II. Open to all students. Admission by audition.

MUSM 183, 383. **Traditional Music Ensemble.** (0-2-1); on demand.

MUSM 184, 384. **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. **Vocal Ensemble.** (0-2-1); on demand.

MUSM 191, 391. **University Chorus.** (0-3-1); I, II. Open to all university students interested in singing.

MUSM 192, 392. **Concert Choir.** (0-2-1); I, II. Open to all students. Admission by audition.

MUSM 193, 393. **Chamber Singers.** (0-3-1); I, II. Selected group of 16 singers. Admission by audition.

MUSM 194, 394. **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. Consent of piano faculty required.

## 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.** *With the consent of the 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 450. **Senior Recital.** (2-0-2); I, II, III. **Prerequisite:** *Approval of the music faculty.* A solo public recital of approximately 30 minutes duration.

MUSP 460. **Senior Recital.** (3-0-3); I, II, III. **Prerequisite:** *Approval of the music faculty.* A solo public recital of approximately 60 minutes duration.

MUSP 470. **Composition Recital.** (1-0-2); I, II, III. Preparation and performance in recital of student's compositions. With the approval of the music faculty.

## Music (Theory and Composition)

Music students should enroll in the appropriate music theory and music reading courses each semester until the completion of MUST 233, and MUST 237.

MUST 100. **Rudiments of Music.** (1-2-2); I, II, III. Fundamentals of music notation and basic elements of music theory. Recorder playing, autoharp accompaniment, and singing. Prerequisite for MUSE 221.

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 131. **Music Theory I.** (2-2-3); I, II. **Prerequisite:** *MUST 101 or demonstration of equivalent competencies 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



Music Theory I, 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 Music Reading II, 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 Music Theory II, 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 Music Theory III, 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 the 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 132.* 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. Prerequisite:** *MUST 237, 233.* A study of the elements of musical design through aural and score analysis.

**MUST 531. Arranging. (2-0-2); on demand. Prerequisite:** *MUST 237, 233, or the 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); on demand. Prerequisite:** *MUST 563.* Continuation of MUST 563.

**MUSW 476. Special Problems in Music I, II, III (1 to 3 hrs.). 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.

## Nursing (Associate)

**NUR 151. Interpersonal Skills for Health Promotion. (2-0-2); I, II.** Focuses on components of interpersonal relationships. Emphasizes health promotion through the use of self-awareness, effective communication skills, stress and coping behaviors, and assertiveness skills. Open to all majors.

**NURA 100. Fundamentals of Nursing. (3-9-6); I. Prerequisite:** *Official acceptance in the nursing program. Co-requisites: BIOL 231, PSY 154, MATH 135 or higher and NUR 151.* 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, 9 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, PSY 156 and NURA 102.* 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 PSY 156 and NURA 101.* 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 clinical and/or campus laboratory activities 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: HS 201, and BIOL 217 or BIOL 317.* 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: NURA 210.* 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. Prerequisites:** successful completion of the first three semesters of the nursing program. **Co-requisites:** NURA 204. 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.

## 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 248. Basic Nursing Concepts I. (3-9-6); I. Prerequisite:** Successful completion of the thirty-four credit hours required in the freshman year and official admission to the BSN program. **Co-requisites:** BIOL 217, NURB 249 and 254. The study of human needs of individuals in all stages of the lifespan. The focus is on professional nursing with emphasis on effective communication; nursing process; legal and ethical issues; basic nursing concepts and skills; and related concepts such as stress, coping and assertiveness skills. Three hours of theory and nine hours of clinical or campus laboratory per week.

**NURB 249. Pharmacology. (3-0-3); I.** Open only to students officially admitted to the BSN program 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 to pharmacological agents. Three hours of theory per week.

**NURB 252. Basic Nursing Concepts II. (2.5-4.5-4); II. Prerequisite:** Successful completion of the first three semesters of the BSN curriculum. **Co-requisites:** BIOL 336, SOC 205 and HS 201. The management of nursing care is emphasized 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. Seven hours of the experience will be off campus, two hours of campus laboratory and five hours of theory per week.

**NURB 253. Mental Health Nursing. (2.5-4.5-4); II. Prerequisite:** Successful completion of the first three semesters of the BSN curriculum. **Co-requisites:** BIOL 336, SOC 205 and HS 201. The study of psychosocial concepts and theories of mental health as related to the management of nursing care for patients at various stages of the lifespan with healthy and deviant behaviors. Seven hours of the clinical experience will be off campus, two hours of campus laboratory and five hours of theory per week.

**NURB 254. Health Assessment. (1-6-3); I, II. Prerequisite:** Successful completion of the first two semesters of the BSN curriculum or officially admitted to the RN Track. **Corequisites:** NURB 248, NURB 249, BIOL 217. 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. Six hours of the clinical experience will be on campus and one hour 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 BSN curriculum. **Co-requisite:** MATH 353. 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. Eight hours of the clinical experience will be off campus, one hour of campus laboratory and five hours of theory per week.

**NURB 351. Nursing Care of Children. (2.5-4.5-4); I. Prerequisite:** Successful completion of the first four semesters of the BSN program. **Co-requisites:** MATH 353. The management of nursing care is emphasized to promote, maintain, and restore health to children from infancy through adolescence is considered. Eight hours of the clinical experience will be off campus, one hour of campus laboratory and five hours of theory per week.

**NURB 360. Adult Nursing. (5-15-10); II. Prerequisite:** Successful completion of the first five semesters of the BSN curriculum. **Co-requisite:** NURB 361. The management of nursing care for adults with moderate to complex alterations in health is emphasized. The role and function of the professional nurse is related to the promotion, maintenance, and restoration of health. Fourteen hours of the clinical experience will be off campus, one hour of campus laboratory and five hours of theory per week.

**NURB 361. Introduction to Nursing Research. (3-0-3); II. Prerequisite:** Successful completion of the first five semesters of the BSN curriculum or officially admitted to the RN Track, MATH 135 and 353. **Co-requisite:** NURB 360. 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 365. Concepts and Theories Basic to Professional Nursing for the R.N. Track Student. (3-0-3); I, II. Prerequisite:** Registered Nurse (R.N.) Licensed. **Co-requisite:** None. The study of concepts and theories that provides the basis for the practice of professional nursing. The focus is on the role, functions, and characteristics of the educationally prepared baccalaureate nurse, with emphasis on the Baccalaureate Nursing Program's philosophy, organizing framework and curriculum.

**NURB 375 A - D. Transitional Course in Clinical Nursing for the RN-Track Student. (4-12-8); II. Prerequisite:** For the RN student officially admitted to the BSN program NURB 249, HS 201, SOC 205, and NURB 254. An accelerated course in theory content and clinical experience designed to update and validate the status of the registered nurse student. This course is divided into the following areas: Mental Health Nursing, Maternity Nursing, Nursing of Children and Adult Nursing. These courses must be successfully challenged prior to admission to the program. Upon Acceptance to the program, a total of 32 semester hours will be granted for NURB 248, NURB 252, NURB 253, NURB 350, NURB 351 and NURB 360.

**NURB 450. Community Health Nursing. (2-6-4); I. Prerequisite:** Successful completion of the first six semesters of the BSN curriculum. **Co-requisite:** NURB 452. The management of nursing care to promote, maintain, and restore health of individuals, families, and groups within a community. Management of health care needs of the community is also emphasized. Twelve hours of clinical experience will be off campus and four hours of theory per week.

**NURB 451. Gerontologic Nursing. (2-6-4); I. Prerequisite:** Successful completion of the first six semesters of the BSN curriculum. **Corequisites:** NURB 452. Physical and psychosocial principles of the aging process are integrated in the management of nursing care for the gerontologic patient.

Twelve hours of clinical experience will be off campus and four hours of theory per week.

**NURB 452. Teaching and Learning in Health Care. (2-0-2); I.** *Prerequisite: Successful completion of the first six semesters of the BSN curriculum or officially admitted to R.N. Track component. Co-requisite: NURB 450, NURB 451.* The study of concepts and theories of teaching and learning as related to promoting, maintaining, and restoring health. Emphasis is on the role and function of the professional nurse as an educator in health care.

**NURB 461. Nursing Leadership and Management. (3-0-3); II.** *Prerequisite: Successful completion of the first seven semesters of the BSN curriculum. Co-requisite: NURB 469, 471, and 495.* 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 469. Advanced Clinical Concepts. (2-0-2); II.** *Prerequisites: Successful completion of the first seven semesters of the BSN curriculum. Co-requisite: NURB 461, 471 and 495.* The focus is on the role and function of the professional nurse in management of nursing care of patients with multiple and complex health alterations at various stages of the lifespan. Two hours of theory per week.

**NURB 471. Issues and Trends in Nursing. (2-0-2); II.** *Prerequisite: Successful completion of the first seven semesters of the BSN curriculum. Co-requisite: NURB 461, 469 and 495.* The study of current issues and trends relevant to nursing with consideration of historical, social, legal and ethical, political, legislative, and health policies that impact on the practice of professional nursing.

**NURB 472. Independent Study in Nursing. (1-3 credits); I, II, III.** *Prerequisite: Must be officially admitted to BSN program and be a junior or senior level nursing student.* Opportunity for in-depth study in an area of special interest in nursing.

**NUR 480. Nursing Diagnostic Seminar. (2-0-2); II.** *Prerequisites: Successful completion of the first seven semesters of the BSN program 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.

**NURB 495. Advanced Nursing Practicum. (0-9-3); II.** *Prerequisite: Successful completion of the first seven semesters of BSN curriculum. Co-requisite: NURB 461, 469, and 471.* This course provides opportunities for students under supervision to apply principles from mathematics, natural sciences, behavioral 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. One hour of seminar and eight hours of clinical activities per week.

## 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 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 473. Health Care Management of Children. (3-0-3).** *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 474. Women and Health. (3-0-3).** *Open to any interested student.* Exploration of body processes and body experience of women throughout the life cycle. Emphasis is health promotion and consumerism.

**NAHS 475. Human Sexuality: A Holistic Viewpoint. (3-0-3).** *Open to any interested student.* A study of the biopsychosocial factors inherent with the sexuality of human beings and their influences on behavior.

## Office Administration

**OADM 110. Keyboarding. (1-0-1); I, II.** Touch keyboarding of the alphabetic, numeric, and symbol keys, including the ten-key pad. Utilization of basic function keys. Emphasis on development of rapid and accurate keyboarding skills.

**OADM 111. Beginning Typewriting. (3-0-3); I, II.** Mastery of the keyboard and machine techniques. Emphasis on development of rapid and accurate typewriting skills and application of these skills to fundamental communication forms, manuscripts, and tabulation.

**OADM 112. Intermediate Typewriting. (3-0-3); I, II.** *Prerequisite: OADM 111 or equivalent, or consent of instructor.* Development of speed and accuracy. Business letter styles, manuscripts, and various business forms emphasized.

**OADM 130. Speedwriting. (3-0-3); I.** *Prerequisites: OADM 111 or equivalent.* Fundamentals of alphabetic speedwriting. Emphasizing vocabulary, reading, writing, and transcription. Recommended for majors and non-majors.

**OADM 136. Business Calculations. (3-0-3); I, II.** Business problem solutions with aid of calculating machines. Payroll, banking, credit, insurance, investments, depreciation, amortization, weights and measures, distribution of goods, statistics.

**OADM 199. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various office administration subjects will be presented periodically to supplement the basic course offerings in office administration. Credit toward degree programs must be approved by the student's advisor.

**OADM 220. Basic Information Processing. (3-0-3); I, II.** *Prerequisite: OADM 112.* Introduction to text-editing/word processing and machine transcription applications; electronic storage and retrieval.

**OADM 234. Specialized Office Procedures. (3-0-3); I.** *Prerequisites: OADM 220 and OADM 240. Medical secretarial students will also need NAHS 302 as a prerequisite.* Materials, methods, techniques for the legal, medical, and executive secretary with emphasis on office routine, information processing, human relations. Students work on individualized units.

**OADM 240. Records Management. (3-0-3); I, II.** *Prerequisites: CIS 201.* Emphasis on the records management



cycle—creation, storage, retrieval, transfer, disposal—in manual and automated office environments.

**OADM 320. Advanced Information Processing. (3-0-3); I.** *Prerequisite: OADM 220.* Advanced word processing techniques emphasized—math functions, macro chaining and merging, dual and split screening, graphics, networking, and desktop publishing.

**OADM 321. Business Communications. (3-0-3); I, II.** *Prerequisites: ENG 102 and typewriting competency.* Current principles in business letter and report writing, stressing human relations approach.

**OADM 340. Integrated Office Systems. (3-0-3); I, II.** *Prerequisite: OADM 220, OADM 240, Records Management.* Emphasis on the problem-solving role of today's office professional: supervision and leadership skills, microcomputer office simulations.

**OADM 363. Administrative Office Systems. (3-0-3); I, II.** Management of data; effects of environment as it relates to production in the office. Human relations, systems analysis, and implication of automated data processing.

**OADM 398. Supervised Field Experience. (1 to 3 hrs.); I, II.** To provide work experience in an occupational area. Student works under supervision in approved position. Credit commensurate with time worked, type of work, variety of work experience.

**OADM 399. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various office administration subjects will be presented periodically to supplement the basic course offerings in office administration. Credit toward degree programs must be approved by the student's advisor.

**OADM 475. Methods of Teaching Business Subjects. (5-0-5); I.** *Prerequisites: Senior standing and formal admission to teacher education program.* Introduction to vocational and comprehensive business education; approaches, objectives, lesson plans, skill building techniques, methods, materials, teaching aids, testing, measurement, grading, for the preparation and certification of business teachers in grades 5-12.

**OADM 476. Special Problems in Office Administration. (1 to 3 hrs.); on demand.** *Prerequisite: Open to majors and minors in office administration with prior consent of department head.* This course is an independent study of office administration 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.

**OADM 599. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various office administration subjects will be presented periodically to supplement the basic course offerings in office administration. Credit toward degree programs must be approved by the student's advisor.

## Paralegal Studies

**PLS 210. Introduction to Paralegalism. (3-0-3); I.** *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 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.** *Prerequisites: PLS 210 or equivalent, or consent of the 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. Contract and Tort Law. (3-0-3); I.** *Prerequisite: PLS 210 and GOVT 327.* A study of the law of contracts and civil wrongs including products liability and medical malpractice with an emphasis on related forms, documents, and procedures.

**PLS 335. Corporation and Commercial Law. (3-0-3); I.** *Prerequisites: PLS 210 and GOVT 327.* A study of the law of business associations including proprietorships, partnerships, and corporations of commercial transaction governed by the Uniform Commercial Code.

**PLS 336. Wills, Trusts, and Estates. (3-0-3); on demand.** *Prerequisites: PLS 210 or equivalent or consent of the 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 340. Criminal Law and Procedure. (3-0-3); II.** *Prerequisite: 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 the 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 430. Civil Procedure. (3-0-3); II.** *Prerequisites: PLS 210, 332, 334, GOVT 327.* A study of civil procedure and the rules of evidence, with an emphasis on the forms, documents, and procedures related to investigation, discovery, trial and appeal.

**PLS 476. Special Problems in Paralegal Studies. (1-3 hours); on demand.** *Prerequisite: Consent of the instructor.* Original research project or readings in a particular subject area. Open only to Paralegal Studies majors.

**PLS 480. Senior Paralegal Practice Seminar. (3-0-3); I.** *Prerequisites: OADM 110, PLS 430 and senior standing or permission of instructor.* An advanced course to be taken prior to the paralegal internship. The course emphasizes legal writing, documents and forms from all paralegal specialty courses and law office automation.

**PLS 490. Paralegal Internship. (3-0-3); I, II, III.** *Prerequisites: PLS 480 or consent of the Paralegal Studies Coordinator.* The development of practical legal skills through actual work experience in a law office researching, preparing briefs, assisting in trial preparation and observing judicial procedures.

## 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, III. Emphasis on skill, knowledge, and techniques for individual participation.
- PHED 101. Tennis.** (0-2-1); I, 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, II. 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 106. Wrestling.** (0-2-1); I, II. Holds, escapes, and conditioning necessary to perform skills.
- PHED 107. Bowling.** (0-2-1); I, II, III. 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. (Same as AGR 109.)
- PHED 110. Judo.** (0-2-1); II. Throws used in sport judo.
- PHED 111. Angling.** (0-2-1); I, III. Skills used in fly and bait casting.
- PHED 112. Handball.** (0-2-1); I, II. Emphasis on knowledge, tactics, skill, and techniques for individual participation.
- PHED 113. Soccer.** (0-2-1); I. Techniques and participation in soccer.
- PHED 114. Track and Field.** (0-2-1); I. Emphasis on skill, knowledge, and techniques for individual participation.
- PHED 115. Apparatus.** (0-2-1); I, II. Skills used in self-testing activities.
- PHED 116. Lacrosse.** (0-2-1); I. Basic skills in lacrosse.
- 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, III. Rules, techniques, and participation in volleyball.
- PHED 119. Intermediate Horsemanship.** (0-2-1); I, II. *Prerequisite: PHED 109 or equivalent.* (Same as AGR 119.)
- PHED 120. Basic Rhythms.** (0-2-1); I, II, III. Skills and knowledge in fundamentals of dance.
- PHED 121. Modern Dance.** (0-2-1); I, II. 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, III. Learning to swim well enough to care for one's self under ordinary conditions.
- PHED 131. Intermediate Swimming.** (0-2-1); I, II, III. 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 135. Field Hockey.** (0-2-1); II. Skills and techniques in field hockey.
- PHED 138. Fencing.** (0-2-1); I, II. Emphasis on skill, knowledge, and strategy.
- 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. (9 weeks class.)
- PHED 150. Introduction to Physical Education.** (3-0-3); I, II, III. Principles and basic philosophy, aims, and objectives; standards; and significance in profession of physical education.
- PHED 199. Hatha Yoga.** (0-2-1); I, II, III. The use of movement, positions, and deep breathing exercises to achieve physical strength, flexibility, muscle tone, body alignment, and improved stamina.
- 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. *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 C.P.R. 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, III. Designed to expose students to a broad range of elementary school rhythmic activities and games, as well as opportunities to teach these activities.
- PHED 220. Athletic Training I.** (3-0-3); I, II. *Prerequisites: HLTH 150, BIOL 331.* An introduction to athletic training, including basic injury prevention, management, and rehabilitation principles.
- PHED 221. Therapeutic Modalities.** (1-2-2); I. *Prerequisites: HLTH 150, PHED 220.* Study and use of therapeutic modalities for athletic injury, treatment and rehabilitation.
- PHED 300. Physical Education in the Elementary School.** (2-2-2); I, II. *Prerequisite: Admission to the teacher education program.* Selection and organization of materials and techniques

of instruction for elementary school program. (Laboratory experiences are integral part of course.)

**PHED 301. Evaluation in Health, Physical Education, and Recreation.** (3-0-3); I, II, III. Methods, techniques, and procedures used in evaluation of students in health, physical education, and recreation.

**PHED 303. Physical Education in the Secondary School.** (2-2-3); I, II. *Prerequisite: Admission to teacher education program.* Selection and organization of materials and techniques of instruction for secondary school program.

**PHED 311. Movement Exploration.** (2-2-3); I, II. Child-centered program and demonstrate methods whereby a child may learn to move experimentally, expressively, and efficiently.

**PHED 315. Motor Development and Motor Learning.** (3-0-3); I, III. *Prerequisites: EDF 211, BIOL 331.* Understanding the principles of motor development and learning to use these when teaching students at various developmental stages, to promote optimal learning.

**PHED 325. Exercise Program Leadership.** (1-2-2); I, II. *Co-requisite: PHED 140 Aerobics.* Emphasis on leadership skills, motivational techniques, choreography, administrative functions dealing with equipment purchase, organization and use, and experiences leading aerobic exercise formats with a variety of populations.

**PHED 330. Scientific Bases of Coaching.** (3-0-3); I, III. *Prerequisite: BIOL 231 or consent of department chairperson.* A study of the physiological, biomechanical, and nutritional dimensions of the coaching of sports.

**PHED 332. Principles of Strength and Conditioning.** (3-0-3); II, or III. *Prerequisite: PHED 330 or consent of department chairperson.* 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 chairperson.* Focus on theories and practices which when understood and used can enhance the coach-athlete relationship and improve sport performance.

**PHED 340. Athletic Training II.** (3-0-3); II. *Prerequisites: PHED 220, BIOL 332. Co-requisites: PHED 221 and 341.* An advanced course involving all aspects of the athletic training/sports medicine field.

**PHED 341. Athletic Injury Assessment.** (1-2-2); II. *Prerequisites: PHED 220 and 340.* Evaluation of athletic injuries.

**PHED 350. Coaching of Sport.** (1-2-2); I, II, III, upon 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                          | f. Soccer     |
| b. Basketball                        | g. Softball   |
| c. Cross Country,<br>Track and Field | h. Swimming   |
| d. Football                          | i. Tennis     |
| e. Golf                              | j. Volleyball |
|                                      | k. Wrestling  |

**PHED 360. Health and Physical Education in the Middle School.** (3-0-3); II. *Prerequisite: Admission to the Teacher Education Program.* 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, III. Arrangement of units making up

physical education program, and process of leadership by which serious aspects are brought together in a functioning whole.

**PHED 402. Kinesiology.** (3-0-3); II, III. *Prerequisite: BIOL 331 and 332.* Study of structural and mechanical factors in human motion.

**PHED 420. Administration of School Athletic Programs.** (3-0-3); I, II. Administrative principles and procedures applicable to school athletic program.

**PHED 422. Coaching Inter-Scholastic Athletics.** (3-0-3); I, II. Emphasis on coaching techniques of inter-scholastics.

**PHED 430. The Psychosocial Dimensions of Sport and Physical Activity.** (3-0-3); I, II, III. *Prerequisites: PSY 154, SOC 101, PHED 300 and 303. Admission to Teacher Education Program.* Understandings regarding the psychological and sociological factors influencing performance in physical activities.

**PHED 432. Physiology of Exercise.** (3-0-3); I, II, III. *Prerequisite: PHED 402.* Study of response of the body to muscular activity; work and efficiency, cardiorespiratory adjustment, training, and fitness. (Laboratory experiences are an integral part of course.)

**PHED 475. Adapted Physical Education.** (2-2-3); I, II. Problems of handicapped students and means whereby these students can be aided through physical education. Laboratory experiences are an integral part of 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 chairperson.* 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 chairperson.

**PHED 490. Internship in Athletic Training.** (0-18-6); I, II. *Prerequisites: BIOL 331, 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 491. Senior Seminar.** (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.

**PHED 550. Planning and Managing Exercise Programs.** (3-0-3); I. *Prerequisites: PHED 401, 402, and 432.* A lecture-discussion course emphasizing knowledge, methods in planning, designing, managing, and improving exercise programs.

**PHED 551. Exercise Testing and Prescription.** (3-0-3); II, III. *Prerequisite: PHED 550.* Knowledge and skills in the area of fitness evaluation, exercise prescription and delivery of exercise programs to normal/special populations.

**PHED 552. Exercise Program Practicum.** (0-18-6); on demand. *Prerequisite: PHED 551.* Practical experience in clinical and hospital settings working with predisposed and symptomatic heart-diseased individuals. Students will work with participants in adult fitness programs learning supervisory and leadership roles.

**PHED 576. Special Problems in Physical Education.** (1 to 3 hrs.); I, II. *Prerequisite: Senior or graduate classification.* Intensive study of an approved, specific physical education problem, under direction of instructor.

**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).** Alternative views concerning the nature of reality, knowledge, truth, God, man, art, and the good life.

**PHIL 300. Philosophy of Science. (3-0-3).** Scientific methods and explanation; the role of mathematics in empirical science; and theories of matter, space, time, motion, and causality.

**PHIL 303. Social Ethics. (3-0-3).** Theoretical and practical problems of moral conduct and proposed solutions to them.

**PHIL 306. Logic. (3-0-3).** Informal fallacies, the methods of constructing deductive and inductive arguments, and the ways of justifying or testing them.

**PHIL 307. Philosophy of Religion. (3-0-3).** Proposed sources of religious knowledge and the meaning of God, Jesus, sin, and salvation in four major theories of the universe.

**PHIL 308. Philosophy of the Arts. (3-0-3).** Major theories of art, aesthetic experience, the structure of art, problems in aesthetics, and art criticism.

**PHIL 309. Existentialism. (3-0-3).** Theories of the nature of reality, knowledge, and the good life from the point of view of those who appeal to our "existing situation" rather than reason.

**PHIL 310. Analysis of Ideas. (3-0-3).** *Prerequisite: PHIL 200 or consent of the department.* Analysis of statements and the applications of this technique to basic statements in the various sciences.

**PHIL 311. Ordinary Language Philosophy. (3-0-3).** *Prerequisite: Any one of the following courses: PHIL 200, 405, 406.* An introduction to a contemporary philosophy which attempts to solve philosophical problems by appealing to language as ordinarily used.

**PHIL 312. Symbolic Logic. (3-0-3).** *Prerequisite: Permission of instructor.* Introduction to methods of constructing and justifying deductive arguments as they have been developed by the use of modern symbols.

**PHIL 313. American Philosophy. (3-0-3).** *Prerequisite: PHIL 200 or consent of the department.* A survey of philosophical thought in America from the eighteenth century to the present with special attention given to the Pragmatists.

**PHIL 389. Honors Seminar in Philosophy. (3-0-3).** *Prerequisite: Membership in the Junior-Senior Honors Program.* Contemporary moral issues are examined, discussed, and evaluated. The topics may vary from semester to semester.

**PHIL 399. Special Courses. (1-3 hrs.).** *Prerequisites: variable.* These courses are usually specialized offerings in philosophy for the advanced undergraduate and the graduate student. The purpose of these courses is to enhance the existing program in philosophy.

**PHIL 405. History of Philosophy I. (3-0-3).** Ancient and Medieval philosophy; a history of Western philosophy from Thales (624-546 B.C.) to the beginning of the Renaissance.

**PHIL 406. History of Philosophy II. (3-0-3).** Modern and contemporary philosophy; a history of Western philosophy from the Renaissance to the present.

**PHIL 410. Contemporary Philosophy. (3-0-3).** An examination, interpretation, and evaluation of the philosophic ideas of leading representatives of twentieth-century philosophies.

**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.

## Physics

**PHYS 199. Selected Topics. (1 to 6 hrs.); on demand.**

**PHYS 201. Elementary Physics I. (3-0-3); I, II, III.**

*Prerequisite: MATH 152 (or equivalent) or ACT Mathematics score over 15.* Mechanics, motion, equilibrium, energy and momentum. Heat and sound.

**PHYS 201A. Elementary Physics I Laboratory. (0-2-1); I, II, III.** *Must take concurrently with PHYS 201.* Laboratory for PHYS 201.

**PHYS 202. Elementary Physics II. (3-0-3); I, II, III.** *Prerequisite: PHYS 201.* Electricity and magnetism, light and optics, atomic and nuclear physics.

**PHYS 202A. Elementary Physics II Laboratory. (0-2-1); I, II, III.** *Must take concurrently with 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.** *Co-requisite: MATH 276.* 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.** *Corequisite: MATH 275.* Introduction to physics for scientists and engineers. Statics, kinetics, and dynamics of linear and rotational motion, gravitational fields; thermal properties of matter and heat transfer.

**PHYS 231A. Engineering Physics I Laboratory. (0-2-1); I.** *Must be taken concurrently with 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.** *Must be taken concurrently with PHYS 232.* Laboratory for PHYS 232.

**PHYS 239. Cooperative Education. (1-8 hrs.); I, II, III.** Participation in supervised work experience in a professional environment. Department approval is required.

**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 201 or SCI 200 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 in 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 (1-8 hrs.); I, II, III.** Participation in supervised work experience in a professional environment. Department approval is required.

**PHYS 340. Experimental Physics. (1-4-3); in 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 or 232.** Interdisciplinary course in nuclear science for students in pre-medicine, environmental studies, physics, chemistry, geology, pre-dentistry, and pre-veterinary medicine.

**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 or 232-232A.** 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); on demand. 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.

**PHYS 399. Selected Topics. (1 to 6 hrs.); on demand.**

**PHYS 410. Solid State Physics. (3-0-3); on demand. Prerequisite: PHYS 352.** 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 (1-8 hrs.); I, II, III.** Participation in supervised work experience in a professional environment. Departmental approval is required.

**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 and 363.** Fourier series, ordinary and partial differential equations, special functions, and integral transforms. See MATH 481.

**PHYS 493. Quantum Mechanics. (3-0-3); on demand. Prerequisite: PHYS 391 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.**

## Psychology

**PSY 154. Introduction to Psychology. (3-0-3); I, II, III.** Course concerning application of psychological theories and principles in area of personality, abnormal psychology, clinical psychology, psychodiagnostics, developmental psychology, psychotherapy and counseling; includes some understanding of methods used in personality and clinical research.

**PSY 156. Life-span Developmental Psychology. (3-0-3); I, II. Prerequisite: PSY 154 or consent of instructor.** Covers developmental theories, principles, and characteristics of individuals across three major developmental periods: infancy and childhood, adolescence, and adulthood.

**PSY 157. Psychology of Adjustment. (3-0-3); I. 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.); I, II, III.** Workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. Maximum of 6 sem. hrs. may be earned under this course number.

**PSY 276. Independent Study. (1 to 3 hrs.); I, II, III.** Professional problem in psychology.

**PSY 353. Industrial Psychology. (3-0-3); II. 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. 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 358. Psychological Testing. (3-0-3); II. Prerequisite: PSY 154.** General introduction to psychological testing. Topics include interest inventories, measurement and evaluation of personality, measurement of proficiency, performance, attitudes, temperament, aptitude, capacity, and intelligence through use of group assessment instruments used in psychological research, guidance, education, social research, business, and industry.

**PSY 359. Behavior Modification. (2-2-3); II, III. 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 381. Experimental Psychology I. (2-2-3); I. Prerequisites: PSY 154 and EDSP 581 or MATH 353.** Study of experimental methods and design related to sensation, perception, discrimination, learning, forgetting, and retention. (Laboratory experiences are an integral part of course.)

**PSY 389. Honors Seminar in Psychology. (3-0-3).** Study and discussion of current topics, issues, and problems in a particular area of the overall discipline. Topics will vary from semester to semester.

**PSY 390. Psychology of Personality. (3-0-3); I, II. 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.); I, II, III.** 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); II.**  
*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); II.**  
*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 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); I, III.** *Prerequisites: PSY 154 and 421.* 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); II.** *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); II, III.**  
*Prerequisites: PSY 154, 421, and 465.* An introduction to the treatment of psychoactive substance use disorders and psychoactive substance-induced organic mental disorders. Includes discussion of the phases, stages, and progression of these disorders, treatment options and methods/process, maintenance procedures, and treatment outcome research findings.

**PSY 472. Practicum. (3 to 6 hrs.); I, II, III.** Approval of instructor required. 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 8 weeks required for each 3 hours of credit.

**PSY 554. Seminar in Social Psychology. (3-0-3); II.**  
*Prerequisite: PSY 154 or consent of instructor.* Intensive examination of research methods and theory in modern social psychology.

**PSY 555. Environmental Psychology. (3-0-3); II.**  
*Prerequisite: PSY 154.* Study of ways in which social and physical environments affect human behavior. Direct effects of physical settings on behaviors, individual utilization of various physical settings, analysis of personal space utilization, and other non-verbal behaviors examined.

**PSY 575. Selected Topics. (2-2-3 to 6 hours); I, II, III.**  
*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.**  
*Prerequisite: PSY 156 or permission of instructor.* Intensive examination of research and contemporary developmental psychology. Emphasis on reading and evaluating current journal articles and designing research projects.

**PSY 582. Experimental Psychology II. (2-2-3); II.**  
*Prerequisite: PSY 381 or consent of instructor.* A seminar course in experimental psychology emphasizing content areas of learning, motivation, perception, and physiological psychology. Course is designed to give student practice in critical thinking, evaluation of experimental design, and original research, and affords student an opportunity to present and debate his or her own ideas. (Laboratory experiences are an integral part of course.)

**PSY 583. Sensory Psychology. (3-0-3); I.** *Prerequisites: PSY 154 and EDSP 581 or MATH 353.* Biological and physical bases of sensory experience. Presentation of psychophysical data and basic techniques for scaling of sensation. Coverage of all sensory systems with primary emphasis on vision and audition.

**PSY 584. Perception. (2-2-3); III.** *Prerequisite: PSY 154.* Examination of role of perception as an information extraction process. Includes constancies, space perception, illusions, and influence of learning and experience on development of perception. (Laboratory experiences are an integral part of course.)

**PSY 585. Systems and Theories. (3-0-3); I.** *Prerequisites: PSY 154 and EDSP 581 or MATH 353.* Intensive study of most influential historical systems of psychology including structuralism, functionalism, associationism, behaviorism, Gestalt psychology, and psychoanalysis, and a treatment of contemporary developments.

**PSY 586. Motivation. (2-2-3); II.** *Prerequisite: PSY 154.* Consideration of bases of human and animal motivation in relation to other psychological processes. (Laboratory experiences are an integral part of 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 skills, remembering, and logical thinking.

**PSY 590. Abnormal Psychology. (3-0-3); I, 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.); I, II, III.** Workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. Maximum of six semester hours may be taken.

## Radiologic Technology

**RAD 106. Patient Care Procedures. (1-2-2); I.** *Co-requisite: RAD 110, RAD 119, NAHS 202, MATH 135 and BIOL 231.* Emphasis of the course is placed on the role and function of the radiologic technologist in relation to the care of patients at various stages of the life span and interpersonal relationship skills. Patient care includes such procedures and techniques as the performance of radiology admission

procedures, isolation procedures, medical and surgical asepsis, and preparation and assisting in the administration of contrast media. Emphasis is also placed on the care of handicapped patients.

**RAD 110. Radiographic Anatomy and Positioning I. (3-2-4); I. Corequisites: RAD 106, RAD 119, NAHS 202, MATH 135, and BIOL 231.** An introduction to radiographic anatomy and positioning which includes basic terminology related to the anatomical structures and systems of the human body and an explanation of radiologic positioning nomenclature. Emphasis is also placed on the radiologic technologist's role and function in the performance of chest, abdominal, upper extremity and shoulder girdle radiography for patients at any stage of lifespan. In addition, fluoroscopic procedures associated with the gastrointestinal tract and heart are discussed. Radiographic procedures are demonstrated and simulated in the Rad. Tech. campus lab.

**RAD 119. Imaging, Exposure, and Radiologic Technology Practice. (2-2-3). Co-requisites: RAD 110, RAD 106, NAHS 202, MATH 135 and BIOL 231.** An introduction to the field of radiologic technology (Rad Tech) where the concepts contained in the program's organizing framework and the learning process are discussed. The emphasis of the course is on the role and function of the radiographer associated with radiographic image formation, radiation exposure, radiation protection and emphasis is also placed on basic computer literacy.

**RAD 130. Clinical Internship I. (0-37-10); II. Prerequisites: Successful completion of the fall semester of the first year of the Rad Tech program. Co-requisite: RAD 132.** Clinical experience in an affiliated health agency's radiology services division, specifically designed to introduce the student to the radiologic technologist's role and function in the practice of radiologic technology. Emphasis is on obtaining experience in manipulation of radiologic equipment; performance of radiologic patient care procedures; and radiologic examination procedures; preparation of contrast media for administration; critique of radiographs; adherence to radiation protection techniques; application of interpersonal skills; and adherence to legal and ethical principles of radiologic technology practice. The radiologic examination procedures may include chest, abdominal, digestive system, and urinary system radiography. If experience is available, students are rotated through special radiologic areas and other imaging modalities.

**RAD 132. Concepts in Radiologic Technology. (Directed Study). (2-0-2); II. Prerequisites: Successful completion of the fall semester of the first year of the Rad Tech program. Co-requisites: RAD 130.** This course is a conceptual approach to the history of radiologic technology, health agency structure, professional organizations, accrediting organizations, credentialing, ethics, legal issues, basic economics of radiology, specialization areas and professional development. Emphasis is on the role and function and scope of practice of the radiologic technologist.

**RAD 210. Radiographic Anatomy and Positioning II. (2-2-3); III. Prerequisites: Successful completion of the fall and spring semesters in the first year of the Rad Tech program.** A continuation of radiographic anatomy and positioning concepts and procedures presented in RAD 110. Emphasis is on the radiologic technologist's role and function in performance of radiography of the upper and lower extremities, shoulder girdle, bony thorax, hips, pelvic region and the basic examinations of the spine and skull for patients at any stage of the life span.

Radiographic procedures are demonstrated and simulated in the Rad Tech campus lab.

**RAD 215. Radiation Biology and Protection. (3-0-3), IV. Prerequisites: Successful completion of the fall and spring semester and summer session I of the first year of the RT program.** Study of the effects of radiation on the cells, tissues, organs, and the entire human body at all stages of the life span. Emphasis is also on radiation protection procedures and methods of monitoring radiation exposure. The role and function of the technologist is discussed in regards to legal responsibility for radiation protection of the patients, other health care personnel, and the public.

**RAD 230. Clinical Internship II. (0-37-10); I. Prerequisites: Successful completion of the first year RAD courses, NAHS 202, and BIOL 231. Co-requisites: RAD 232.** Clinical experience in an affiliated health agency's radiology services division, designed to continue to build on clinical experiences obtained in RAD 130. Emphasis of the clinical experience is on the role and function of the radiologic technologist in performance of radiographic procedures of upper and lower extremities, shoulder girdle, bony thorax, and pelvic region. Also, the application of principles and methods of radiation protection for patients, personnel, and public and radiographic quality. If experience is available students are rotated through special radiologic areas and other imaging modalities.

**RAD 232. Imaging Sectional Anatomy. (Directed Study). (1-2-2); II. Prerequisites: Successful completion of the first year of the Rad Tech program.** An introduction to sectional anatomy as imaged with such modalities as Computer Tomography, Magnetic Resonance Imaging and Ultrasound. The sectional anatomy covered will include such areas as the human head, chest, abdomen and pelvis.

**RAD 305. Advanced Diagnostic Imaging. (2-2-3); II. Prerequisites: Successful completion of the first year and fall semester of the second year of the Rad Tech program. Co-requisites: RAD 310, RAD 315, RAD 319, RAD 322, BIOL 232 and PSY 154.** An advanced study and practice of radiographic film processing and radiographic image formation. Emphasis is on the radiographers role and function in relationship to quality assurance testing, equipment maintenance, radiographic image evaluation and computer applications in radiology. Such as Fluoroscopic Imaging, Computed Tomography, Magnetic Resonance Imaging, Nuclear Medicine, Ultrasonography, Radiation Therapy, Digital Radiography, tomography and other types of radiologic imaging modalities are discussed.

**RAD 310. Radiographic Anatomy and Positioning III. (2-2-3); II. Prerequisites: Successful completion of the first year and fall semester in the second year of the Rad Tech program's curriculum. Co-requisites: RAD 305, 315, 319, 322, PSY 154, and BIOL 232.** A continuation of radiographic anatomy and positioning concepts and procedures presented in RAD 110 and RAD 210. Emphasis is on the radiologic technologist's role and function in the performance of radiography of the vertebral column, cranium, facial bones, paranasal sinuses, and the eye for patients at any stage of the life span. In addition, forensic radiography is presented. Radiographic procedures are demonstrated and simulated in the RT campus lab.

**RAD 315. Radiation Physics and Electronics. (2-0-2); II. Prerequisites: Successful completion of the first year and fall semester in the second year of the Rad Tech program's curriculum. Co-requisites: RAD 305, 310, 319, 322, BIOL 232, and PSY 154.** The study of physics and electronics necessary for the operation of an x-ray machine. Emphasis is on

units of measurement, general concepts of energy, basic principles of chemistry, electrostatics, magnetism, electrodynamics, electromagnetism, rectification, and also concepts associated with radiation production and its interaction with matter. In addition, the radiologic technologist's function and role are studied in relation to x-ray tube safety and tube life.

**RAD 319. Advanced Radiologic Procedures. (2-0-2); II.** *Prerequisites:* Successful completion of the first year and fall semester in the second year of the Rad Tech program's curriculum. *Co-requisites:* RAD 305, 310, 315, 319, 322, PSY 154, and BIOL 232. A study of specialized radiologic procedures of the central nervous system, circulatory system, lower respiratory tract, reproductive system, synovial joints, salivary glands, and the mammary glands. Emphasis is placed upon the role and function of the radiologic technologist in performance of specialized radiologic procedures.

**RAD 322. Radiologic Pathology. (2-0-2); II.** *Prerequisites:* Successful completion of the first year and fall semester in the second year of the Rad Tech program's curriculum. *Co-requisites:* RAD 305, 310, 315, 319, PSY 154, and BIOL 232. A systems approach to the study of disease and pathology for the cardiovascular, genitourinary, digestive and accessory organs, respiratory, nervous, and musculoskeletal systems. This includes the etiology, signs and symptoms, and the primary methods of diagnoses. An emphasis is on radiographic visualization of pathological conditions.

**RAD 330. Clinical Internship III. (0-40-4); III.** *Prerequisites:* Successful completion of the first year and fall and spring semesters of the second year of the Rad Tech program's curriculum. Clinical experience in an affiliated health agency's radiology services division, designed to continue to build on clinical experiences obtained in RAD 130 and RAD 230. Emphasis of the clinical experiences is on the role and function of the radiologic technologist in performance of radiographic procedures of vertebral column, cranium, facial bones, paranasal sinuses, eye, and special radiologic procedures. Also, application of concepts and principles of radiologic pathology, radiation physics, and electronics.

**RAD 340. Clinical Internship IV. (0-40-3); IV.** *Prerequisites:* Successful completion of the first year; fall, spring semester, and first summer session of the second year of the Rad Tech program's curriculum. *Co-requisite:* RAD 341. This course is a continuance of RAD 330. Clinical experience in an affiliated health agency's radiology services division designed to prepare the students to assume the role and function of a new entry level radiologic technologist.

**RAD 341. Seminar in Radiologic Technology. (1-0-1); IV.** *Prerequisites:* Successful completion of the first year, fall and spring semesters, and the first summer session of the second year of the Rad Tech program's curriculum. *Corequisite:* RAD 340. This course is designed to assess the students' knowledge and application of radiologic technology. Based on the assessment results, the faculty will provide review, guidance, and learning experiences to assist the student in meeting identified learning needs.

## 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 139. Cooperative Study I. (1 to 8 hrs.); on demand.** Work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course. Not available for option credit.

**REAL 199. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various real estate subjects 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 239. Cooperative Education II. (1 to 8 hrs.); on demand.** Work experience with an extension of exposure gained in REAL 139 or of a nature similar to a sophomore status course. Not available for option credit.

**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 permission 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 permission 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 permission 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 325. Appraisal of Residential Property. (3-0-3); I.** *Prerequisite:* REAL 105 or permission 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); II.** *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 permission of instructor. Introduction to the mechanisms of real estate finance, sources of funds, principles of mortgage risk analysis, governmental agency roles, and cash flows.

**REAL 335. Real Estate Investment. (3-0-3); on demand.** *Prerequisite:* REAL 105 or consent of instructor. Theory and practices of real estate investments and the wide range of topics in this area. Reasons for and against investing, homes and



business properties, sale and lease-backs, and the real estate investor.

**REAL 339. Cooperative Education III. (1 to 8 hrs.); on demand.** Work experience with an in-depth exposure representative of the student's academic level and experience analogous to a junior level status. 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 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 410. Urban Land Use Analysis. (3-0-3); on demand. Prerequisite: REAL 105 and 325 or consent of instructor.** Introduction to the responsibility of planning agencies to bring plans into closer harmony with the basic currents of economic development in the relationship between urban form and human behavior and activity patterns. Theory development, the use of models in planning, transportation systems, and other urban activities.

**REAL 425. Advanced Property Appraisal. (3-0-3); I. Prerequisite: REAL 325, 345, or permission 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 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 prior consent of head of department.** 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.

**REAL 539. Cooperative Education V. (1 to 8 hrs.); on demand.** Work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students. Not available for option credit.

**REAL 599. Selected Workshop Topics. (1 to 4 hrs.); on demand.** Workshops on various real estate subjects 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.

## Recreation

**REC 201. Outdoor Recreation. (3-0-3); I, II, III.** Scope and history of outdoor recreation. Development of camp craft skills.

**REC 209. Recreational Sports. (2-1-2); I, II. Prerequisite: Three of five activities.** History, knowledge of rules, proficiency of skills, and teaching ability of bowling, archery, volleyball, soccer, squash and handball. (Laboratory experiences are integral part of course.)

**REC 285. Community Recreation. (2-0-2); I, II.** Emphasizes general aspects of community recreation, place of school and other social institutions in recreation.

**REC 286. Recreation Leadership. (2-0-2); I, II, III.** History, theory, and philosophy of recreation. Practical techniques of leadership for low organization activities.

**REC 288. Recreational Arts and Crafts. (1-2-2); I, II.** Methods and materials, techniques of producing all types of crafts suitable for playground, community centers, hospital, school, camp, and club programs.

**REC 290. Field Experience I. (1-1-1); I, II, III.** Designed to give student practical experience under guidance of qualified leadership. (Laboratory experiences are integral part of course.)

**REC 305. Social Recreation. (2-0-2); II.** Practical application of planning, demonstrating, and conducting activities and programs for various social events and gatherings.

**REC 310. Youth Organizations. (2-0-2); II.** History, principles, and purposes of major youth service organizations with emphasis on leadership techniques and programming.

**REC 375. Creative Dramatics. (3-0-3); II.** Analysis and application of principles of creative dramatics as applied to classroom teaching recreation activities. (Same as THEA 375.)

**REC 388. Community Centers and Playgrounds. (3-0-3); I, III.** Leadership techniques, programming, and operation related to planning and administration of community centers and playgrounds.

**REC 471. Seminar. (1-0-1); I, II.** Discussion and reporting of current issues and problems in recreation profession.

**REC 475. Therapeutic Recreation. (3-0-3); II, III.** Philosophy, objectives, and basic concepts of therapeutic recreation. Emphasis on rehabilitation needs within institutional and community settings.

**REC 477. Recreation Internship. (4 to 8 hrs.); III.** Planning, leadership, supervision, and program evaluation experience in community and recreation public agency program under qualified administrative leadership and University faculty supervision. (Laboratory experiences are integral part of course. Application made through Coordinator of Professional Laboratory Experiences.)

**REC 490. Field Experience II. (1-1-1); I, II, III.** Designed to give student practical experience under guidance of qualified leadership. (Laboratory experiences are integral part of course. Application made through Coordinator of Professional Laboratory Experiences.)

**REC 522. Park Management and Resource Operation. (3-0-3); I, III. Prerequisite: Senior standing.** Theory and current practices involved in effective management and operation of parks and recreation areas, with emphasis on management policies and procedures for efficient operation. Practical work with local, state, and federal park systems and personnel to apply theoretical knowledge in a practical situation.

**REC 526. Fiscal Management in Parks and Recreation. (3-0-3); II, III. Prerequisite: Senior standing.** Things peculiar to



recreation and park administration such as tax structures, budgets, budget preparation procedure, projecting financial aspects of recreation, and things necessary to handle properly the financial affairs in recreation and park field.

**REC 528. Camping Administration. (3-0-3); II. Prerequisite: Senior standing.** Successful administration and organization of the camp.

**REC 576. Special Problems in Recreation. (1 to 3 hrs.); I, II. Prerequisite: Upper division or graduate classification.** Designed to meet special needs of individual students. Intensive study of approved specific problems from area of recreation under direction of instructor.

**REC 580. Outdoor Interpretation. (2-2-3); I.** Procedures for conducting and supervising naturalist and outdoor interpretive programs.

**REC 585. Programs and Materials for Therapeutic Recreation. (0-2-3); II, III. Prerequisite: Senior standing.** In-depth study of programs and materials used in therapeutic recreation. Considers various devices, activities, and materials used in programs for individuals. Practical work with individuals in therapeutic situations is stressed.

**REC 588. Professional Development for Therapeutic Recreation. (3-0-3); I, II, III (alternate scheduling).** Contemporary philosophy, principles and understandings in the delivery of therapeutic recreational service to special populations. (Required for N.C.T.R.C. Certification.)

**REC 599. Workshop. (1 to 3 hrs.); I, II, III.** Workshop for specifically designated task orientation in recreation. May be repeated in additional subject areas. Maximum of six semester hours may be earned under this course number.

## Religion

**NOTE:** Credit in philosophy is not given for any of the courses in religion.

**REL 221. World Religions I. (3-0-3). Prerequisite: PHIL 200—Introduction to Philosophy, 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). Prerequisite: PHIL 200—Introduction to Philosophy, 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). Prerequisite: PHIL 200—Introduction to Philosophy, 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). Prerequisites: REL 321 and/or PHIL 200 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). 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.). Prerequisite: 12 hours in religious studies or consent of the Department of Philosophy.** The student selects an approved topic in religion on which to do a directed study.

## Robotics

**ROB 170. Fundamentals of Robotics. (3-0-3); 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. Prerequisites: ROB 270 and EET 345.** 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. (0-6-3); I. 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.

## 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, Turgenev, Tolstoy, Gogol, Dostoyevski, and others. Assigned readings on Russian culture and history. Review of Russian grammar as necessary.

## Science

**SCI 103. Introduction to Physical Sciences. (3-0-3); I, II, III.** Measurements, energy, states of matter, nature and processes of physical sciences. An interdisciplinary approach to astronomy, chemistry, earth science, and physics.

**SCI 107. Introduction to Geoscience. (3-0-3); I, II, III.** A general survey of Earth; its astrophysical setting, its fluid portion, its solid part, its active processes, its history, the role of geology in preserving Earth's resources. See GEOS 107.

**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.

**SCI 199. Selected Topics. (1 to 6 hrs.); on demand.**

**SCI 200. Descriptive Astronomy. (3-0-3); I, III.** A non-mathematical presentation of methods and results of astronomical exploration of the solar system, our stellar system, and the galaxies.

**SCI 299. Selected Topics. (1 to 6 hrs.); on demand.**

**SCI 360. Science of Aviation. (3-0-3); II.** 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 389. Honors Seminar in Sciences and Mathematics. (3-0-3); on demand.** A study of current environmental problems and issues, and possible solutions to these problems. In future semesters the topics and times may vary.

**SCI 470. Senior Thesis I. (0-2-1); I, II. Prerequisites:** *Junior or senior standing and permission of instructor.* The beginning of a directed study on a project of current interest, chosen in consultation with a faculty advisor, for presentation in SCI 471 and to include a primary literature search.

**SCI 471. Senior Thesis II. (0-2-1); I, II. Prerequisite:** *SCI 470.* Completion of the directed study begun in SCI 470. 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 in the field. In addition, an oral presentation suitable for a scientific meeting will be made.

**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. Prerequisite:** *Completion of the minimum general education requirements in sciences and mathematics.* A study of teaching scientific concepts to elementary children.

**SCI 521. Chemistry in the Modern World. (3-0-3); on demand. Prerequisite:** *Permission of instructor.* An overview 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); on demand.** Selected topics from the geological sciences. (Especially designed for in-service and pre-service teachers.)

**SCI 580. History of Science. (3-0-3); on demand.** An interdisciplinary approach to the development of the scientific traditions, discoveries, and concepts from the time of ancient Egypt to the present. See BIOL 580.

**SCI 591. Science for the Middle School Teacher. (2-2-3); I.** Pedagogy, science content, and techniques applicable to the teaching of science to middle school and junior high children.

**SCI 592. Science for the Secondary Teacher. (2-2-3); II.** Concepts of teaching high school science with emphasis on laboratory techniques, test preparation, questioning, presentation methods, and care of equipment.

**SCI 599. Selected Topics. (1 to 6 hrs.); on demand.**

## Sociology

**SOC 101. General Sociology. (3-0-3); I, II, III.** The nature and dynamics of human society. Basic concepts include: culture, groups, personality, social institutions, social processes, and major social forces.

**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 201. Sociology of Corrections. (3-0-3); I, II. (See CRIM 201.)**

**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, family problems, problems with emphasis on societal conditions under which deviance emerges, and the alleviation of such deviant behavior.

**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, causes, and social consequences of deviance.

**SOC 302. Population Dynamics. (3-0-3); II. Prerequisites:** *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. Prerequisites:** *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.** 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.

**SOC 306. Juvenile Delinquency. (3-0-3); I, II. Prerequisites:** *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.

**SOC 312. Sociology of Sports. (3-0-3); on demand. Prerequisites:** *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 323. Urban Sociology. (3-0-3); on demand.**

*Prerequisites: 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.**

*Prerequisites: 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.** *Prerequisites: 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.

**SOC 373. Introduction to Women's Studies. (3-0-3); I, II.** *Prerequisites: Completion of the (9 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.

**SOC 374. American Minority Relations. (3-0-3); I, II.** *Prerequisites: 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 375. The Teaching of Social Studies. (3-0-3); I.** *Prerequisites: Three hours sociology general education or consent of instructor.* (See HIS 375.) (Does not count in the major or minor.)

**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 399. Selected Topics. (1 to 3 hrs.); on demand.** *Prerequisites: 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.** *Prerequisites: SOC/CRIM 210 and three additional hours of CRIM; or consent of instructor.* Cause, treatment, and prevention of crime.

**SOC 405. Sociological Theory. (3-0-3); I, II, III.** *Prerequisites: Three hours sociology general education or consent of instructor.* An introduction to basic theoretical

approaches to the study of society and a survey of contributions to the field by major theorists.

**SOC 420. Seminar in Criminal Behavior. (3-0-3); II.** *Prerequisites: SOC/CRIM 401 or consent of instructor.* (See CRIM 420).

**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.

**SOC 451. Social Science Data Analysis. (3-0-3); I, II.** *Prerequisites: SOC/CRIM 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.

**SOC 460. Senior Seminar. (3-0-3); II.** This course will be 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.** *Prerequisite: 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 510. Principles of Sociology. (3-0-3); on demand.** This course is designed to give sociology majors an integrated perspective of the discipline and to provide an advanced introduction to graduate students entering sociology from related disciplines.

**SOC 515. Family Dynamics. (3-0-3); II.** An intensive analysis of the family in its social context. Emphases are placed upon social interaction within the family, socio-cultural and socio-economic factors which bear influence upon it, and the relationship of the family to the total social system.

**SOC 525. The Community. (3-0-3); I.** The general character of community relations in society, the structure and function of the community as a social system, the processes of balancing community needs and resources, and planned and unplanned social change.

**SOC 540. Gerontology. (3-0-3); II.** An analysis of aging designed to provide the student with a knowledge of the special factors involved in the aging process as well as the social work techniques designed to aid such individuals to cope with the changes inherent in the aging process.

**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.

**SOC 560. Appalachian Culture. (3-0-3); I, II.** Study of the Appalachian culture in juxtaposition to concept of cultural dynamics. Analysis of the relationship between culture, society, and personality in Appalachia.

## Spanish

**SPA 101. Beginning Spanish I. (3-0-3).** Emphasis on development of comprehension of written and spoken Spanish; oral and aural drills supplemented by practice with tape program. Essentials of grammar.



**SPA 102. Beginning Spanish II. (3-0-3).** *Prerequisite:* SPA 101 or permission of the instructor. A continuation of SPA 101.

**SPA 201. Intermediate Spanish I. (3-0-3).** *Prerequisite:* SPA 102 or permission of the 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).** *Prerequisite:* SPA 201 or permission of the instructor. A continuation of SPA 201. Reading of more difficult texts.

**SPA 300. Grammar and Composition. (3-0-3).** *Prerequisite:* SPA 202 or permission of the 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).** *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).** *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. Spanish for Business and Commerce. (3-0-3).** *Prerequisite:* SPA 300. An introduction to cultural aspects of problems related to the conduct of international business in the Hispanic world.

**SPA 305. Conversation. (3-0-3).** *Prerequisite:* SPA 202 or permission of the 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 320. Hispanic Culture and Civilization. (3-0-3).** *Prerequisite:* SPA 202 or permission of instructor. Study of the history, art, culture, and everyday life of the Hispanic world.

**SPA 401. Masterpieces of Spanish Literature. (3-0-3).** *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).** *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).** *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).** *Prerequisite:* SPA 300. The application of linguistics to the methodology of teaching Spanish.

**SPA 432. Contemporary Spanish and Spanish American Literature. (3-0-3).** *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).** *Prerequisite:* SPA 300. Group instruction and practice in research methods peculiar to Hispanic literature.

**SPA 476. Directed Studies. (1 to 3 sem. hrs.).** *Prerequisite:* consent of instructor and the 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 523. Don Quixote de la Mancha. (3-0-3).** *Prerequisites:* SPA 300 and at least 3 hours from other SPA 300- or 400-level courses. A study of this masterpiece of Spanish literature.

**SPA 555. Lope de Vega. (3-0-3).** *Prerequisites:* SPA 300 and at least 3 hours from other SPA 300- or 400-level courses. A study of the major dramatic and non-dramatic works of Lope de Vega.

**SPA 576. Directed Studies. (1 to 3 sem. hrs.).** *Prerequisite:* Consent of the instructor and the 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.

**SPA 599. Special Courses. (1 to 3 sem. hrs.).** *Prerequisites:* 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.

## Speech

**SPCH 100. Voice and Articulation. (3-0-3); I, II.** Essentials of distinct utterance, phonetic transcription, and uses of the vocal mechanism.

**SPCH 101. Voice Production I. (1 to 3 hrs.); upon demand.** Competency-based individual voice production experiences and study with goals of increasing proficiency of student vocal production.

**SPCH 102. Voice Production II. (1 to 3 hrs.); upon demand.** Continued competency-based individual voice production experiences and study with goals of increasing proficiency of student vocal production.

**SPCH 110. Basic Speech. (3-0-3); I, II, III.** Development of proficiency in the use of oral language presentations.

**SPCH 200. Oral Interpretation. (3-0-3); I.** Communicating the meanings of prose, poetry, and dramatic literature through the use of body, voice, thoughts, and emotion.

**SPCH 210. Listening. (3-0-3); I, II.** The study and practice of skills in both retentive and empathic listening.

**SPCH 220. Introduction to Communication Theory. (3-0-3); II (odd years).** A survey of communication theory with emphasis on the interpersonal aspects.

**SPCH 300. Oral Communications. (3-0-3); I.** *Prerequisite:* SPCH 110. Development of appropriate classroom voice through study, exercise, practice in reading, describing, and motivating. Designed for elementary teaching majors.

**SPCH 301. Advanced Voice and Articulation. (3-0-3); I (on demand).** *Prerequisite:* SPCH 100. Advanced training in voice production for the purpose of developing professional proficiency and flexibility beyond the scope of the prerequisite first course. Students may be assessed a fee for materials distributed in class.

**SPCH 305. Readers Theatre. (3-0-3); II (odd years).** *Prerequisite:* SPCH 200 or permission of the instructor. Applying the theories of oral interpretation to an audience-oriented production.

**SPCH 310. Interpersonal Communications. (3-0-3); I, II.** Conceptual elements and dynamics of informal person-to-person communication in both theory and practice.



**SPCH 315. Verbal Survival. (3-0-3); on demand.** The process of communication "action-reaction." Specific skills for recognition and defense from forms of daily manipulative communication.

**SPCH 318. Nonverbal Communication. (3-0-3); II (even years).** Components of nonverbal communication.

**SPCH 320. Introduction to Corrective Speech. (3-0-3); on demand.** Speech correction for the classroom teacher. Same as EDSP 320.

**SPCH 342. Instructional Communication. (3-0-3); on demand.** Study and practice of the oral communication skills required for effective secondary school teaching.

**SPCH 370. Business and Professional Speech. (3-0-3); I, II, III. Prerequisite: Sophomore standing or above (at least 30 semester hours of previously completed course work).** Study and practice in techniques of committee work, interview, and other speech forms required in business and the professions.

**SPCH 382. Argumentation and Debate. (3-0-3); II (odd years).** Making rational decisions through the debate process. Analysis, evidence, briefing, and refutation.

**SPCH 383. Group Discussion. (3-0-3); I (odd years).** Analysis of the role of participants and leaders in problem solving with experience in conducting formal and informal groups.

**SPCH 385. Persuasion. (3-0-3); II (even years).** Nature and methods of persuasion for influencing group opinion and action. Recommended for business majors.

**SPCH 388. Speech Practicum. (1-2-2); I, II. Prerequisite: Approval of the 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 6 hours credit.

**SPCH 401. Capstone Senior Seminar in Speech. (2-0-2); II.** Students will be tested for conceptual and practical abilities in speech communications and will be given a profile of current strengths and weaknesses. Resumes will be developed and evaluated.

**SPCH 470. Interviewing for Employment. (1-0-1); II.** Theory and practice of preparing for and responding to employment interviewing.

**SPCH 471. Speech-Dramatic Arts Seminar. (1-0-1); on demand.** Resources and research techniques in speech and dramatic arts.

**SPCH 495. Administering the Communications Program. (3-0-3); I (even years).** Development and Management of communications programs, including co-curricular activities. (Lab fees will be assessed for each student).

**SPCH 497. Administering and Supervising the Co-Curricular Communication Arts Program. (3-0-3); on demand. Prerequisite: SPCH 110.** Nature, objectives, and values of a forensics program. Traditional high school forensic events with a laboratory experience in each.

**SPCH 510. Advanced Public Speaking. (3-0-3); on demand.** Preparation and delivery of longer and more complex speeches.

**SPCH 521. Classical Rhetorical Theory. (3-0-3); on demand.** In-depth study of the rhetorical theory of Plato, Aristotle, Cicero, and other writers of the Greek and Roman periods.

**SPCH 522. Contemporary Rhetorical Theory. (3-0-3); on demand. Prerequisite: SPCH 521 or permission of the instructor.** Development of rhetorical and communication theory from the Renaissance to the present.

**SPCH 523. Rhetorical Criticism. (3-0-3); on demand.** Application of classical and modern rhetorical theory; analysis and criticism of selected speeches.

**SPCH 527. American Public Address. (3-0-3); on demand.** Major speeches, speakers, and movements in America from the Colonial Period to the New Deal.

**SPCH 530. Contemporary Public Address. (3-0-3); on demand.** Major speeches, speakers, and movements from the 1930s to the present.

**SPCH 567. Organizational Communication. (3-0-3); I (even years).** A study of the dynamic function of communication which occurs within various organizational structures and related professional environments.

**SPCH 570. Parliamentary Procedure. (3-0-3); on demand.** Theory and application of procedures used by profit and non-profit organizations. (To be changed to SPCH 350 in Fall 91).

**SPCH 571. Interviewing. (3-0-3); II.** A detailed study of the various business interview types, coupled with role-playing experiences.

**SPCH 583. Small Group Communication. (3-0-3); on demand. Prerequisite: SPCH 383 or permission of instructor.** Current theory and related concepts regarding the discussion process.

## Social Work

**SWK 205. The Family. (3-0-3); I.** (See SOC 205).

**SWK 210. Orientation to Social Work. (3-1-4); I, II. Prerequisites: Completion of 24 hrs. of general education requirements, or permission of the 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. Prerequisites: Completion of SWK 210, or permission of the 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 year social work majors or minors.** Observation and work experience in a social work agency under the supervision of a professional.

**SWK 315. Child Welfare Services. (3-0-3); I.** Local, state, and national policies and programs designed to provide for the care, protection, and support of children.

**SWK 322. Human Behavior in the Social Environment. (3-0-3); I, II. Prerequisites: Completion of SWK 230, BIOL 105, PSY 154, SOC 101, or permission of the instructor. Co-requisites: SWK 450.** 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 325. Social Work Theory and Method. (3-0-3); I, II. Prerequisites: PHIL 200 or 303, SWK 322, 450 and formal program screen-in. Co-requisites: 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 330. Applied Medical Sociology.** (3-0-3); II. (See SOC 330).

**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); II. 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); I, II. 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 350. The Human Experience of Sex and Gender.** (3-0-3); I, II. 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 definition and practices on individuals, male and female. (SOC 350.)

**SWK 360. Crisis Intervention.** (3-0-3); I. 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); I, II. 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 399. Selected Topics.** (1 to 3 hrs.); on demand. Unique topics and learning experiences that supplement regular course offering. May be repeated in additional subject areas.

**SWK 410. Practicum in Social Work.** (4 to 8 hrs.); I, II. *Prerequisites:* SWK 424, 426, 430 and formal program screen-in. *Co-requisites:* SWK 427 and 490. Integration of theory and method to actual case situations assigned within a 512 hour professionally supervised field experience within a selected human service organization.

**SWK 424. Social Work Practice Skills I.** (3-0-3); I, II. *Prerequisites:* SWK 325, 451 and formal program screen-in. *Co-requisites:* SWK 425 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 427. Social Work Practice Skills III.** (3-0-3); I, II. *Prerequisites:* SWK 424, 426, 430 and formal program screen-in. *Co-requisites:* SWK 410 and 490. Continuation of the skills associated with the application of the social work method to macro-level organizational, neighborhood and community client systems.

**SWK 430. Social Policy and Planning.** (3-0-3); I, II. *Prerequisites:* SWK 325, 451, ECON 101, GOVT 242, 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 450. Research Methodology.** (3-0-3); I, II, III. *Prerequisites:* Math requirement and SWK 230. *Co-requisites:* SWK 322. (See SOC 450).

**SWK 451. Social Science Data Analysis.** (3-0-3); I, II. *Prerequisites:* Completion of all general education requirements, SWK 322, 450 and formal program screen-in. *Co-requisites:* SWK 325. (See SOC 451).

**SWK 490. Senior Seminar.** (1-0-1); I, II. *Prerequisites:* SWK 424, 426, 430 and formal program screen-in. *Co-requisites:* SWK 410 and 427. 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.

**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 515. Correctional Counseling.** (3-0-3); II. *Prerequisites:* SOC/CRIM 210, social work major, or consent of instructor. (See CRIM 515.)

**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 540. Gerontology.** (3-0-3); II. (See SOC 540).

**SWK 545. Death and Dying.** (3-0-3); I. (See SOC 545).

## Theatre

**THEA 100. Fundamentals of the Theatre.** (2-2-3); I, II. 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. Acting, set design, costume design, theatre architecture, lighting, playwrighting, and make-up. For non-theatre majors and minors.

**THEA 130. Summer Theatre I.** (4-0-4); III. May be repeated. *Prerequisite:* Acceptance to summer theatre or by permission. Practical experience in production with work in laboratory environment. A limit of four hours may be credited toward a degree program. Credit hours earned which exceed the

limit may be applied to the minimum requirements for the A.B. degree.

**THEA 200. Introduction to Dramatic Literature. (3-0-3); I.** Representative dramatic literature from Greek antiquity to the present.

**THEA 208. Beginning Ballet. (1-4-3); I.** 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 300. Elements of Play Production. (3-0-3); I.** Problems of play production; choice of script, casting production and backstage organization, and directing.

**THEA 308. Intermediate Ballet. (1-4-3); II. Prerequisite: THEA 208 or permission of instructor.** A further study of ballet techniques and profiles of famous dancers.

**THEA 309. Tap Dancing. (1-4-3); I.** 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. May be repeated. Prerequisite: THEA 100 or approval of instructor.** To provide independent guided study for the development of specialization in specific areas of the theatre.

**THEA 312. Theatre Practicum II. (1 to 3 hrs.); on demand. May be repeated. Prerequisite: THEA 311.** A continuation of Theatre 311.

**THEA 313. Theatre Practicum III. (1 to 3 hrs.); on demand. May be repeated. Prerequisite: THEA 312.** A continuation of Theatre 312.

**THEA 315. Stage Make-up. (2-2-3); on demand.** Study and application of make-up 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); on demand. 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); on demand.** A course in creating original patterns for stage costumes and construction techniques.

**THEA 328. Creative Sewing for the Theatre II. (1-4-3); on demand.** An advanced course in creating original patterns for stage costumes.

**THEA 330. Summer Theatre II. (4-0-4); III. Prerequisite: THEA 130 and acceptance to summer theatre company.** Crew assignments in areas other than those completed in THEA 130. May be repeated. A limit of four hours may be credited towards a degree program. Credit hours earned which exceed the limit may be applied to the minimum requirements for the A.B. degree.

**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. Prerequisite: THEA 100 and 210 or permission of instructor.** Theories and principles of directing; director's interpretation; casting; planning action and making the prompt-book.

**THEA 408. Advanced Ballet. (1-4-3); on demand. Prerequisite: THEA 308 or permission of the instructor.** Advanced study of ballet techniques and profiles of historical dances.

**THEA 484. Styles of Acting. (3-0-3); II.** A study of techniques for creating characters from various dramatic styles and historical periods through research and performance.

**THEA 512. Playwriting. (3-0-3); on demand. Prerequisite: THEA 200 and 100, or by permission 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 techniques of directing as related to specific productions and staging problems.

**THEA 530. Summer Theatre III. (4-0-4); may be repeated. Prerequisites: THEA 300 and acceptance to summer theatre company.** Advanced assignments in set and costume design or advanced acting and directing.

**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); II.** 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 200, 100, and 554, or by permission 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); II. Prerequisite: THEA 284.** Advanced study of acting, including analysis and development of characters in acting situations.

**THEA 563. Advanced Costuming. (2-2-3); I. Prerequisite: THEA 326 or permission 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); II. Prerequisites: THEA 210, 320, and 322 or permission 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); II. Prerequisite:** THEA 210, 320, and 322 or permission 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); II. Prerequisite:** THEA 100. A concentrated study of the problems involved in organization and production of plays for and with children.

## Veterinary Technology

**VET 100. Orientation to the Veterinary Profession. (1-0-1); I.** A study of the history of the Veterinary Profession, the ethics of veterinary health care, professional conduct, and current trends in the profession. Comparison of the education, career potential, salaries and responsibilities of various career areas within the profession. Exploration of the "team concept" of veterinary health care delivery.

**VET 101. Veterinary Science and Skills I. (1-2-2); I. Prerequisite:** Program admission. **Co-requisite:** VET 235. A study of basic canine and feline care and management including breeds identification, breeding and raising, nutrition, behavior, sheltering, sanitation and current topics. The lab will include essential tasks related to the handling, restraint, treatment, care, feeding and sanitation of dogs and cats.

**VET 104. Anatomy and Physiology of Domestic Animals. (3-2-4); I. Prerequisite:** Program admission. A course in basic comparative anatomy and physiology of the domestic animals with emphasis on organ systems. Lab will include identification of anatomical structures.

**VET 107. Laboratory Techniques I. (2-2-3); II. Prerequisites:** VET 101 and 104. Comparative hematology and hematopoietic physiology of the domestic animals. Lab will include performance of manual and automatic blood analysis techniques.

**VET 201. Veterinary Science and Skills II. (1-2-2); II. Prerequisites:** VET 101 and 104. **Co-requisite:** VET 235. A course on laboratory animal science and care including handling and restraint, housing, breeding, nutrition and common diseases of rabbits, rats, mice, guinea pigs, hamsters, primates and avian species. Lab will include handling, restraint, venipuncture, injections, record keeping, identification and sanitation techniques of laboratory animals.

**VET 208. Laboratory Techniques II. (2-3-3); I. Prerequisite:** VET 107, 201, and 230. Comparative parasitology, coprology and urology of the domestic animals. Includes identification of external and internal parasites, knowledge of parasite life-cycles and analyses commonly performed on feces and urine.

**VET 230. Pharmacology for Veterinary Technicians. (2-0-2); II. Prerequisites:** VET 101. **Co-requisite:** VET 201, CHEM 101 or higher. A study of the nomenclature and classification of therapeutic, anesthetic and nutritional agents used in current veterinary medicine. Pharmacy maintenance, dispensing and dosage calculations will be emphasized.

**VET 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. See AGR 235.

**VET 250. Veterinary Anesthesiology and Surgical Assisting. (2-4-4); I. Prerequisites:** VET 201, 230, BIOL 213. A study of practical anesthesiology and surgical assisting related to

veterinary practice. Lab will include pre- and post-operative preparation and care of equipment and patients, anesthesia and assisting with actual surgeries.

**VET 303. Veterinary Science and Skills III. (1-4-3); I. Prerequisite:** VET 201, 230, AGR 133. A study of practical techniques used in assisting the large animal veterinarian including handling, restraint, physical examination, oral dosing, injections, venipuncture, dental care, and loading/unloading of cattle, swine, horses, and sheep. Lab will include demonstration of necropsy techniques.

**VET 310. Clinical Laboratory Techniques. (2-2-3); II. Prerequisites:** VET 107, VET 208. **Co-requisite:** VET 341, 342. Comparative serology and cytology of the domestic animals. Lab will include use of commonly employed immuno-diagnostic and blood chemistry test kits, vaginal cytology, semen analysis, and bone marrow cytology.

**VET 340. Radiology. (2-2-3); II. Prerequisite:** VET 104, 250, and CHEM 101 or higher. **Co-requisite:** VET 341, 342. A study of the radiographic principles of veterinary medicine, including operation of the x-ray machine, positioning of the patient, film identification, film processing and safety procedures necessary to produce radiographs of diagnostic value.

**VET 341. Large Animal Clinical Procedures. (2-4-4); II. Prerequisites:** VET 208, 230, 250, 303. **Co-requisite:** VET 310. A study of large animal procedures, techniques and preventive medicine principles related to assisting the large animal veterinarian in the control of common diseases of swine, horses, cattle, sheep and goats. The lab will include clinical rounds, surgical assisting and treatments under veterinary supervision. Some weekend duties are required.

**VET 342. Small Animal Clinical Procedures. (2-4-4); II. Prerequisites:** VET 208, 230, and 250. **Co-requisite:** VET 310. A study of small animal clinical procedures, techniques and preventive medicine principles related to assisting the small animal veterinarian with clinical cases, hospital management, and client education. The lab will include clinical rounds, office procedures, surgical assisting and treatments under veterinary supervision. Some weekend duties are required.

**VET 361. Preceptorship I. (0-40-4); I, II. Prerequisite:** All previous VET courses. Consists of 5 weeks (40 hours/week) supervised work experience with selected licensed veterinarians. Weekly written reports by the student, supervisor evaluation reports, and visitation by program faculty will be used to monitor the student's progress.

**VET 362. Preceptorship II. (0-40-4); I, II. Prerequisite:** VET 361. Consists of 5 weeks (40 hours/week) supervised work experience with selected licensed veterinarians. Weekly written reports by the student, supervisor evaluation reports and visitation by program faculty will be used to monitor the student's progress. The last week of the semester the student will return to campus for final examinations, review seminars, exams, preparation for the Board Examination for Registration, and graduation.

## Welding Technology

**WEL 101. Oxyacetylene Welding. (3-0-3); on demand.** Instruction on equipment, material, and supplies needed for oxyacetylene welding, including chemistry of gases, torches, regulators, and required techniques needed for ferrous and nonferrous materials.



**WEL 101A. Oxyacetylene Welding Laboratory. (0-9-3); on demand.** Application of theory, including preparation of equipment and welding of different materials in both in-position and out-of-position joints.

**WEL 102. Arc Welding. (3-0-3); on demand.** Principles of stick electrode welding, including power supplies, polarities, type electrodes, and techniques required for ferrous and nonferrous materials.

**WEL 102A. Arc Welding Laboratory. (0-9-3); on demand.** Application of theory, including weld joint design and fabrication techniques in the development of several required weld joint coupons and other media.

**WEL 201. Inert Gas Welding. (3-0-3); on demand.** Basic theory of inert gas consumable and nonconsumable welding techniques, including necessary equipment, power supplies, and inert gas.

**WEL 201A. Inert Gas Welding Laboratory. (0-9-3); on demand.** Application of theory through development of welds requiring machine set-up for proper techniques and required adjustments. Students will prepare joints on several types of metals using proper techniques.

**WEL 202. Weld Joint Design and Testing. (3-0-3); on demand.** Basic static and dynamic calculation for development of standard butt, fillet, t-joints, and others commonly used in industrial fabrication and manufacturing product design.

**WEL 204. Welding Codes and Blueprint Reading. (3-0-3); on demand.** Study of A.W.S. standard welding symbols and A.S.T.M. codes normally used in weld design engineering. Common engineering graphic techniques associated with weld joint design and structural engineering.

**WEL 205. Welding Metallurgy. (3-0-3); on demand.** Physical and chemical metallurgical characteristics commonly associated with phase changes during and after fusion techniques of ferrous and nonferrous metals.

**WEL 307. Automated Welding Technology. (0-6-3); II.** *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 373. Introduction to Women's Studies. (3-0-3); I, II.** *Prerequisites: Completion of the (9 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.

**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.

## Administrative Directory

### Board of Regents

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 Lois Baker, Whitesburg  
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 Buckner Hinkle, Jr., Lexington  
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 John M. Seelig, Special Assistant to the President

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 and Dean of Faculty  
 Judy R. Rogers, Associate Vice President for Academic Affairs  
 and Dean of Undergraduate Programs  
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 Carole Morella, Director of Research, Grants and Contracts  
 Charles Myers, Director of Admissions  
 Gene Ranvier, Registrar

### Business, College of

Beverly McCormick, Interim Dean  
 Green Miller, Chair, Department of Accounting and Economics  
 Marvin Albin, Chair, Department of Information Sciences  
 Vacant, Chair, Department of Management and Marketing

### Education and Behavioral Sciences, College of

Richard Daniel, Interim Dean  
 Paul McGhee, Interim Chair, Department of Elementary,  
 Reading and Special Education  
 Jack C. Sheltmire, Chair, Department of Health, Physical Education  
 and Recreation  
 William Weikel, Chair, Department of Leadership and  
 Secondary Education  
 Ralph Shoaf, Chair, Department of Military Sciences  
 George S. Tapp, Chair, Psychology  
 David R. Rudy, Chair, Sociology, Social Work, and Criminology

### Humanities, Caudill College of

John E. Kleber, Interim Dean  
 Thomas Sternal, Chair, Department of Art  
 Janet Kenney, Chair, Department of Communications  
 Mark G. Minor, Chair, Department of English,  
 Foreign Languages, and Philosophy

Ronald Mitchelson, Chair, Department of Geography,  
 Government, and History  
 Christopher Gallaher, Chair, Department of Music

### Science and Technology, College of

Gerald DeMoss, Interim Dean  
 R. Lane Cowser, Chair, Department of Agricultural Sciences  
 Gerald L. DeMoss, Chair, Department of Biological  
 and Environmental Sciences  
 Marilyn Y. Sampley, Chair, Department of Human Sciences  
 Charles E. Coddington, Chair, Department of Industrial  
 Education and Technology  
 C. Rodger Hammons, Chair, Department of Mathematical Sciences  
 Linda K. Saylor, Chair, Department of Nursing and Allied  
 Health Sciences  
 J. Dudley Herron, Chair, Department of Physical Sciences

### Administration and Fiscal Services

Porter Dailey, Vice President for Administration  
 and Fiscal Services  
 Michael R. Walters, Assistant Vice President for Fiscal Services  
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 Nell Bland, Administrative Assistant II  
 Joe Planck, Director of Physical Plant  
 Ray Pinner, Director of Budgets and Management Information  
 Marion Boenheim, Director of Human Resources  
 James Fluty, Director of Accounting and Budgetary Control  
 Gary Messer, Occupational Health and Safety Coordinator  
 Ron Jones, Properties and Postal Manager  
 Charlotte Dowdy, Director of Purchasing  
 Angela Martin, Internal Auditor  
 William Sharp, Director of University Bookstore  
 Dwayne P. Cable, Director of Information Technology  
 Jo Brewer, Director of Payroll  
 Elaine Parish, Postmaster

### Student Life

D. Michael Mincey, Vice President for Student Life  
 Myron Doan, Dean of Students  
 Jeanie Scruggs, Administrative Assistant II  
 Larry Stephenson, Director of Student Activities  
 Jerry Gore, Minority Student Affairs Director  
 Tim Rhodes, Director of Financial Aid  
 Madonna Huffman, Director of Student Development  
 Kenny White, Director of Student Housing  
 Richard Green, Manager of Public Safety  
 Steve Hamilton, Director of Athletics  
 Peter Pilling, Assistant Director of Athletics

### University Advancement

Keith Kappes, Vice President for University Advancement and  
 Executive Vice President, MSU Foundation, Inc.  
 Judith O. Yancy, Director of Institutional Relations  
 William H. Redwine, Director of Alumni Relations and  
 Executive Vice President, MSU Alumni Association, Inc.  
 James R. Caudill Jr., Assistant Director of Development for Athletics  
 Mickey Morgan Russo, Director of Publications and Printing Services  
 Larry Netherton, General Manager, WMKY Radio  
 Cindy Trent, Printing Production Manager  
 Robert F. Howerton, Planned Giving Officer  
 Eric Shindelbower, Chief Photographer  
 Tami B. Jones, Assistant Director of Alumni Relations  
 James M. Gifford, Executive Director, The Jesse Stuart Foundation, Inc.

*The date in parentheses after the name is that of first appointment to a position on the faculty of this university.*

## College of Business

### Department of Accounting and Economics

- John Alcorn, associate professor (1976), M.B.A.,  
Georgia State University
- Roland Buck, associate professor (1983), Ph.D., Texas A&M University
- Rosemary Carlson, associate professor (1983), D.B.A.,  
University of Kentucky
- Bernard Davis, professor (1978), Ph.D., University of Kentucky
- Terry Elliott, assistant professor (1988), M.S.A., Marshall University
- Ishappa Hullur, associate professor (1989), Ph.D.,  
University of Kentucky
- Green Miller, associate professor (1979), Ph.D., University of Kentucky
- John Osborne, assistant professor (1977), M.B.A.,  
Eastern Kentucky University
- Kenneth Smith, assistant professor of economics (1991), D.A.,  
Middle Tennessee State University
- Gary Van Meter, associate professor (1976), M.B.A.,  
Southern Illinois University
- Sharon Walters, assistant professor (1987), M.B.A.,  
Morehead State University
- Lowell K. Williams, associate professor (1988), D.B.A.,  
University of Kentucky
- Mesghena Yasin, assistant professor of economics (1986), Ph.D.,  
University of Cincinnati

### Department of Information Sciences

- Marvin Albin, associate professor (1990), Ed.D.,  
Arizona State University
- Mansoor Aminilari, assistant professor (1993), Ph.D. candidate,  
University of Kentucky
- Bonnie Bailey, instructor (1979), M.B.A., Morehead State University
- Herbert Berry, associate professor (1980), Ph.D., New York University
- Ray Bernardi, professor (1984), Ph.D., University of Oklahoma
- Jack Henson, assistant professor (1970), M.S.E., Arkansas University
- Charles Hicks, professor (1986), Ph.D., Southern Illinois University
- Hilary Iwu, assistant professor (1988), Ph.D., University of Nebraska
- Sue Luckey, professor (1963), Ph.D., Southern Illinois University
- Carole Morella, assistant professor (1966), M.A.,  
Morehead State University
- Helen Northcutt, assistant professor (1966), A.M.,  
Morehead State University
- Gail Ousley, assistant professor (1969), M.B.E.,  
Morehead State University
- Debra Tesch, assistant professor (1993), Ph.D.,  
Louisiana Tech University
- Robert Tesch, associate professor (1993), Ph.D., Utah State University

### Department of Management and Marketing

- David Barber, assistant professor (1993), M.B.A.,  
Morehead State University
- Sheryl Brown, assistant professor (1993), Ph.D., University of Kentucky
- Rodger Carlson, professor (1983), Ph.D., Claremont Graduate School
- C. Dale Caudill, instructor (1980), M.B.A., Morehead State University
- Wilson Grier, assistant professor (1993), M.B.A.,  
Morehead State University
- Michael Harford, associate professor (1988), J.D.,  
Wake Forest University
- Beverly McCormick, associate professor (1985), J.D.,  
University of Louisville
- Robert Meadows, professor (1982), D.B.A., Kent State University
- Mary Peggy Osborne, assistant professor (1979), M.B.A.,  
Morehead State University

- Jack Peters, associate professor (1979), Ph.D.,  
University of North Dakota
- Bill Pierce, professor (1982), Ed.D., Wayne State University

## College of Education and Behavioral Sciences

### Department of Elementary, Reading and Special Education

- Shirley Blair, associate professor (1970), A.M.,  
Morehead State University
- Diane Cox, assistant professor (1978), Ed.S., Morehead State University
- Kent Freeland, professor (1977), Ph.D., University of Iowa
- Carol Ann Georges, assistant professor (1970), M.A.,  
University of Kentucky
- Mary Ann Gladden, associate professor (1989), Ph.D.,  
Ohio State University
- Daniel Grace, assistant professor (1986), Ed.D., University of Oregon
- Colleta Grindstaff, assistant professor (1969), A.M.,  
East Tennessee State University
- Karen Hammons, assistant professor (1972), M.A.,  
Morehead State University
- Coleene Hampton, instructor (1973), A.M., Morehead State University
- Katharine Herzog, associate professor (1979), Ed.D.,  
Florida State University
- Lois Howell, instructor (1972), M.A., University of Tennessee
- Paul R. McGhee, professor (1983), Ph.D., Syracuse University
- Timothy Miller, associate professor (1988), Ed.D., Ball State University
- Barbara Neimeyer, associate professor (1983), Ed.D.,  
Arizona State University
- Phyllis Oakes, associate professor (1988), Ph.D.,  
Indiana State University
- David Peterson, assistant 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
- Diane Ris, S.P., professor (1977), Ed.D., Ball State University
- Layla Sabie, professor (1965), Ed.D., George Peabody College
- Edna Schack, associate professor (1987), Ed.D., Illinois State University
- Markham Schack, professor (1987), Ed.D., Oklahoma State University
- Wenju Shen, assistant professor (1990), Ed.D.,  
Indiana University of Pennsylvania
- Wayne Willis, associate professor (1988), Ph.D.,  
University of Oklahoma

### Department of Leadership and Secondary Education

- Richard Daniel, professor (1976), Ed.D.,  
North Carolina State University
- Daniel Fasko, Jr., associate professor (1987), Ph.D.,  
Florida State University
- Jerry Franklin, assistant professor (1969), M.Ed., Xavier University
- Harry C. Mayhew, associate professor (1963), Ed.D.,  
Ball State University
- Bill F. Moore, associate professor (1970), Ph.D., University of Iowa
- Dean Owen, professor (1977), Ph.D., University of Florida
- Harold Rose, professor (1968), Ph.D., Florida State University
- Wanda L. Staley, assistant professor (1992), Ph.D.,  
Kent State University
- Paul Turgi, assistant professor (1989), Ed.D., Indiana University
- William Weikel, professor (1975), Ph.D., University of Florida
- Mariam Williams, associate professor (1990), Ed.D.,  
University of Kentucky
- Stephen Young, professor (1968), Ed.D., Indiana University

## Department of Health, Physical Education, and Recreation

- Palmer Adkins, assistant professor (1979), Ed.D., Middle Tennessee State University
- Michael Ballard, assistant professor (1993), Ed.D., University of Tennessee
- Laradean Brown, assistant professor (1972), M.A., Morehead State University
- W. Michael Brown, associate professor (1966), Ph.D., University of Southern Mississippi
- Rex Chaney, associate professor (1961), R.E.D., Indiana University
- Buford Crager, assistant professor (1967), M.H.E., Morehead State University
- Lynne Elizabeth Fitzgerald, associate professor (1986), Ed.D., Temple University
- Robert Gruening, professor (1989), Ph.D., University of Oregon
- Monica A. Magnier, assistant professor (1991), Ed.D., West Virginia University
- Mohammed Sabie, professor (1964), Ed.D., George Peabody College
- Jack C. Sheltmire, associate professor (1993), Ph.D., College of Environmental Science and Forestry, Syracuse
- Harry F. Sweeney, associate professor (1969), Ed.D., University of Tennessee

## Department of Military Science

- Harold Sparks, Master Sergeant, Chief Instructor (1992)
- Houston Corbitt, Sergeant First Class, Training NCO (1993)
- Aaron Quetot, Sergeant, Supply NCO (1992)
- Joseph H. Pillow, Captain, assistant professor (1991), B.A., Western Kentucky University
- Laura J. Pillow, Captain, assistant professor (1991), B.A., Eastern Kentucky University
- Hank Patton, Captain, assistant professor (1992), B.S., Eastern Kentucky University
- Ralph Shoap, Major, professor (1993), M.S., Troy State University

## Department of Psychology

- Lynn Augsbach, assistant professor (1992), M.A., Miami University
- L. Bradley Clough, professor (1966), Ph.D., University of Connecticut
- Anna Lee Demaree, professor (1971), Ph.D., University of Kentucky
- James E. Gotsick, professor (1968), Ph.D., Syracuse University
- Bruce A. Mattingly, professor (1980), Ph.D., University of Kentucky
- Charles Morgan, associate professor (1979), Ph.D., University of Florida
- David R. Olson, assistant professor (1990), Ph.D., Oklahoma State University
- Francis Osborne, professor (1967), Ph.D., Syracuse University
- Angela Simon, assistant professor (1993), Ph.D., University of California at Davis
- George S. Tapp, professor (1969), Ph.D., University of Kentucky

## Department of Sociology, Social Work, and Criminology

- Robert A. Bylund, professor (1979), Ph.D., Pennsylvania State University
- Mary Carney, assistant professor (1993), University of Illinois at Urbana-Champaign
- Lola R. Crosthwaite, associate professor (1968), M.S.W., University of North Carolina
- Byron R. Johnson, associate professor (1991), Ph.D., Florida State University
- Ted A. Marshall, professor (1977), M.S.W., University of Kentucky
- Margaret D. Patton, associate professor (1960), A.M., University of Mississippi
- Edward Reeves, professor (1984), Ph.D., University of Kentucky
- David R. Rudy, professor (1980), Ph.D., Syracuse University
- J. Michael Seelig, professor (1983), J.D., Capital University
- Judith A. Stafford, assistant professor (1989), Ph.D.,

Ohio State University

- Sue Tallichet, assistant professor (1993), Ph.D., Penn State University
- Gabe Wang, assistant professor (1993), Brigham Young University
- Alban L. Wheeler, professor (1972), Ph.D., Mississippi State University
- Patsy R. Whitson, associate professor (1970), M.S.W., University of Kentucky
- S. Mont Whitson, professor (1970), Ph.D., Texas A&M University

## Caudill College of Humanities

### Department of Art

- David Bartlett, associate professor (1980), M.F.A., University of Michigan
- Bill R. Booth, professor (1970), Ph.D., University of Georgia
- Dixon Ferrell, associate professor (1980), M.F.A., University of Mississippi
- Robert Franzini, professor (1980), M.F.A., University of Iowa
- Ryan Howard, professor (1972), Ph.D., University of Michigan
- Roger H. Jones, professor (1965), Ed.D., Indiana University
- Joe D. Sartor, associate professor (1968), M.A., University of Missouri
- Thomas Sternal, professor (1984), M.F.A., University of Montana
- Stephen Tirone, associate professor (1982), M.F.A., University of Wisconsin
- Don Young, assistant professor (1967), M.A., Morehead State University

### Department of Communications

- Lawrence S. Albert, associate professor (1986), Ph.D., Pennsylvania State University
- Joan Atkins, assistant professor (1992), M.A., Morehead State University
- Michael Biel, associate professor (1978), Ph.D., Northwestern University
- David Collins, assistant professor (1981), M.A., Marshall University
- Larry Dales, assistant professor (1974), M.A., Brigham Young University
- Elizabeth Noel Earl, assistant professor (1991), Ph.D., Ohio University
- Shirley Gish, professor (1989), Ph.D., University of Arizona
- Dale Greer, assistant professor (1982), M.A., Morehead State University
- Harlen Hamm, professor (1965), M.A., Bowling Green State University
- Janet Kenney, associate professor (1994), Ph.D., University of Oregon
- Gary LaFleur, assistant professor (1994), Ph.D., University of Massachusetts at Amherst
- William J. Layne, associate professor (1987), Ph.D., Northwestern University
- Calvin O. Lindell, assistant professor (1985), M.A., Abilene Christian University
- Travis Lockhart, associate professor (1982), Ph.D., University of Texas
- John V. Modaff, assistant professor (1987), Ph.D., Southern Illinois University
- Deborah L. Plum, assistant professor (1989), Ph.D., Ohio University
- Kenneth Sexton, assistant professor (1993), M.A., Florida State University
- Cathy Thomas, assistant professor (1994), Ph.D., Ohio University
- Jack E. Wilson, professor (1967), Ph.D., Michigan State University
- Thomas L. Yancy, assistant professor (1977), M.A., Morehead State University

## Department of English, Foreign Languages, and Philosophy

- Rosemarie Battaglia, assistant professor (1992), Ph.D., State University of New York at Binghamton
- Michelle Boisseau, associate professor (1987), Ph.D., University of Houston
- Glenna E. Campbell, associate professor (1966), M.A., Morehead State University



Vincente Cano, professor (1985), Ph.D., University of Georgia  
 C. Glen Colburn, assistant professor (1991),  
 University of Texas at Austin  
 G. Ronald Dobler, professor (1972), Ph.D., University of Iowa  
 George Eklund, assistant professor (1989), M.F.A., University of Iowa  
 Marc D. Glasser, professor (1972), Ph.D., Indiana University  
 Eugene B. Hastings, associate professor (1989), Ph.D.,  
 University of Texas  
 Frances L. Helphinstine, professor (1966), Ph.D., Indiana University  
 Terry L. Irons, assistant professor (1993), University of Missouri  
 Joyce C. LeMaster, associate professor (1961), M.A.,  
 Morehead State University  
 George M. Luckey, professor (1961), Ph.D., Southern Illinois University  
 Jennings R. Mace, associate professor (1989), Ph.D.,  
 University of North Carolina  
 Franklin M. Mangrum, professor (1959), Ph.D., University of Chicago  
 George A. Mays, assistant professor (1969), M.H.E.,  
 Morehead State University  
 Mark G. Minor, professor (1993), Ohio State University  
 Ronald D. Morrison, associate professor (1988), Ph.D.,  
 University of Kansas  
 Sarah Morrison, assistant professor (1988), Ph.D.,  
 University of Kansas  
 Mary M. Netherton, associate professor (1964), M.A.,  
 University of Kentucky  
 L. Layne Neeper, assistant professor (1993),  
 Pennsylvania State University  
 Wendell O'Brien, assistant professor (1992), Ph.D.,  
 Johns Hopkins University  
 Betty H. Peters, assistant professor (1975), Ed.S.,  
 Morehead State University  
 Nancy Peterson, assistant professor (1992), University of Texas at Austin  
 Glenn C. Rogers, professor (1967), Ph.D., University of North Carolina  
 Judy Rogers, professor (1967), Ph.D., University of North Carolina  
 John R. Secor, associate professor (1988), Ph.D.,  
 University of North Carolina  
 Thomas S. Stroik, associate professor (1987), Ph.D.,  
 University of Wisconsin  
 Loretta Vishomirskye, assistant professor (1992), Ph.D.,  
 Moscow State University  
 Jack L. Weir, professor (1990), Ph.D.,  
 Southwestern Theological Seminary

## Department of Geography, Government, and History

### Geography

Roland L. Burns, professor (1972), Ed.D.,  
 University of Southern Mississippi  
 Robert B. Gould, professor (1963), Ph.D., University of Tennessee  
 Ronald Mitchelson, professor (1979), Ph.D., Ohio State University  
 Yu Luo, assistant professor (1992), Ph.D., University of Georgia

### Government and Paralegal Studies

Lindsey R. Back, professor (1974), Ph.D., University of Tennessee  
 James P. Dahlberg, assistant professor (1987), J.D.,  
 University of Minnesota  
 William Green, associate professor (1984), Ph.D.,  
 State University of New York at Buffalo  
 Ric Northrup, assistant professor (1990), Ph.D.,  
 University of North Carolina  
 Kay Schafer, associate professor (1983), J.D., University of Kentucky  
 Marilyn Yale, assistant professor (1992), Ph.D., University of Houston

### History

Donald F. Flatt, professor (1962), Ph.D., University of Kentucky  
 Charles E. Holt, professor (1968), Ph.D., University of Kentucky  
 Broadus B. Jackson, professor (1969), Ph.D., Indiana University  
 John E. Kleber, professor (1968), Ph.D., University of Kentucky

Perry E. LeRoy, professor (1961), Ph.D., Ohio State University  
 Stuart S. Sprague, professor (1968), Ph.D., New York University

## Department of Music

Michael Acord, assistant professor (1989), M.M.,  
 Michigan State University  
 David Anderson, associate professor (1978), M.M., Indiana University  
 Anne Beane, instructor (1978), M.M., Morehead State University  
 James R. Beane, associate professor (1959), M.M.,  
 Louisiana State University  
 Harold Leo Blair, associate professor (1975), M.F.A., Ohio University  
 Suanne Blair, assistant professor (1969), M.M.,  
 University of Southern California  
 Larry R. Blocher, associate professor (1988), Ph.D.,  
 Florida State University  
 Jon W. Burgess, assistant professor (1988), D.M.A.,  
 Arizona State University  
 James W. Bragg, associate professor (1963), M.M.,  
 New England Conservatory of Music  
 R. Jay Flippin, associate professor (1969), M.M.,  
 Morehead State University  
 Christopher S. Gallaher, professor (1972), Ph.D., Indiana University  
 Andrew Glendenning, assistant professor (1993), D.M., Indiana  
 University  
 Larry Curtis Hammond, assistant professor (1993), M.M.,  
 Cleveland Institute of Music  
 Larry W. Keenan, professor (1967), M.M., Indiana University  
 Earle L. Louder, professor (1968), D.M., Florida State University  
 Richard Miles, associate professor (1985), M.S.M.E.,  
 University of Illinois  
 Eugene C. Norden, assistant professor (1968), M.M.,  
 Morehead State University  
 Frank Oddis, associate professor (1977), M.M., East Carolina University  
 Roma Prindle, assistant professor (1993), M.M.,  
 Hartt School of Music  
 Robert D. Pritchard II, associate professor (1972), Mus. A.D.,  
 Boston University  
 Raymond Ross Jr., assistant professor (1978), M.M.,  
 University of North Texas  
 Jennifer Schuler, assistant professor (1991), D.M.A.,  
 Suny (Stoneybrook)  
 Paul Taylor, assistant professor (1990), D.M.A.,  
 University of Wisconsin-Madison  
 John Viton, assistant professor (1988), M.M.A., Yale University

## College of Science and Technology

### Department of Agricultural Sciences

Donald Lyn Applegate, associate professor (1984), D.V.M.,  
 Auburn University  
 Vivian Barnes, instructor (1984), M.S., Morehead State University  
 Joe F. Bendixen, professor (1971), Ph.D., Iowa State University  
 Robert Lane Cowser, professor (1994), Ph.D.,  
 University of Tennessee at Knoxville  
 Debby A. Johnson, associate professor (1988), Ph.D.,  
 University of Kentucky  
 Barbara Lewis, instructor (1981), M.A., C.V.T.,  
 Morehead State University  
 Tamara A. McMillan, instructor (1979), B.S., William Woods College  
 Charles Brent Rogers, associate professor (1984), Ph.D.,  
 University of Arkansas  
 Scott W. Rundell, assistant professor (1984), D.V.M.,  
 Michigan State University  
 Carroll Lee Tyner, associate professor (1992), D.V.M.,  
 Arkansas State University  
 Judith G. Willard, associate professor (1977), Ph.D.,  
 University of Kentucky

Robert H. Wolfe, associate professor (1967), M.S.,  
Virginia Polytechnic Institute and State University

## Department of Biological and Environmental Sciences

David M. Brumagen, professor (1965), Ph.D., University of Kentucky  
Fred M. Busroe, associate professor (1967), M.A.,  
University of Virginia  
Gerald L. DeMoss, professor (1968), Ph.D., University of Tennessee  
Geoffrey Gearner, associate professor (1990), Ph.D.,  
Texas A&M University  
Jerry F. Howell Jr., professor (1972), Ph.D.,  
University of Tennessee  
David T. Magrane, professor (1976), Ph.D., University of Arizona  
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Public institutions of higher education were established and are maintained by the Commonwealth of Kentucky primarily for the benefit of qualified residents of Kentucky. The substantial commitment of public resources to higher education is predicated on the proposition that the state benefits significantly from the existence of an educated citizenry. 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 Higher 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 Commonwealth of Kentucky uses residency requirements to determine items such as voting rights, income tax liability, and employment in certain occupations. The requirements vary in form and substance for each of these uses. The purpose of this regulation is to establish a process and corresponding criteria for the residency classification of students seeking admission to, or enrolled in, public institutions of higher education. Furthermore, it is the intent of the Council on Higher Education that this regulation be interpreted and applied in a uniform manner, as described herein, in determining whether students shall be classified as residents or nonresidents for admission and tuition assessment purposes.

### Section 1. Definitions.

The language of this regulation on residency classification contains some legal terms as well as everyday terms which have specialized meaning in the determination of residency for admission and tuition assessment purposes. The following definitions apply in the interpretation and application of this regulation:

1. "Academic term" means a division of the school year during which a course of studies is given, e.g., semester, quarter, or intersession.
2. Enrollment at a college or colleges shall be deemed "continuous" if the person claiming "continuous" enrollment continues to be enrolled at the same degree level for consecutive terms (excluding summer) since the beginning of the period for which continuous enrollment is claimed. The sequence of continuous enrollment is broken if the student fails to enroll, except under extenuating circumstances beyond the student's control, e.g., serious personal illness or injury, or illness or death of parent.
3. "Degree level" means one of the following:
  - (a) Undergraduate (enrollment in courses or programs which result in the baccalaureate degree or lower);
  - (b) Graduate (enrollment in courses or programs which result in a post-baccalaureate degree other than the first-professional degrees in law, medicine, and dentistry); or
  - (c) Professional (enrollment in courses or programs which result in a professional degree in law, medicine, or dentistry).

4. The term "dependent person" means a person who is unable to meet all the criteria listed in subsection (9) of this section.

5. "Documentation" refers to the submission source documents, e.g., official letters, papers, or sworn statements. As a general rule, evidence cited as the basis for domicile shall be documented, and the required documentation shall accompany the application for residency classification.

6. The term "domicile" means a person's true, fixed, and permanent home. It is the place where the person intends to remain, and to which the person expects to return without intending to establish a new domicile elsewhere. "Legal residence" and domicile convey the same notion of permanence and are used interchangeably.

7. "Full-time employment" means employment for at least 48 work weeks at an average of at least 30 hours per week.

8. "Half-time enrollment" means any enrollment during an academic term which is equal to one-half of full-time as determined by the governing board of the institution.

9. The term "independent person" means a persons who meets all of the following criteria. An independent person is one:

- (a) whose parent has not claimed such person as a dependent on federal or state income tax returns for the tax year preceding the date of application for reclassification of residency status;
- (b) who demonstrates no financial dependence upon parent(s); and
- (c) whose parents' income is not taken into account by any private or governmental agency furnishing educational financial assistance to the person, including scholarships, loans, and other assistance.

10. The terms "institution," "institution of higher education," or "college" refer to all institutions, public or private, offering instruction and conferring degrees beyond the secondary school level, such as four-year colleges or universities, seminaries, two-year institutions (community colleges and junior colleges), and postsecondary vocational-technical schools.

11. The term "nonresident" means a person who currently maintains legal residence outside Kentucky or has not met the criteria for establishing residency as defined in this regulation.

12. The term "parent" means one of the following:
- (a) a person's father or mother, or
  - (b) a court-appointed legal guardian.

The term "parent" shall not apply if the guardianship has been established primarily for the purpose of conferring the status of resident on a person.

13. The term "resident" means a person who is a legal resident of Kentucky based upon fulfilling the criteria for establishing residency as set out in Section 2 of this regulation.

## Section 2. Guidelines for Determination of Residency

1. Initial classification of residency shall be determined based upon the facts existing when the conditions governing admission for a specific academic term have been met. Initial residency determinations generally are made on the basis of information derived from admissions materials. An undergraduate student whose admissions records show the student to be a graduate of an out-of-state high school is presumed to be a nonresident and shall be initially so classified. A student whose admission records indicate the student's domicile to be outside of Kentucky at time of application is presumed to be a nonresident and shall be initially so classified.

2. The domicile of a dependent person is that of either parent. The domicile of the parent shall be determined in the same manner as the domicile of an independent person.

3. The domicile of a dependent person whose parents are divorced, separated, or otherwise living apart shall be presumed to be Kentucky if either parent is a resident of the Commonwealth regardless of which parent has legal custody or is entitled to claim that person as a dependent pursuant to Kentucky income tax provisions.

4. Evidence submitted on behalf of the dependent person shall pertain to the domicile of the parent(s). A person claiming independent status shall document the proclaimed status and demonstrate that domicile in Kentucky has been established.

5. Any dependent person whose parent(s), having domicile in this state, moves from this state shall be entitled to classification as a resident while in continuous enrollment at the degree level in which currently enrolled. When continuous enrollment is broken or the current degree level is completed, the person's residency classification shall be reassessed in accordance with the appropriate sections of this regulation.

6. An independent person who moves to Kentucky and within 12 months enrolls in an institution of higher education more than half-time shall be presumed to have come to Kentucky primarily for educational purposes rather than to establish domicile in Kentucky. Such person shall be classified as a nonresident unless establishment of a Kentucky domicile can be demonstrated in accordance with Section 3 of this regulation.

7. Upon moving to this state, an independent person who provides clear and convincing evidence of domicile shall be eligible for resident classification of self, spouse, or dependent children, provided that any of these persons is not in this state primarily as a student. A person who moves to Kentucky primarily for the purpose of enrollment of either self, spouse, or dependent in an institution of higher education shall not be granted resident classification unless such person can demonstrate establishment of a Kentucky domicile in accordance with Section 3 of this regulation.

8. If an independent person or the parent of a dependent person moves out-of-state, domicile, having

been established in Kentucky, is retained until steps are taken to establish domicile elsewhere. The same facts and conditions which are presumed in establishing a Kentucky domicile are similarly presumed in determining when a former Kentucky domicile has been abandoned. In the absence of clear and convincing evidence as to the domicile of an independent person who at one time had a domicile in Kentucky, that person is presumed to have lost Kentucky domicile upon a one-year absence from the state.

9. An individual shall not be deemed to have established domicile in this state solely by reason of marriage to a Kentucky resident. However, the fact of marriage to a Kentucky resident shall be deemed relevant evidence to be considered in ascertaining domiciliary intent. A student initially classified as a nonresident who marries a Kentucky resident shall be eligible for resident classification if the requisite criteria listed in Section 3 of this regulation are met.

10. Given transfer to, or matriculation in, another Kentucky public institution of higher education, the student's residence classification shall be reassessed by the receiving institution.

11. An individual whose domicile was Kentucky at the time of induction into the military, and who maintains Kentucky as home of record and permanent address, shall be entitled to resident status if the individual returns to this state within six months of the date of discharge from active duty.

12. A member or the spouse of a member of the Armed Forces of the United States stationed in Kentucky on active military orders is considered domiciled in the state and shall be entitled to classification as a resident while the member is on active duty in this state pursuant to such orders. The spouse of the member, while in continuous attendance at the degree level in which currently enrolled, shall not lose resident status when the member is thereafter transferred on military orders. Individuals classified under this section shall be reassessed in accordance with the appropriate sections of this regulation when the qualifying condition is terminated. This regulation is invalid if the individual is stationed in Kentucky for the purpose of enrollment at an institution of higher education or on temporary assignment of less than one year.

13. A dependent person whose parent is a member of the Armed Forces and stationed in this state on active duty pursuant to military orders shall be classified as a resident. The student, while in continuous attendance at the degree level in which currently enrolled, shall not lose resident status when the parent is thereafter transferred on military orders. When continuous attendance is broken or the current degree level is completed, the person's residency classification shall be reassessed in accordance with the appropriate sections of this regulation. This subsection does not apply if the parent is stationed in Kentucky for the purpose of enrollment at an institution of higher



education or on a temporary assignment of less than one year.

14. Any person holding a permanent residency visa or classified as a political refugee has the capacity to remain in Kentucky indefinitely and shall establish domicile in the same manner as any other person. Time spent in Kentucky and progress made in fulfilling conditions of domicile as stated in Section 3(1) prior to obtaining permanent status may be considered in establishing Kentucky domicile.

15. Any person holding a nonimmigrant visa with designation A, E, G, H, I, or L may remain in Kentucky as long as the authorized purpose or established need continues and may establish domicile the same as any other person. In assessing the residency status of such a person, other sections of this regulation shall apply and the person's purpose and length of stay as well as other conditions governing presence in Kentucky shall be determined and considered. If this review justifies a resident classification, the person shall be classified as a resident for admission and tuition assessment purposes.

16. Any person holding a nonimmigrant visa with designation B, C, D, F, J, K, or M does not have the capacity to remain in Kentucky indefinitely and may not attain Kentucky resident status for admission and tuition assessment purposes.

17. Pursuant to KRS 164A.330 and 200 KAR 16:040, beneficiaries of a Kentucky Educational Savings Plan Trust shall be granted resident classification for tuition purpose if:

- (a) the beneficiary is covered under a vested participation agreement;
- (b) the beneficiary has been a continuous resident of the Commonwealth of Kentucky during the eight-year vestment period; and
- (c) the beneficiary enrolls in an institution of higher education in Kentucky prior to enrollment in any other educational institution.

18. No independent person shall be presumed to have gained resident status while being enrolled in any institution of higher education more than half-time in the absence of clear and convincing evidence that the person has established domicile in Kentucky.

19. Domicile shall not ordinarily be conferred by the performance of acts which are auxiliary to fulfilling educational objectives or are performed as a matter of convenience. Mere physical presence in Kentucky (including living with relatives or friends) is not sufficient evidence of domicile.

### Section 3. Types of Evidence to be Considered for Establishment of Domicile.

1. Evidence submitted on behalf of a dependent person shall pertain to the domicile of either parent. Initial classifications generally are made on the basis of information derived from admissions materials, and individuals who enroll in college immediately following

graduation from high school and remain enrolled are treated as dependent persons unless the contrary is evident from the information submitted. In such cases, domicile shall be inferred from the student's permanent address, parent's mailing address, or locations of high school graduation.

2. A person claiming independent status shall document independent status under Section 1(5) of this regulation and shall demonstrate by clear and convincing evidence that domicile in Kentucky has been established by that person's acts. If an independent person asserts that domicile in Kentucky has been established, the person has the burden of proving that assertion by clear and convincing evidence.

3. The determination of domicile shall be based upon verifiable circumstances or actions. No single fact is paramount, and each situation shall be evaluated to identify those facts which are essential to the determination of domicile.

4. The following facts, although not conclusive, shall have probative value in support of a claim by an independent person for resident classification:

- (a) acceptance of an offer of full-time employment or transfer to an employer in Kentucky or contiguous area while maintaining domicile in Kentucky;
- (b) continuous physical presence in a nonstudent status for the 12 months immediately preceding the last date for enrollment in an institution;
- (c) filing of Kentucky resident income tax return for the calendar year preceding the date of application for reclassification of residency status;
- (d) full-time employment of at least one year while living in Kentucky;
- (e) attendance as a full-time, nonresident student at an out-of-state institution of higher education while determined to be a resident of Kentucky;
- (f) abandonment of a former domicile and establishing domicile in Kentucky with attendance at an institution of higher education following and only incidental to such change in domicile;
- (g) payment of occupational taxes in Kentucky;
- (h) payment of real property taxes in Kentucky;
- (i) payment of intangible personal property taxes in Kentucky;
- (j) ownership of real property in Kentucky, if the property was used by the student as a residence for at least six months preceding the date of application for reclassification of residency status;
- (k) long-term lease (at least 12 consecutive months) of noncollegiate housing;
- (l) Kentucky automobile registration;
- (m) Kentucky driver's license;
- (n) continued presence in Kentucky during vacation periods;



- (o) marriage to a Kentucky resident; and
- (p) registration as a Kentucky voter.

5. Documentation. The determination of domicile shall be based upon verifiable circumstances or actions, and a student may be required to submit original notarized copies of any relevant evidence pertaining to domicile. When reviewing the documentation submitted, institutions may request additional documentation to clarify the person's circumstances and to formulate a classification decision which considers all relevant facts.

6. Submission of False Documents. A student who gives incorrect or misleading information to institution officials may be subject to criminal prosecution and to such disciplinary sanctions as may be imposed by the institution, which shall include but not necessarily be limited to the payment of nonresident tuition for each academic term attended.

#### Section 4. Responsibilities

1. Institution Responsibilities. Each institution shall designate an administrative office or person with delegated day-to-day responsibility for administration of this classification regulation and for evaluating and deciding student requests for reclassification. Each institution shall also establish a residency review committee (hereafter the Committee) to assist and recommend action on student requests for reclassification referred to the Committee by said administrative office or person having day-to-day responsibility for this regulation. To evaluate student requests for reclassification, each institution shall establish an operational policy including procedures and designated responsibilities. The Council on Higher Education Residency Classification Policy shall be published in its entirety in the official bulletin(s) of each institution.

2. Student Responsibilities. 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 institution officials of the change in status, institutional officials may investigate and evaluate the current status of the student regardless of the source of the 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 the proper administrative officials.

3. Request for Reclassification. Application for change of residency classification shall be made to the administrative office or person designated by the institution for this purpose. Such application with supporting documentation shall be made by the student not more than 45 calendar days after the first day of classes of the academic term for which reclassification is sought. A

student may apply for reclassification only once during the academic term for which reclassification is requested.

- (a) To support full consideration of a request for a change in residency classification, each application shall consist of a complete affidavit which includes the necessary documentation to substantiate facts cited for reclassification. Each applicant is encouraged to submit a formal statement indicating the basis for the claim of resident status. The student shall be responsible for ensuring that all necessary documentation is submitted with the affidavit. Incomplete applications may be returned to the student for completion at the discretion of appropriate institutional officials.
- (b) Applications for reclassification shall be reviewed according to institutional policy. When applications for reclassification are referred to the Committee, the student shall be notified in writing as to the Committee's decision on the application. The Committee's written decision on residency shall include findings of fact, and determination of whether the applicant is deemed to be a "dependent person" or "independent person," whether the applicant is a "resident" or "nonresident," and the reason(s) based upon this regulation for said determinations. If an application results in a change of classification from nonresident to resident, such change shall not be made retroactive beyond the academic term in which application for resident classification is made. A student denied resident classification by the Committee shall have the right to appeal such decision to the Council on Higher Education.

#### Section 5. Procedure for Appeal to the Council on Higher Education.

1. The Executive Director of the Council on Higher Education shall appoint a person to serve as an appeals officer. The appeals officer shall review all residency appeals from the public institutions of higher education to determine if the Committee's written decision is supported by substantive evidence and in conformity with this regulation.

2. After the student receives the decision of the Committee, the student has 14 calendar days in which to appeal that decision to the Council on Higher Education. The student initiates this process by giving written notice to the chair of the Committee or the person or office designated by the institution to handle such appeals. Appeals filed more than 14 calendar days after receipt of the decision of the Committee shall be dismissed and the decision of the Committee shall be final.

3. The Committee or its designated representative shall be responsible for forwarding to the Council on Higher Education a complete copy of the student's file

within 14 calendar days of the receipt of a notice of appeal. The student may review the content of the file before it is forwarded to the Council on Higher Education.

4. The appeal shall be considered on the written record alone and new or additional evidence shall be considered.

5. The appeals officer shall review the written record and the Committee's written decision and shall make a recommendation to affirm, modify, or reverse the committee's decision. The appeals officer may order the appeal remanded to the Committee for further proceedings before the appeals officer renders a recommendation. Within 21 calendar days after receipt of the student's file, the recommendation of the appeals officer shall be forwarded to the Executive Director of the Council of

Higher Education or designated representative. The Executive Director of the Council on Higher Education or designated representative shall promptly forward the recommendation of the appeals officer to the institution representative designated to handle appeals for final disposition by the institution in accordance with established institutional procedures.

6. The institutional representative shall promptly forward the recommendation of the appeals officer to the student. Each party (the institution and the student) shall have ten calendar days after receipt of the appeals officer's recommendation to file written exceptions to the report with the institutional representative designated to handle final disposition of appeals. The institution shall make final disposition of the appeal and notify the student within 30 days after expiration of the ten-day period for filing exceptions.

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