

MOREHEAD STATE UNIVERSITY
MSU ARCHIVES

Undergraduate Catalog



Morehead State University Undergraduate Catalog 1982-83

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Equal Opportunity Morehead State University is committed to providing equal educational opportunity to all persons regardless of race, color, age, sex, religion, national origin, or educationally-unrelated handicaps. The University does not discriminate on the basis of sex in its educational programs, activities, employment policies, or admission of students to any program of study as required by Title IX of the 1972 Education Amendments. Inquiries should be addressed to Vinson A. Watts, Affirmative Action Officer, Morehead State University, 106 Howell-McDowell Ad. Bldg., Morehead, KY 40351.

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General Information

Purposes

The university should be a community of students, teachers, administrators, and staff where all pursue intellectual, creative, and technical development.

The university should foster an environment in which knowledge may be discovered, integrated, and disseminated for concerns of social significance or for the excitement of research or free inquiry.

The university should provide opportunity for students to recognize their potentialities and to acquire the discipline necessary for self-realization.

The university should be a place where the interaction of students and teachers committed to excellence creates an atmosphere in which both will be stimulated to accept the challenges of the universe.

The university should promote the development of those qualities of leadership necessary to meet the diverse needs of the state, nation, and world.

The university should develop programs to fulfill its specific mission of serving the economic, education, social, and cultural needs of northern and eastern Kentucky.

The university should respond to the demands of the present by utilizing the achievements and values of the past and by exploring the possibilities of the future.

Undergraduate Degree Programs

Associate of Arts Degree in:

Humanities
University Studies

Associate of Applied Arts Degree in:

Corrections
Journalism
Radio-Television
Social Work

Associate of Applied Business Degree in:

Data Processing
Office Management
Real Estate
Secretarial Studies
Small Business Management

Associate of Applied Science Degree in:

Agricultural Business Technology
Broadcast Technology
Construction Technology
Drafting and Design Technology
Electrical Technology
Electronics Technology
Farm Production Technology
Fashion Merchandising
Food Services Technology
Graphic Arts Technology
Industrial Supervision and Management Technology
Interior Decorating and Design
Machine Tool Technology
Mining Technology
Nursing
Ornamental Horticulture
Power and Fluids Technology
Radiologic Technology
Reclamation Technology

Veterinary Technology
Vocational Industrial Teacher Education
Welding Technology

Associate of Science Degree in:

Engineering Science
General Science
Bachelor of Arts
Bachelor of Business Administration Degree
Bachelor of Music Degree
Bachelor of Music Education Degree
Bachelor of Science Degree
Bachelor of Social Work
Bachelor of University Studies

Bachelor's Degree Requirements

The following GENERAL EDUCATION requirements will obtain for all bachelor's degrees:

- I. Communications and Humanities 15 hours**
 - A. A total of 9 hours in composition and literature
 1. 3 hours—Composition 101 or 103
 2. 3 hours—Composition 102 or 192
 3. 3 hours—Literature 202, 211, or 212
(Advanced placed students scheduled by Department of Languages and Literature)
 - B. A total of 3 hours in oral communications
 1. Speech 110 or 370
 - C. A total of 3 hours from one of the following fields:
 1. Fine Arts 160
 2. Foreign Languages
 3. Art 263, 264
 4. Music 161, 162, 261, 361, 362
 5. Theatre 100, 110
- II. Natural and Mathematical Sciences 12 hours**

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

 1. Mathematics 123 or higher
 2. Biological Science 105 or higher
 3. Chemistry, Geoscience, Physics, or Science 100 or higher
 4. 3 hours from 1, 2, or 3 above or Data Processing 201 or Philosophy 200, 303, or 306
- III. Social and Behavioral Sciences 12 hours**

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

 1. History 131, 132, 141, 142
Economics 101, 201, 202
 2. Sociology 101, 170, 203, 305, 354
Psychology 154
 3. Government 141, 242, 310
Geography 100, 211, 241, 300
- IV. Health 3 hours**
 - A. A total of 3 hours from either of the following
 1. Health 150 and one physical education activity class or
 2. Health 203

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

Bachelor's Degree General Requirements:

1. A minimum of 128 semester hours of prescribed and elective college credit.
2. An average standing of "C," or higher, on all work completed at this university.
3. Completion of an area of concentration of not less than 48 hours; or a major of not less than 30 hours and a minor of not less than 21 hours.
4. An average standing of "C," or higher, on the area of concentration, the majors, and minors completed as partial requirements for degree.
5. At least three-fourths of the credit in residence at some standard college; at least one year in residence and one semester immediately preceding graduation in this institution. (One year in residence is interpreted as two semesters, during which a minimum of 32 hours credit is earned.)
6. Not less than 43 semester hours of work offered for the degree must have been earned in courses numbered 300 and above.

Bachelor's Degree with Teacher Certification

Education majors seeking teacher certification must complete 45 hours of general education courses listed under the "general education requirements." Psychology 154, Health 150, and one physical education activity course must be taken as part of the 45 hour requirement. All students must complete the new secondary teacher certification program submitted to the State Department of Education. The only exception would be students enrolled in EDSE 209 or admitted to the teacher education program before the fall semester 1982. These students may follow the old program.

Bachelor of Science Degree Specific Requirements:

To qualify for the Bachelor of Science degree the student must earn a minimum of 60 semester hours credit in science and science-related fields. Included in these fields are all the courses taught within the schools of Applied Sciences and Technology, Business and Economics, and Sciences and Mathematics. In addition to these, courses taught in the Department of Military Science will also qualify.

Bachelor of University Studies Degree

This degree provides to all undergraduate students a new measure of freedom in course selection. The student may, if desired, take a wide variety of subjects without any specialization. Conversely, the student may, if desired, concentrate all studies beyond the general education requirements in a single discipline.

Specific Requirements:

1. A minimum of 128 semester hours credit with a cumulative grade-point average of 2.0 or better.
2. Forty-two hours of general education courses as specified for all degrees offered by Morehead State University.
3. Forty-three hours of upper division (300-500 level) courses within the 128 semester hour total.
4. At least one year's residence (32 semester hours) and one semester immediately preceding graduation must be completed at Morehead State University.

Associate Degree Requirements:

1. Successful completion of a prescribed program.
2. An average standing of "C," or higher, on all work completed at Morehead State.
3. A minimum of 64 hours with 16 hours of credit earned in

residence at Morehead State including one semester immediately preceding graduation at this institution.

4. A total of 15 semester hours of general education credit as follows:

- | | |
|---|------------------|
| A. Composition I | 3 semester hours |
| B. Composition II or
Technical Composition | 3 semester hours |
| C. An additional 9 semester hours from at least three of the following 10 categories: | |
| 1. SPCH 110 or 370 | |
| 2. ENG 202, 211 or 212 | |
| 3. MATH 123 or higher | |
| 4. BIOL 105 or higher, CHEM, PHYS, GEOS or SCI 100 or higher | |
| 5. A. PHIL 200, 303 or 306 | |
| B. MATH 123 or higher | |
| C. BIOL 105 or higher, CHEM, PHYS, GEOS or SCI 100 or higher | |
| D. DATA 201 | |
| 6. A. SOC 101, 170, 203, 305 or 354 | |
| B. PSY 154 | |
| 7. A. HIST 131, 132, 141 or 142 | |
| B. ECON 101, 201 or 202 | |
| 8. A. GOVT 141, 242 or 310 | |
| B. GEO 100, 211, 241 or 300 | |
| 9. A. HLTH 150 and one PHED activity course | |
| B. HLTH 203 | |
| 10. A. FNA 160 | |
| B. ART 263 or 264 | |
| C. MUSH 161, 162, 261, 361 or 362 | |
| D. THEA 100 or 110 | |
| E. Foreign Language | |

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

Associate of Arts Degree in University Studies

The Associate of Arts degree in university studies at Morehead State University is offered to provide for all undergraduate students a new measure of freedom in course selection. The student may, if desired, take a wide variety of subjects without any specialization. Conversely, the student may, if desired, concentrate all studies beyond the general education requirements in a single discipline. The degree is structured to provide, also, for continuation in a program of studies leading to the Bachelor of University Studies degree for those students who decide to pursue the baccalaureate.

General education requirements for the Associate of Arts degree in university studies are the same as the general education requirements for the Associate of Arts degree. The remaining 49 hours needed to complete the Associate of Arts degree in university studies are selected by the student in consultation with the academic advisor.

One-Year Certificate Requirements:

Candidates for the certificate indicating successful completion of a one-year terminal program must meet the following general requirements:

1. Successful completion of a prescribed program.
2. An average standing of "C," or higher, on all work completed at Morehead State.
3. A minimum of 32 hours with 16 hours of credit earned in residence at Morehead State, including one semester im-

mediately preceding graduation at this institution.

4. A total of 6 semester hours of general education credit as follows:
 - A. Composition I 3 semester hours
 - B. An additional 3 semester hours 3 semester hours from any area listed under 4.C. of the Associate Degree Requirements.

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

Second Degree Requirements

The following criteria will be required for students wishing to pursue second degrees at either the baccalaureate or associate degree levels.

Students having successfully earned a degree from Morehead State University or any other recognized, accredited college or university may earn a second degree at the equivalent level upon completion of program requirements approved by the major department and the following minimum requirements.

A. Second Baccalaureate Degree

1. An acceptable baccalaureate degree from a fully accredited college or university.
2. A program approved by the student's major department, including a minimum of 32 semester hours in residence at Morehead State University above any hours taken in completion of a previous degree.
3. Fifteen semester hours must be earned in completion of a new major or area of concentration.
4. A 2.00 grade average must be earned for all course work presented in completion of the program; in all course work completed at Morehead State University; and in all course work in a major, minor, or area of concentration. Students pursuing certification in teacher education must fulfill special regulations promulgated by the Teacher Education Council.

B. Second Associate Degree

1. An acceptable associate or higher degree from a fully accredited college or university.
2. A program approved by the student's department, including a minimum of 16 semester hours above any hours taken in completion of a previous degree.
3. Twelve semester hours in the approved program must be earned in residency at the Morehead State University.
4. Nine semester hours must be earned to complete a new area of specialization.
5. A 2.00 grade average must be earned for all course work presented to complete the program; in all course work completed at Morehead State University; and in all course work in any field of specialization.

Catalog Validity

1. Students pursuing a bachelor's degree from Morehead State University will have a maximum of five years (three years for an associate degree candidate) from the date of their original enrollment at the university to complete a program under the university catalog requirements in effect at the time of their original enrollment. A student who does not complete the program during this time will be required to meet the program requirements stipulated in a current catalog.

2. A student who is continuously enrolled but who takes longer than five years to graduate (three years for an associate degree candidate) may complete the program under the catalog in effect when first enrolled.
3. Students who do not file checksheets will be required to abide by the catalog in effect when they return to the university.
4. The time allowed for a transfer student to complete the program under the catalog in effect at the time of enrollment at Morehead State University will be based on the student's classification at the time of transfer.

Academic Regulations

Check Sheets

A student's official check sheet is an approved program of graduation requirements.

Not later than the end of the sophomore year (freshman year for students pursuing a two-year associate degree program) all undergraduate students should have an official check sheet on file in the registrar's office. The procedure for completing a check sheet is as follows:

1. Students secure an unofficial transcript of their records from the registrar's office.
2. Students present this transcript to their advisors with the request that official area/major/minor forms be prepared for them. After the area/major/minor forms have been completed and approved by the necessary department heads and school deans, the forms will be sent to the registrar's office.
3. Upon receiving these forms, the registrar's office will complete an official check sheet for students and forward copies to them and to their school deans.
4. Students wishing to change their program after having filed an official check sheet should follow the same procedure as outlined above in order to have a new check sheet prepared.

A student's application for degree cannot be processed until an official check sheet has been filed with the registrar's office.

Transfer of Credits

Morehead State University will accept by transfer the credits earned by students from accredited colleges. However, before receiving any degree, the transfer student must meet all of Morehead State's requirements for this degree. Students transferring to MSU from institutions that are not accredited by one of the six regional accrediting associations may have their credits evaluated for transfer by making a formal written request to the registrar's office for evaluation of the transfer work. Students should also present an official transcript of the credits wished to transfer, an official catalog or bulletin from the institution from which they wish to transfer credits, and any additional information or materials which may aid in the validation of the transfer credits. Upon receiving the written request from the student and the official transcript of the credits, an official evaluation will be made by the Transcript Evaluation Committee at Morehead State University.

Late Entrance

Students entering after the regular enrollment date will be placed on a reduced schedule. A late enrollment fee will be charged all students who do not register on the day set aside for the purpose.

Change in Schedule

The student's schedule cannot be changed after registration except by permission of the dean of the school or schools involved.

A fee will be charged for each change in the schedule made at the student's request.

Student Load

The minimum amount of work which a full-time student may carry each semester is 12 semester hours; the maximum amount is 18 hours. A student wishing to schedule 19 or more credit hours of scholastic work must have the written permission of the advisor and the vice president for academic affairs.

All students may register for a maximum of six semester hours during Summer Session I and/or a maximum of six semester hours during Summer Session II.

Seniors at Morehead State University who meet academic requirements and who lack no more than six semester hours for completion of the requirements for the baccalaureate degree may apply for permission to enroll in graduate courses concurrently with the remaining undergraduate work. Application is made to the vice president for academic affairs on a form supplied by the graduate office. A senior taking graduate courses may not enroll for more than 14 hours of course work. If admitted, such a student registers as a senior.

Student Classification

Classification of a student is determined by the number of hours of credit successfully completed, in accordance with the following schedule: 0-29 hours, freshman; 30-59 hours, sophomore; 60-89 hours, junior; 90 hours and above, senior.

The Numbering of Courses

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
700-799	Special graduate courses

Courses numbered 500 may be taken for graduate or undergraduate credit. Before enrolling for a 500 level course for graduate credit, a student should consult the dean of graduate programs.

Courses numbered 600 and above may be taken only by graduate students.

Courses numbered 700-799 are used to indicate special graduate courses involving independent research.

The Marking System

The evaluation of work done by undergraduate students will be indicated by letters as follows:

- A—The highest mark attainable
- B—A mark above average
- C—The average mark
- D—The lowest passing mark
- E—Failure—course must be repeated in residence
- I—Incomplete course
- IP—In progress—restricted to approved courses
- K—Credit (pass-fail)
- N—Failure (pass-fail)
- P—Withdrew passing
- F—Withdrew failing
- R—Course repeated

U—Withdrew unofficially

W—Withdrew officially

Y—Audit

(A course in which an "I" is received must be completed by mid-term of the following spring or fall semester. If not completed by mid-term, the instructor will assign a grade.)

Pass-Fail

Morehead State University has a pass-fail grading system which students may select by filling out an application in the office of the dean of their first major. The purpose of the system is to broaden their education by undertaking intellectual exploration in elective courses outside their area of specialization without having to engage in grade competition with students specializing in those courses.

The requirements for the pass-fail grading system include the following:

1. The student who has earned a 2.5 cumulative point average for a minimum of 30 hours on the campus of Morehead State University is eligible for the program. A transfer student with a minimum of 30 semester hours of which at least 12 hours have been completed at Morehead State University with a 2.5 on the work completed at Morehead State University is eligible for the program.
2. A student may apply a maximum of 15 hours of pass-fail credit earned at the university toward the total number of hours required for graduation with a maximum of six hours permissible in an associate degree.
3. The pass-fail option is applicable only for free elective courses. These include all courses outside the student's major or minor area, but do not include general education or specific degree requirements.
4. A student may register each semester under pass-fail option for one course of any number of hours or a combination of courses not to exceed three hours.
5. Hours earned in pass-fail work will be added to the student's total hours passed but will not have an effect on grade-point average. Any grade of D or above will be considered passing and will be designated by K. A failing grade will be designated N.
6. A student may change course registration status from a pass-fail option to the conventional letter grading system and vice versa during the normal period to add a course.
7. Hours earned under the pass-fail option cannot be transferred into any degree program.
8. Students taking courses under the pass-fail option will not be identified to instructors. Instructors will turn in the conventional letter grade and the registrar will convert the assigned letter grade to a K or N as applicable.

For further information concerning the pass-fail grading system and how to make application for this system, please contact the dean of your school or the vice president for academic affairs.

Auditing courses

A student enrolled in the university who does not desire credit for a course may audit that course. Fees are the same for a course whether it is audited or taken for credit.

A student may change course registration status from audit to credit during the designated time a course can be added.

A change from credit to audit may be made until the last day a course can be dropped without penalty.

Repeating Courses

Any student in the undergraduate curriculum may repeat

any course. The grade for the course last taken will be the grade that is computed in the overall grade-point average. There may be special programs which have special regulations about repeating a course. These practices would pertain entirely to Morehead State University and would not necessarily refer to transferability to other institutions.

Television Courses

The university offers a number of college level courses each semester by television for extension credit. Student taking courses for extension credit must satisfy the same admission requirements as for courses taken on campus. If extension courses are taken for credit, not more than one-fourth of the credits presented for an undergraduate degree or certificate may be earned by any combination of correspondence and/or extension courses.

Correspondence Courses

Morehead State University also offers undergraduate courses by correspondence. Enrollment regulations and materials may be secured by writing the Correspondence Section, Bureau of Academic Affairs.

Scholarship Points

The mark "A" carries 4 points, "B" 3 points, "C" 2 points; "D" 1 point; and "E" no points. A minimum average of "C" or standing of 2.00 must be maintained for any undergraduate degree or certificate.

Honors

Academic Dean's List. At the close of each semester a list of honor students is released and publicized by the Office of News Services.

To be eligible for the Dean's List, a student must:

1. Have passed at least 12 hours of undergraduate work and
2. Have earned a grade-point standing of at least 3.4 for that semester.

President's List. Undergraduate students who achieve perfect 4.0 grade-point averages in full-time study during the fall and/or spring semesters are recognized in the following manner:

1. They receive a President's List certificate and personal letter of commendation from the president of the university.
2. They receive special publicity through the Office of News Services.
3. They receive an invitation to participate in a leadership seminar conducted by the president of the university.

Morehead State University formally recognizes two-year and four-year graduates who have achieved academic excellence.

A person receiving a baccalaureate degree who has been in residence at Morehead State University for two years (a minimum of 64 semester hours) and earns a quality-point standing of 3.40 to 3.59 graduates *Cum Laude*. One who earns a standing of 3.60 to 3.89 graduates *Magna Cum Laude*. One who earns a standing of 3.90 to 4.00 graduates *Summa Cum Laude*.

A student receiving the associate degree who has been in residence at Morehead State University for one year (a minimum of 32 semester hours) and earns a quality-point standing of 3.60 to 4.0 graduates with distinction.

When determining quality-point standing, only work completed at MSU is considered.

Steps to Follow in Resolving Academic Difficulties

The student complaint procedure for resolving an academic grievance is outlined below in four steps:

Step 1

It is recommended the student discuss the complaint with the person involved. If the complaint involves a 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, within the first two weeks of the beginning of the following semester, to the instructor and the instructor's department head. Upon receipt of the letter of inquiry, the student will be notified by the department head that he or she will have 30 days to file a formal complaint.

Step 2

If the question 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 question to the head of the department to which the instructor is assigned. Prior to any action by the department head, the student will be required to complete a *Student Grievance Form*. The form is available in the Office of the Vice President for Academic Affairs and should be completed and returned to the head of the department involved. Upon receipt of the *Student Grievance Form*, the department head 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 head's office, a meeting will be arranged. The instructor, the student filing the grievance, the department head, and the dean of the responsible school will be in attendance. The student may have his or her advisor present. It will be the purpose of the department head and the respective school dean to review the grievance and attempt to mediate a settlement. The department head's and the school 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 head and the school dean, will be sent to the vice president for academic affairs and to all parties concerned.

Step 3

If the recommendations presented by the department head and the school dean are not acceptable to the student, he or she may appeal to the *University Student Grievance Committee* or the *Graduate Council* if it is a graduate student. The student must petition a hearing before the Grievance Committee or Graduate Council within one week following the meeting with the school dean and the department head. Requests are to be in writing and made to the vice president for academic affairs. If the procedure has been followed, the vice president will submit to the chairman of the Grievance Committee records of all action to date. Within two weeks following the application of appeal, the Grievance 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 vice president for academic affairs, with a copy being sent as a matter of record to the student, faculty member, department head, and the faculty member's school dean. The vice president for academic affairs is responsible for enforcing the committee's decision. The University Student Academic Grievance Committee's decision is final.

Step 4

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.

Scholastic Probation

The following scholastic requirements must be met in order for a student to register continuously without conditions:

Cumulative Hours Attempted	Cumulative G.P.A.
1-16	1.6
17-32	1.7
33-48	1.8
49-67	1.9
68 or above	2.0

Students failing to meet the minimum scholastic requirements will automatically be placed on academic probation. The probation status will be printed on the student's final grade report. In addition, the student will be notified by mail that he or she has been placed on academic probation.

Disposition of a Student on Probation

Continuous registration will be permitted to students on probation as long as a 2.0 ("C" average) is maintained for each semester of full-time work (12 cumulative hours for part-time students) and/or acceptable progress is made toward being removed from probation.

Students who register on academic probation and either fail to remove themselves from probation or fail to earn a "C" average for the semester shall be subject to academic dismissal.

A student who has been academically dismissed may:

1. Apply for readmission after the lapse of one semester, or
2. Appeal the dismissal by petitioning a hearing before the University Scholarship and Retention Committee. Request for hearings should be made to the Office of the Vice President for Academic Affairs. Requests will not be entertained until all obligations have been removed from the student's permanent record.

Students readmitted under the above conditions who fail to remove themselves from probation and/or fail to make satisfactory progress toward being removed from probation will be dismissed from the university and will not be eligible for readmission.

Academic Bankruptcy

It is the policy of Morehead State University to permit an eligible student under specified conditions to petition for relief from academic sanctions imposed through mathematical calculations for the grade-point average (G.P.A.) for programmatic or graduation requirements. The requirements for eligibility and the operational procedures follow.

Specific Conditions of Academic Bankruptcy

The specific conditions governing the implementation of the policy on academic bankruptcy are considered as addenda to the policy statement.

1. The undergraduate student who applies for and is granted bankruptcy forfeits credit for all courses attempted for only one specified school term during pre-baccalaureate studies.
2. Once bankruptcy status has been granted, the decision is irreversible.
3. The marks and credit hours earned during the school term in question are considered a part of the student's permanent record and will be so recorded on the transcript. A

notation will be made, however, to indicate the bankruptcy, and no work attempted during the term will be considered for any requirements of Morehead State University.

Eligibility

A student will be deemed eligible to petition for relief from a substandard academic performance during one specified term provided the following requirements are met:

1. The student must petition for bankruptcy prior to completing a baccalaureate degree at Morehead State University.
2. The student must have attempted a minimum of 48 semester hours as a student at Morehead State University.
3. The student must have attained for the term in question a G.P.A. at least 1.0 point below the cumulative average for all other hours completed at Morehead State University.
4. Eligibility requirements for bankruptcy exclude transfer hours.
5. Only hours attempted at Morehead State University will be considered for bankruptcy.

Procedure

1. The student will initiate action by presenting a completed application form requesting academic bankruptcy status for a specified term to the advisor and/or head of the department.
2. This petition, signed by the advisor and/or head of the department, will be delivered to the registrar for verification of eligibility.
3. The petitioning student, the advisor and/or head of the department will be notified in writing by the registrar that the student's request has been approved or denied on the basis of eligibility.
4. The petitioning student, upon notification that the request to bankrupt has been denied and at this point feeling aggrieved, has the right of appeal through the academic grievance policy of Morehead State University.

Withdrawals

Students withdrawing from school during any semester or term must arrange for their withdrawal with the vice president for academic affairs. No refunds will be made unless the withdrawal is made through the proper channels.

Absences

Class absences seriously hinder scholarship, and cooperation is requested in reducing absences to a minimum. Students are required to be prompt and regular in class attendance and deliberate absences are not excused. However, absences are excused for the following reasons.*

1. Health. If the absence has been caused by illness or accident, the student is expected to present to the instructor an excuse signed by the university nurse or a physician.
2. Representing the university. If the absence has occurred because the student was representing the university in a recognized activity—music, athletics, etc.—lists of such students are sent to the instructor by the vice president for academic affairs.
3. Authorized field trips. Lists of students participating in authorized field trips are sent to the instructors by the vice president for academic affairs.

**If the absence is excused, the student is permitted to make up any work that the instructor considers essential. This consideration is not given if the absence is unexcused.*

4. Except in cases where students have been suspended from attending classes, instructors are authorized to exercise their discretion in excusing absences for other causes. If the individual teachers feels that the absence is justified, the excuse is granted; otherwise the absence is considered as unexcused.

Applying for Graduation

Students are expected to file an application for degree with the registrar's office at least one semester prior to the semester in which they plan to complete graduation requirements. After the application has been filed, an evaluation to determine the student's eligibility will be made by the registrar's office. No student will be considered for graduation until an application has been filed.

A student must file an application for degree no later than three weeks prior to the end of the term in which he or she is to graduate in order to be considered for graduation.

Commencement

Morehead State University observes commencement at the close of each spring semester. Students completing degree requirements during either the fall semester or the summer terms are awarded their diplomas at the time of completion and are invited to participate in the spring commencement. Graduating students who are unable to attend the commencement exercise must file a request to graduate in absentia with the registrar's office for approval at least two weeks prior to graduation.

Academic Advisement Program

The specific purposes of Morehead State University's academic advisement program are:

1. To aid prospective students by informing them of academic programs and opportunities offered by Morehead State University.
2. To provide the beginning student an orientation to the structure and procedures of the academic area by teacher-advisor.
3. To assist each student in preparing class schedules each semester.
4. To provide the student with career-guidance data, taking into account job opportunities as well as the student's aptitudes.
5. To distribute grades and assist in completing necessary forms, such as major/minor forms and check sheets.
6. To act as a referral agency to other departments or services within the university or to outside agencies in solving major problems the student may have.

Academic advising includes the following:

1. When freshmen and transfer students arrive on campus for registration, they are given information concerning academic advising sessions.
2. During the student's first semester on campus, a permanent academic advisor is assigned and both the student and advisor are so notified.
3. Prior to all registration procedures, all students must obtain the signature of their advisors on a trial schedule card.
4. Students may pick up mid-term and final grades from their advisors. All other academic information may be obtained from the advisor.
5. A conference with the student's advisor during the sophomore year is required in order to file a check sheet

with the registrar of the university. Transfer students must schedule such a conference at the end of the sophomore year or at the end of the semester of work if their classification when first enrolled at Morehead State University is above the sophomore level.

6. The academic advisement program is the backbone of the student's academic experiences. The advisor provides advisement, counseling, and general support for the student during the entire years of matriculation at Morehead State University.
7. The academic advisor is the advocate for the student in all academic matters. Should the student be placed on academic probation, the advisor will represent the student in all academic decisions about probation, educational progress, or dismissal.

Office of Instructional Systems

The Office of Instructional Systems works with all academic departments and functions as well as special programs in the mission of an individualized approach to academic programs. The Office of Instructional Systems has responsibilities of helping the university reach the goals of the Title III grant as well as Upward Bound, Special Services, and Talent Search in our Title IV programs. In the Title III grant, the entire university is involved in meeting the needs of all students, especially those with developmental lag. The primary goal of the Title III grant is to increase the retention of MSU students by helping more students to reach realistic academic success in college.

The Special Services staff assists students in the following areas:

- a. Career counseling—assistance in developing career goals and in selecting majors and minors.
- b. Tutoring in many academic areas.
- c. Academic information and counseling.
- d. A writing laboratory for assistance in composition classes and theme writing.
- e. A learning laboratory which provides tutoring to individualized audio-visual programs and assists students in improving mathematics, writing, study, and reading skills on a non-credit basis.
- f. A re-entry program which provides counseling and tutoring assistance to students who are eligible for dismissal because of low grades.
- g. Referrals to other agencies (both on and off campus) for related services.

Helping students to solve academic, vocational, and personal problems is the primary function of the office's staff of professional instructors and academic counselors. Appointments are arranged by individual students either in person or by telephone; faculty and staff members are encouraged to refer students who they feel would benefit from any of the services offered. All contacts between students and academic counselors are confidential.

Each semester the following college credit courses are offered throughout the university to students in the development of educational and personal skills: EDGC 102, Study Skills; EDGC 105, Career Planning; EDEL 110 and 111, Developmental Reading; MATH 091, Beginning Algebra; MATH 093, Intermediate Algebra; ENG 099, Developmental English.

The Office of Instructional Systems, which is open weekdays from 8 a.m. to 4:30 p.m., is located in room 220, Allie Young Hall.

There is no charge for services to students.

University Counseling Center

The University Counseling Center provides individual and group counseling services without charge to Morehead State University students. Students should feel free to call or stop by the center for an appointment with a counselor to discuss any personal, social, or career-related problem or conflict. The University Counseling Center is located in Mays Hall.

The Testing and Evaluation Center

The Testing and Evaluation Center, located in room 501-A Ginger Hall, provides individual student testing and evaluation on a daily basis in the areas of achievement, aptitude, vocational interest, and personal social adjustment. In concurrence with established policies, the Testing and Evaluation Center also administers all credit by examination programs.

Established testing programs include the ACT, CLEP, GED, GRE, NTE, GMAT, AP, UP, U.S. Civil Service Exams, correspondence exams, and various departmental proficiency examinations. Literature and brochures describing the different testing programs and their functions are available at various locations throughout campus.

Honors Program

The Honors Program is an academically-enriched program based on the belief that a highly motivated student should be provided with small classes, direct and personal contact with faculty members, and greater curriculum flexibility. Freshmen and sophomores take honors sections of required general education courses. Upper division student participate in at least two honors seminars. Seniors are encouraged to undertake an independent research project in their major field.

High school students who have a composite ACT examination score 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 membership.

Members of the Honors Program receive special opportunities and recognition. They may generally enroll for additional credit hours each semester; have their departmental content requirement altered; attend classes as they choose (with some exceptions for participatory classes); receive special dormitory and library privileges; engage in social and intellectual events; and are recognized during Academic Honors Day and Commencement.

The Honors Program awards 10 scholarships per year based solely upon academic ability. Students eligible for membership and who desire additional information or admission forms should contact the Honors Program director, Morehead State University, UPO Box 697, Morehead, KY 40351.

Field Career Experiences

The Field Career Experiences Program at Morehead State University is a unique plan of educational opportunity designed to enhance self-realization and direction by integrating classroom study with planned and supervised work experience in educational, vocational, governmental, and cultural environments normally outside the normal boundaries of the campus.

The program is based on the premise that well-educated individuals can develop most effectively through an educational pattern which at regular intervals involves them in the reality of the world beyond the boundaries of the campus. The essential ingredients are that satisfactory participation in the experiential phase be considered a degree requirement in certain fields and optional in others. The institution assumes responsibility for integrating it into the educational process through the efforts of professional academic staff.

The Office of Field Career Experiences presupposes a positive coordinative role in the administration of field study courses and programs at all levels. The intent of the office is to provide a centralized effort in the implementation and development of experiential and cooperative education. The office, which is organizationally a part of the Bureau of Academic Affairs, serves the needs of students seeking non-traditional academic experiences in a supervised work related arena.

Cooperative Education, a component of Field Career Experiences, allows students to earn variable credit for each work experience on a one to eight hour basis. Those students enrolled in four-year, two-year, and one-year programs may also utilize the variable credit experience in their respective programs. Students selecting cooperative study must receive approval from their respective academic departments prior to involvement in cooperative study activity through the Office of Field Career Experiences.

Admission, placement, and supervision of qualified students is coordinated through the Office of Field Career Experiences in conjunction with academic faculty coordinators and employer representatives. Academic credit as well as remuneration are received by students enrolled during each experience. The monetary remuneration is a negotiable item depending on the employing agency and the student's qualifications.

Students who select a Cooperative Education option are provided the opportunity to alternate periods of on-campus academic semesters with periods of salaried employment in related occupational fields during any semester or summer term in an environment closely associated with the workaday world.

Cooperative Education

Cooperative study courses follow a uniform structure across campus and are university cross-referenced utilizing the format illustrated. Requirements may vary slightly depending upon uniqueness of academic areas; however, each course is basically as described:

- 139 Cooperative Study I. (1 to 8 hrs.); I, II, III.
One semester of work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course.
- 239 Cooperative Study II. (1 to 8 hrs.); I, II, III.
One semester of work experience with an extension of exposure gained in 139 or of a nature similar to a sophomore status course.
- 339 Cooperative Study III. (1 to 8 hrs.); I, II, III.
One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a junior level status.
- 439 Cooperative Study IV. (1 to 8 hrs.); I, II, III.
One semester of work experience with a continuation of in-depth exposure representative of the student's

academic level and experience of a nature analogous to a senior level course.

539 Cooperative Study V. (1 to 8 hrs.); I, II, III.

One semester of work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students.

Further operational procedures and guidelines for the Cooperative Education Program are specifically spelled out in the copyrighted and published *Cooperative Education Program Policy Manual* available through the Office of Field Career Experiences and/or academic departments participating in the program.

Admissions

Admission to the Freshman Class

Kentucky High School Graduates. Graduate of high schools accredited by the Kentucky State Board of Education will be admitted, provided they meet the graduation requirements of their local school district.

Non-Kentucky Residents. An out-of-state student who is a graduate of an accredited high school may be granted admission to Morehead State University if the high school transcript shows that he or she has been graduated in the upper one-half of the senior class and has been recommended by a responsible school official as having educational promise.

High School Equivalency (GED). Prospective students who have not graduated from high school may be admitted to Morehead State University by presenting a High School Equivalency Diploma. Local boards of education issue such diplomas on the basis of General Education Development Tests to service personnel, veterans, and nonveteran adults. Additional information may be obtained by contacting the local board of education, the State Department of Education, or the Division of Admissions.

Special Students. Students who do not meet traditional entrance requirements to the university may be admitted to college classes as special students. These special students may be considered as candidates for any degree or certificate when they have fulfilled college entrance requirements or completed satisfactorily an approved number of hours in residence as determined by the Admissions Committee.

All beginning students are required by the Council on Public Higher Education to submit their American College Test (ACT) scores prior to enrollment.

All students are invited to the campus and to schedule an interview in the Division of Admissions to discuss their program with admissions counselors of Morehead State University prior to registration.

Note: Admission to Morehead State University does not guarantee admission to the following programs: nursing, medical assisting, radiological technology, and veterinary technology. Students must apply for admission to these programs in addition to the university.

International Students

International students who wish to be considered for admission to MSU are required to submit acceptable scores (minimum 500) on the Test of English as a Foreign Language (TOEFL) and official certification of prior educational experience for evaluation. International Student Orientation (GOVT 101) is required of international students.

Admission as a Transfer Student

Students wishing to transfer to Morehead State University must submit official transcripts of all work attempted and completed at the college level for evaluation. They must also submit a Transfer Recommendation Form from all institutions previously attended. This form is supplied by Morehead State University's Division of Admissions. It is highly recommended that potential transfer students visit the campus to have their work evaluated for program purposes.

Student Health History

Each full-time student entering Morehead State University is required to have a student health history on file in the Caudill Health Clinic. These forms are supplied by the university and should be returned to the Division of Admissions prior to enrollment.

Housing

An application for admission does not guarantee student housing. Students should submit the student housing application to the Division of Student Housing along with the required \$25 deposit. These applications will be sent to all students applying for admission or can be secured from the Division of Admissions.

Admission as an Auditor

An individual who wishes to audit a class must apply to the Director of Admissions. No credit will be given for this work, nor will the student be permitted to take an examination for credit. Tuition is the same for credit or auditing.

Readmission

Any student of Morehead State University who stays out for one regular semester must submit an application and be readmitted before enrolling.

Requests for further information or questions may be addressed to

Division of Admissions
Morehead State University
Morehead, KY 40351

Residency for Fee Assessment Purposes

The Council on Public Higher Education for the Commonwealth of Kentucky, in accordance with Section 164.020(3) of the Kentucky Revised Statutes, has adopted the policy by which residency for fee assessment purposes is defined and determined. The policy is applied to determine a student's eligibility for fees assessed Kentucky residents who enroll at any state-supported institution of higher learning in the Commonwealth of Kentucky. This determination is made at the initial time of enrollment.

Every student who is not a resident of Kentucky as defined by the policy enacted by The Council on Higher Education is required to pay non-resident registration and/or entrance fees.

Any student or prospective student in doubt concerning residency status must bear the responsibility for securing a ruling by completing an Application for Student Residency Reclassification for Fee Assessment Purposes and returning it to the Non-Resident Fee Committee, c/o Director of Admissions, Morehead State University. The student who becomes eligible for a change in residence classification, whether from out-of-state to in-state, or the reverse, has the responsibility of immediately informing the Office of Admissions of the circumstances in writing.

Procedure for Determination of Student Residency Status for Fee Assessment Purposes

(1) The decision whether a student is classified as a resident or non-resident for fee assessment purposes will be made initially by the director of admissions in accordance with the policy adopted by the Council on Public Higher Education on April 12, 1975, entitled *Policy on Classification of Students for Fee Assessment Purposes at State Supported Institutions of Higher Education*. In cases where the director of admissions desires, he may seek counsel from the Admissions Committee. The student will be notified the decision regarding his or her residency status by the director of admissions.

(2) If the student wishes to appeal the decision of the director of admissions and/or the Admissions Committee, he or she may do so by completing the *Application for Student Residency Reclassification for Fee Assessment Purposes* and submitting this application through the director of admissions to the Non-Resident Fee Appeals Committee. Once the Appeals Committee has made a final decision regarding the residency status of the appealing student, the student shall be notified of this decision in writing by the director of admissions.

(3) If the applicant for a change in residence status is dissatisfied with the decision of the Appeals Committee, the applicant may request that the case be submitted by the director of admissions to the executive director of the Council on Public Higher Education for referral to the State Board of Review.

Project Ahead

The university has joined the U.S. Armed Services in a cooperative program for military enlistees called "Project Ahead" which will permit individuals admission to Morehead State University at the time of enlistment in the Armed Services. Academic records of work completed at colleges and universities while serving in the Armed Services will be kept on file for these individuals in the university's Office of Veterans Affairs. Such students have the opportunity to resume study at Morehead State University following discharge from the Armed Services.

Serviceman's Opportunity College

Morehead State University has been designated as a Serviceman's Opportunity College. The Serviceman's Opportunity College Program is jointly sponsored by the American Association of State Colleges and Universities and the American Association of Community and Junior Colleges with the assistance of 10 other higher education associations and the military services. The program is designed to allow a serviceman or woman, with reasonable effort, the opportunity to make progress toward a degree from an accredited college or university regardless of the type or location of his or her military assignment. For further information, contact your military educational officer or the director of admissions.

Student Financial Aid

Morehead State University offers a broad program of financial assistance to eligible students in the form of grants, loans, scholarships, part-time employment, veterans' benefits and others. A fundamental eligibility prerequisite for financial assistance is admission to the university.

The basic philosophy underlying the student financial aid program is that the student and the student's family have the primary responsibility for meeting the student's post-secondary educational expenses. However, the fact is recognized that many students who want to attend the university are unable to meet all enrollment expenses from personal and family resources. Therefore, the student financial aid program is designed to provide financial assistance to students who would be unable to pursue their educational objectives without such aid.

Approximately 50 percent of the students at the university receive financial assistance in the form of grants, loans, scholarships, and part-time employment. In many cases, a financial aid award will be a combination of the various types of assistance available. The quality and composition of financial aid awards are generally based upon demonstrated financial need, academic achievement, test scores, and other personal talents and interests. Need is determined from analysis of the Financial Aid Form (FAF) provided by the College Scholarship Service. These forms are statements of financial condition. Analysis of the FAF determines an expected contribution for educational expenses from the student and parents or guardian.

"Financial need" is defined as the difference between the amount it will cost the student to attend the university for an academic year and the expected student/family contribution, and is a primary factor in determining eligibility for most available aid.

Financial assistance is available to all eligible students regardless of sex, race, color, or ethnic origin.

Contact the Division of Student Financial Aid for further information.

Satisfactory Academic Progress for Financial Aid Purposes

Federal, state, and institutional regulations require that all students receiving any type of financial aid (grant, loan, employment) at Morehead State University maintain satisfactory academic progress.

Morehead State University has defined satisfactory academic progress for financial aid purposes as follows:

Students will be considered to be maintaining satisfactory academic progress for financial aid purposes so long as they are not placed on academic probation (as defined in the Undergraduate Catalog) for more than one semester.

To remain eligible to receive student financial aid funds from federal, state, and institutional sources at Morehead State University, a student who has been placed on academic probation will be given one semester to remove the probationary status or to earn a 2.0 academic standing for all hours attempted while enrolled as a full-time student during that semester.

Students who fail to maintain satisfactory academic progress and who believe special or unusual circumstances exist, may appeal to the Division of Student Financial Aid.

Veterans Administration Educational Assistance

The Veterans Administration provides financial assistance to eligible veterans who are enrolled in post-secondary educational institutions. Under the Veterans Readjustment Act of 1966, veterans who served more than 180 days on active duty with the Armed Forces after January 31, 1955, or less than 181 days, but were discharged for a service-connected disability, may be eligible for up to 45 months of educational benefits during a period of 10 years following release from active duty.

Applications for educational assistance must be made directly to the Veterans Administration, 600 Federal Place, Louisville, Kentucky 40202. Application forms may be obtained from the Division of Student Financial Aid and Veteran Affairs or by contacting the Louisville Veterans Administration office.

Veterans Administration educational assistance is also available to eligible dependents of deceased veterans whose death was service-connected or to eligible dependents of veterans with 100 percent service-connected disability. Those meeting the above criteria should contact the nearest Veterans Administration office for determination of eligibility for educational benefits.

Transcripts

All transcripts, official and unofficial, of a student's record at Morehead State University are issued through the registrar's office. Each official transcript bears the seal of the university and the signature of the registrar. Unofficial transcripts do not bear the seal or signature and are stamped "Unofficial." A fee of 25 cents will be assessed for each unofficial transcript issued, and unofficial transcripts will not be sent through the mail. Upon enrollment at Morehead State University, each student will be eligible for one official transcript at no charge. A fee of \$1 will be assessed for each additional official transcript issued to the student after the initial free one. Students will be eligible for a second official transcript of the undergraduate record at no charge after completing a baccalaureate degree at Morehead State University. Students will be eligible for one official transcript of the graduate record at no charge upon completion of requirements for a master's degree at the university.

Students' Rights in Access to Records

This information is provided to notify all students of Morehead State University of the rights and restrictions regarding inspection and release of student records contained in the Family Educational and Privacy Act of 1974 (Public Law 93-380) as amended.

Definitions:

1. "Eligible student" means a student who has attained 18 years of age or is attending an institution of post-secondary education.
 2. "Institutions of post-secondary education" means an institution which provides education to students beyond the secondary school level. "Secondary school level" means the educational level (not beyond grade 12) at which the secondary education is provided, as determined under state law.
- I. Students' Rights to Inspection of Records and Review Thereof:
1. Any student or former student at Morehead State University has the right to inspect and review any and all "official records, files, and data directly related to" the student. The terms "official records, files, and data" are defined as including, but not limited to:
 - A. Identifying data
 - B. Academic work completed
 - C. Level of achievement (grades, standardized achievement test scores)
 - D. Attendance data

- E. Scores on standardized intelligence, aptitude, and psychology results
- F. Family background information
- G. Teacher or counselor ratings and observations
- H. Verified report of serious or recurrent behavior problems
- I. Cumulative record folder

2. The institution is not required to make available to students confidential letters of recommendation placed in their files before January 1, 1975.
3. Students do not have the right of access to records maintained by the university's law enforcement officials.
4. Students do not have direct access to medical, psychiatric, or similar records which are used solely in connection with treatment purposes. Students are allowed the right to have a doctor or other qualified professional of their choice inspect their medical records.
5. Procedures have been established by the university for granting the required access to the records within a reasonable time, not to exceed 45 days from the date of the request.
6. The university shall provide students an opportunity for a hearing to challenge the content of their records to insure that the records are not inaccurate, misleading, or otherwise in violation of the privacy or other rights of the student.
 - A. *Informal Proceedings:* Morehead State University may attempt to settle a dispute with the parent of a student or the eligible student regarding the content of the student's education records through informal meetings and discussions with the parent or eligible student.
 - B. *Formal Proceedings:* Upon the request of either party (the educational institution, the parent, or eligible student), the right to a hearing is required. If a student, parent, or educational institution requests a hearing, the vice president for student affairs shall make the necessary arrangements. The hearings will be established according to the procedures delineated by the university.

II. Restrictions on the Release of Student Records

1. Morehead State University will not release records without written consent of the student except:
 - A. To other local educational officials, including teachers or local educational agencies, who have legitimate educational interest;
 - B. To officials of other school systems in which the student intends to enroll, upon the condition that the student be notified of the transfer and receive a copy of the record desired, and have an opportunity to challenge the contents of the records;
 - C. To authorized representatives of the Comptroller General of the United States, the Secretary of Health, Education and Welfare, or an administrative head of an education agency, in connection with an auditor evaluation of federally supported programs.
2. Morehead State University will not furnish personal school records to anyone other than the described above unless:
 - A. Written consent of the student is secured specifying the records to be released, the reasons for the release, identifying the recipient of the

records, and furnishing copies of the materials to be released to the student; or

- B. The information is furnished in compliance with a judicial order or pursuant to a subpoena, upon condition that the student is notified of all such orders or subpoenas in advance of compliance therewith.

III. Provision for Students Requesting Access to Records

1. The student or former student must file a certified and official request in writing to the registrar of the university for each review.

IV. Provisions for Authorized Personnel Requesting Access to Records

1. Authorized personnel must provide positive identification and indicate reasons for each examination.
2. Authorized personnel who have legitimate educational interests may review students' records, showing cause.
3. Other persons must have specific approval in writing from the student for release of information. This approval must specify limits (if any) of the request.

Camden-Carroll Library

The library is a service agency for the academic community. It has an open stack policy so that anyone may browse and select materials which can be checked out at the circulation desk on the first floor. A nine-week course on the use of books and materials (LS101) is offered several times during the academic year.

The five-story library tower increased the total size of the library to 92,000 square feet. The maximum volume capacity increased to 850,000 and the seating capacity to 1,200. This new facility houses the Learning Resources Center, Dial Access Center, Microtext Department, Special Collections, and reference materials, as well as open stack and seating areas. Individualized auto-tutorial programmed learning facilities are provided.

The library provides many services to students, faculty, staff, and citizens of the Commonwealth:

I. SPECIAL COLLECTIONS

1. Kentucky Collection
2. Appalachian Regional Collection
3. Rare Book Room—old and valuable resources
4. University Archives—history of Morehead State University
5. Moonlight Schoolhouse—educational museum

II. MEDIA SERVICES

1. Dial Access Center—audio information resources
2. Microtext Department—materials and equipment for reading and printing

3. Learning Resources Center—audio-visual resources
4. Audio-Visual Equipment—projectors, record players, tape recorders

III. GRAPHIC ARTS

1. Photocopying—coin-operated machines
2. Transparencies—black and white transparencies produced
3. Typewriters—for student use
4. Lettering—materials for making signs

IV. LIBRARY DATA SERVICES

1. Bibliographic Retrieval Services—an on-line fee for service data base
2. Interlibrary loan—teletype connected to other libraries
3. KENCLIP—service to public libraries throughout Eastern Kentucky

V. EXHIBITS

1. Art—student and faculty shows
2. Music—special choral group performance
3. Crafts—demonstration of various crafts

VI. LIBRARY INSTRUCTION

1. Library Orientation—organized classes on how to use the library
2. Walking Tape Tour—self-instruction on how to use the library
3. Library Workshops—formal classes on library usage
4. Use of Books and Materials—formal class of library usage, LS 101

Placement Services

Morehead State University maintains placement services for graduates and alumni. All candidates for a degree from Morehead State University are urged to utilize the services which include permanent credential files, job vacancy listings, and on-campus interviews, as well as general information on various careers and employers.

Alumni Association

The Alumni Association is an organization composed of graduates and friends of the university and is designed to stimulate interest in the university and her welfare. Active membership in the association is available to all graduates of the university and former students who have paid yearly dues. Associate membership is available to parents of students and friends of the university and is awarded following payment of yearly dues. All graduates receive subscriptions to *Contact*. Active members receive additional benefits.

School of Applied Sciences and Technology

Departments

Agriculture
Allied Health Sciences
Home Economics
Industrial Education and Technology

Program

Mining Technology

The objective of the School of Applied Sciences and Technology is to provide a comprehensive offering of programs which prepares graduates to enter and advance in technical occupations in agriculture, business, education, industry, or the health fields. Associate of Applied Science, Bachelor of Science, and Master of Science degree programs are offered within the School.

Baccalaureate degree program

Agriculture—Area of Concentration
Vocational Agriculture Education—Area of Concentration
Agriculture—Major
Agriculture—Minor
Horsemanship—Minor
Clothing and Textiles—Area of Concentration
General Dietetics—Area of Concentration
Interior Design—Area of Concentration
Vocational Home Economics—Area of Concentration
Food Service Administration—Major
General Home Economics—Major
Food Service Administration—Minor
General Home Economics—Minor
Interior Design—Minor
Industrial Education—Area of Concentration
Industrial Technology—Area of Concentration
Industrial Education—Major
Industrial Technology—Major
Reclamation Technology—Minor
Mining, Reclamation, and Energy Studies—Area of Concentration
Mining, Reclamation, and Energy Studies—Minor

Associate degree programs

Agriculture Business Technology
Farm Production Technology
Ornamental Horticulture
Veterinary Technology
Fashion Merchandising
Food Service Technology
Interior Decoration
Broadcast Technology
Construction Technology
Drafting and Design Technology
Electrical Technology
Electronics Technology
Graphic Arts Technology
Industrial Supervision and Management Technology
Machine Tool Technology
Mining Technology
Power and Fluids Technology
Radiologic Technology
Reclamation Technology
Industrial Education (Vocational Trade and Industrial Education)
Welding Technology
Nursing

Agriculture

The Department of Agriculture offers the following programs:

1. A Bachelor of Science degree with an area of concentration in agriculture, with options in:
 - A. Agriculture Business

- B. Agriculture Economics
 - C. Agronomy
 - D. Animal Science
 - E. General Agriculture
 - F. Horticulture
2. A Bachelor of Science degree with an area of concentration in vocational agriculture education
3. A Bachelor of Science degree with a major in agriculture
4. A minor in the following areas:
- A. Agriculture
 - B. Horsemanship
 - C. Reclamation Technology
5. A two-year Associate of Applied Science degree in the following:
- A. Agriculture Business Technology
 - B. Farm Production Technology
 - C. Ornamental Horticulture
 - D. Reclamation Technology
6. Pre-professional Programs
- A. Pre-Forestry
 - B. Pre-Veterinary

Requirements and Suggested Course Sequence

1. A Bachelor of Science degree with an Area of Concentration in Agriculture

The student must complete a minimum of 54 semester hours in the area of agriculture. Twenty-eight semester hours of approved electives must be selected from one of the following options: agriculture business, agriculture economics, agronomy, animal science, general agriculture, or horticulture.

	Sem. Hrs.
Required Courses in Agriculture	26
AGR 101—General Agriculture	1
AGR 133—Farm Livestock Production	3
AGR 180—Elementary Field Crops	3
AGR 203—Agriculture Economics	3
AGR 211—Soils	3
AGR 215—Horticulture	3
AGR 251—Introduction to Agriculture Mechanics	3
AGR 301—Farm Management	3
AGR 316—Feeds and Feeding	3
AGR 471—Seminar	1
Approved Electives in Option	28
(see available options below)	
Additional Requirements	8
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1

Options

A. Agriculture Business

Students who select this option must complete the required courses in the area of concentration in agriculture, ACCT 281—Principles of Accounting I (three semester hours), and 28 semester hours in agriculture and business, including a minimum of nine hours in business. Electives must be selected from at least three of the following groups:

Group I	Sem. Hrs.
AGR 302—Agriculture Finance	3

FIN 252—Mathematics of Finance	3
FIN 560—Financial Markets	3
FIN 360—Business Finance	3
FIN 264—Personal Finance	3
Group II	
OADM 363—Office Management	3
MNGT 301—Principles of Management	3
MNGT 311—Personnel Management	3
Group III	
MKT 350—Salesmanship	3
MKT 450—Consumer Behavior	3
MKT 451—Retail Merchandising	3
MKT 455—Advertising	3
Group IV	
MNGT 461—Business Law I	3
MNGT 561—Business Law II	3
Group V	
AGR 303—Land Economics	3
ACCT 282—Principles of Accounting II	3
FIN 408—Risk Management	3
ACCT 387—Income Tax	3

B. Agriculture Economics

Students who select this option must complete the required courses in the area of concentration in agriculture and 28 semester hours of requirements and electives in agriculture and economics. Requirements and electives are listed below:

	Sem. Hrs.
Required Courses	9
ECON 202—Principles of Economics II	3
ECON 350—Microeconomics Theory	3
ECON 551—Macroeconomics Theory	3
Approved Electives	
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

C. Agronomy

Students who select this option must complete the required courses in the area of concentration in agriculture and 28 semester hours of approved electives selected from the following list:

	Sem. Hrs.
AGR 205—Farm Records	3
AGR 303—Land Economics	3
AGR 308—Weed Control	3
AGR 311—Soil Conservation	3
AGR 312—Soil Fertility and Fertilizers	3
AGR 334—Entomology	3
AGR 384—Forage Crops	3
BIOL 215—General Botany	4
BIOL 513—Plant Physiology	3
BIOL 514—Plant Pathology	3
BIOL 550—Plant Anatomy	3
CHEM 326, 326A—Organic Chemistry I and Laboratory	4
CHEM 327, 327A—Organic Chemistry II and Laboratory	4
IET 240—Basic Electricity	3
IET 386—Welding	3

D. Animal Science

Students who select this option must complete the required courses in the area of concentration in agriculture and 28 semester hours of approved electives selected from the following list:

	Sem. Hrs.
AGR 109—Elementary Horsemanship (Saddle Seat)	1
AGR 110—Elementary Horsemanship (Hunt Seat)	1
AGR 119—Intermediate Horsemanship	1
AGR 120—Intermediate Horsemanship (Hunt Seat)	1
AGR 121—Equitation	3
AGR 136—Principles of Dairying	3
AGR 231—Livestock Judging	3
AGR 237—Poultry Production	3

AGR 242—Light Horse Husbandry	3
AGR 244—Horse Production	3
AGR 245—Horseshoeing	3
AGR 304—Genetics	3
AGR 331—Advanced Livestock Judging	3
AGR 332—Advanced Horsemanship	3
AGR 334—Entomology	3
AGR 335—Equitation Teaching	3
AGR 336—Dairy Cattle Feeding, Breeding and Management	3
AGR 343—Beef Production	3
AGR 344—Swine Production	3
AGR 345—Sheep Production	3
AGR 515—Animal Nutrition	3
BIOL 525—Animal Physiology	3

E. General Agriculture

Students who select this option must complete the required courses in the area of concentration in agriculture and 28 semester hours of approved electives from the list below. The minimum number of semester hours is shown for each field.

	Sem. Hrs.
(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 503—Agricultural Policy	3
(2)—Agricultural Mechanics	3
AGR 350—Farm Power and Machinery Management	3
(3)—Animal Science	6
AGR 136—Principles of Dairying	3
AGR 231—Livestock Judging	3
AGR 237—Poultry Production	3
AGR 242—Light Horse Husbandry	3
AGR 244—Horse Production	3
AGR 331—Advanced Livestock Judging	3
AGR 336—Dairy Cattle Feeding, Breeding and Management	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 Gardening	3
AGR 216—Floriculture	2
AGR 308—Weed Control	3
AGR 314—Plant Propagation	3
AGR 315—Fruit Production	3
AGR 320—Principles of Vegetable Production	3
AGR 321—Greenhouse Production I	3
AGR 322—Greenhouse Production II	3
AGR 325—Turf Management	3
AGR 326—Nursery Management	3
AGR 327—Advanced Landscape Design	3
AGR 384—Forage Crops	3
(5)—Soil Science	3
AGR 311—Soil Conservation	3
AGR 312—Soil Fertility and Fertilizers	3

F. Horticulture

Students who select this option must complete the required courses in the area of concentration in agriculture and 28 semester hours of approved electives from the following list:

	Sem. Hrs.
AGR 212—Landscape Plants	3
AGR 213—Landscape Gardening	3
AGR 216—Floriculture	2
AGR 304—Genetics	3
AGR 308—Weed Control	3
AGR 312—Soil Fertility and Fertilizers	3
AGR 314—Plant Propagation	3
AGR 315—Fruit Production	3
AGR 320—Principles of Vegetable Production	3
AGR 321—Greenhouse Production I	3
AGR 322—Greenhouse Production II	3
AGR 325—Turf Management	3
AGR 326—Nursery Management	3

AGR 327—Advanced Landscape Design	3
AGR 334—Entomology	3
BIOL 215—General Botany	4
BIOL 318—Local Flora	3
BIOL 513—Plant Physiology	3
BIOL 514—Plant Pathology	3
BIOL 550—Plant Anatomy	3
BIOL 551—Plant Morphology	3
CHEM 326, 326A—Organic Chemistry I and Laboratory	4
CHEM 327, 327A—Organic Chemistry II and Laboratory	4
IET 103—Technical Drawing I	3

Suggested Course Sequence

	Sem. Hrs.
FRESHMAN YEAR	
First Semester	17
ENG 101—Composition I	3
BIOL 150—Introductory Plant Science	3
AGR 101—General Agriculture	1
AGR 133—Farm Livestock Production	3
PHED—Activity Course	1
AGR 251—Introduction to Agriculture Mechanics	3
ECON 101—Introduction to the American Economy	3
Second Semester	15
MATH 152—College Algebra	3
ENG 102—Composition II	3
AGR 180—Elementary Field Crops	3
ECON 201—Principles of Economics I	3
AGR—Agriculture Elective	3
SOPHOMORE YEAR	
First Semester	16
AGR 203—Agriculture Economics	3
AGR 215—Horticulture	3
SOC 170—Rural Sociology	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
AGR—Agriculture Elective	3
Second Semester	16
FNA 160—Appreciation of Fine Arts	3
SPCH 110—Basic Speech	3
AGR 211—Soils	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
AGR—Agriculture Elective	3
JUNIOR YEAR	
First Semester	16
HLTH 150—Personal Health	2
GEOG 100—Fundamentals of Geography	3
General Elective	1
AGR 301—Farm Management	3
ENG 202—Introduction to Literature	3
Second Semester	16
AGR 316—Feeds and Feeding	3
AGR—Agriculture Electives	6
General Electives	7
SENIOR YEAR	
First Semester	16
AGR 471—Seminar	1
AGR—Agriculture Electives	6
General Electives	9
Second Semester	16
AGR—Agriculture Electives	6
General Electives	10
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Agriculture electives must be grouped for an option in agriculture business, agriculture economics, agronomy, animal science, general agriculture, or horticulture. General electives may also be taken in agriculture or a related area by students wishing greater depth in the field.

2. A Bachelor of Science degree with an Area of Concentration in Vocational Agriculture Education

The student must complete a minimum of 50 semester hours credit in technical agriculture which includes at least 6 semester hours in each of the fields listed below. The area is designed and approved for students who wish to teach vocational agriculture in the public schools of Kentucky.

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 Agriculture Education	18
AGR 580—Methods of Teaching Vocational Agriculture	4
AGR 582—Adult and Young Farmer Education	3
AGR 584—Teaching Vocational Agriculture	8
AGR 586—Planning Program in Vocational Agriculture	3

Admission to Teacher Education Program

A student 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.

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	14
ENG 101—Composition I	3
AGR 101—General Agriculture	1
BIOL 150—Introduction to Plant Science	3
AGR 133—Farm Livestock Production	3
ECON 101—Introduction to American Economy	3
PHED—Activity Course	1
Second Semester	15
ENG 102—Composition II	3
AGR—Agriculture Elective	3
ECON 201—Principles of Economics I	3
AGR 180—Elementary Field Crops	3
MATH 152—College Algebra	3
SOPHOMORE YEAR	
First Semester	16
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
AGR 251—Introduction to Agriculture Mechanics	3
SOC 170—Rural Sociology	3
FNA 160—Appreciation of Fine Arts	3
AGR 215—Horticulture	3
Second Semester	16
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
AGR 203—Agriculture Economics	3
EDSE 209—Foundations of Secondary Education	2
AGR 316—Feeds and Feeding	3
HLTH 150—Personal Health	2
General Elective	2
JUNIOR YEAR	
First Semester	16
AGR 211—Soils	3
AGR 350—Farm Power and Machinery Management	3
SPCH 110—Basic Speech	3
GOVT 141—Government of United States	3
EDSE 310—Principles of Adolescent Development	3
General Elective	1
Second Semester	16
AGR 301—Farm Management	3
AGR 312—Soil Fertility and Fertilizers	3
AGR—Agriculture Electives	7
ENG 202—Introduction to Literature	3
SENIOR YEAR	
First Semester	17
Humanities or Comm. Elective	3
AGR 471—Seminar	1
AGR—Agriculture Electives	8
General Electives	5
Second Semester	18
AGR 580—Methods of Teaching Vocational Agriculture	4
AGR 582—Adult and Young Farmer Education	3
AGR 584—Teaching Vocational Agriculture	8
AGR 586—Planning Programs in Vocational Agriculture	3
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3. A Bachelor of Science degree with a Major in Agriculture

	Sem. Hrs.
Required Courses in Agriculture	26
AGR 101—General Agriculture	1
AGR 133—Farm Livestock Production	3
AGR 180—Elementary Field Crops	3
AGR 203—Agricultural Economics	3
AGR 211—Soils	3
AGR 215—Horticulture	3
AGR 251—Introduction to Agriculture Mechanics	3
AGR 301—Farm Management	3
AGR 316—Feeds and Feeding	3
AGR 471—Seminar	1
Approved Agriculture Electives	5
Additional Requirements	8
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry II Laboratory	1
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1

Suggested Course Sequence

FRESHMAN YEAR	
First Semester	17
ENG 101—Composition I	3
BIOL 150—Introductory Plant Science	3
AGR 101—General Agriculture	1
AGR 133—Farm Livestock Production	3
General Electives	3
PHED—Activity Course	1
ECON 101—Introduction to American Economy	3
Second Semester	15
ENG 102—Composition II	3
ECON 201—Principles of Economics I	3
AGR—Agriculture Elective	3
AGR—180—Elementary Field Crops	3
MATH 152—College Algebra	3
SOPHOMORE YEAR	
First Semester	15
SOC 170—Rural Sociology	3
AGR 215—Horticulture	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
HLTH 150—Personal Health	2
AGR 203—Agricultural Economics	3
Second Semester	16
FNA 160—Appreciation of Fine Arts	3
AGR 211—Soils	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
SPCH 110—Basic Speech	3
Second Major Elective	3
JUNIOR YEAR	
First Semester	16
GEOG 100—Fundamentals of Geography	3
AGR 251—Introduction to Agriculture Mechanics	3
AGR 316—Feeds and Feeding	3
Second Major Electives	7
Second Semester	16
ENG 202—Introduction to Literature	3
AGR 301—Farm Management	3
Second Major Electives	10
SENIOR YEAR	
First Semester	16
Social Science Elective	3
AGR 471—Seminar	1
Humanities or Comm. Elective	3
Second Major Electives	9
Second Semester	17
General Electives	11
AGR—Agriculture Elective	3
Second Major Electives	3
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A major or minor must also be selected in another field.

4. A. Minor in Agriculture

	Sem. Hrs.
Required Courses in Agriculture	17

AGR 101—General Agriculture	1
AGR 133—Farm Livestock Production	3
AGR 180—Elementary Field Crops	3
AGR 203—Agricultural Economics	3
AGR 211—Soils	3
AGR 215—Horticulture	3
AGR 471—Seminar	1
Approved Agriculture Electives	4
Additional Requirements	4
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1

4. B. Minor in Horsemanship

Required Courses in Agriculture	15
AGR 121—Equitation	3
AGR 242—Light Horse Husbandry	3
AGR 244—Horse Production	3
AGR 316—Feeds and Feeding	3
AGR 332—Advanced Horsemanship	3
Approved Agriculture Electives	6

4. C. Minor in Reclamation Technology

	Sem. Hrs.
Required Courses in Reclamation Technology	17
RCL 301—Reclamation Laws and Regulations	3
RCL 302—Reclamation Management and Systems Planning I	4
RCL 303—Reclamation Management and Systems Planning II	4
CON 102—Surveying I	3
MIN 103—Mining Drafting	3
Approved Electives	4

5. A. Associate of Applied Science degree in Agriculture Business Technology

The Agriculture Business Technology Program is designed for students interested in a wide range of jobs in agricultural business, sales, and managerial aspects of the agricultural industry.

	Sem. Hrs.
Required Courses	50
AGR 133—Farm Livestock Production	3
AGR 180—Elementary Field Crops	3
AGR 203—Agricultural Economics	3
AGR 302—Agriculture Finance	3
AGR 305—Marketing of Farm Products	3
AGR 251—Introduction to Agriculture Mechanics	3
ECON 101—Introduction to American Economy	3
OADM 211—Beginning Typewriting	3
DATA 200—Introduction to Data Processing	3
FIN 252—Mathematics of Finance	3
MKT 350—Salesmanship	3
ACCT 281—Principles of Accounting I	3
ENG 101—Composition I	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
ENG 192—Technical Composition	3
BIOL 150—Introduction to Plant Science	3
Approved Electives in Option	15
(see available options below)	

Options

(1) Animal Science

AGR 211—Soils	3
AGR 237—Poultry Production	3
AGR 316—Feeds and Feeding	3
AGR 336—Dairy Cattle Feeding, Breeding, and Management	3
AGR 343—Beef Production	3
AGR 344—Swine Production	3
AGR 345—Sheep Production	3

(2) Crop Science

AGR 215—Horticulture	3
AGR 311—Soil Conservation	3
AGR 312—Soil Fertility and Fertilizers	3
AGR 314—Plant Propagation	3
AGR 320—Principles of Vegetable Production	3
AGR 384—Forage Crops	3

(3) Horticulture

AGR 212—Landscape Plants	3
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AGR 213—Landscape Gardening	3
AGR 215—Horticulture	3
AGR 314—Plant Propagation	3
AGR 315—Fruit Production	3
AGR 320—Principles of Vegetable Production	3
AGR 325—Turf Management	3

(4) Agriculture Management

AGR 205—Farm Records	2
AGR 301—Farm Management	3
AGR 303—Land Economics	3

Suggested Course Sequence

First Semester	15
BIOL 150—Introduction to Plant Science	3
AGR 133—Farm Livestock Production	3
ECON 101—Introduction to American Economy	3
ENG 101—Composition I	3
AGR 251—Introduction to Agriculture Mechanics	3
Second Semester	16
AGR 180—Elementary Field Crops	3
AGR 203—Agricultural Economics	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
ENG 192—Technical Composition	3
OADM 211—Beginning Typewriting	3
Third Semester	17
AGR—Option Elective	5
AGR 302—Agriculture Finance	3
AGR 305—Marketing of Farm Products	3
DATA 200—Introduction to Data Processing	3
ACCT 281—Principles of Accounting I	3
Fourth Semester	16
AGR—Option Elective	10
MKT 350—Salesmanship	3
FIN 252—Mathematics of Finance	3
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5. B. Associate of Applied Science degree in Farm Production Technology

The Farm Production Technology Program is designed to produce a farm technician highly skilled in managing a farm enterprise or a certain type of production within an enterprise. Supporting course work is also provided in the related sciences.

	Sem. Hrs.
Required Courses	35
AGR 101—General Agriculture	1
AGR 133—Farm Livestock Production	3
AGR 180—Elementary Field Crops	3
AGR 203—Agricultural Economics	3
AGR 211—Soils	3
AGR 215—Horticulture	3
AGR 316—Feeds and Feeding	3
ENG 101—Composition I	3
ENG 192—Technical Composition	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
BIOL 150—Introduction to Plant Science	3
ECON 101—Introduction to American Economy	3
Approved Electives in Option	29
(see available options below)	

Options

(1) Animal Science

	Sem. Hrs.
AGR 136—Principles of Dairying	3
AGR 231—Livestock Judging	3
AGR 237—Poultry Production	3
AGR 242—Light Horse Husbandry	3
AGR 244—Horse Production	3
AGR 331—Advanced Livestock Judging	3
AGR 334—Entomology	3
AGR 336—Dairy Cattle Feeding, Breeding, and Management	3
AGR 343—Beef Production	3
AGR 344—Swine Production	3
AGR 345—Sheep Production	3
AGR 350—Farm Power and Machinery Management	3

(2) Agriculture Management

AGR 205—Farm Records	3
AGR 301—Farm Management	3
AGR 302—Agriculture Finance	3
AGR 303—Land Economics	3
AGR 305—Marketing of Farm Products	3
AGR 503—Agricultural Policy	3
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
FIN 252—Mathematics of Finance	3
MKT 350—Salesmanship	3
FIN 364—Personal Finance	3
ECON 201—Principles of Economics I	3
ECON 202—Principles of Economics II	3

(3) Crop Science

AGR 304—Genetics	3
AGR 308—Weed Control	3
AGR 311—Soil Conservation	3
AGR 312—Soil Fertility and Fertilizers	3
AGR 314—Plant Propagation	3
AGR 315—Fruit Production	3
AGR 320—Principles of Vegetable Production	3
AGR 325—Turf Management	3
AGR 334—Entomology	3
AGR 341—Agriculture	3
AGR 350—Farm Power and Machinery Management	3
AGR 384—Forage Crops	3
BIOL 215—General Botany	3

(4) Horticulture

AGR 212—Landscape Plants	3
AGR 231—Landscape Gardening	3
AGR 312—Soil Fertility and Fertilizers	3
AGR 314—Plant Propagation	3
AGR 315—Fruit Production	3
AGR 320—Principles of Vegetable Production	3
AGR 321—Greenhouse Production I	3
AGR 322—Greenhouse Production II	3
AGR 325—Turf Management	3
AGR 326—Nursery Management	3
AGR 327—Advanced Landscape Design	3
AGR 334—Entomology	3
AGR 341—Apiculture	3
AGR 350—Farm Power and Machinery Management	3

Suggested Course Sequence

First Semester	16
AGR 101—General Agriculture	1
BIOL 150—Introduction to Plant Science	3
ENG 101—Composition I	3
AGR 133—Farm Livestock Production	3
ECON 101—Introduction to American Economy	3
AGR Electives	3
Second Semester	16
AGR 180—Elementary Field Crops	3
AGR 215—Horticulture	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
AGR 203—Agricultural Economics	3
AGR—Option Elective	3
Third Semester	16
AGR 316—Feeds and Feeding	3
AGR—Option Electives	10
AGR 211—Soils	3
Fourth Semester	16
AGR—Option Electives	13
ENG 192—Technical Composition	3
	64

5. C. Associate of Applied Science degree in Ornamental Horticulture

The ornamental horticulture program is designed for students interested in managing and supervising nurseries, commercial greenhouses, parks, golf courses, and working with or operating their own horticultural firms.

Requirements and Suggested Course Sequence

First Semester	Sem. Hrs. 16
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BIOL 150—Introduction to Plant Science	3
ENG 101—Composition I	3
AGR 101—General Agriculture	1
AGR 212—Landscape Plants	3
IET 103—Technical Drawing I	3
AGR 350—Farm Power and Machinery Management	3
Second Semester	16
AGR 205—Farm Records	3
AGR 213—Landscape Gardening	3
ECON 101—Introduction to American Economy	3
AGR 215—Horticulture	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Lab	1
Summer School	6
AGR 235—Supervised Work Experience	6
Third Semester	15
AGR 325—Turf Management	3
AGR 321—Greenhouse Production I	3
AGR 211—Soils	3
ENG 192—Technical Composition	3
AGR—Agricultural Elective	3
Fourth Semester	15
AGR 322—Greenhouse Production II	3
AGR 314—Plant Propagation	3
AGR 326—Nursery Management	3
AGR 327—Advanced Landscape Design	3
AGR—Agriculture Elective	3
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5. D. Associate of Applied Science degree in Reclamation Technology

The reclamation technology program is designed to prepare individuals for employment in mining as well as industrial positions where land environmental protection is a major consideration. Students develop an understanding of legal aspects of reclamation, federal and state health and safety requirements, surface mining methods, proper land-use concepts, map drafting and report writing.

Requirements and Suggested Course Sequence

First Semester	Sem. Hrs. 16
MATH 135—Mathematics for Technical Students	3
GEOS 200—Coal Mine Geology	3
IET 103—Technical Drawing I	3
MIN 101—Fundamentals of Mining and Safety Engineering	3
MATH 110—Problem Solving Techniques	1
ECON 101—Introduction to American Economy	3
Second Semester	16
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
CON 102—Survey I	3
MIN 103—Mining Drafting (Cartography)	3
ENG 101—Composition I	3
GEOS 350—Geomorphology	3
Third Semester	16
RCL 301—Reclamation Laws and Regulations	3
IET 320—Supervisory Practices	3
RCL 302—Reclamation Management and System Planning I	4
AGR 211—Soils	3
CON 104—Surveying II	3
Fourth Semester	16
MIN 205—Mining Laws and Management	3
ENG 192—Technical Composition	3
RCL 303—Reclamation Management Systems Planning II	4
AGR 207—Land Conservation and Forest Management	3
Approved Technical Elective	3
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6. Pre-Veterinary Curriculum

Students interested in becoming veterinarians may enroll in the Department of Agriculture at Morehead State University and complete their requirements for admission to veterinary school. Since competition for admission to veterinary medicine is keen, students should work closely with the pre-veterinary medicine advisor.

The state of Kentucky is a participating member in the Southern Regional Education Board's plan under which legal Kentucky residents may attend schools of veterinary medicine at Auburn University and Tuskegee Institute. In this program, the students accepted to those universities are exempt from out-of-state tuition and would pay only the in-state tuition of that university.

A minimum of 80 to 90 semester hours of specified course work is required for application to those schools of veterinary medicine. A grade of "D" in required courses will not be accepted by the universities. The final selection is made by the admissions committee of the respective school of veterinary medicine.

The following curriculum is designed to meet the requirements of Auburn and Tuskegee Institute. Three years are normally required for completion.

Requirements and Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	17
ENG 101—Composition I	3
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
AGR 133—Farm Livestock Production	3
BIOL 208—Invertebrate Zoology	3
HIS 131—Introduction to Civilization I	3
PE—Activity Course	1
Second Semester	17
ENG 102—Composition II	3
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
HIS 132—Introduction to Civilization II	3
MATH 152—College Algebra*	3
BIOL 209—Vertebrate Zoology	3
PE—Activity Course	1
SOPHOMORE YEAR	
First Semester	17
GOVT 141—Government of the U.S.	3
MATH 141—Plane Trigonometry*	3
BIOL 215—Botany or BIOL 150—Introduction to Plant Science	4
CHEM 326, 326A—Organic Chemistry I and Laboratory	4
Humanities Elective	3
Second Semester	17
PHYS 201, 201A—Elementary Physics I and Laboratory	4
CHEM 327, 327A—Organic Chemistry II and Laboratory	4
BIOL 317—Principles of Microbiology	4
HLTH 150—Personal Health	2
Social Science Elective	3
JUNIOR YEAR	
First Semester	17
PHYS 202—Elementary Physics II	4
AGR 304—Genetics	4
AGR 316—Feeds and Feeding	3
AGR—Electives**	4
Social Science or Humanities Elective	3
Second Semester	15
MATH 175—Analytic Geometry & Calculus I	4
ALH 302—Medical Terminology	2
AGR 515—Animal Nutrition	3
AGR 231—Livestock Judging**	3
AGR 344—Swine Production**	3

*Students may by-pass MATH 141 and 152 through the mathematics placement examination.

**These courses are not required in the pre-veterinary curriculum but are highly recommended for the students who plan to earn a bachelor of science degree from the Department of Agriculture.

7. Pre-Forestry Curriculum

Students interested in a career in forestry may take their first two years of course work at Morehead State University and then complete their studies at the University of Kentucky. If at the end of two years a student does not secure

admission to the forestry program at the University of Kentucky or at some other university, most of the credits 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.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	17
ENG 101—Composition I	3
BIOL 150—Introduction to Plant Science	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
MATH 175—Analytic Geometry and Calculus I	4
PHED—Activity Course	1
General Elective	2
Second Semester	16
ENG 192—Technical Composition	3
AGR 180—Elementary Field Crops	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
MATH 353—Statistics	3
PHED—Activity Course	1
General Elective	2
Third Semester	17
SOC 170—Rural Sociology	3
PHYS 201, 201A—Elementary Physics I and Laboratory	4
BIOL 215—General Botany	4
CON 102—Surveying I	3
PSY 154—Life-Oriented General Psychology	3
Fourth Semester	15
HIS 141—Introduction to Early American History	3
SPCH 110—Basic Speech	3
ECON 201—Principles of Economics I	3
AGR 211—Soils	3
ENG—Literature Elective	3
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Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

AGR 101. General Agriculture. (1-0-1); I. The importance of agriculture in the community, state, nation, and world.

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; and 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 119. Intermediate Horsemanship (Saddle Seat). (9-2-1); 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. Includes 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 121. Equitation. (1-4-3); I. Grooming, saddling, bridling, mounting, seat and hands. Basic equitation for students with no previous experience.

AGR 133. Farm Livestock Production. (2-2-3); I, II. Fundamental genetics, nutrition, and physiology of beef and dairy cattle, swine, and sheep.

AGR 136. Principles of Dairy Farming. (2-2-3); I. General survey of breeds: selection, feeds, and care of dairy cattle; testing; composition, quality, feed value, and consumption of dairy products; principles of processing and manufacturing dairy products; marketing.

AGR 180. Elementary 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); I, 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, II. Prerequisite: CHEM 101 and 101A. 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. A study of ornamental trees, shrubs, and vines commonly used in landscaping. Emphasis is placed on identification, characteristics, adaptability, and maintenance.

AGR 213. Landscape Gardening. (2-2-3); II. Prerequisite: AGR 212. An introduction to landscape gardening with emphasis on design, construction, planting, and maintenance of the home grounds.

AGR 215. Horticulture. (2-2-3); I, II. Prerequisite: BIOL 150. A study of the basic principles underlying horticultural practices in fruit growing, vegetable gardening, landscape gardening, and floriculture.

AGR 216. Floriculture. (1-2-2); on demand. The elementary principles of selection, identification, culture, and use of foliage plants.

AGR 231. Livestock Judging. (1-4-3); II. A study of the types of purebred and commercial beef cattle, sheep, horses, and swine. Studies will be made on evaluating market, breeding, and performance classes.

AGR 235. Supervised Work Experience. (1 to 6 hrs.); I, II, III. A supervised work experience program for students planning a career in agriculture upon completion of the associate degree program.

AGR 237. Poultry Production. (2-2-3); on demand. Principles of poultry production, including breeds and development, incubation, breeding, and genetics; management practices, housing, feeding, and nutrition; diseases, their prevention and control.

AGR 242. Light Horse Husbandry. (2-2-3); I, II. A study of horse care, including first aid, feeding, grooming, stable vices, health requirements, diseases, disease control, and building and fence construction. Students will also gain practical experience by working at the barn.

AGR 244. Horse Production. (2-2-3); I. Prerequisite: AGR 242. A general study of the anatomy and physiology of the horse, the relationship of form to function; horse selection; horse breeding, feeding, and genetics.

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 301. Farm Management. (3-0-3); I, II. 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. 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. 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 304. Genetics. (2-2-3); I, II. Prerequisite: BIOL 209 or 215. (See BIOL 304.)

AGR 305. Marketing of Farm Products. (3-0-3); I. 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 Control. (2-2-3); on demand. Prerequisites: AGR 180, 211, CHEM 112, 112A. Identification and classification of weedy species, methods of reproduction, and growth characteristics. Effects on crop and livestock yield.

AGR 311. Soil Conservation. (2-2-3); on demand. 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. (2-2-3); II. 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. 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; use of root stimulants, types of facilities and equipment required, and other cultural practices.

AGR 315. Fruit Production. (2-2-3); on demand. Prerequisite: AGR 215 or consent of instructor. Tree fruits, nuts, and small fruits; varieties, fruiting sites, soils, pruning, pest control, planting, and commercial marketing.

AGR 316. Feeds and Feeding. (2-2-3); I, II. Prerequisites: CHEM 102, 102A, and AGR 133. Feeds and formulation of rations; fats, carbohydrates, proteins, and their digestion; 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 320. Principles of Vegetable Production. (2-2-3); on demand. 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 321. Greenhouse Production I. (2-2-3); I. Prerequisite: AGR 215 or consent of the instructor. Factors involved in locating, constructing, and equipping a greenhouse. Studies soil, soil fertilization, sterilization, watering, cooling, ventilating and heating systems and other developments in greenhouse mechanization; types of structures, materials, and methods of construction.

AGR 322. Greenhouse Production II. (2-2-3); II. Prerequisite: AGR 215 and 321 or consent of instructor. Continuation of 321 in selection of type of crop; producing, harvesting, storing, and marketing of bedding plants, greenhouse vegetables, cut plants, and potted plants; plant growth and reproduction.

AGR 325. Turf Management. (2-2-3); I. Prerequisite: 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 similar turf areas.

AGR 326. Nursery Management. (2-2-3); II. Prerequisite: 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. (1-4-3); on demand. Prerequisite: 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 331. Advanced Livestock Judging. (2-2-3); II. Continuation of AGR 231. Primarily for judging team candidates. Open only to those students who have a good standing in the prerequisite course, AGR 231.

AGR 332. Advanced Horsemanship. (1-4-3); I, II. Prerequisite: AGR 121 or equivalent. The skills of performance equitation. Specific skills needed in training of horses. Emphasis will be on the horseman's role in extracting performance.

AGR 334. Entomology. (2-2-3); II. Prerequisite: BIOL 208. (See BIOL 334.)

AGR 335. Equitation Teaching. (2-2-3); II. Prerequisite: AGR 332. The techniques of horsemanship and methods of equitation instruction.

AGR 336. Dairy Cattle Feeding, Breeding, and Management. (2-2-3); on demand. Prerequisite: AGR 133, AGR 136, and AGR 316. Principles of nutrition as applied to dairy cattle, records, breeding programs, herd operation, production costs and returns.

AGR 341. Apiculture. (2-2-3); on demand. Establishing and managing honeybee colonies, prevention and control of pests, and handling the honey crop.

AGR 343. Beef Production. (2-2-3); II. 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. 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); on demand. 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 384. Forage Crops. (2-2-3); on demand. 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 even years or on demand. Prerequisite: AGR 203. A study of the managerial functions, responsibilities, and operational characteristics unique to an agriculturally related business firm. A special effort is made to link the disciplines of business management to typical industry problems for a better understanding of the scope of the agribusiness industry.

AGR 386. Introductory Agricultural Policy. (3-0-3); II in odd years or on demand. A history of agricultural policy and policy making; defining the problems and their settings, government participation in supply and demand for agricultural products.

AGR 471. Seminar. (1-0-1); I, II. Prerequisite: second semester junior stan-

ding. 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 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.

AGR 515. Animal Nutrition. (2-2-3); II. **Prerequisite:** AGR 316. Chemistry, metabolism, and physiological functions of nutrients; digestibility, nutritional balances, and measures of food energy.

AGR 580. Methods of Teaching Vocational Agriculture. (4-0-4); II. The principles of methods applied to teaching vocational agriculture to high school students. Course organization, farming programs, and Future Farmers of America activities.

AGR 582. Adult and Young Farmer Education. (3-0-3); II. The principles and techniques method in organizing and program planning in post high school vocational agriculture and conducting young farmer and adult farmer classes.

RECLAMATION TECHNOLOGY

RCL 301. Reclamation Laws and Regulations. (3-0-3); I. A study of federal and state regulatory agencies and regulations affecting the reclamation of disturbed land.

RCL 302. Reclamation Management and Systems Planning I. (2-4-4); I. Studies of current surface mining procedures and reclamation methods. Laboratory and field studies devoted to surface mining permit application procedures and site evaluation.

RCL 303. Reclamation Management and Systems Planning II. (2-4-4); II. **Prerequisite:** approval of instructor. An emphasis on evolving concepts in surface mining. Laboratory and field studies devoted to advanced site evaluation, environment testing procedures, and land use planning.

Allied Health Sciences

The Department of Allied Health Sciences offers the following programs:

1. A two-year Associate of Applied Science degree in nursing.
2. A two-year Associate of Applied Science degree in radiologic technology.
3. A two-year Associate of Applied Science degree in veterinary technology.

1. Associate of Applied Science degree in Nursing

The associate degree nursing program prepares you for the role of registered nurse through both classroom and clinical education. Courses in maternity, psychiatric, and child-adult nursing help to give you a broad foundation of knowledge, while training in an actual hospital setting allows you the chance to apply your classroom learning to practical situations. Both men and women of any age, single or married, are eligible to apply.

Due to limitations on enrollment each semester, not all students are accepted into the nursing program upon first application. For the benefit of these students and others who plan to transfer to another institution, a pre-nursing program is offered. For those pre-nursing students and those who wish to transfer, a program will be planned to accommodate the program requirements of the institution of his or her choice. It should be understood that admission to the pre-nursing program at Morehead State University gives no prior commitment to any specific school of nursing. The candidate must be admitted by the institution to which he or she is transferring.

Required Course Sequence

	Sem. Hrs.
FIRST SEMESTER	16
NUR 200—Fundamentals of Nursing	7
PSY 154—Introduction to Psychology	3
PSY 156—Life-Span Developmental Psychology	3
BIOL 331—Human Anatomy	3
SECOND SEMESTER	18
NUR 201—Maternity Nursing (9 weeks)	4
NUR 202—Psychiatric Nursing (9 weeks)	4
BIOL 332—Human Physiology	3
CHEM 100, 100A—Basic Chemistry and Laboratory	4
SOC 101—General Sociology	3
THIRD SEMESTER	18
NUR 300—Child-Adult Nursing I	8
ENG 101—English Composition I	3
HEC 320—Elements of Nutrition	3
BIOL 217—Elementary Medical Microbiology	4
OR	
BIOL 317—Principles of Microbiology	4
FOURTH SEMESTER	18
NUR 301—Child-Adult Nursing II	10
NUR 310—Nursing Trends	2
ENG 102—English Composition II	3
General education requirement	3
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2. An Associate of Applied Science degree in Radiologic Technology

The associate degree program in radiologic technology is designed to prepare skilled technologists with a thorough knowledge of radiation protection, anatomy and physiology, radiation physics, darkroom chemistry, radiographic positioning, medical terminology, nursing procedures, and topographic anatomy. Students must spend a total of 24 months in the program with approximately 50 percent of the time gaining clinical experience in an affiliated hospital.

Requirements and Suggested Course Sequence

	Sem. Hrs.
FIRST SEMESTER	16
RAD 110—Radiographic Anatomy and Positioning I	4
RAD 120—Radiologic Technology I	4
AHS 302—Medical Terminology	2
MATH 135—Mathematics for Technical Students	3
BIOL 331—Human Anatomy	3
SECOND SEMESTER	12
RAD 130—Clinical Internship I	10
RAD 131—Special Problems—Nursing Procedures	2
FIRST SUMMER SESSION	6
RAD 210—Radiographic Anatomy and Positioning II	3
ENG 101—Composition I	3
SECOND SUMMER SESSION	6
RAD 220—Radiographic Anatomy and Positioning III	3
BIOL 332—Human Physiology	3
THIRD SEMESTER	12
RAD 230—Clinical Internship II	10
RAD 231—Special Problems—Radiographic Quality	2
FOURTH SEMESTER	17
RAD 240—Radiologic Technology II	3
RAD 250—Radiation Physics and Electronics	3
RAD 260—Advanced Radiographic Procedures	3
ENG 192—Technical Composition	3
PSY 154—Introduction to Psychology	3
AHS 304—Medical Law and Ethics	2
FIRST SUMMER SESSION	5
RAD 330—Clinical Internship III	4
RAD 331—Seminar of Radiographic Pathology	1
SECOND SUMMER SESSION	4
RAD 340—Clinical Internship IV	4
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3. Associate of Applied Science degree in Veterinary Technology

The associate degree program in veterinary technology

prepares paraprofessionals for employment as assistants in the veterinary profession. It is endorsed by the Kentucky Veterinary Medical Association and accredited by the American Veterinary Medical Association.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	18
VET 102—Introduction to Veterinary Technology	3
VET 106—Animal Science and Breeding Identification	3
VET 105—Anatomy of Domestic Animals	3
VET 107—Laboratory Techniques I	3
ENG 101—Composition I	3
OADM 211—Typing	3
Second Semester	15
VET 215—Clinical Practices I	2
VET 208—Laboratory Techniques II	3
VET 206—Physiology of Domestic Animals	3
VET 340—Radiology	3
MATH 131—General Math I	3
VET 220—Clinic Rotation I	1
	Sem. Hrs.
Summer I	6
VET 333—Small Animal Diseases and Nutrition	2
VET 308—Laboratory Techniques III	3
VET 221—Clinic Rotation II	1
Summer II	6
VET 339—Pharmacology	3
VET 210—Parasitology	2
VET 222—Clinic Rotation III	1
Third Semester	15
VET 315—Clinical Practices II	2
VET 346—Large Animal Diseases and Nutrition	3
VET 350—Laboratory Animal Medicine	2
SPCH 110—Basic Speech	3
PHED—Physical Education	1
ENG 192—Technical Composition	3
VET 223—Clinic Rotation IV	1
Fourth Semester	10
Preceptorship	10
	70

Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

ALLIED HEALTH SCIENCES

AHS 100. Orientation to Allied Health. (1-0-1); I, II. A review of the history of the health occupations, the ethics of health care, and professional conduct. The various health careers will be identified, their functions described, and the way in which they articulate into the health care team is studied.

AHS 202. Basic Pharmacology. (2-0-2); I, II. This course is to assist the student in the health field to understand responsibility in the administration of medicine and to appreciate the need for accuracy. Basic information concerning the main effects, uses, and doses of the common drugs, including weights, measurements, and abbreviations commonly used in medicine. Review of mathematics related to calculating and translation of dosage.

AHS 301. Seminar. (1 to 3 hrs.); II. Lecture and discussion of problems related to major area and/or health field. Readings in current literature.

AHS 302. Medical Terminology. (2-0-2); I, II. A word-study course of medical terminology. The vocabulary will be taught from a word aspect; a knowledge of medicine or related disciplines is not necessary.

AHS 303. Interpersonal Relations. (3-0-3); I, II. The personality formation of oneself and the "other person." Verbal and non-verbal communications; life forces; coping patterns and values, attitudes, and beliefs are examined. Visual methods and therapeutic methods of communicating with individuals and groups. Some prevalent barriers to communication are discussed. Emphasis is on the health worker's preparation for communication with patients and clients.

AHS 304. Medical Law and Ethics. (2-0-2); II. Designed to acquaint the stu-

dent with the basic principles of medical law as they apply to the medical assistant, especially considering the basic legal and ethical relationships between the physician, medical assistant, and patient. Coverage includes: contract creation and termination, including implied and informed consent, professional liability, invasion of privacy, malpractice tort liability, breach of contract, and medical practice acts. Emphasis given to professional attitudes and behavior, history of medicine, and different types of medical practice.

AHS 351. Practicum. (1 to 3 hrs.); on demand. Corequisite: to be correlated with a course in major area in Department of Allied Health Sciences. Supervised clinical learning experience in an appropriate agency or facilities through which the students acquire understanding and skill in their major or area of concentration. The student learns to deal with the patient's physical, mental, and social problems; accepts responsibility as a participating team member; learns to work with other professional and non-professional personnel.

AHS 398. Supervised Field Experience. (1 to 6 hrs.); on demand. Prerequisite: consent of advisor. Designed to provide experience in occupational area as student works under supervision in an approved position. Credit commensurate with time worked, type of work, variety of work experiences, periodic evaluation by major department, faculty, and cooperating organization.

NURSING

NUR 200. Fundamentals of Nursing. (4-9-7); I, II. Prerequisite: official enrollment in the nursing program. Corequisites: BIOL 331—Human Anatomy, PSY 156—Life-Span Developmental Psychology, PSY 154—Introduction of Psychology, and SOC 101—General Sociology. A study of nursing knowledge and skills involved in meeting the basic human need of all patients. This includes hygiene, rest, comfort, nutrition, asepsis, patient safety, nursing observation, and communication. Interpersonal relationships are integrated into the total content. The process of assessing patients' needs and determining appropriate nursing actions are introduced. Special emphasis is placed on caring for the elderly patient. The content is designed to help the beginning nursing student to better understand his or her place in the nursing profession and on the health team.

NUR 201. Maternity Nursing. (5-9-4); I, II (half semester course). Prerequisite: successful completion of the first semester of the nursing program. Corequisites: BIOL 332—Human Physiology; CHEM 100—Basic Chemistry; and PSY 157—Psychology of Adjustment or PSY 390—Psychology of Personality. A family centered course utilizing the basic needs and the nursing process approach to studying the nursing aspects of the maternity cycle. Complications of the maternity cycle are viewed as interferences to homeostasis. Selected clinical experiences are required.

NUR 202. Psychiatric Nursing. (5-9-4); I, II (half semester course). Prerequisite: successful completion of the first semester of the nursing program. Corequisites: BIOL 332—Human Physiology; CHEM 100—Basic Chemistry; and PSY 157—Psychology of Adjustment or PSY 390—Psychology of Personality. A study of human mental health, the manifestations of and interventions for the common mental disorders that interfere with the individual's satisfaction of basic needs are discussed. The nursing process is utilized to facilitate the student's therapeutic use of self in nursing interventions. Concomitant selected clinical experiences are required.

NUR 300. Child-Adult Nursing I. (4-12-8); I, II. Prerequisite: successful completion of the first year of the nursing program. Corequisites: ENG 101—English Composition; HEC 320—Elements of Nutrition; and BIOL 217—Elementary Medical Microbiology. Theory and correlated nursing care of individuals from infancy throughout the life span who have interferences with one or more of their basic needs. The scope includes nursing aspects of major interferences with homeostasis during illnesses requiring hospitalization. Utilizing the systems approach, the focus is upon major health problems of the child or adult and ways these problems interfere with meeting basic human needs. The use of the nursing process is continued. Concomitant clinical experiences are required.

NUR 301. Child-Adult Nursing II. (5-15-10); I, II. Prerequisite: successful completion of the first three semesters of the nursing curriculum. Corequisites: NUR 310—Trends in Nursing and ENG 102—English Composition II. A continuation of Child-Adult Nursing I with an emphasis on more in-depth assessments and more complex interventions. Increased clinical experiences are required.

NUR 310. Nursing Trends. (2-0-2); I, II. Prerequisite: successful completion of the first three semesters of the nursing program. Consideration of issues in nursing and the relationship of nursing to the social order. The problem, responsibilities, and challenges of the registered nurse as a member of the nursing profession and the community.

RADIOLOGIC TECHNOLOGY

RAD 110. Radiographic Anatomy and Positioning I. (2-2-3); I. Basic terminology relating to the structures of the human body. The human skeleton is studied emphasizing the anatomy and articulations. Radiographic appearance and topographic anatomy are integrated with routine positions for both appendicular and axial sections.

RAD 120. Radiologic Technology I. (3-2-4); I. Prerequisites: RAD 110 or permission of instructor. Introduction to the production and control of ionizing radiation used in medical diagnosis with main emphasis placed upon the x-ray tube. Study of techniques used to process x-ray film.

RAD 130. Clinical Internship I. (0-40-10); II. Prerequisites: RAD 110, 120, or permission of instructor. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist.

RAD 131. Special Problems—Nursing Procedures. (2-0-2); II. Prerequisites: taken concurrently with RAD 130 or instructor's permission. Nursing procedures and techniques used in the general care of the patient while in the radiology department, emphasizing the role of the radiologic technologist in various nursing situations.

RAD 210. Radiographic Anatomy and Positioning II. (2-2-3); III. Prerequisites: RAD 110 or permission of instructor. Continuation of RAD 110, emphasizing the digestive, urinary, respiratory, circulatory, muscular, nervous, reproductive, and endocrine systems. Emphasis on routine positions demonstrating the various visceral structures.

RAD 220. Radiographic Anatomy and Positioning III. (2-2-3); III. Prerequisite: RAD 210 or permission of instructor. Continuation of RAD 210, emphasizing anatomy and positioning of the skull, sinuses, facial bones, orbits, mastoids, cervical spine, thoracic spine, and lumbar spine.

RAD 230. Clinical Internship II. (0-40-10); I. Prerequisites: RAD 210, 220 or permission of instructor. Continuation of RAD 130.

RAD 231. Special Problems—Radiographic Quality. (2-0-2); I. Prerequisites: RAD 220 and must be taken concurrently with RAD 230. Radiographic examinations that have been performed by the students and staff will be discussed and evaluated. This evaluation will include technical quality and pathologic processes.

RAD 240. Radiologic Technology II. (3-0-3); II. Prerequisite: RAD 120 or permission of instructor. Continuation of the factors which control x-radiation and radiographic quality and techniques required to keep a radiology department performing efficiently.

RAD 250. Radiation Physics and Electronics. (3-0-3); II. Prerequisites: RAD 120 or permission of instructor. Deals with the production of radiation, including all physical phenomena involved. Radiation safety measures will also be stressed.

RAD 260. Advanced Radiographic Procedures. (3-0-3); II. Prerequisites: RAD 220 or permission of instructor. Material will include all those radiographic examinations termed "Special procedures or non-routine" examinations.

RAD 330. Clinical Internship III. (0-40-10); III. Prerequisite: RAD 230 or permission of instructor. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist.

RAD 331. Seminar of Radiologic Pathology. (1-0-1); III. Prerequisite: must be taken concurrently with RAD 330 or permission of instructor. Nature and cause of disease, changes that occur in disease and trauma and their application to radiologic technology. Each student will present a paper on a pathological condition and will give this condition in the form of a case study.

RAD 340. Clinical Internship IV. (0-40-10); III. Prerequisite: RAD 330 or permission of instructor. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist.

VETERINARY TECHNOLOGY

VET 102. Introduction to Veterinary Technology. (2-3-3); I. Prerequisite: acceptance into veterinary technology program. A course designed to acquaint the student with the profession of veterinary medicine, professional ethics, jurisprudence, and medical terminology. Also basic clinical tasks will be covered in the laboratory.

VET 105. Anatomy of Domestic Animals. (2-2-3); I. Prerequisite: acceptance into veterinary technology program. A study of the normal anatomy of domestic animals by systems, using the domestic dog as the dissection specimen.

VET 106. Animal Science and Breeds Identification. (2-2-3); I. Prerequisite: acceptance into veterinary technology program. An introduction to animal care for large and small animals as it relates to the practice of veterinary medicine, including practical nutrition, animal breeding, animal products, animal shelter, genetics, and conformation. Also the different breeds within each species will be studied.

VET 107. Laboratory Techniques I. (2-2-3); I. Prerequisite: acceptance into veterinary technology program. A study of the principles and practices of clinical pathology as they relate to the responsibilities of veterinary technicians. This course will focus on hematology and fecal examination.

VET 206. Physiology of Domestic Animals. (2-3-3); II. Prerequisite: VET 105. A course designed to acquaint the student with basic normal life processes and functions of the animal body.

VET 208. Laboratory Techniques II. (2-3-3); II. Prerequisite: VET 107. A continued study of clinical pathology. This course will cover urinalysis, chemical tests (blood, urine, and feces), serological testing, and semen evaluation.

VET 210. Parasitology and Entomology. (2-0-2); III. Prerequisite: VET 107. A study of the common external and internal parasites of domestic animals as to

classification, life cycles, pathogenesis, and control. Control measures, sanitation measures, and control of intermediate hosts are emphasized.

VET 215. Clinical Practices I. (1-3-2); II. Prerequisite: VET 102. A course designed to acquaint the student with the essential clinical tasks related to handling, care, and treatment of small animals and laboratory procedures will be emphasized.

VET 220. Clinic Rotation I. (0-6-1); II. Prerequisite: completion of all previous veterinary technology courses. Planned clinical experience to help upgrade technical competence. It will consist of a minimum of 90 hours of on-the-job experience to be arranged by program instructors and the student.

VET 221. Clinic Rotation II. (0-6-1); III. Prerequisite: VET 220. Planned clinical experience to help upgrade technical competence. It will consist of a minimum of 90 hours of on-the-job experience to be arranged by program instructors and the student.

VET 222. Clinic Rotation III. (0-6-1); III. Prerequisite: VET 221. Planned clinical experience to help upgrade technical competence. It will consist of a minimum of 90 hours of on-the-job experience to be arranged by program instructors and the student.

VET 223. Clinic Rotation IV. (0-6-1); I. Prerequisite: VET 222. Planned clinical experience to help upgrade technical competence. It will consist of a minimum of 90 hours of on-the-job experience to be arranged by program instructors and the student.

VET 308. Laboratory Techniques III. (2-2-3); III. Prerequisite: VET 208. A continued study of clinical pathology. This course will include bacteriology, bone marrow smears, various cytological preparations, and a review of laboratory techniques taught previously.

VET 315. Clinical Practices II. (1-3-2); I. Prerequisite: VET 215. A course designed to acquaint the student with the essential clinical tasks related to handling, care, and treatment of large animals in a clinical situation. Regulatory requirements for the movement of livestock, mastitis control programs, the performance of necropsies and principles of meat inspection are studied.

VET 333. Small Animal Diseases and Nutrition. (2-0-2); III. Prerequisite: VET 206. Corequisite: VET 308. A study of canine and feline diseases with emphasis on zoonosis, client education, and nutritional support of diseased animals.

VET 339. Pharmacology for the Veterinary Technician. (2-2-3); III. Prerequisite: VET 105. The study of pharmacology designed to acquaint the student with the basics of drugs used in current veterinary medicine. Emphasis is on classification of drugs based on effect and therapeutic usage, source of drug, standards and regulations, weights and measures, conversions, labeling, and pharmacy maintenance. Anesthetic drugs and principles of anesthesiology will be emphasized in the laboratory.

VET 340. Radiology. (2-3-3); II. Prerequisite: VET 102. Principles concerning techniques in radiology and safety are confirmed through repeated laboratory exercises. Instructional emphasis in radiological patients, exposed films, and process exposed radiographs of diagnostic value.

VET 346. Large Animal Diseases and Nutrition. (3-0-3); I. Prerequisites: VET 106, 206, and 308. A study of the diseases of large animals with emphasis on disease control, zoonosis, and nutritional support of diseased animals. Included are the equine, bovine, porcine, ovine, and caprine species.

VET 350. Laboratory Animal Medicine. (2-0-2); I. Prerequisites: VET 206 and VET 215. A study of the technical clinical aspects of laboratory animal care, including restraint and handling, common diseases, and nutrition. This course will help the student prepare for the American Association for Laboratory Animal Science (AALAS) provisional certification examination. Species studied will include rabbits, rats, mice, guinea pigs, hamsters, and primates.

Home Economics

The Department of Home Economics offers the following programs:

1. A Bachelor of Science degree with areas of concentration in:

- A. Clothing and Textiles, with options in:
 - (1) Design
 - (2) Fashion Merchandising
 - (3) Textile Technology
- B. General Dietetics
- C. Interior Design
- D. Vocational Home Economics Education

2. A Bachelor of Science degree with a major in the following:

- A. Food Service Administration
- B. General Home Economics

3. A minor in the following;

- A. Food Service Administration
- B. General Home Economics
- C. Interior Decoration

4. A two-year Associate of Applied Science degree in the following:

- A. Fashion Merchandising
- B. Food Service Technology
- C. Interior Decoration

*Requirements and Suggested Course Sequence***1.A. Bachelor of Science degree with an Area of Concentration in Clothing and Textiles**

This curriculum prepares individuals preparing to enter careers in retailing or industry such as fashion merchandising, textile technology, or costume design. Students may take curriculum of selected courses from home economics and related fields of study.

	Sem. Hrs.
Required Courses in Home Economics	38
HEC 240—Textiles	3
HEC 141—Basic Clothing Construction	3
HEC 241—Advanced Clothing Problems	3
HEC 344—Historic Costume	3
OR	
HEC 480—Historic Textiles	3
HEC 340—Textile Testing	2
HEC 130—Elementary Foods	3
HEC 453—Marriage and Family Living	3
HEC 451—Home Furnishings	3
HEC 341—Flat Pattern Design	2
OR	
HEC 545—Clothing Design in Draping	3
HEC 362—Consumer Education	3
HEC 303—Health of the Family	3
HEC 541—Tailoring	3
HEC 471—Seminar	1
HEC 542—Social-Psychological Aspects of Clothing and Textiles	3
Approved Electives in Option	12
(See available options below)	
Additional Requirements	15
SCI—Science electives	5
ART 291—Color and Design	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
BIOL 331—Human Anatomy	3

Options**(1) Design**

ART 101—Drawing I	3
ART 202—Composition and Drawing	3
ART 204—Figure Drawing I	3
ART 241—Crafts I	3
ART 365—Arts of the United States I	3
ART 555—Advanced Art Problems	1-6
HEC 251—Household Equipment or approved elective	3
HEC 343—Household Textiles	3
HEC 346—Fashion Fundamentals	3
HEC 351—Housing	3
HEC 557—Interior Decoration Projects	3
IET 102—Graphic Arts I	3
IET 103—Technical Drawing I	3
IET 305—Housing	3

(2) Fashion Merchandising

MNGT 160—Introduction to Business	3
MKT 350—Salesmanship	3
MKT 451—Retail Merchandising	3
OADM 136—Business Calculations	3
OADM 211—Beginning Typewriting	3
OADM 212—Intermediate Typewriting	3
OADM 290—Office Accounting	3

ECON 201—Principles of Economics I	3
MKT 304—Marketing	3
HEC 346—Fashion Fundamentals	3
HEC 343—Household Textiles	3
MNGT 461—Business Law I	3
MKT 450—Consumer Behavior	3
OADM 221—Business Communications	3

(3) Textile Technology

HEC 343—Household Textiles	3
HEC 543—Advanced Textile Testing	3
HEC 544—Dyes and Finishes	3
Approved science electives	3

Suggested Course Sequence

	Sem. Hrs.
FRESHMAN YEAR	
First Semester	15
ENG 101—Composition I	
OR	
ENG 103—Composition III	3
ART 291—Color and Design	3
HEC 240—Textiles	3
Natural science elective	3
Mathematics elective	3
Second Semester	16
ENG 102—Composition II or	
ENG 192—Technical Composition	3
HEC 141—Basic Clothing Construction	3
Natural science elective	3
Humanities elective	3
PHED—Activity course	1
HLTH 150—Personal Health	3
SOPHOMORE YEAR	
First Semester	16
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
Literature elective	3
HEC 241—Advanced Clothing Problems	3
Social science elective	3
Speech elective	3
Second Semester	15
HEC 344—Historic Costume	
OR	
HEC 480—Historic Textiles	3
HEC 340—Textiles Testing	3
HEC 130—Elementary Foods	3
Social science elective	3
Natural science elective	3
JUNIOR YEAR	
First Semester	15
HEC 453—Marriage and Family Living	3
HEC 451—Home Furnishings	3
BIOL 331—Human Anatomy	3
HEC—Home Economics Option	3
Social and behavioral sciences elective	3
Second Semester	18
HEC 341—Flat Pattern Design	
OR	
HEC 545—Clothing Design in Draping	3
HEC 362—Consumer Education	3
Social and behavioral sciences elective	3
General electives	9
SENIOR YEAR	
First Semester	17
HEC 303—Health of the Family	3
HEC 541—Tailoring	3
HEC—Home Economics Option	6
General electives	5
Second Semester	16
HEC 471—Seminar	1
HEC 542—Social & Psychological Aspects of Clothing and Textiles	3
HEC—Home economics option	3
General electives	9
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1.B. Bachelor of Science degree with an Area of Concentration in General Dietetics

Students who complete the general dietetics area are eligi-

ble to apply for dietetic internship or traineeship in order to complete their training to become Registered Dietitians. Dietitians may work in hospitals, university food service, research, college teaching, or as consultants.

	Sem. Hrs.
Required Courses in Home Economics	46
HEC 120—Food for Man	3
HEC 130—Elementary Foods	3
HEC 231—Meal Management	3
HEC 232—Food Sanitation and Safety	3
HEC 329—Human Nutrition	3
HEC 330—Quantity Food Purchasing	3
HEC 331—Organization and Administration of Food Service I	3
HEC 334—Quantity Food Preparation	3
HEC 335—Food Service Equipment	3
HEC 336—Organization and Administration of Food Service II	3
HEC 337—Advanced Food Production Management	3
HEC 432—Current Problems in the Diet Therapy	3
HEC 433—Diet Therapy	3
HEC 529—Child Growth and Nutrition	3
HEC 536—Advanced Nutrition	3
HEC 139, 239, 339, or 439—Cooperative Education	4
Additional Requirements	46
SOC 101—General Sociology	3
ENG 192—Technical Composition	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
PSY 154—Introduction to Psychology	3
MATH 131—General Mathematics I	OR
MATH 152—College Algebra	3
ECON 101—Introduction to American Economy	OR
ECON 201—Principles of Economics I	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
SPCH 110—Basic Speech	3
BIOL 332—Human Physiology	3
CHEM 326, 326A—Organic Chemistry I and Laboratory	4
BIOL 217—Elementary Medical Microbiology	OR
BIOL 317—Principles of Microbiology	3
CHEM 595—Biochemistry I	4
PSY 589—Psychology of Learning	3
SOC—Approved sociology elective	3

Suggested Course Sequence

FRESHMAN YEAR

First Semester	15
SCI 103—Introduction to Physical Science	3
HEC 130—Elementary Foods	3
HEC 232—Food Sanitation and Safety	3
ENG 101—Composition I	3
SOC 101—General Sociology	3
Second Semester	16
HEC 231—Meal Management	3
ENG 192—Technical Composition	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
BIOL 105—Introduction to Biological Science	3
MATH 131—General Mathematics	OR
MATH 152—College Algebra	3

SOPHOMORE YEAR

First Semester	16
HEC 331—Organization and Administration of Food Service I	3
ECON 101—Introduction to American Economy	OR
ECON 201—Principles of Economics I	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
SPCH 110—Basic Speech	3
PSY 154—Introduction to Psychology	3
Second Semester	15
HEC 329—Human Nutrition	3
HEC 334—Quantity Food Preparation	3
BIOL 332—Human Physiology	3
HEC 336—Organization and Administration of Food Service II	3
Social and behavioral science elective	3

JUNIOR YEAR

First Semester	16
HEC 337—Advanced Food Production Management	3
CHEM 326, 326A—Organic Chemistry I and Laboratory	4
Communications and humanities elective	3
General electives	6
Second Semester	15
SOC—Sociology elective	3
HEC 432—Current Problems in Diet Therapy	3
HEC 433—Diet Therapy	3
BIOL 317—Principles of Microbiology	3
Electives	3

SENIOR YEAR

First Semester	16
HEC 330—Quantity Food Purchasing	3
Literature elective	3
HEC 536—Advanced Nutrition	3
CHEM 595—Biochemistry I	4
General electives	3
Second Semester	15
HEC 335—Food Service Equipment	3
HEC 529—Child Growth and Nutrition	3
PSY 589—Psychology of Learning	3
HLTH 150—Personal Health	3
General elective	2
PHED—Activity course	1
HEC 139, 239, 339, or 439—Cooperative Education	4
(Taken any summer semester)	128

1.C. Bachelor of Science degree with an Area of Concentration in Interior Design

Graduates of the interior design area will be prepared to work as interior designers in interior design studios, retail or office furnishings stores, architectural firms, industry, institutions, or self-owned businesses.

	Sem. Hrs.
Required Courses in Home Economics	53
HEC 103—Interior Graphics I	3
HEC 104—Interior Graphics II	3
HEC 240—Textiles	3
HEC 252—Problems in Interior Design	3
HEC 270—Materials, Techniques and Design	3
HEC 280—Introduction to Interior Design	3
HEC 343—Household Textiles	3
HEC 350—Merchandise Display and Promotion I	3
HEC 351—Housing	3
HEC 362—Consumer Education	3
HEC 370—Residential Interior Design, Studio I	3
HEC 375—Commercial Interior Design, Studio II	3
HEC 381—History of Interiors I	3
HEC 382—History of Interiors II	3
HEC 460—Merchandise Display and Promotion II	3
HEC 440—Interior Design Studio III	OR
HEC 339—Cooperative Education	OR
HEC 332—Field Experience in Home Economics	3 or 4
HEC 445—Interior Design Studio IV	OR
HEC 439—Cooperative Education	OR
HEC 332—Field Experience in Home Economics	3 or 4
Additional Requirements	31
ART 101—Drawing I	3
ART 291—Color and Design	3
ART 564—Modern and Contemporary Art	3
ART 365—Arts of the United States	3
HIS 131—Introduction to Civilization I	3
HIS 132—Introduction to Civilization II	3
MATH 135—Mathematics for Technical Students	3
PDI 100—Personal Development Institute	1
PHYS 250—Light, Color, Cameras, and Perception	3
OADM 221—Business Communication	3
MKT 350—Salesmanship	3

Suggested Course Sequence

FRESHMAN YEAR

First Semester	17
HEC elective	1

HEC 103—Interior Graphics I	3
ART 291—Color and Design	3
ENG 101—English Composition I	3
MATH 135—Mathematics for Technical Students	3
SOC—Sociology elective	3
Physical Education	1
Second Semester	16
ART 101—Drawing I	3
HEC 104—Interior Graphics II	3
ENG 192—Technical Composition	3
HIS 131—Introduction to Civilization I	3
PSY 154—Introduction to Psychology	3
PDI 100—Personal Development Institute	1
SOPHOMORE YEAR	
First Semester	18
HIS 132—Introduction to Civilization II	3
BIOL 105—Introduction to Biological Sciences	3
PHYS 250—Light, Color, Cameras and Perception	3
HEC 351—Housing	3
BIOG—Biology elective	3
ENG—Literature elective	3
HLTH—Health elective	3
Second Semester	18
HEC 270—Materials, Techniques, and Design	3
OADM 221—Business Communications	3
HEC 240—Textiles	3
HEC 280—Introduction to Interior Design	3
HEC 252—Problems in Interior Design	3
SPCH—Speech elective	3
JUNIOR YEAR	
First Semester	18
SPCH 110—Basic Speech	3
HEC 343—Household Textiles	3
HEC 370—Residential Interior Design Studio I	3
HEC 381—History of Interiors I	3
MKT 350—Salesmanship	3
Humanities elective—Category C	3
Second Semester	18
HEC 382—History of Interiors II	3
HEC 375—Commercial Interior Design Studio II	3
ART 365—Arts of the U.S.	3
DATA 201—Introduction to Computers	3
HLTH 150—Personal Health	3
Government or geography elective	3
SENIOR YEAR	
First Semester	15
HEC 350—Merchandise Display and Promotion I	3
HEC 362—Consumer Education	3
ART 564—Modern and Contemporary Art	3
HEC 440—Interior Design Studio III	
OR	
HEC 339—Cooperative Education	
OR	
HEC 332—Field Experience in Home Economics	4
Elective	2
Second Semester	14
HEC 460—Merchandise Display and Promotion II	3
PSY 555—Environmental Psychology	3
Electives	4
HEC 445—Interior Design Studio IV	
OR	
HEC 439—Cooperative Education	
OR	
HEC 332—Field Experience in Home Economics	4

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1.D. Bachelor of Science degree with an Area of Concentration in Vocational Home Economics Education

The broad-based program requires a balance in all areas of home economics and supporting courses in art, science, and general education. This program is designed and approved for students to qualify to teach vocational home economics in junior and senior high school. In addition, the student must complete 1,000 hours of useful and gainful work experience in order to qualify for a vocational teaching certificate.

	Sem. Hrs.
Required Courses in Home Economics	48
HEC 130—Elementary Foods	3
HEC 141—Basic Clothing Construction	3
HEC 240—Textiles	3
HEC 329—Human Nutrition or equivalent	3
HEC 351—Housing	3
HEC 355—Child Development	3
HEC 356—Nursery School	3
HEC 362—Consumer Education	3
HEC 451—Home Furnishings	3
HEC 453—Marriage and Family Living	3
HEC 454—Supervised Home Management Experiences	4
HEC Electives	14
Additional Requirements	28
HEC 470—Methods of Teaching Home Economics	3
HEC 573—Curriculum Development in Home Economics	3
EDSE 209—Foundations of Secondary Education	2
EDSE 310—Principles of Adolescent Development	3
EDSE 477—Professional Semester*	17
1,000 Hours Work Experience	

*The professional semester will immediately follow HEC 470 and HEC 573.

Suggested Course Sequence

	Sem. Hrs.
FRESHMAN YEAR	
First Semester	15
ENG 101—Composition I	3
HEC 130—Elementary Foods	3
Home economics elective	3
SCI 103—Introduction to Physical Sciences	3
SPCH 110—Basic Speech	3
Second Semester	18
ENG 102—Composition II	3
HEC 141—Basic Clothing Construction	3
HEC 240—Textiles	3
Math elective	3
SCI 105—Introduction to Biological Sciences	3
Social and behavioral sciences elective	3
SOPHOMORE YEAR	
First Semester	15
HEC 355—Child Development	3
Health elective	3
ECON 101—Introduction to American Economy	3
FNA 169—Fine Arts	3
PSY 154—Introduction to Psychology	3
Second Semester	17
EDSE 209—Foundations of Secondary Education	2
Home economics electives	6
HEC 231—Meal Management	3
HEC 356—Nursery School	3
ENG 202—Introduction to Literature	3
Social science electives	3
JUNIOR YEAR	
First Semester	15
HEC 362—Consumer Education	3
HEC 453—Marriage and Family Living	3
PHIL 200—Introduction to Philosophy	
OR	
DATA 201—Introduction to Computers	3
EDSE 310—Principles of Adolescent Development	3
Home economics elective	2
General elective	1
Second Semester	16
HEC 329—Human Nutrition	3
Social and behavioral sciences elective	3
HEC 351—Housing	3
HEC 454—Supervised Home Management Experiences	4
General elective	3
SENIOR YEAR	
First Semester	15
HEC 451—Home Furnishings	3
HEC 470—Methods in Teaching Vocational Home Economics	3
HEC 573—Curriculum Development in Home Economics	3
General electives	6
Second Semester	17
EDSE 477—Professional Semester	17

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2.A. Bachelor of Science degree with a Major in Food Service Administration

The major in food service administration prepares graduates for the commercial food service field. It provides business and management background for the restaurant industry. A minor in some aspects of business is an excellent complement for this major.

	Sem. Hrs.
Required Courses in Home Economics	43
HEC 130—Elementary Foods	3
HEC 132—Introduction to Food Service	3
HEC 136—Introduction to Restaurant Management	3
HEC 232—Food Sanitation and Safety	3
HEC 320—Elements of Nutrition	3
OR	
HEC 329—Human Nutrition	3
HEC 330—Quantity Food Purchasing	3
HEC 331—Organization and Administration of Food Service I	3
HEC 334—Quantity Food Preparation	3
HEC 335—Food Service Equipment	3
HEC 336—Organization and Administration of Food Service II	3
HEC 337—Advanced Food Production Management	3
HEC 139, 239, 339, or 439—Cooperative Education	4
Approved home economics electives	6
Additional requirements	9
ENG 192—Technical Composition	3
SPCH 110—Basic Speech	3
ART 160—Appreciation of Fine Arts	3

Suggested Course Sequence

FRESHMAN	Sem. Hrs.
First Semester	16
HEC 130—Elementary Foods	3
HEC 132—Introduction to Food Service	3
HEC 232—Food Sanitation and Safety	3
ENG 101—Composition I	3
PHED 150—Personal Health	3
PHED—Activity course	1
Second Semester	15
ENG 192—Technical Composition	3
HEC 136—Introduction to Restaurant Management	3
SCI—Physical Sciences elective	3
MATH 135—Mathematics for Technical Students	3
Minor elective	3
SOPHOMORE YEAR	
First Semester	15
HEC 331—Organization and Administration of Food Service I	3
HEC 334—Quantity Food Preparation	3
SPCH 110—Basic Speech	3
ECON 101—Introduction to American Economy	3
OR	
ECON 201—Principles of Economics I	3
Minor elective	3
Second Semester	15
HEC 336—Organization and Administration of Food Service II	3
HEC 337—Advanced Food Production	3
HEC—Home economics elective	3
Social and behavioral sciences elective	3
Minor elective	3
JUNIOR YEAR	
First Semester	15
HEC—Home economics elective	3
ART 160—Appreciation of Fine Arts	3
BIOL—Biological science elective	3
SOC/PSY—Sociology/psychology elective	3
Minor elective	3
Second Semester	17
HEC 329—Human Nutrition	3
GOVT—Government/geography elective	3
General electives	8
Minor elective	3
SENIOR YEAR	
First Semester	17
HEC 330—Quantity Food Purchasing	3
Natural and mathematical sciences elective	3
ENG—Literature elective	3
General elective	2
Minor electives	6

Second Semester	14
HEC 335—Food Service Equipment	3
General electives	8
Minor electives	3
HEC 139, 239, 339, or 449—Cooperative Education	4
(Taken any summer or semester)	128

2.B. Bachelor of Science degree with a Major in General Home Economics

Students who have an interest in all aspects of home economics with no interest in specialization will find meaning in this general program. Electives can serve to tailor the degree requirements to meet personal goals. Employment opportunities are dependent upon individual capabilities.

	Sem. Hrs.
Required Courses	30
HEC 130—Elementary Foods	3
HEC 141—Basic Clothing Construction	3
HEC 251—Household Equipment or approved elective	3
HEC 329—Human Nutrition or approved elective	3
HEC 355—Child Growth and Development	3
HEC 362—Consumer Education	3
HEC 453—Marriage and Family Living	3
HEC 471—Seminar	1
Approved home economics electives	8

Suggested Course Sequence

FRESHMAN YEAR	
First Semester	15
ENG 101—Composition I	3
HEC 130—Elementary Foods	3
HEC 251—Household Equipment	3
OR	
Approved elective	3
Math elective	3
SPCH 110—Basic Speech	3
Second Semester	16
ENG 102—Composition II	3
HEC 141—Basic Clothing Construction	3
Natural and mathematical sciences elective	3
Social and behavioral sciences elective	3
General elective	3
PHED—activity course	1
SOPHOMORE YEAR	
First Semester	15
Literature elective	3
HLTH 150—Personal Health	3
Social and behavioral sciences elective	3
General elective	3
Home economics elective	3
Second Semester	15
Communications and humanities elective	3
General electives	6
Natural and mathematical sciences elective	3
Home economics elective	3
JUNIOR YEAR	
First Semester	18
HEC 355—Child Growth and Development	3
General elective	3
Social and behavioral sciences electives	6
Home economics elective	3
HEC 362—Consumer Education	3
Second Semester	16
FNA 160—Appreciation of Fine Arts	3
General electives	7
Home economics elective	3
HEC 329—Human Nutrition	3
OR	
Approved elective	3
SENIOR YEAR	
First Semester	18
HEC 453—Marriage and Family Living	3
General electives (300-500 level)	12
DATA 201—Introduction to Computers	3
Second Semester	16
HEC 471—Seminar	1
General electives (300-500 level)	15
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3.A. Minor in Food Service Administration

Students who major in business or other related fields may choose the minor to enhance their understanding of food preparation, service, and management.

	Sem. Hrs.
Required Courses	27
HEC 130—Elementary Foods	3
HEC 136—Introduction to Restaurant Management	3
HEC 232—Food Sanitation and Safety	3
HEC 330—Quantity Food Purchasing	3
HEC 331—Organization and Administration of Food Service I	3
HEC 334—Quantity Food Preparation	3
HEC 335—Food Service Equipment	3
HEC 336—Organization and Administration of Food Service II	3
HEC 337—Advanced Food Production Management	3

3.B. Minor in General Home Economics

The minor in general home economics is representative of the various subject matter areas in home economics. The program is helpful in providing skills to improve quality of life.

	Sem. Hrs.
Required Classes	21
HEC 130—Elementary Foods	3
HEC 362—Consumer Education	3
HEC 329—Human Nutrition	3
HEC 453—Marriage and Family Living	3
HEC 141—Basic Clothing Construction	3
OR	
HEC 380—Clothing for Consumers	3
Approved home economics electives	6

3.C. Minor in Interior Decoration

A minor in interior decoration is offered to be combined with majors from many disciplines. It is particularly desirable for, but not limited to, majors in art, business, vocational home economics, and clothing and textiles.

	Sem. Hrs.
Required Courses	21
HEC 103—Interior Graphics I	3
HEC 240—Textiles	3
HEC 351—Housing	3
HEC 252—Problems in Interior Design	3
HEC 280—Introduction to Interior Design	3
HEC 382—History of Interiors II	3
HEC 370—Residential Interior Design	3

4.A. Associate of Applied Science degree in Fashion Merchandising

The two-year associate degree program in fashion merchandising prepares students for employment by retail stores and manufacturers of clothing and textile products. Career positions include buyer, assistant buyer, fashion coordinator, bridal consultant, comparison shopper, and fashion consultant. Many prefer to operate self-owned businesses.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	16
HEC 141—Basic Clothing Construction	3
HEC 240—Textiles	3
ART 101—Drawing I	3
ART 291—Color and Design	3
ENG 101—Composition I	3
PDI 100—Personal Development	1
Second Semester	16
HEC 241—Advanced Clothing Problems	3
OADM 221—Business Communications	3
ENG 102—Composition II	3
SPCH 110—Basic Speech	3
FNA 160—Appreciation of Fine Arts	3
General elective	1
Summer work experience (Cooperative Education)	4
Third Semester	15
HEC 343—Household Textiles	3

HEC 346—Fashion Fundamentals	3
MKT 350—Salesmanship	3
JOUR 364—Feature Writing	3
HEC 350—Merchandise Display and Promotion I	3
Fourth Semester	15
HEC 344—Historic Costume	3
JOUR 383—Principles of Advertising	3
HEC 380—Clothing for Consumers	3
HEC—Home economics elective	3
ECON 201—Principles of Economics I	3
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4.B. Associate of Applied Science degree in Food Service Technology

The associate degree program in food service technology is designed to prepare students for careers in the management and supervision of commercial food service areas of hotels, motels, cafeterias, schools, hospitals, airlines, and in commercial food processing. Course work and practical experience are included in management, supervision, purchasing and quantity cooking, as well as courses in the supporting sciences.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	15
HEC 130—Elementary Foods	3
HEC 132—Introduction to Food Service	3
HEC 232—Food Sanitation and Safety	3
ENG 101—Composition I	3
PSY 154—Introduction to Psychology	3
OR	
ECON 101—Introduction to American Economy	3
Second Semester	15
ENG 192—Technical Composition	3
MATH 131—General Mathematics	3
HEC 136—Introduction to Restaurant Management	3
HEC 231—Meal Management	3
MNGT 311—Principles of Personnel Management	3
Summer Session	4
HEC 139, 239, 339, or 439—Cooperative Study	4
Third Semester	15
SPCH 110—Basic Speech	3
HEC 330—Quantity Food Purchasing	3
HEC 331—Organization and Administration of Food Service I	3
HEC 334—Quantity Food Preparation	3
HEC 320—Elements of Nutrition	3
Fourth Semester	15
General Electives	3
HEC 335—Food Service Equipment	3
HEC 336—Organization and Administration of Food Service II	3
HEC 337—Advanced Food Production Management	3
HLTH 150—Personal Health	3
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4.C. Associate of Applied Science degree in Interior Decoration

The two-year associate degree program in interior decoration prepares students for pre-professional employment as assistants and technicians working in conjunction with experienced designers, or in retail sales.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	16
HEC Elective	1
HEC 103—Interior Graphics I	3
ENG 101—English Composition I	3
MATH 135—Mathematics for Technical Students	3
OADM 290—Office Accounting	3
ART 291—Color and Design	3
Second Semester	18
HEC 104—Interior Graphics II	3
ART 101—Drawing I	3
ENG 192—Technical Composition	3

HEC 252—Problems in Interior Design	3
HEC 270—Materials, Techniques, and Design	3
HEC 280—Introduction to Interior Design	3
Third Semester	18
ECON 101—Introduction to American Economy	3
HEC 370—Residential Interior Design Studio I	3
HEC 351—Housing	3
HEC 343—Household Textiles	3
HEC 381—History of Interiors I	3
HEC 350—Merchandise Display and Promotion I	3
Fourth Semester	18
DATA 201—Introduction to Computers	3
OADM 221—Business Communications	3
HEC 382—History of Interiors II	3
HEC 240—Textiles	3
MKT 350—Salesmanship	3
ART 365—Arts of the United States	3
Summer School	4
HEC 139—Cooperative Education	
OR	
HEC 239—Cooperative Education	
OR	
HEC 332—Field Experience in Home Economics	4

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Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

HOME ECONOMICS

HEC 103. Interior Graphics I. (1-4-3); I. Principles and techniques of drafting. Communication of design ideas by graphic representation with emphasis on the drawing of interior products.

HEC 104. Interior Graphics II. (1-4-3); II. Prerequisite: HEC 103. Continuation of previous drafting course, giving broader depth and scope to skills and knowledge in graphic representation. New techniques and shortcuts introduced. Covers a variety of paraline and perspective drawing methods.

HEC 120. Food for Man. (3-0-3); on demand. Provides an insight into the realities of nutrition and food supply as well as the benefits of a varied diet which is sound nutrition. Utilization of technology to produce, distribute, and feed the current population of the world. Lecture.

HEC 130. Elementary Foods. (1-4-3); I, II. Study of factors affecting nutrient content; basic preparations of food for optimum nutrition, flavor, and appearance.

HEC 132. Introduction to Food Service. (2-2-3); I. A study of general and unique food management problems for the nursing home, hospital, school lunch, college or residence hall, cafeteria, restaurant, industrial unit, and food vending operations for which students may be responsible. Observation of various facilities will supplement laboratory work.

HEC 136. Introduction to Restaurant Management. (2-2-3); II. An introduction to the basic principles and techniques of commercial restaurant management. Lecture and laboratory.

HEC 141. Basic Clothing Construction. (1-4-3); I, II. Relationship and manipulation of patterns and fabrics; fundamentals of clothing construction; selection, use, and care of sewing equipment.

HEC 220. Nutrition for Nurses. (3-0-3); I, II. Dynamic approach to basic nutrition; food choices for meeting the needs of individuals throughout the life cycle under varying economic, social, and cultural situations; nutrition problems related to health and therapeutic use of food; educational approach to presenting nutritional facts to others.

HEC 231. Meal Management. (2-2-3); II. Prerequisite: HEC 130 or consent of instructor. Application of basic principles of management to buying, planning, preparing, and serving meals to meet family needs.

HEC 232. Food Sanitation and Safety. (3-0-3); I. Taught alternate years. Federal, state, and local regulations regarding sanitary and safety controls as they relate to food service; identification of sources of food-borne diseases and methods of prevention and control; principles of positive health and personal hygiene and safety involved in food handling; emphasis is placed on practical application in food service institutions.

HEC 240. Textiles. (3-0-3); I, II. Textiles from raw materials to finished products as related to use and care of fabrics. Simple laboratory tests on identification and behavior of textiles.

HEC 241. Advanced Clothing Problems. (1-4-3); I, II. Prerequisite: HEC 141 or consent of instructor. Advanced construction and simple tailoring. New and creative techniques.

HEC 251. Household Equipment. (3-0-3); on demand. Principles and practical experience relative to selection, use, and care of equipment and appliances for the home.

HEC 252. Problems in Interior Design. (2-2-3); II. 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.

HEC 270. Materials, Techniques, and Design. (2-2-3); II. Basic course in the characteristics, uses, and technology of wood, metals, glass, and plastics used in furniture construction. Design and construction of wood projects.

HEC 280. Introduction to Interior Design. (2-2-3); II. Prerequisite: HEC 103 or 104. Study of the principles and elements of design with emphasis on color and lighting. Study of furniture selection and arrangement.

HEC 303. Health of the Family. (3-0-3); I. Problems in maintenance of individual and family health; principles and techniques applicable to home care of the sick and injured.

HEC 320. Elements of Nutrition. (3-0-3); I, II. (Also HLTH 320.) Nutritional health of the individual related to food and metabolism; nutrition as a factor in personal and community health problems; guides for better nutrition practices.

HEC 329. Human Nutrition. (3-0-3); II. In-depth approach to nutrition. Application of nutrition principles to children, adults, and the aged. National and world nutrition problems.

HEC 330. Quantity Food Purchasing. (3-0-3); taught alternate years. Principles of marketing, sanitation, receiving, and storage of all food commodities for food service institutions.

HEC 331. Organization and Administration of Food Service I. (3-0-3); I. Taught alternate years. Prerequisite: HEC 136 or 231. Principles and problems of organization and administration as related to quality food service.

HEC 332. Field Experience in Home Economics. (1 to 4 hrs.); on demand. Field training in home economics arranged with consent and supervision of the instructor. Student is visited on the job.

HEC 334. Quantity Food Preparation. (1-6-3); I, II. Prerequisites: HEC 130, 136, or 231. Principles and techniques of quantity food preparation. Use of standardized recipes and institutional equipment.

HEC 335. Food Service Equipment. (3-0-3); II. Taught alternate years. Selection of equipment, layout, and design for quantity food service.

HEC 336. Organization and Administration of Food Service II. (3-0-3); II. Taught alternate years. Prerequisite: HEC 331. A continuation of the in-depth study of principles of management as applied to food service administration. Lecture.

HEC 337. Advanced Food Production Management. (1-6-3); I, II. Practical application of management principles for meal service and special functions.

HEC 340. Textile Testing. (0-4-2); on demand. Prerequisites: HEC 240, CHEM 102 and 102A. Study of textile fiber and fabric testing procedures. Individual research.

HEC 341. Flat Pattern Design. (0-4-2); II. Prerequisites: HEC 241 or consent of instructor. Pattern making and fitting using original designs by the students. Taught alternate years.

HEC 343. Household Textiles. (2-2-3); I. Prerequisite: HEC 240. Selection, cost, care, standards, and testing of textiles used in the home.

HEC 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.

HEC 346. Fashion Fundamentals. (3-0-3); I. Organization and operation of the fashion world, the influence of designers, manufacturers, retailers, and mass media on apparel.

HEC 350. Merchandise Display and Promotion I. (2-2-3); I, II. Application of principles and practices in arranging and displaying merchandise for commercial and educational purposes; planning and executing actual window displays.

HEC 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.

HEC 355. Child Growth and Development. (1-4-3); I. Positive approach to child guidance. Behavioral characteristics in growth and development. Directed experiences in observation and working with pre-school children.

HEC 356. The Nursery School. (1-4-3); II. Prerequisite: HEC 355. The study of the organization and administration of pre-school programs; role of parent-hood education; supervised experiences in planning and guiding children's activities in a nursery school program.

HEC 362. Consumer Education. (3-0-3); I. Appraisal of all segments of consumer goods and services; use of credit, legislation, and controls affecting all phases of living. Consumer's role in changing patterns of consumption and the economy. Guidelines for decision making concerning consumer goods and services in family money management.

HEC 363. Management of Consumer Resources. (2-0-2); II. Provides guidelines for rational decision making as it relates to the family's resources, time, money, and energy.

HEC 370. Residential Interior Design, Studio I. (2-2-3); I. Prerequisite: HEC 280. 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, functional and economical design.

HEC 375. Commercial Interior Design, Studio II. (2-2-3); II. Prerequisite: HEC 280. Planning small commercial interiors from the client's approach with a problem to the final solution. Emphasis on economical and functional design, product research, analysis of needs, lighting design, acoustics.

HEC 380. **Clothing for Consumers.** (3-0-3); II. Quality, manufacturing techniques, art principles, care, consumer services, legislation, labeling, and social-psychological implications for the consumer of clothing. Principles of clothing selection for entire family.

HEC 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.

HEC 382. **History of Interiors II.** (3-0-3); II. A lecture course tracing the development of American furniture styles and interiors, the influence of architecture. Miscellaneous styles from other parts of the world are studied.

HEC 432. **Current Problems in Diet Therapy.** (3-0-3); II. Prerequisites: HEC 329 and BIOL 332. To be taken concurrently with HEC 433. Taught alternate years. Application of principles to diet therapy to nutritional care of persons. Lecture. Arranged.

HEC 433. **Diet Therapy.** (3-0-3); II. Prerequisites: HEC 329 and BIOL 332. Diet in disease; physiological basis for therapeutic diets; calculation and planning of diets for various problems. Taught alternate years.

HEC 434. **School Lunch Seminar.** (1 hr.); on demand. Techniques and problems related to the school lunch program.

HEC 440. **Interior Design Studio III.** (0-6-3); on demand. Prerequisite: HEC 370 and 375, senior standing. Advanced study of residential interior design. Research and design of homes in period style reproduction; design of custom contemporary home. Emphasis on sales and presentation techniques, business aspects.

HEC 445. **Interior Design Studio IV.** (0-6-3); on demand. Prerequisite: HEC 370 and 375, senior standing. Advanced study of commercial interior design. Study and design of large commercial establishments. Emphasis on business and sales aspects of interior design.

HEC 451. **Home Furnishings.** (1-4-3); I. Design principles applied to interiors; selection of furnishings and the design of floor plans.

HEC 453. **Marriage and Family Living.** (3-0-3); I. Includes the changing roles of husbands, wives, and parents; adjustments needed in marriage; and the functions of the family in society.

HEC 454. **Supervised Home Management Experiences.** (4 hrs.); on demand. Prerequisites: HEC 231 and 251. Supervised home management experience for one-half semester. Opportunities for assuming responsibility for making decisions and for applying principles of management in the use of time, energy, and money; social experience and group activities. Arrangements for residence must be made in advance.

HEC 460. **Merchandise Display and Promotion II.** (2-2-3); II. Prerequisite: HEC 350 or consent of instructor. Advanced theory and application of window display and interior store display with actual experience in designing, presenting, and executing displays.

HEC 470. **Methods of Teaching Vocational Home Economics.** (3-0-3); I. 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.

HEC 471. **Seminar.** (1-0-1); II. Identification of issues reflected in the current technical and professional literature, further understandings of the role and function of semi-professional and professional fields in home economics.

HEC 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.

HEC 480. **Historic Textiles.** (3-0-3); II. Historic background and characteristics of textile fibers, weaves, motifs, and colors from prehistoric to modern times. Taught alternate years.

HEC 529. **Child Growth and Nutrition.** (3-0-3); II. Selection, application, and evaluation of nutritional data concerned with infancy and child growth. Taught alternate years.

HEC 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.

HEC 536. **Advanced Nutrition.** (3-0-3); on demand. Prerequisite: HEC 329 or consent of instructor. In-depth study of the nutrients in relation to normal nutrition; review of classical and current literature; practical application of findings.

HEC 538. **Experimental Foods.** (1-4-3); on demand. Prerequisite: HEC 130 or consent of instructor. Experimental methods applied to food research through individual and class investigation; review and evaluation of published research.

HEC 541. **Tailoring.** (1-4-3); I. Prerequisites: HEC 241 or consent of instructor. Fitting and tailoring techniques in the construction of a tailored garment based upon individual problems. Required construction of a suit or coat.

HEC 542. **Social-Psychological Aspects of Clothing and Textiles.** (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.

HEC 543. **Advanced Textile Testing.** (1-4-3); on demand. Prerequisite: HEC 240. Advanced study of textile fibers and fabrics with emphasis on trends in wear and end-use testing.

HEC 544. **Dyes and Finishes.** (2-2-3); on demand. Prerequisite: HEC 340.

Types of dyes and finishes used currently on fibers and fabrics as they affect wear, care, and storage.

HEC 545. **Clothing Design in Draping.** (0-6-3); II. Prerequisite: HEC 241. Original garments created by draping on the dress form. Dress form will be constructed in the course. Taught alternate years.

HEC 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.

HEC 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.

HEC 573. **Curriculum Development in Home Economics.** (3-0-3); I. Prerequisite: HEC 470 or taken simultaneously with HEC 470. New development in the secondary and post-secondary programs; consideration of the consumer and homemaking curriculum and wage-earning home economics programs; a critical survey of resources; development of units and lesson plans.

HEC 590. **Creative Foods.** (1-4-3); I, II. The study and preparation of gourmet foods. Emphasis on foods from different cultural backgrounds and geographical regions. Arranged laboratories.

HEC 592. **Foods for Special Occasions.** (1-4-3); II. 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

The Department of Industrial Education and Technology offers the following programs:

1. **A Bachelor of Science degree with an area of concentration in industrial education, with options in**
 - A. Orientation/Exploration Levels* (Industrial Arts)
 - B. Preparation Level* (Vocational Trade and Industrial Education)
2. **A Bachelor of Science degree with an area of concentration in industrial technology, an emphasis in either science and math or business and economics, with options in**
 - A. Broadcast Technology
 - B. Construction Technology
 - C. Drafting and Design Technology
 - D. Electrical Technology
 - E. Electronics Technology
 - F. Graphic Arts Technology
 - G. Industrial Supervision and Management Technology
 - H. Machine Tool Technology
 - I. Plastics Technology
 - J. Power and Fluids Technology
 - K. Welding Technology
 - L. Woods Technology
3. **A Bachelor of Science degree with a major in industrial education (industrial arts) with an option in the orientation/exploration levels.**
4. **A Bachelor of Science degree with a major in industrial technology, with options in**
 - A. Broadcast Technology
 - B. Construction Technology
 - C. Drafting and Design Technology
 - D. Electrical Technology
 - E. Electronics Technology
 - F. Graphic Arts Technology
 - G. Industrial Supervision and Management Technology
 - H. Machine Tool Technology
 - I. Plastics Technology

- J. Power and Fluids Technology
- K. Welding Technology
- L. Woods Technology

5. A two-year Associate of Applied Science degree in the following

- A. Broadcast Technology
- B. Construction Technology
- C. Drafting and Design Technology
- D. Electrical Technology
- E. Electronics Technology
- F. Graphic Arts Technology
- G. Industrial Supervision and Management Technology
- H. Machine Tool Technology
- I. Power and Fluids Technology
- J. Industrial Education (Vocational Trade and Education)
- K. Welding Technology

Requirements and Suggested Course Sequence

1. A. Bachelor of Science degree with an Area of Concentration in Industrial Education with an Option in Orientation/Exploration Levels

This option is designed to prepare students to teach industrial education at the orientation/exploration levels in the public schools of Kentucky. A student must complete a minimum of 52 semester hours in industrial education and 25 semester hours of professional education courses.

	Sem. Hrs.
Required Courses in Industrial Education	52
IET—Technical Drawing	6
IET—Electricity-Electronics	6
IET—Graphic Arts	6
IET—Metals-Manufacturing	6
IET—Power and Fluids	6
IET—Woods-Construction	6
IET—Seminar	1
IET—Industrial Design	2
IET—Approved industrial education electives	10
IET—Supervised work experience	3
Industrial Teacher Education Requirements	25
IET 390—Principles of Industrial Education	3
IET 392—Technical Curriculum and Media Development	3
IET 475—Teaching Methods in Industrial Education—Orientation and Exploration Levels	3
EDSE 310—Principles of Adolescent Development	3
EDSE 410—Human Growth and Development	3
IET 478—Supervised Teaching Practicum	3
In Industrial Education—Orientation and Exploration Levels	8
IET 496—Organization and Management of the Laboratory	2

Suggested Course Sequence

	Sem. Hrs.
FRESHMAN YEAR	
First Semester	15
ENG 101—Composition I	3
IET 103—Technical Drawing I	3
CON 101—Introduction to Construction Technology	3
Math elective	3
IET 111—Basic Woods Techniques	3
Second Semester	17
ENG 192—Technical Composition	3
IET 203—Technical Drawing II	3
IET 211—Advanced Woods Techniques	3
SCI 105—Introduction to Biological Sciences	3
HLTH 203—Safety and First Aid	3
PHED—activity course	1
MATH 110—Problem-Solving Techniques	1
SOPHOMORE YEAR	
First Semester	16
ENG 202—Introduction to Literature	3
IET 240—Basic Electricity	3
IET 186—Manufacturing and Fabrication	3

DATA 201—Introduction to Computers	3
Electives	4
Second Semester	17
FNA 160—Appreciation of Fine Arts	3
SCI 103—Introduction to Physical Sciences	3
IET 286—General Metals II	3
PSY 154—Introduction to Psychology	3
IET 330—Industrial Design	2
General elective	3
JUNIOR YEAR	
First Semester	15
IET 102—Graphic Arts	3
IET 160—Introduction to Power and Fluids	3
IET 390—Principles of Industrial Education	3
Social science elective	3
IET 241—Basic Electronics	3
Second Semester	15
ECON 101—Introduction to American Economy	3
EDSE 310—Principles of Adolescent Development	3
SPCH 370—Business and Professional Speech	3
IET 261—Power Mechanics	3
IET 202—Graphics Arts II	3
Summer	
IET 398—Supervised Work Experience	3
SENIOR YEAR	
First Semester	14
IET 392—Technical Curriculum and Media Development	3
Approved technical electives	7
Social science electives	3
IET 571—Seminar	1
Second Semester	16
1st 8 weeks	
IET 475—Teaching Methods in Industrial Education	3
Orientation/Exploration Level	3
EDSE 410—Human Growth and Development	3
IET 496—Organization and Management of the Laboratory	2
2nd 8 weeks	
IET 478—Supervised Teaching Practicum	3
Orientation/Exploration Level	8
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1.B. Bachelor of Science degree with an Area of Concentration in Industrial Education with an Option in the Preparation Level

This program is designed primarily for the pre-service student who desires to teach trade and industrial education subjects at the preparation level. In addition to specific course requirements, a work experience component which consists of a minimum of 2,000 clock hours of supervised work experience is required in the teachable industrial occupation. The student may receive 9 hours of credit that counts in the specialization component, or have four years of occupational experience in the specific occupation to be taught. Individuals completing this program will receive a Provisional High School Certificate for teaching the specific occupational area stated on the face of the certificate. The certificate must be renewed at the end of a 10-year period.

I. Required Courses in Vocational Education-Industrial Education	52
IET 100—World of Technology	3
IET 320—Supervisory Practices	3
IET 364—Career and Vocational Guidance	3
IET 391—Trade and Technical Analysis	2
IET 422—Industrial Safety Standards and Enforcement	3
IET 571—Seminar	1
II. Vocational Education-Industrial Education courses in the specific occupational area to be taught	24
9 hours of supervised work experience may be counted toward the specific occupational area to be taught.	
III. Technical electives in vocational education-industrial education selected from the following areas: broadcasting technology, construction, drafting and design, electricity, electronics, graphic arts, machine tool, metals, plastics, power and fluids, welding, woods, mining, or radiologic technology	13
IV. Industrial Teacher Education Courses	25

IET 390—Principles of Industrial Education	3
IET 392—Technical Curriculum and Media Development	3
IET 393—Methods in Industrial Education	3
EDSE 310—Principles of Adolescent Development	3
EDSE 410—Human Growth and Development	3
IET 394—Student Teaching in Vocational Industrial Education or 401 Seminar	8
IET 496—Organization and Management of the Laboratory	2

V. Work Experience

The area of concentration at the preparation level shall include a work experience component consisting of a minimum of 2,000 hours of supervised work experience in the teachable industrial occupation.

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	15
ENG 101—Composition I	3
IET 100—World of Technology	3
Occupational emphasis electives	6
MATH 135—Math for Technical Students	3
Second Semester	15
ENG 192—Technical Composition	3
IET 103—Technical Drawing I	3
Occupational emphasis elective	3
DATA 201—Introduction to Computers	3
IET 364—Career and Vocational Guidance	3
Summer Semester	3
Supervised Work Experience	3
SOPHOMORE YEAR	
First Semester	16
ENG 202—Introduction to Literature	3
IET 390—Principles of Trade and Industrial Education	3
SCI 105—Introduction to Biological Sciences	3
Occupational emphasis elective	4
HIST 131—Introduction to Civilization I	3
Second Semester	15
IET 393—Methods in Vocational Education	3
Occupational emphasis elective	2
SPCH 370—Business and Professional Speech	3
Technical elective	4
SCI 103—Physical Science	3
Summer Semester	3
Supervised Work Experience	3
JUNIOR YEAR	
First Semester	14
IET 391—Trade and Technical Analysis	2
IET 422—Industrial Safety	3
PSY 154—Introduction to Psychology	3
Technical electives	6
Second Semester	14
IET 320—Supervisory Practices	3
EDSE 310—Principles of Adolescent Development	3
Occupational emphasis elective	3
SOC 354—The Individual and Society	3
IET 496—Organization and Management of the Laboratory	2
Summer Semester	3
Supervised Work Experience	3
SENIOR YEAR	
First Semester	16
IET 497—Seminar in Vocational Industrial Education	1
IET 392—Technical Curriculum and Media Development	3
GOV 310—Current World Problems	3
Technical elective	3
FNA 160—Appreciation of Fine Arts	3
HLTH 203—Safety and First Aid	3
Second Semester	14
EDSE 410—Human Growth and Development	3
IET 394—Student Teaching in Vocational Education	8
Occupational emphasis elective	3
	128

background. The industrial technologists frequently work in a supervisory or management level position. Industrial sales and distribution also offer excellent opportunities for the industrial technology graduate.

Required Courses in Industrial Technology	Sem. Hrs.
IET 103—Technical Drawing I	3
IET 317—Time and Motion Study	2
IET 319—Quality Control	3
IET 320—Supervisory Practices	3
IET 330—Industrial Design	2
IET 472—Industrial Practicum	2
IET—Seminar	1
Approved electives in emphasis	15
(Approved electives in either science and math or in business and economics.)	
Approved electives in option	21

(Electives must be approved by the student's advisor and must be courses selected from one of the following options: broadcast technology, construction technology, drafting and design technology, electrical technology, electronics technology, graphic arts technology, industrial supervision and management technology, machine tool technology, mining technology, plastics technology, power and fluids technology, welding technology, or woods technology.)

Suggested Course Sequence

The following suggested sequence is for an option in industrial supervision and management with an emphasis in business and economics. It can be modified for any other option or emphasis.

FRESHMAN YEAR	Sem. Hrs.
First Semester	16
IET 100—World of Technology	3
IET 103—Technical Drawing I	3
ENG 101—Composition I	3
MATH 135—Math for Technical Students	3
IET elective	4
Second Semester	16
IET 186—Manufacturing and Fabrication	3
CON 103—Materials Testing	3
ENG 192—Technical Composition	3
ECON 101—Introduction to the American Economy	3
HIST elective	3
General elective	1
SOPHOMORE YEAR	
First Semester	16
IET 240—Basic Electricity	3
IET 320—Supervisory Practices	3
SCI 103—Introduction to Physical Sciences	3
MNGT 160—Introduction to Business	3
FNA 160—Appreciation of the Fine Arts	3
General elective	1
Second Semester	16
IET 327—Applied Industrial Management	3
ENG 202—Introduction to Literature	3
MNGT 301—Principles of Management	3
HLTH 203—Safety and First Aid	3
IET elective	4
JUNIOR YEAR	
First Semester	16
IET 319—Quality Control	3
PSY 154—Introduction to Psychology	3
BIOL 105—Introduction to Biological Sciences	3
DATA 201—Introduction to Computers	3
ACCT or ECON elective	4
Second Semester	16
IET 330—Industrial Design	2
IET 488—Machine Shop II	3
MNGT 311—Principles of Personnel Management	3
SPCH 370—Business and Professional Speech	3
DATA elective	4
General elective	1
SENIOR YEAR	
First Semester	16
IET 571—Seminar for Industrial Education	1
IET elective	3
MNGT elective	4
GOVT or GEO elective	3
General electives	5
Second Semester	16

2. Bachelor of Science degree with an Area of Concentration in Industrial Technology

Industrial technology graduates may be employed in manufacturing, production, design, and other industrial positions which require a general, professional, and technical

IET 317—Time and Motion Study	2
IET 422—Industrial Safety	3
IET 472—Industrial Practicum	2
IET elective	1
General electives	8
	128

3. Bachelor of Science degree with a Major in Industrial Education with an option in the Orientation/Exploration levels

Required Courses in Industrial Education	Sem. Hrs.
IET—Technical Drawing	6
IET—Electricity Electronics	3
IET—Metals-Manufacturing	6
IET—Power and Fluids	3
IET—Woods-Construction	6
IET—Seminar	1
IET—Industrial Design	2
IET—Supervised Work Experience	3
IET—Graphic Arts	3
Technical elective	3

(Electives must be approved by the student's advisor with a maximum of nine semester hours in any one technical field.)

Industrial Teacher Education Requirements	25
IET 390—Principles of Industrial Education	3
IET 392—Technical Curriculum and Media Development	3
IET 475—Teaching Methods in Industrial Education—Orientation/Exploration levels	3
EDSE 310—Principles of Adolescent Development	3
EDSE 410—Human Growth & Development	3
IET 478—Supervised Teaching Practicum in Industrial Education—Orientation and Exploration Levels	8
IET 496—Organization and Management of the Laboratory	2

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	16
ENG 101—Composition I	3
IET 103—Technical Drawing I	3
IET 160—Introduction to Power and Fluids Mechanics	3
MATH 135—Mathematics for Technical Students	3
IET 111—Basic Wood Techniques	3
MATH 110—Problem Solving Techniques	1
Second Semester	16
ENG 192—Technical Composition	3
IET 203—Technical Drawing II	3
IET 102—Graphic Arts	3
SCI 105—Introduction to Biological Sciences	3
HLTH 203—Safety and First Aid	3
Minor	1

SOPHOMORE YEAR	
First Semester	15
Technical elective	3
ENG 202—Introduction to Literature	3
IET 240—Basic Electricity	3
CON 101—Introduction to Construction Technology	3
Social science elective	3
Second Semester	16
Minor	4
SCI 103—Introduction to Physical Sciences	3
FNA 160—Appreciation of Fine Arts	3
IET 186—Manufacturing and Fabrication	3
PSY 154—Introduction to Psychology	3

JUNIOR YEAR	
First Semester	15
IET 330—Industrial Design	2
Minor	4
IET 390—Principles of Industrial Education	3
Social Science Elective	3
IET 286—General Metals	3
Second Semester	15
ECON 101—Introduction to American Economy	3
EDSE 310—Principles of Adolescent Development	3
SPCH 370—Business and Professional Speech	3
DATA 201—Introduction to Computers	3
Minor	3

Summer	
IET 398—Supervised Work Experience	3
SENIOR YEAR	
First Semester	16
IET 571—Seminar in Industrial Education	1
General elective	3
Minor	9
IET 392—Technical Curriculum and Media Development	3
Second Semester	16
1st 8 weeks	
IET 475—Teaching Methods in Industrial Education—Orientation/Exploration level	3
EDSE 410—Human Growth and Development	3
IET 496—Organization and Management of Laboratory	2
2nd 8 weeks	
IET 478—Supervised Teaching Practicum—Orientation/Exploration	8
	128

This sequence planned for a 36 hour major and a 21 hour minor.

4. Bachelor of Science degree with a Major in Industrial Technology

Required Courses in Industrial Technology	Sem. Hrs.
IET 103—Technical Drawing I	3
IET 317—Time and Motion	2
IET 319—Quality Control	3
IET 320—Supervisory Practices	3
IET 330—Industrial Design	2
IET 571—Seminar	1
Approved electives in option	16

(Electives must be approved by the student's advisor and must be courses selected from one of the following options: broadcast technology, construction technology, drafting and design technology, electrical technology, electronics technology, graphic arts technology, industrial supervision and management technology, machine tool technology, mining technology, plastics technology, power and fluids technology, radiologic technology, welding technology, or woods technology.)

5.A. Associate of Applied Science degree in Broadcast Technology

The broadcast technology program is designed to prepare the individual who seeks employment as a combination announcer and station engineer in the broadcasting industry. Course work includes the area of radio-television announcing and also includes course work in preparation for F.C.C. licensing examinations.

Requirements and Suggested Course Sequence

First Semester	Sem. Hrs.
IET 103—Technical Drawing I	3
IET 240—Basic Electricity	3
R-TV 151—Introduction to Broadcast Techniques	2
ENG 101—Composition I	3
IET—Approved industrial technology elective	2
R-TV 155—Broadcast Performance	3
Second Semester	17
IET 251—Basic Electronics	3
MATH 110—Problem Solving Techniques	1
IET 338—FCC License	1
R-TV 250—Audio Production and Direction	4
Math elective	3
ENG 192—Technical Composition	3
Third Semester	16
IET 440—Industrial Electronics	3
IET 342—Communications Electronics	3
Math elective	3
R-TV 340—Video Production and Direction I	3
IET 341—Transistors and Semiconductors	3
IET 244—Electrical Drafting and Design	3
Fourth Semester	15
IET 346—Transmitter Electronics	4
IET 345—Television Electronics	4

PHYS 202—Elementary Physics II	4
IET 320—Supervisory Practices	3
	64

5.B. Associate of Applied Science Degree in Construction Technology

The construction technology curriculum prepares for employment in either the home building or commercial building market. With experience, the construction technician may rise to supervisory levels with general and subcontracting firms.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	16
CON 101—Introduction to Construction Technology	3
ENG 101—Composition I	3
ECON 101—Introduction to American Economy	3
CON 201—Properties of Construction Materials	3
MATH 135—Mathematics for Technical Students	3
MATH 110—Problem Solving Techniques	1
Second Semester	17
CON 102—Surveying I	3
IET 103—Technical Drawing I	3
CON 103—Materials Testing	3
IET 249—Residential Wiring	3
CON 204—Codes, Contracts and Specifications	3
Approved technical elective	2
Third Semester	16
IET 111—Basic Woods	3
CON 203—Construction Methods and Equipment	3
CON 104—Surveying II	3
CON 202—Structural Design	3
IET 404—Architectural Drawing	3
Fourth Semester	15
CON 205—Estimating Construction Costs	3
CON 206—Construction Management	3
ENG 192—Technical Composition	3
IET 320—Supervisory Practices	3
SPCH 370—Business and Professional Speech	3
	64

5.C. Associate of Applied Science degree in Drafting and Design Technology

The drafting and design technology program prepares potential graduates to enter a wide range of jobs in industry. The program develops skills and knowledge in such areas as technical drawing, technical illustration, tool layout and design, machine drawing, housing, and architectural principles. The student's program is intertwined with courses which will apply the skill and knowledge such as electricity/electronics, graphic arts, woods, plastics, welding, construction, metals, power and fluid mechanics, and industrial supervision and management.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	15
IET 103—Technical Drawing I	3
IET 111—Basic Wood Technics	3
ENG 101—Composition I	3
MATH 135—Mathematics for Technical Students	3
IET 186—Manufacturing and Fabrication	3
Second Semester	17
IET 203—Technical Drawing II	3
IET 301—Tool Layout and Design	3
IET 317—Time and Motion Study	2
Math elective	3
ENG 192—Technical Composition	3
IET 286—General Metals II	3
Third Semester	17
IET 160—Introduction to Power and Fluid Mechanics	3
IET 204—Descriptive Geometry	3
CON 202—Structural Design	3
IET 305—Housing	3

IET 330—Industrial Design	2
General elective	3
Fourth Semester	15
IET 303—Technical Illustration	3
IET 319—Quality Control	3
IET 403—Machine Drawing and Design	3
IET 320—Supervisory Practices	3
SPCH 370—Business and Professional Speech	3
	64

5.D. Associate of Applied Science degree in Electrical Technology

The electrical technology program trains the student in the theoretical and practical applications of power generation and distribution in both industrial and commercial settings. Upon graduation, career opportunities are available with power generating stations, power distribution companies, or municipal utility companies.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	15
IET 103—Technical Drawing I	3
IET 240—Basic Electricity	3
ENG 101—English Composition I	3
MATH 135—Math for Technical Students	3
ECON 101—Introduction to American Economy	3
Second Semester	18
IET 241—Basic Electronics	3
IET 243—Electric Power	3
IET 244—Electrical Draft and Design	3
IET 249—Residential Wiring	3
Math elective	3
ENG 192—Technical Composition	3
Third Semester	17
IET 341—Transistors and Semiconductors	3
IET 319—Quality Control	3
IET 348—Motors and Generators	4
IET 349—Industrial Wiring	4
IET 447—Industrial Electronics	3
Fourth Semester	15
IET 347—Power Transformers and Distribution	4
IET 441—Computer Electronics	3
IET 320—Supervisory Practices	3
DATA 201—Introduction to Computers	3
IET 317—Time and Motion	3
	65

5.E. Associate of Applied Science degree in Electronics Technology

The electronics technology program provides theoretical and technical training in the field of electronics, including solid state circuitry and control devices plus communications, and computer electronics and industrial robotics. Graduates are usually employed at the technical or supervisory level in salaried positions.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	15
IET 240—Basic Electricity	3
ECON 101—Introduction to American Economy	3
IET 103—Technical Drawing I	3
ENG 101—Composition I	3
Math elective	3
Second Semester	18
IET 241—Basic Electronics	3
IET 243—Electric Power	3
IET 244—Electrical Drafting and Design	3
ENG 192—Technical Composition	3
Math elective	3
IET 249—Residential Wiring	3
Third Semester	16
IET 342—Communications Electronics	3
IET 341—Transistors and Semiconductors	3

IET 440—Industrial Electronics	3
IET 319—Quality Control	3
DATA 201—Introduction to Computers	3
IET 338—FCC License	1
Fourth Semester	16
IET 317—Time and Motion Study	2
IET 345—Television Electronics	4
IET 346—Transmitter Electronics	4
IET 441—Computer Electronics	3
IET 320—Supervisory Practices	3
	65

5.F. Associate of Applied Science degree in Graphic Arts Technology

The graphic arts technology program is designed to develop technical knowledge and competency in all major duplicating, printing, and reproduction techniques. Graduates may seek employment in many types of occupations, including job-shop situations and technical level entry into high volume printing concerns.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	15
IET 102—Graphic Arts I	3
IET 103—Technical Drawing I	3
ENG 101—Composition I	3
MATH 135—Math for Technical Students	3
OADM 211—Beginning Typewriting	3
Second Semester	17
IET 202—Graphic Arts II	3
IET 317—Time and Motion Study	2
IET 350—Machine Composition I	3
Math elective	3
DATA 201—Introduction to Computers	3
ENG 192—Technical Composition	3
Third Semester	16
IET 351—Graphic Duplication	3
IET 322—Photography	2
ART 291—Color and Design	3
MKT 305—Purchasing	3
JOUR 305—Newspaper Typography and Design	3
IET 320—Supervisory Practices	3
Fourth Semester	16
IET 302—Offset Lithography	3
IET 450—Machine Composition II	3
IET 319—Quality Control	3
SPCH 370—Business and Professional Speech	3
MKT 450—Consumer Behavior	3
Elective	1
	64

5.G. Associate of Applied Science degree in Industrial Supervision and Management Technology

The associate degree program in industrial supervision and management is designed to place graduates in industrial manufacturing positions as supervisory personnel. The curriculum provides a broad understanding of all facets of manufacturing rather than an in-depth specialization of one technical field. This program is also offered to several industries in the region as a complete in-plant degree. Graduates are well prepared in communications and supervisory management skills.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	15
IET 100—World of Technology	3
MATH 135—Mathematics for Technical Students	3
IET 103—Technical Drawing I	3
ENG 101—Composition I	3
ECON 101—Introduction to American Economy	3
Second Semester	15
ENG 192—Technical Composition	3

IET 186—Manufacturing and Fabrication	3
IET 240—Basic Electricity	3
IET 160—Introduction to Power and Fluids	3
CON 103—Materials Testing	3
Third Semester	17
IET 320—Supervisory Practices	3
IET 319—Quality Control	3
IET 327—Applied Industrial Management	3
SPCH 370—Business and Professional Speech	3
IET 317—Time and Motion Study	2
IET 388—Machine Shop I	3
Fourth Semester	17
IET 422—Industrial Safety Standards and Enforcement	3
DATA 201—Introduction to Computers	3
IET 488—Machine Shop II	3
MNGT 301—Principles of Management	3
Technical electives	5
	64

5.H. Associate of Applied Science degree in Machine Tool Technology

The machine tool technology program prepares the individual for entry into the industrial world as a technician or a supervisor. Our classes include metals, manufacturing and fabrication, machine tool processes, and metal casting and welding, plus supportive technical courses in drafting, design, quality control, supervisory practices, and materials testing.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	16
MATH 110—Problem Solving Techniques	1
IET 103—Technical Drawing I	3
IET 106—Thermoplastic Processing	3
ENG 101—Composition I	3
MATH 135—Mathematics for Technical Students	3
IET 186—Manufacturing and Fabrication	3
Second Semester	15
IET 203—Technical Drawing II	3
IET 286—General Metals II	3
ENG 192—Technical Composition	3
CON 103—Materials Testing	3
IET 160—Power and Fluids Mechanics	3
Third Semester	18
IET 319—Quality Control	3
SPCH 370—Business and Professional Speech	3
IET 386—Welding	3
IET 388—Machine Shop I	3
IET 240—Basic Electricity	3
ECON 101—Introduction to American Economy	3
Fourth Semester	17
IET 301—Tool Layout and Design	3
IET 306—Plastics Mold Design and Construction	3
IET 330—Industrial Design	2
IET 486—Pattern Making and Foundry	2
IET 488—Machine Shop II	3
IET 320—Supervisory Practices	3
Approved technical elective	1
	66

5.I. Associate of Applied Science degree in Power and Fluids Technology

The power and fluids program is designed to prepare graduates for employment as technicians in the fields of power and power transmission, the automotive industry, and other areas utilizing hydraulic or pneumatic equipment.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	15
IET 160—Introduction to Power and Fluids Mechanics	3
IET 262—Fluid Power I	3
ENG 101—Composition I	3
Math elective	3
ECON 101—Introduction to American Economy	3

Second Semester	17
IET 261—Power Mechanics	3
IET 362—Fluid Power II	3
IET 103—Technical Drawing I	3
IET 317—Time and Motion Study	2
Elective	3
ENG 192—Technical Composition	3
Third Semester	16
IET 360—Internal Combustion Engines I	3
IET 365—Instrumentation	3
IET 240—Basic Electricity	3
IET 319—Quality Control	3
IET 320—Supervisory Practices	3
General elective	1
Fourth Semester	16
IET 463—Heating, Ventilating, and Air Conditioning	3
IET 460—Internal Combustion Engines II	3
IET 186—Manufacturing and Fabrication	3
IET 422—Industrial Safety	3
General elective	4

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5.J. Associate of Applied Science degree in Industrial Education* (Vocational Trade and Industrial Education)

This program is designed for individuals with industrial experience and planning to teach vocational education-industrial education. A temporary certificate may be issued to a person who is initially employed during a school year. The individual must have four years of successful and appropriate occupational experience in the area to be taught. (Adequate occupational experience shall be determined by the Department of Education.)

A one-year certificate for teaching vocational education-industrial education valid for teaching only the subject stated on the face of the certificate shall be issued for a duration period of one year upon completion of 6 hours of specific college course work, 3 semester hours of credit in a foundations course, and 3 semester hours credit in curriculum development in vocational education-industrial education.

On completion of this program both a five-year certificate and Associate of Applied Science degree in industrial education (vocational trade and industrial education) may be earned.

Primary differences between the five-year planned program and associate degree:

- Initial 6 hours in curriculum and foundations required for 64-hour planned program.
- 18 hours of proficiency credit may count toward the 64-hour planned program.
- Individual must initiate and follow a 64-hour planned program developed by advisor and student to meet certification requirements.

	Sem. Hrs.
I. Required Vocational Education-Industrial Education Courses	20
IET 364—Career and Vocational Guidance	3
IET 390—Principles of Industrial Education	3
IET 392—Technical Curriculum and Media Development	3
IET 393—Methods in Industrial Education at the Preparation Level	3
IET 394—Student Teaching in Industrial Education	3
OR	
IET 401—Seminar	4
IET 497—Seminar	1
EDSE 310—Principles of Adolescent Development	3
II. Specialization Component	24
Twenty-four semester hours of approved technical industrial education courses in the specific occupational area to be taught. Up to 18 hours proficiency credit may be awarded through the NOCTI test with up to 9 hours substituted toward the 24 hours speciality component.	
III. General Education	20
ENG 101—Composition I	3
ENG 192—Technical Composition	3

SPCH 370—Business and Professional Speech	3
Approved math or science electives	8
Economics elective	3

Requirements and Suggested Course Sequence

First Semester	15
IET 390—Principles of Industrial Education	3
IET 393—Methods in Industrial Education	3
ENG 101—Composition I	3
Math elective	3
Technical elective	3
Second Semester	17
IET 103—Technical Drawing I	3
ECON 101—Introduction to American Economy	3
IET 497—Seminar in Vocational Education	1
Technical elective	4
IET 364—Career and Vocational Guidance	3
ENG 192—Technical Composition	3
Summer	
Vocational Education-Industrial Education elective	3
Third Semester	17
IET 391—Trade and Technical Analysis	2
IET 320—Supervisory Practices	3
Approved science elective	3
Technical elective	3
IET 392—Technical Curriculum and Media Development	3
SPCH 370—Business and Professional Speech	3
Fourth Semester	12
EDSE 310—Principles of Adolescent Development	3
IET 394—Student Teaching in Industrial Education	4
OR	
IET 401—Seminar	2
Approved science or math elective	2
Technical elective	3

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5.K. Associate of Applied Science degree in Welding Technology

The welding technology program includes a study of oxy-acetylene welding, arc welding, inert gas welding, welding joint design and testing, welding metallurgy, welding codes, and blueprint reading. Supporting course work is provided in general metals, technical drawing, and basic electricity.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	15
WEL 101—Oxyacetylene Welding	3
WEL 101A—Oxyacetylene Welding Laboratory	3
IET 103—Technical Drawing I	3
IET 186—Manufacturing and Fabrication	3
MATH 135—Mathematics for Technical Students	3
Second Semester	17
WEL 102—Arc Welding	3
WEL 102A—Arc Welding Laboratory	3
ENG 101—Composition I	3
IET 240—Basic Electricity	3
ECON 101—Introduction to American Economy	3
Approved technical elective	2
Third Semester	17
WEL 201—Inert Gas Welding	3
WEL 201A—Inert Gas Welding Laboratory	3
WEL 205—Welding Metallurgy	3
ENG 192—Technical Composition	3
IET 319—Quality Control	3
IET 317—Time and Motion Study	2
Fourth Semester	15
WEL 202—Weld Joint Design and Testing	3
WEL 202A—Weld Joint Design and Testing Laboratory	3
WEL 204—Welding Codes and Blueprint Reading	3
SPCH 370—Business and Professional Speech	3
IET 320—Supervisory Practices	3

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Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall, II—spring; III—summer.

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 technics, 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 211. Advanced Wood Technics. (2-2-3); I, II. Prerequisite: IET 111 or consent of instructor. This is a continuation of basic wood technics. 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 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 262. Fluid Power I. (2-2-3); on demand. Beginning construction in the area of power transfer devices utilizing fluid techniques. Primary emphasis is given to hydraulic and pneumatic 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 technical shops.

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. Students will visit regional industries.

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 360. Internal Combustion Engines I. (2-2-3); on demand. Study of operating cycle and maintenance procedures on spark ignition, diesel, and wankel engines.

IET 362. Fluid Power II. (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 cells 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. Prerequisite: individual must be eligible for a Vocational Industrial Teaching Certificate. 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. Prerequisite: individual must be eligible for a Vocational Industrial Teaching Certificate. 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.)

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IET 383. Knowledge of related subjects in occupations—offered only through oral examinations. (0-0-6); on demand. Prerequisite: individual must be eligible for a Vocational Industrial Teaching Certificate. 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 390. Principles of Industrial Education. (3-0-3); I, III. 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); I. 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. 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 400. Seminar in Industrial Education—Orientation and Exploration Levels. (4-0-4); on demand. Prerequisite: four years of successful teaching experience at the industrial education preparation level. Seminar designed for individuals who have four years of successful teaching experience at the industrial education preparation level 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 at the industrial education orientation and exploration levels. 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); I. 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); 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 a minimum of seven 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 sub-

ject 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. (8 hrs.); co-requisite, enrolled in IET 475—Teaching Methods in Industrial Education, IET 390, IET 392, IET 475, EDSE 310, EDSE 420, 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); on demand. Prerequisite: IET 393. 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 education by participation in one or more programs followed by informal discussion. Faculty presentation will enrich the experience by raising real problems and issues confronting industrial education.

IET 590. Supervised Internship. (1 to 6 hrs.); I, II. Prerequisite: approval prior to registration.

A. To provide work experience in an occupational area. Student works under supervision in an approved position. Advanced credit commensurate with time worked, type of work, variety of work experience, and research paper. Maximum credit allowed in the internship will be six hours.

B. A person who chooses to do the internship in administration will be assigned to work in secondary, post secondary or higher education institution or for the State Bureau of Vocational Education in an administrative capacity approved by his advisor.

In each case, conditions will be agreed upon by employer, student, and graduate advisor prior to registration.

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.

ELECTRICITY-ELECTRONICS

IET 240. Basic Electricity. (2-2-3); I, II. Ohms Law, series and parallel circuits. Kirchoffs Laws, magnetism, electrical measuring instruments, transformers, inductance, capacitance, introduction to electronics.

IET 241. Basic Electronics. (2-2-3); I, II. Prerequisites: IET 240. Impedance, Resonance, Vectors, introduction to semiconductors, elementary radio.

IET 243. Electric Power. (2-2-3); II. Prerequisites: IET 240. Theory and operation of generators, motors, transformer, and electrical distribution systems. Emphasis on the selection, operation, and repair of AC or DC motors and motor controls and related electrical drafting.

IET 244. Electrical Drafting and Design. (2-2-3); II. Prerequisites: IET 103 and IET 241 or consent of the instructor. Electrical drafting and design related to the industrial wiring of motors, generators, controls, lighting, transformers, and power distribution.

IET 249. Residential Wiring. (2-2-3); I, II. Comprehensive study of latest National Electric Code and its application to theory, plans, specification, and installation methods of circuits found in the electrically modern home.

IET 338. FCC License. (1-0-1); I, II. Theory and practice to aid students in becoming radio operators.

IET 341. Transistors and Semiconductors. (2-2-3); I. Prerequisite: 241 or consent of the instructor. Diodes, transistors, power supplies, audio-amplifier design.

IET 342. Communications Electronics. (2-2-3); I. Prerequisite: IET 243. Corequisite: IET 341 or consent of instructor. Theory of radio and T.V. receivers and transmitters. Radio and T.V. receiver servicing. Vacuum tube theory and practice.

IET 345. Television Electronics. (3-2-4); II. Prerequisite: IET 342 or consent of instructor. Principles of television reception, circuits, and block diagrams. Practice in the repair of T.V. receivers, including symptom diagnosis.

IET 346. Transmitter Electronics. (3-2-4); II. Prerequisites: IET 342 or consent of instructor. Preparing for passing the First Class Radio-Television Federal Communications Commission examination. Laboratory experiments involving installation, operation, repair, and maintenance of transmitters.

IET 347. Power Transformers and Distribution. (3-2-4); II. Prerequisites: IET 243 or consent of instructor. Advanced study in industrial type transformers and power distribution systems. Practice in connecting, testing, trouble-shooting, installing, and planning distribution systems and network analysis.

IET 348. Motors and Generators. (3-2-4); I. Prerequisites: IET 243 or consent of instructor. Advanced study of industrial type electric motors and generators with practice in connecting, operating, and repair.

IET 349. Industrial Wiring. (3-2-4); I. Prerequisites: IET 249 and IET 243 or consent of instructor. The practice and theory of industrial wiring including the wiring of multi-family dwellings, commercial buildings, industrial plants and equipment.

IET 440. Industrial Electronics. (2-2-3); I. Prerequisite: IET 243 and IET 341 or consent of the instructor. (Math 252—Boolean Algebra recommended.) Theory and operation of timers, multivibrators, pulse generators, diode logic gates, transistor logic gates, electrical principles of digital computers, counters, FET, SCR, Oscillators.

IET 441. Computer Electronics. (2-2-3); II. Prerequisite: IET 440 or consent of instructor. Minicomputer and microprocessor electronics, including theory, characteristics, performance, application, installation, operation, maintenance, and repair.

GRAPHICS COMMUNICATIONS

IET 102. Graphic Arts I. (1-4-3); I. A survey course covering the broad practices, techniques and problems of the graphic arts industry. Study and experience include history, design and layout, composition methods, image reproduction, screen process and bookcrafts.

IET 103. Technical Drawing I. (1-4-3); I, II. A study of the principles and techniques of communicating ideas by means of graphic representation.

IET 202. Graphic Arts II. (1-4-3); II. Prerequisite: IET 102 or consent of instructor. 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.

IET 203. Technical Drawing II. (1-4-3); I, II. Prerequisite: IET 103. Breadth and depth are derived from the background of principles and techniques developed previously in technical drawing.

IET 204. Descriptive geometry. (2-2-3); I. Prerequisite: IET 203. The historical and theoretical background for technical drawing and the study of special problems.

IET 301. Tool Layout and Design. (2-2-3); II. The layout and design of machine tool jigs and fixtures; simple banking, forming and piercing dies, and plastics process dies.

IET 302. Offset Lithography. (1-4-3); II. Prerequisite: IET 202. 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 pro-

cedures (line copy and halftone film developing), stripping/plate making, press operation, and other facets relating to the industry.

IET 303. Technical Illustration. (2-2-3); II. Prerequisite: IET 203. A study of the principles, practices and techniques used in industry to describe complex mechanisms.

IET 305. Housing. (2-2-3); I. Prerequisite: IET 103 or consent of instructor. Instruction centers around the problems, practices, and techniques of the housing industry, including historical development.

IET 322. Photography. (1-2-2); I. 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).

IET 350. Machine Composition I. (1-4-3); on demand. Prerequisite: IET 202 or consent of instructor. Designed to introduce students to the history and development of linecasting machines while acquainting them with keyboard operation, mechanical processes, slug casting, mechanical adjustments and maintenance.

IET 351. Graphic Duplication. (1-2-2); II. Prerequisite: for business majors, consent of the instructor; for industrial education majors, IET 202. A survey of the use of various methods and devices of the graphic arts currently used in the typical office or in-plant reproduction center. Experience will be gained in the preparation of direct and indirect methods of producing graphic images.

IET 403. Machine Drawing and Design. (2-2-3); II. Prerequisite: IET 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.

IET 404. Architectural Drawing. (2-2-3); II. Prerequisite: IET 305. A technical course covering the fundamental principles, techniques, and practices of residential and selected commercial architecture.

IET 450. Machine Composition II. (1-4-3); on demand. Prerequisite: IET 350. A follow-up course to IET 350—Machine Composition I, concentrating on the intricate facets of typesetting as performed by experienced operators in commercial shops or newspapers to simulate an actual industrial experience in the classroom.

METALS AND MACHINE TOOLS

IET 106. Thermoplastic Processing. (2-2-3); I. Prerequisite: IET 103. Introduction is made to the materials and techniques employed in the processing of thermoplastics.

IET 107. Thermosetting Plastics Processing. (2-2-3); II. Prerequisite: IET 103. Study is made as to the various ways in which thermosetting plastic compounds are processed.

IET 186. Manufacturing and Fabrication. (2-2-3); I,II. Ferrous and nonferrous metals, basic metallurgy and heat treating, sheet metal, metal spinning and electroplating, basic welding.

IET 286. General Metals II. (2-2-3); II. Prerequisite: IET 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.

IET 306. Mold Design and Construction. (2-2-3); II. Prerequisite: consent of the instructor. (Recommended courses IET 106, 107, 111, and 286.) Study and experiences evolve around the design of products in relationship to the physical characteristics of plastics, molding techniques, and mold construction methods.

IET 388. Machine Shop I. (2-2-3); I. Prerequisite: IET 286 or consent of instructor. Precision machining methods with related tool theory, precision layout, tool grinding, and speed/feed characteristics. Gear development, numerical control, optical measurement, and chipless machining.

IET 486. Patternmaking and Foundry. (1-2-2); II. Casting of hot metals with activities in pattern development, sand testing, and mold design.

IET 488. Machine Shop II. (1-4-3); II. Prerequisite: IET 388. Advanced tools and machining theory, use of carbides with emphasis on production machining. Turret and progressive tooling design.

IET 588. Machine Shop III. (1-4-3); on demand. Prerequisite: IET 388. Advanced tool and machining theory, with emphasis on production machining, and progressive tooling design for numerical control applications.

WELDING TECHNOLOGY

WEL 101. Oxyacetylene Welding. (3-0-3); I. 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); I. 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); II. 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); II. 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); I. 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); I. 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); II. 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 202A. Weld Joint Design and Testing Laboratory. (0-9-3); II. Application of theory of various weld joint designs used in modern welding practices. Testing and calculations of these welds, using test equipment used by today's welding industry. Destructive and non-destructive.

WEL 204. Welding Codes and Blueprint Reading. (3-0-3); II. 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); I. Physical and chemical metallurgical characteristics commonly associated with phase changes during and after fusion techniques of ferrous and nonferrous metals.

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.

Mining Technology Program

The mining technology program offers the following degrees:

1. A Bachelor of Science degree with an area of concentration in mining, reclamation, and energy studies, with options in:
 - A. Mining technology
 - B. Reclamation technology
 - C. Energy industry administration
 - D. Energy economics
 - E. Industrial technology
 - F. Safety and health
2. A minor in mining, reclamation, and energy studies
3. A two-year Associate of Applied Science degree in mining technology

Requirements and Suggested Course Sequence

1. A Bachelor of Science degree with an Area of Concentration in Mining, Reclamation, and Energy Studies

The United States consumes more energy than any other nation. The heat content to produce energy is mainly provided by the natural resources of oil, natural gas, and coal. Unfortunately, the United States now imports more oil than it consumes, resulting in a large balance of payments deficit. The United States can no longer be assured of lasting oil supplies.

This situation has resulted in our policy-makers urging a broad mix in United States energy usage of oil shale, coal, solar, nuclear, synthetic fuels, natural gas, and conservation, as well as domestic oil.

Eastern Kentucky is a region rich in coal, oil shale, natural gas, and oil.

The curriculum of this program consists of courses that give the student a broad overview of mining, coal, reclama-

tion, and alternative energy sources. Graduates of the program may find career positions with government agencies, oil companies, coal companies, or educational institutions. These positions may include areas such as production, safety, training, and administration.

The student must complete a minimum of 48 hours in the core courses and the option. Twenty-four of the hours are included in the option. Optional areas include mining technology, reclamation technology, energy industry administration, energy economics, industrial technology, and safety and health.

	Sem. Hrs.
Required Courses in Mining, Reclamation, and Energy Studies	24
MIN 101—Introduction to Mining and Reclamation	3
RCL 301—Reclamation Laws and Regulations	3
MIN 302—Coal Analysis and Preparation	3
MIN 303—Mine Laws and Management	3
MIN 304—Mine Systems Technology	3
MIN 305—Surface Mining	3
MIN 306—Energy Conservation Technology	3
MIN 401—Coal Industry Economics	3

Options

A. Mining Technology

This option is recommended for a student interested in mine production management. Funding for the mining technology program emanates from the Kentucky Department of Mines and Minerals. The purpose of this funding is to support the associate degree mining technology program, which exists to supply the state with management potential safety trained individuals who plan to work in or around underground coal mines. The mining technology option to the mining studies degree would allow our associate degree students to apply all of their credits toward the Bachelor of Mining and Reclamation Energy Studies degree.

	Sem. Hrs.
Required Courses	24
MIN 103—Mine Drafting	3
MIN 104—Underground Mine Safety	3
MIN 200—Mine Surveying	3
MIN 201—Mine Equipment	3
MIN 202—Mine Design, Ventilation, and Drainage	3
MIN 203—Mine Electrical Systems	3
GEOS 200—Coal Mine Geology	3
AGR 207—Land Conservation and Forest Management	3

B. Reclamation Technology

This option is recommended for a student desiring a career in reclamation management. Society is becoming more cognizant as to the need for restoration of the land, and the awareness has filtered to the energy sector. Reclamation has become part of the mining cycle, and for this reason, many positions are becoming available in areas such as government and industry. To meet the needs of society at large and government and industry in particular, the reclamation option is offered as part of the mining and reclamation energy studies program.

	Sem. Hrs.
Required Courses	26
RCL 302—Reclamation Management and Systems Planning I	4
RCL 303—Reclamation Management and Systems Planning II	4
CON 102—Surveying I	3
AGR 180—Elementary Field Crops	3
AGR 207—Land Conservation and Forest Management	3
AGR 211—Soils	3
AGR 311—Soil Conservation	3
AGR 312—Soil Fertility and Fertilizers	3

C. Energy Industry Administration

This option is recommended for a person desiring to

become proficient in the administration of an energy program in private enterprise, government, or education. The individual will obtain an administrative background in several energy areas, from fossil fuels to conservation.

	Sem. Hrs.
Required Courses	24
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
DATA 200—Introduction to Data Processing	3
FIN 252—Mathematics of Finance	3
MNGT 301—Principles of Management	3
FIN 360—Business Finance	3
MNGT 461—Business Law I	3
MKT 304—Marketing	3

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

D. Energy Economics

This option is devised for students desiring to gain an insight to the economic nature of the global energy situation. This educational background could enable the student to go into almost any phase of the energy complex, including graduate studies or the governmental service.

	Sem. Hrs.
Required Courses	24
ECON 201—Principles of Economics I	3
ECON 202—Principles of Economics II	3
FIN 342—Money and Banking	3
ECON 350—Microeconomic Theory	3
ECON 351—Macroeconomic Theory	3
ECON 302—Labor Economics	3
Economics electives	6

E. Industrial Technology

This option will allow students to specialize in a particular vocation, such as electricity or welding. These type positions are in demand, especially in the coal industry.

	Sem. Hrs.
Required Courses	24
IET 103—Technical Drawing I	3
IET 317—Time and Motion Studies	2
IET 319—Quality Control	3
IET 320—Supervisory Practices	3
IET 571—Seminar in Industrial Education	1
IET electives (approved by advisor)	12

The 12 hours of electives may be selected from one of the following program areas: construction technology, drafting and design technology, electrical technology, machine tool technology, power and fluids technology, and welding technology.

F. Safety and Health

This option will provide the student with expertise in classes dealing with safety and health. This is becoming a very important area, as the Mine Safety and Health Administration (MSHA) and the Occupational Safety and Health Administration (OSHA) exercise increasing jurisdiction in the safety and health areas.

	Sem. Hrs.
Required Courses	24
MIN 104—Underground Mine Safety	3
HLTH 203—Safety and First Aid	3
HLTH 519—Emergency Medical Techniques	6
IET 422—Industrial Safety Standards and Enforcement	3
General electives (approved by advisor)	9

2. A Minor in Mining, Reclamation, and Energy Studies

	Sem. Hrs. 21
MIN 101—Introduction to Mining and Reclamation	3
RCL 301—Reclamation Laws and Regulations	3
MIN 303—Mine Laws and Management	3
MIN 304—Mine Systems Technology	3

MIN 305—Surface Mining	3
MIN 306—Energy Conservation Technology	3
MIN 401—Coal Industry Economics	3

3. Associate of Applied Science Degree in Mining Technology

Kentucky is the leading coal-producing state in the nation. Coal production is expected to increase for the next several decades. Because of this increased demand for coal, many positions will become available with coal and mining companies and also with several government agencies. The two-year associate of applied science degree in mining technology is designed to educate and train students to eventually become managerial personnel in the coal and mining industry. The student will learn from areas such as safety, surveying, mine drafting, reclamation, roof control, ventilation, electricity, mine machinery, labor relations, mine systems management, mine laws, and the handling of explosives. The program covers both underground and surface mining. Students are strongly encouraged to obtain working experience the summer after their freshman year. The student will receive his or her miner certification card after graduation.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	16
MIN 101—Introduction to Mining and Reclamation	3
IET 103—Technical Drawing I	3
ENG 101—Composition I	3
MATH 135—Mathematics for Technical Students	3
MATH 110—Problem Solving Techniques	1
HLTH 203—Safety and First Aid	3
Second Semester	16
MIN 103—Mine Drafting	3
MIN 104—Underground Mine Safety	3
CON 102—Surveying I	3
ENG 192—Technical Composition	3
IET 240—Basic Electricity	3
GEOS 100—Physical Geology	1
Third Semester	18
MIN 200—Mine Surveying	3
MIN 201—Mine Equipment	3
MIN 202—Mine Design, Ventilation, and Drainage	3
MIN 301—Mine Electrical Systems	3
GEOS 200—Coal Mine Geology	3
Approved elective	3
Fourth Semester	15
MIN 302—Coal Analysis and Preparation	3
MIN 303—Mine Laws and Management	3
MIN 304—Mine Systems Technology	3
AGR 207—Land Conservation and Forest Management	3
IET 320—Supervisory Practices	3
	65

MINING TECHNOLOGY

MIN 101. Introduction to Mining and Reclamation. (3-0-3); I, II. 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); II. Prerequisite: IET 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); II. 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); I. Prerequisites: IET 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); I. 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 Design, Ventilation, and Drainage. (3-0-3); I. Prerequisite: MIN 101. An analysis of approaches to underground mine design, ventilation, and drainage. Safety factors in design, ventilation, and drainage are used.

MIN 210. Internship. (1 to 8 hrs); III. 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); I. Prerequisites: IET 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. (3-0-3); II. 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 and Management. (3-0-3); II. Prerequisite: MIN 101. A study of mining laws and their relationship to mine operations and management. An analysis is made of state and federal safety codes, their interpretations and their applications.

MIN 304. Mine Systems Technology. (3-0-3); II. Prerequisite: MIN 101. A basic study of the engineering and management approaches to mine systems design and operation. The course is designed to enable the mine technician to understand the planning, development, and installation of safe, effective, and efficient mine systems.

MIN 305. Surface Mining. (3-0-3); I. Prerequisite: MIN 101. The student learns production and safety techniques, laws, equipment studies, and management of surface mining operations.

MIN 306. Energy Conservation Technology. (3-0-3); II. The student will learn applied techniques in energy conservation technology for businesses, factories, homes, schools, and other structures that are heated or cooled by various energy resources. The importance of energy conservation to our society is stressed.

MIN 401. Coal Industry Economics. (3-0-3); I. Prerequisite: MIN 101. A study of the various economic aspects related to the coal industry, including economic history, supply and demand, industry structure, consumption and distribution patterns, social costs, and the future uses of energy resources.

School of Business and Economics

Departments

Accounting and Economics
Information Sciences
Management and Marketing

The programs of the School of Business and Economics are designed to prepare students for employment in business and government, for teaching in secondary schools, or for additional study in business or economics at the graduate level.

Certificate programs

Information Sciences
Certificate—Clerical Studies
Certificate—Secretarial Studies

Associate degree programs

Information Sciences
AAB—Data Processing
AAB—Office Management
AAB—Secretarial Studies
Management and Marketing
AAB—Real Estate
AAB—Small Business Management

Bachelor degree programs

Accounting and Economics
BBA—Accounting—Option
BBA—Economics—Option
BBA—Finance—Option
BS—Accounting—Minor
BS—Economics—Minor
Information Sciences
BBA—Basic Business—Option
BBA—Data Processing—Option
BBA—Secretarial Studies—Option
BS—Basic Business—Minor
BS—Data Processing—Minor
BS—Secretarial Studies—Minor
Management and Marketing
BBA—Management—Option
BBA—Marketing—Option
BBA—Real Estate—Option
BS—Business Administration—Minor
BS—Marketing—Minor
BS—Real Estate—Minor

General Education Requirements

The Associate of Applied Business (AAB) does not contain the same general education requirements throughout all degree programs within the School of Business and Economics. Generally, two courses in English and one course in mathematics will be incorporated in each degree program for general education purposes.

Each of the Bachelor of Business Administration (BBA) degree programs in the School of Business and Economics contains a common general education requirement. The total hours required in each academic area is based on the University general education requirements. The designated courses within an area are School of Business and Economics requirements. For bachelor degrees in the School of Business and Economics, the general education requirements are:

	Sem. Hrs.
HUMANITIES	
SPCH 370—Business and Professional Speech	3
Humanities electives	12
	15

SCIENCE AND MATHEMATICS	
MATH 160—Mathematics for Business and Economics	4
MATH 354—Business Statistics	3
Science and mathematics electives	5
	12
SOCIAL SCIENCE	
ECON 201—Principles of Economics I	3
ECON 202—Principles of Economics II	3
Social science electives	6
	12
HEALTH AND PHYSICAL EDUCATION	
Health and physical education electives	3
	3

Accounting and Economics

The Department of Accounting and Economics offers the following:

- Four-year programs leading to a Bachelor of Business Administration degree (BBA) with a concentration in Business Administration and an option in
 - Accounting
 - Economics
 - Finance
- Four-year program leading to a Bachelor of Science degree (BS) with a MINOR in
 - Accounting
 - Economics

Bachelor of Business Administration Core

The Bachelor of Business Administration includes a core of courses which are designed to provide the student in business and economics with a base from which to pursue course work in his or her special area of interest.

BUSINESS ADMINISTRATION CORE	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
DATA 201—Introduction to Computers	3
ECON 350—Microeconomics	3
FIN 360—Business Finance	3
MKT 304—Marketing	3
MNGT 301—Principles of Management	3
MNGT 306—Production Management	3
MNGT 461—Business Law I	3
MNGT 472—Business Policies and Problems	3
OADM 221—Business Communications	3
	33

BBA—Accounting—Option

Students selecting the BBA degree with an accounting option will achieve a specialization in accounting totaling 27 semester hours. This degree permits a broad supporting business curriculum in management, marketing, finance, and economics.

Course Requirements

BBA Core	Sem. Hrs.
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

Suggested Course Sequence

FRESHMAN YEAR	
First Semester	
ACCT 281—Principles of Accounting I	3
DATA 201—Introduction to Computers	3

ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
SCI—Physical Science	3
	16

Second Semester	
ACCT 282—Principles of Accounting II	3
ENG 102—Composition I	3
OR	
ENG 192—Technical Writing	3
PHED—Activity	1
SCI—Biological Science	3
General education (Soc. or Psy.)	3
Elective	3
	16

SOPHOMORE YEAR

First Semester	
ACCT 384—Intermediate Accounting I	3
OADM 221—Business Communications	3
ECON 201—Principles of Economics I	3
HLTH 150—Personal Health	2
MNGT 301—Principles of Management	3
General education (Hum. or Comm.)	3
	17

Second Semester	
ACCT 385—Intermediate Accounting II	3
ECON 202—Principles of Economics II	3
ENG—literature elective	3
MATH 354—Business Statistics	3
General education (Govt. or Geog.)	3
	15

JUNIOR YEAR

First Semester	
ACCT 387—Income Tax	3
ACCT 390—Cost Accounting I	3
FIN 360—Business Finance	3
ECON 350—Microeconomics	3
SPCH 370—Business and Professional Speech	3
	15

Second Semester	
Accounting elective	3
MNGT 306—Production Management	3
MKT 304—Marketing	3
Electives	8
	17

SENIOR YEAR

First Semester	
ACCT 483—Auditing	3
MNGT 461—Business Law I	3
Electives	11
	17

Second Semester	
Accounting elective	3
MNGT 472—Business Policies and Problems	3
Electives	9
	15

Students planning to sit for a professional examination such as the Certified Public Accounting Exam (CPA); the Certified Management Accounting Exam (CMA); or the Certified Internal Auditor Exam (CIA), should select electives that will assist them in preparation for such exercises. For example, CPA candidates should probably take Tax II; Cost II; Theory; and additional data processing courses. Accounting advisors will assist students in these selections.

BS—Accounting Minor

Students selecting programs with accounting minors should first consult with advisors in their major areas. Accounting Department advisors are always available for assistance.

Course Requirements

	Sem. Hrs.
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

Description of Courses

NOTE: (3-0-3) following a course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and 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 Study I. (1 to 8 hrs.); on demand. One semester of work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course.

ACCT 199. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various accounting subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in accounting. Individual credit toward degree programs must be approved by the student's advisor.

ACCT 239. Cooperative Study II. (1 to 8 hrs.); on demand. One semester of work experience with an extension of exposure gained in ACCT 139 or of a nature similar to a sophomore status course.

ACCT 281. Principles of Accounting I. (3-0-3); I, II, III. 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, III. 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); I, II. Prerequisite: ACCT 282. Analysis of cost data; manufacturing and cost analysis, budgets, managerial decision-making analysis.

ACCT 339. Cooperative Study III. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a junior level status.

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.); I, II, III. Prerequisites: ACCT 385 and consent of department. On-the-job professional experience in accounting provided, by arrangement, through cooperating public accounting firms, industrial firms, and governmental agencies.

ACCT 387. Income Tax. (3-0-3); I, II. Prerequisite: ACCT 282 or consent of instructor. Income tax legislation, federal and state; returns for individuals; gross income; basis for gains and losses; capital gains and losses; dividends; deductions; withholding. Also brief survey of taxation of partnerships, corporations, estates, trusts, and gifts.

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 in various accounting subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in accounting. Individual credit toward degree programs must be approved by the student's advisor.

ACCT 439. Cooperative Study IV. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a senior level course.

ACCT 476. Special Problems in Accounting. (1 to 3 hrs.); I, II, III. Prerequisite: senior standing in accounting and permission of head of department. Provides interested and qualified accounting students opportunity to complete independent advanced work in an area of special interest within the field of major study.

ACCT 482. Advanced Accounting. (3-0-3); I. Prerequisite: ACCT 385. Accounting for reorganizations, 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); I, II. 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 500. Survey of Accounting. (3-0-3); I, II. An introduction to the concepts and principles involved in the preparation of financial reports for internal and external users; analysis and interpretation of accounting data and its use in management planning and control. (Cannot be used to satisfy requirements for any undergraduate program in the School of Business and Economics.)

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 FASB, CASB, SEC, AICPA, and AAA pronouncements affecting theory.

ACCT 528. Governmental Accounting. (3-0-3); II. Prerequisite: ACCT 282 or permission of instructor. 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. One semester of work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students.

ACCT 575. Controllingship. (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 to 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); II. 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); II. 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 in various accounting subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in accounting. Individual credit toward degree programs must be approved by the student's advisor.

BBA—Economics—Option

This economics option is designed to prepare students for entrance into the fields of business economics and business management. The program is recommended for students who desire analytical tools required for production and market analysis. In addition, the curriculum is structured to provide a basis from which a student may pursue graduate study in either business administration or economics.

Course Requirements

	Sem. Hrs.
BBA Core	33
ECON 302—Labor Economics	3
FIN 342—Money & Banking	3
ECON 541—Public Finance	3
ECON 547—International Economics	3
ECON 551—Macroeconomic Theory	3
*Approved electives	6
	54

Suggested Course Sequence

FRESHMAN YEAR

	First Semester
ECON 201—Principles of Economics I	3
ENG 101—Composition I	3
HLTH 150—Personal Health	2
MATH 160—Mathematics for Business & Economics	4
PHED—activity	1
SCI—Physical Science	3
	16

	Second Semester
DATA 201—Introduction to Computers	3
ECON 202—Principles of Economics II	3
ENG 102—Composition II	3
SCI—Biological Sciences	3
General education (Soc. or Psy.)	3
	15

SOPHOMORE YEAR

First Semester	
ACCT 281—Principles of Accounting I	3
ECON 302—Labor Economics	3
General education (Hum. or Comm.)	3
General education (Govt. or Geog.)	3
Electives	4
	16

Second Semester	
ACCT 282—Principles of Accounting II	3
OADM 221—Business Communications	3
ECON 350—Microeconomic Theory	3
ENG 202—Introduction to Literature	3
MATH 354—Business Statistics	3
Elective	1
	16

JUNIOR YEAR

First Semester	
MNGT 301—Principles of Management	3
MKT 304—Marketing	3
FIN 342—Money and Banking	3
ECON 551—Macroeconomic Theory	3
Electives	6
	18

Second Semester	
FIN 360—Business Finance	3
MNGT 472—Business Policies and Problems	3
ECON 547—International Economics	3
SPCH 370—Business and Professional Speech	3
MNGT 306—Production Management	3
	15

SENIOR YEAR

First Semester	
ECON 541—Public Finance	3
MNGT 461—Business Law I	3
*Economics elective	3
Electives	6
	15

Second Semester	
*Economics elective	3
Electives	13
	16

*To be selected with consent of faculty advisor.

BBA—Finance—Option

This program of studies is recommended for students who wish a background in financial management. Excellent career opportunities are available in consumer finance, banking, insurance, and in financial administration at the corporate level.

Course Requirements

	Sem. Hrs.
BBA Core	33
ACCT 384—Intermediate Accounting I	3
ACCT 387—Income Tax	3
FIN 343—Investments	3
FIN 560—Financial Markets	3
FIN 342—Money and Banking	3
*Approved electives	6
	54

Suggested Course Sequence

FRESHMAN YEAR

First Semester	
ENG 101—Composition I	3
HLTH 150—Personal Health	2
MATH 160—Mathematics for Business and Economics	4
PHED—activity	1
SCI—Physical Science	3
General education (Soc. or Psy.)	3
	16

Second Semester	
DATA 201—Introduction to Computers	3
ENG 102—Composition II	3
SCI—Biological Science	3
General education (Govt. or Geog.)	3
Elective	3
	15

SOPHOMORE YEAR

First Semester	
ACCT 281—Principles of Accounting I	3
OADM 221—Business Communications	3
ECON 201—Principles of Economics I	3
ENG 202—Introduction to Literature	3
General education (Hum. or Comm.)	3
Elective	3
	18

Second Semester	
ACCT 282—Principles of Accounting II	3
MKT 304—Marketing	3
ECON 202—Principles of Economics II	3
Electives	6
	15

JUNIOR YEAR

First Semester	
ACCT 384—Intermediate Accounting I	3
MNGT 301—Principles of Management	3
ECON 350—Microeconomic Theory	3
MATH 354—Business Statistics	3
Elective	5
	17

Second Semester	
ACCT 387—Income Tax	3
FIN 360—Business Finance	3
SPCH 370—Business and Professional Speech	3
MNGT 306—Production Management	3
Electives	3
	15

SENIOR YEAR

First Semester	
MNGT 461—Business Law I	3
FIN 342—Money & Banking	3
FIN 343—Investments	3
*Finance electives	3
Elective	3
	15

Second Semester	
MNGT 472—Business Policies and Problems	3
FIN 560—Financial Markets	3
*Finance elective	3
Electives	6
	15

*To be selected with consent of faculty advisor.

BS—Economics—Minor

Students selecting programs with economics minors should first consult with advisors in their major areas. Economics Department advisors are always available for assistance.

Course Requirements

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

*To be selected with consent of faculty advisor.

Descriptions of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall, II—spring, III—summer.

ECONOMICS

ECON 101. Introduction to the American Economy. (3-0-3); I, II. 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 economics major, minor, or option; not open to those who have had ECON 201 or equivalent.)

ECON 139. Cooperative Study I. (1 to 8 hrs.); on demand. One semester of work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course.

ECON 199. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various economic subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in economics. Individual credit toward degree programs must be approved by the student's advisor.

ECON 201. Principles of Economics I. (3-0-3); I, II, III. 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, III. Prerequisite: ECON 201. A continuation of ECON 201 with emphasis on the theory of the firm, resource allocation, and international economics.

ECON 239. Cooperative Study II. (1 to 8 hrs.); on demand. One semester of work experience with an extension of exposure gained in ECON 139 or of a nature similar to a sophomore status course.

ECON 302. Labor Economics. (3-0-3); I, II. Prerequisite: ECON 201 or junior standing. 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 201 and 202. 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 Study III. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a junior level course.

ECON 350. Microeconomic Theory. (3-0-3); I, II, III. Prerequisites: MATH 160, ECON 201 and 202. 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 discussed may vary semester to semester.

ECON 399. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various economic subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in economics. Individual credit toward degree programs must be approved by the student's advisor.

ECON 439. Cooperative Study IV. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a senior level course.

ECON 476. Special Problems in Economics. (1 to 3 hrs.); I, II, III. Prerequisites: open to majors or minors in economics with prior consent of the instructor. This course is designed to permit students to pursue independent studies of economic problems of special interest. Students must present a suggested problem and justification for the study in writing 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); I. Prerequisites: MATH 160 and 354. Application of mathematical and statistical techniques to the theory of the firm, market, and national income models.

ECON 501. Environmental Economics. (3-0-3); II. Prerequisites: ECON 201 and 202 or consent of instructor. 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 201 and 202. 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 504. Survey of Economic Theory. (3-0-3); I, II. A survey of economic analysis, including both the theory of the firm and national income determination. (Cannot be used to satisfy requirements for any undergraduate program of the School of Business and Economics.)

ECON 510. History of Economic Thought. (3-0-3); on demand. Prerequisites: ECON 201 and 202. The origin and development of economic theories from the Mercantilist through modern times.

ECON 539. Cooperative Study V. (1 to 8 hrs.); on demand. One semester of work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students.

ECON 541. Public Finance. (3-0-3); I. Prerequisites: ECON 201 and 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 201 and 202 or ECON 504. 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); I. Prerequisites: ECON 201 and 202 or consent of instructor. 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); I. Prerequisites: ECON 201 and 202 or ECON 504. 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 consent of instructor. 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 economics major, minor, or option, nor as an elective in the MBA program).

ECON 599. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various economic subjects will be presented periodically based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in economics. Individual credit toward degree programs must be approved by the student's advisor.

FINANCE

FIN 139. Cooperative Study I. (1 to 8 hrs.); on demand. One semester of work experience in a field relevant to the student's career objective and academic preparation. Experience is usually analogous to a freshman level course.

FIN 199. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various finance subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in finance. Individual credit toward degree programs must be approved by the student's advisor.

FIN 239. Cooperative Study II. (1 to 8 hrs.); on demand. One semester of work experience with an extension of exposure gained in FIN 139 or of a nature similar to a sophomore status course.

FIN 252. Mathematics of Finance. (3-0-3); I, II. Interest annuities, amortization, sinking funds, bond valuation, life insurance.

FIN 264. Personal Finance. (3-0-3); II. Planning personal finance, financial statements, budgeting, managing financial and non-financial assets, taxes, insurance, and estate planning.

FIN 325. Bank Management. (3-0-3); I. Prerequisite: consent of instructor. Organization and operation of the commercial bank.

FIN 339. Cooperative Study III. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a junior level status.

FIN 342. Money and Banking. (3-0-3); I. Prerequisite: ECON 201. Origin, development, and functions of money; banking functions and processes; the Federal Reserve System and monetary policy.

FIN 343. Investments. (3-0-3); II. Prerequisite: ECON 201. Investment risks, security analysis, investment policy-making, both individual and institutional.

FIN 360. Business Finance. (3-0-3); I, II, III. Prerequisites: ACCT 282, ECON 202. 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 in various finance subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in finance. Individual credit toward degree programs must be approved by the student's advisor.

FIN 408. Risk Management and Property and Casualty Insurance. (3-0-3); on demand. Prerequisite: ECON 202. Nature of risk and risk-bearing organization, operations and management of insurance business, fundamentals of insurance and contracts, survey of fire and casualty insurance.

FIN 409. Life and Health Insurance. (3-0-3); on demand. A study of the principles and practices of life and health insurance. Includes principal features and uses of life and health contracts. Also covers annuities and group, social, and industrial insurance.

FIN 439. Cooperative Study IV. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a senior level course.

FIN 476. Special Problems in Finance. (1 to 3 hrs.); I, II, III. Prerequisite: Open to majors and minors in finance with prior consent of the instructor. This course is designed to permit students to pursue independent studies of finance problems of special interest. Students must present a suggested problem and justification for the study in writing prior to registration. Each request will be considered on its own merit in relation to the special needs of the student.

FIN 501. Survey of Finance. (3-0-3); I, II. A general course in financial concepts of the business firm. (Cannot be used to satisfy requirements for any undergraduate program of the School of Business and Economics.)

FIN 539. Cooperative Study V. (1 to 8 hrs.); on demand. One semester of work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students.

FIN 560. Financial Markets. (3-0-3); I, II. Prerequisite: ECON 201 and 202. 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 in various finance subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in finance. Individual credit toward degree programs must be approved by the student's advisor.

Information Sciences

The Department of Information Sciences offers the following:

1. One-year Certificate Programs
 - a. Clerical Studies
 - b. Secretarial Studies
2. Two-year programs leading to an Associate of Applied Business Degree (AAB) in
 - a. Data Processing
 - b. Office Management
 - c. Secretarial Studies with options in
 - (1) General
 - (2) Legal
 - (3) Medical
3. Four-year programs leading to a BBA degree with an option in
 - a. Basic Business
 - b. Data Processing
 - c. Secretarial Studies
4. Four-year program MINOR
 - a. Basic Business
 - b. Data Processing
 - c. Secretarial Studies

One-Year Certificate Programs

These curricula are designed for those students who have immediate occupational objectives and who do not plan initially to pursue a degree program. After successful completion of 32 semester hours of directed course work, students are awarded certificates of completion in either clerical or secretarial studies. Sufficient preparation is provided for jobs as typists, receptionists, stenographers, and office machine operators. Courses completed in the one-year program may be applied toward degree programs, provided the regular University general education requirements are met.

Certificate—Clerical Studies

Clerical studies is especially designed for students who are not interested in the development of shorthand skills but who want to master the related office skills and knowledge.

Course Requirements

	Sem. Hrs.
OADM 136—Business Calculations	3
OADM 190—Office Accounting	3
OADM—Typewriting	6
OADM 221—Business Communications	3
OADM 337—Machine Transcription/Reprographics	3
OADM 340—Simulated Office Education	
OR	
OADM 363—Office Management	3
MNGT 160—Introduction to Business	3
DATA 201—Introduction to Computers	3
ENG 101—Composition I	3
Approved electives	2
	32

Suggested Course Sequence

First Semester	
OADM 136—Business Calculations	3
OADM—Typewriting	3
DATA 201—Introduction to Computers	3
ENG 101—Composition I	3
OADM 221—Business Communications	3
Approved elective	1
	16
Second Semester	
OADM 190—Office Accounting	3
OADM—Typewriting	3
OADM 337—Machine Transcription/Reprographics	3
OADM 340—Simulated Office Education	
OR	
OADM 363—Office Management	3
MNGT 160—Introduction to Business	3
Approved elective	1
	16

Certificate—Secretarial Studies

This program is designed primarily for students who desire to develop proficiency in the art of shorthand writing and transcription and related secretarial skills.

Course Requirements

OADM 136—Business Calculations	3
OADM 190—Office Accounting	3
OADM—Typewriting	6
OADM—Shorthand	6
DATA 201—Introduction to Computers	3
OADM 221—Business Communications	3
OADM 337—Machine Transcription/Reprographics	3
OADM 340—Simulated Office Education	
OR	
OADM 363—Office Management	3
ENG 101—Composition I	3
	33

Suggested Course Sequence

First Semester	
OADM 136—Business Calculations	3
OADM—Typewriting	3
OADM—Shorthand	3
ENG 101—Composition I	3
DATA 201—Introduction to Computers	3
	15
Second Semester	
OADM—Typewriting	3
OADM—Shorthand	3
OADM 221—Business Communications	3
OADM 190—Office Accounting	3
OADM 337—Machine Transcription/Reprographics	3
OADM 340—Simulated Office Education	
OR	
OADM 363—Office Management	3
	18

AAB—Data Processing

The two-year program in data processing technology is recommended for students interested in acquiring skills in electronic computer operations, business applications of computers, and programming. The program is designed to meet specific needs of business, industry, and professional organizations for trained programming personnel.

Required Courses

	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
MNGT 160—Introduction to Business	3
DATA 201—Introduction to Computers	3
DATA 202—Computer Programming BASIC	3
DATA 210—Computer Programming ASSEMBLER I	3
DATA 215—Computer Programming COBOL I	3
DATA 260—FORTRAN Programming I	3
DATA 315—Computer Programming COBOL II	3
DATA 320—Computerized Business Systems	3
DATA 405—Systems Analysis and Design	3
FIN 252—Mathematics of Finance	3

OADM 221—Business Communications	3
ECON 201—Principles of Economics I	3
ENG 101—Composition I	3
ENG 102—Composition II	3
MATH 160—Mathematics for Business & Economics	4
SPCH 370—Business and Professional Speech	3
Approved electives	9
	64

Suggested Course Sequence

First Semester

MNGT 160—Introduction to Business	3
DATA 201—Introduction to Computers	3
DATA 202—Computer Programming BASIC	3
ENG 101—Composition I	3
MATH 160—Mathematics for Business & Economics	4
	16

Second Semester

ACCT 281—Principles of Accounting	3
DATA 210—Computer Programming ASSEMBLER I	3
DATA 260—FORTRAN Programming I	3
OADM 221—Business Communications	3
ENG 102—Composition II	3
SPCH 370—Business and Professional Speech	3
	18

Third Semester

ACCT 282—Principles of Accounting II	3
DATA 215—Computer Programming COBOL I	3
DATA 320—Computerized Business Systems	3
ECON 201—Principles of Economics I	3
Approved elective	3
	15

Fourth Semester

FIN 252—Mathematics of Finance	3
DATA 315—Computer Programming COBOL II	3
DATA 405—Systems Analysis & Design	3
Approved electives	6
	15

AAB—Office Management

This program is designed to prepare graduates for positions as administrative assistants.

Course Requirements

Sem. Hrs.

OADM 136—Business Calculations	3
OADM 190—Office Accounting	3
OADM—Typewriting	6
OADM 221—Business Communications	3
OADM 337—Machine Transcription/Reprographics	3
OADM 340—Simulated Office Education	3
OADM 350—Records Management	3
OADM 363—Office Management	3
MNGT 160—Introduction to Business	3
DATA 201—Introduction to Computers	3
MNGT 301—Principles of Management	3
ACCT 281—Principles of Accounting I	3
ECON 201—Principles of Economics I	3
ENG 101—Composition I	3
ENG 102—Composition II	3
SPCH 370—Business and Professional Speech	3
Approved electives	13
	64

Suggested Course Sequence

First Semester

OADM 136—Business Calculations	3
OADM—Typewriting	3
MNGT 160—Introduction to Business	3
ENG 101—Composition I	3
DATA 201—Introduction to Computers	3
Elective	1
	16

Second Semester

OADM 190—Office Accounting	3
OADM—Typewriting	3
ENG 102—Composition II	3
OADM 350—Records Management	3
Electives	4
	16

Third Semester

ACCT 281—Principles of Accounting I	3
OADM 337—Machine Transcription/Reprographics	3

OADM 221—Business Communications	3
MNGT 301—Principles of Management	3
Electives	4
	16

Fourth Semester

OADM 340—Simulated Office Education	3
OADM 363—Office Management	3
ECON 201—Principles of Economics I	3
SPCH 370—Business and Professional Speech	3
Electives	4
	16

AAB—Secretarial Studies

This program is designed to prepare graduates for positions as stenographers or secretaries in business, industry, government, legal, or medical fields.

Course Requirements

Sem. Hrs.

OADM 136—Business Calculations	3
OADM 190—Office Accounting	3
OADM 212—Intermediate Typewriting	3
OADM 213—Advanced Typewriting	3
OADM—Shorthand	9
OADM 221—Business Communications	3
OADM 340—Simulated Office Education	3
OADM 363—Office Management	3
DATA 201—Introduction to Computers	3
ENG 101—Composition I	3
ENG 102—Composition II	3
SPCH 370—Business and Professional Speech	3
*Approved electives	22
	64

*Electives may be applied for emphasis in specific areas as follows:

(1) General Secretary Electives

OADM 337—Machine Transcription/Reprographics	3
OADM 350—Records Management	3
ECON 201—Principles of Economics I	3
Approved electives	13

(2) Legal Secretary Electives

OADM 334—Legal Office Procedures	3
OADM 398—Supervised Field Experience	1
MNGT 461—Business Law I	3
GOVT 141—American Government	3
GOVT 380—American Courts and Civil Rights	3
Approved electives	9

(3) Medical Secretary Electives

OADM 332—Medical Assisting Administrative Procedures I	3
OADM 333—Medical Assisting Administrative Procedures II	3
AHS 302—Medical Terminology	2
PSY 154—Introduction to Psychology	3
Approved electives	11

Suggested Course Sequence

(1) General Secretary Emphasis

First Semester

OADM 136—Business Calculations	3
OADM 212—Intermediate Typewriting	3
OADM—Shorthand	3
ENG 101—Composition I	3
Electives	4
	16

Second Semester

OADM 190—Office Accounting	3
OADM 213—Advanced Typewriting	3
OADM—Shorthand	3
ENG 102—Composition II	3
Electives	4
	16

Third Semester

OADM—Shorthand	3
OADM 221—Business Communications	3
OADM 337—Mach. Trans./Reprographics	3
OADM 350—Records Management	3
Electives	4
	16

Fourth Semester

OADM 340—Simulated Office Education	3
OADM 363—Office Management	3
SPCH 370—Business and Professional Speech	3

ECON 201—Principles of Economics I	3
DATA 201—Introduction to Computers	3
Elective	1
	16

(2) Legal Secretary Emphasis**First Semester**

OADM 136—Business Calculations	3
OADM 212—Intermediate Typewriting	3
OADM—Shorthand	3
ENG 101—Composition I	3
GOVT 141—American Government	3
Elective	1
	16

Second Semester

OADM 190—Office Accounting	3
OADM 213—Advanced Typewriting	3
OADM—Shorthand	3
ENG 102—Composition II	3
GOVT 380—American Courts & Civil Rights	3
Elective	1
	16

Third Semester

OADM—Shorthand	3
OADM 221—Business Communications	3
OADM 340—Simulated Office Education	3
OADM 334—Legal Office Procedures	3
MNGT 461—Business Law I	3
Elective	1
	16

Fourth Semester

OADM 363—Office Management	3
DATA 201—Introduction to Computers	3
SPCH 370—Business and Professional Speech	3
BSFD 398—Supervised Field Experience	1
Electives	6
	16

(3) Medical Secretary Emphasis**First Semester**

OADM 136—Business Calculations	3
OADM 212—Intermediate Typewriting	3
OADM—Shorthand	3
ENG 101—Composition I	3
AHS 302—Medical Terminology	2
Electives	2
	16

Second Semester

OADM 190—Office Accounting	3
OADM 213—Advanced Typewriting	3
OADM—Shorthand	3
ENG 102—Composition II	3
PSY 154—Introduction to Psychology	3
Elective	1
	16

Third Semester

OADM—Shorthand	3
OADM 221—Business Communications	3
OADM 332—Medical Assisting Adm. Procedures I	3
DATA 201—Introduction to Computers	3
Electives	4
	16

Fourth Semester

OADM 340—Simulated Office Education	3
OADM 363—Office Management	3
SPCH 370—Business and Professional Speech	3
OADM 333—Medical Assisting Adm. Procedures II	3
Electives	4
	16

Bachelor of Business Administration Core

The Bachelor of Business Administration includes a core of courses which are designed to provide the student in business and economics with a base from which to pursue course work in his or her special area of interest.

Business Administration Core

	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
DATA 201—Introduction to Computers	3

MNGT 301—Principles of Management	3
MKT 304—Marketing	3
FIN 360—Business Finance	3
MNGT 306—Production Management	3
MNGT 461—Business Law I	3
MNGT 472—Business Policies and Problems	3
OADM 221—Business Communications	3
ECON 350—Microeconomics	3
	33

BBA—Data Processing—Option

This option is designed to prepare students for positions of responsibility in the rapidly developing fields of computers, data processing, information technology, and systems design.

Course Requirements

	Sem. Hrs.
BBA Core	33
DATA 202—Computer Programming BASIC	3
DATA 210—Computer Programming ASSEMBLER I	3
DATA 215—Computer Programming COBOL I	3
DATA 260—FORTRAN Programming I	3
DATA 315—Computer Programming COBOL II	3
DATA 320—Computerized Business Systems	3
DATA 405—Systems Analysis and Design	3
	54

Suggested Course Sequence**FRESHMAN YEAR****First Semester**

DATA 201—Introduction to Computers	3
ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
SCI—Physical Science	3
GOVT or GEOG elective	3
	16

Second Semester

DATA 202—Computer Programming BASIC	3
ENG 102—Composition II	3
HUM—humanities elective	3
SCI—Biological Science	3
PSY 154—Introduction to Psychology	3
OR	
SOC elective	
PHED—activity elective	1
	16

SOPHOMORE YEAR**First Semester**

ACCT 281—Principles of Accounting I	3
DATA 210—Computer Programming ASSEMBLER I	3
ECON 201—Principles of Economics I	3
HLTH 150—Personal Health	2
ENG—literature elective	3
Electives	3
	17

Second Semester

ACCT 282—Principles of Accounting II	3
OADM 221—Business Communications	3
ECON 202—Principles of Economics II	3
SPCH 370—Business and Professional Speech	3
DATA 260—FORTRAN Programming I	3
	15

JUNIOR YEAR**First Semester**

DATA 215—Computer Programming COBOL I	3
DATA 320—Computerized Business Systems	3
MNGT 301—Principles of Management	3
FIN 360—Business Finance	3
Electives	4
	16

Second Semester

MKT 304—Marketing	3
DATA 315—Computer Programming COBOL II	3
MATH 354—Business Statistics	3
Electives	7
	16

SENIOR YEAR**First Semester**

MNGT 461—Business Law I	3
ECON 350—Microeconomics	3

MNGT 306—Production Management	3
Electives	7
	16
Second Semester	
DATA 405—Systems Analysis and Design	3
MNGT 472—Business Policies and Problems	3
Electives	10
	16

Core for Teacher Education Programs

	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
DATA 201—Introduction to Computers	3
MNGT 301—Principles of Management	3
MKT 304—Marketing	3
FIN 360—Business Finance	3
MNGT 461—Business Law I	3
OADM 136—Business Calculations	3
OADM 221—Business Communications	3
	27

BBA—Basic Business—Option

Students wishing to teach in the non-secretarial programs in business on the secondary level should select the basic business option. This curriculum will satisfy certification requirements for teaching accounting and basic business courses. In addition, an endorsement for teaching advanced data processing may be added to a high school certificate upon completion of a total of 9 semester hours credit in data processing.

Course Requirements

	Sem. Hrs.
BBA—Teacher education core	27
OADM 190—Office Accounting	3
OADM 212—Intermediate Typewriting	3
OADM 337—Machine Transcription/Reprographics	3
OADM 340—Simulated Office Education	3
OADM 350—Records Management	3
OADM 363—Office Management	3
ACCT—elective	3
FIN 264—Personal Finance	3
BSED 375—Teaching Typewriting and Office Practice	3
BSED 475—Teaching Accounting and Basic Business	2
	56

Suggested Course Sequence

FRESHMAN YEAR

First Semester	
OADM 136—Business Calculations	3
OADM 212—Intermediate Typewriting	3
DATA 201—Introduction to Computers	3
ENG 101—Composition I	3
SCI—Biological Science	3
PHED—activity elective	1
	16

Second Semester	
OADM 190—Office Accounting	3
OADM 221—Business Communications	3
ENG 102—Composition II	3
HLTH 150—Personal Health	2
SCI—Physical Science	3
GOVT or GEOG elective	3
	17

SOPHOMORE YEAR

First Semester	
ACCT 281—Principles of Accounting I	3
MATH 160—Math for Business and Economics	4
EDSE 209—Foundations in Secondary Education	2
ENG—literature elective	3
FIN 264—Personal Finance	3
Elective	1
	16

Second Semester	
MNGT 301—Principles of Management	3
ACCT 282—Principles of Accounting II	3
OADM 350—Records Management	3

ECON 201—Principles of Economics I	3
EDSE 310—Principles of Adolescent Development	3
PSY 154—Introduction to Psychology	3
OR	
SOC elective	18

JUNIOR YEAR

First Semester	
MKT 304—Marketing	3
OADM 337—Machine Transcription/Reprographics	3
OADM 363—Office Management	3
SPCH 370—Business and Professional Speech	3
MATH 354—Business Statistics	3
	15

Second Semester	
OADM 340—Simulated Office Education	3
FIN 360—Business Finance	3
ACCT—elective	3
ECON 202—Principles of Economics II	3
BSED 375—Teaching Typewriting & Office Practice	3
	15

SENIOR YEAR

First Semester	
MNGT 461—Business Law I	3
BSED 475—Teaching Accounting & Basic Business	2
HUM—humanities elective	3
PHIL 200—Introduction to Philosophy	3
Elective	3
	14

Second Semester	
EDSE 477—Professional Semester	17

BBA—Secretarial Studies—Option

Students wishing to teach in the secretarial programs or clerical programs on the secondary level should select the secretarial studies option. This curriculum will satisfy certification requirements for teaching typewriting, shorthand, and related secretarial and clerical courses.

Course Requirements

	Sem. Hrs.
BBA—Teacher education core	27
OADM 212—Intermediate Typewriting	3
OADM 213—Advanced Typewriting	3
OADM 232—Shorthand II	3
OADM 331—Shorthand III	3
OADM 337—Machine Transcription/Reprographics	3
OADM 340—Simulated Office Education	3
OADM 350—Records Management	3
OADM 363—Office Management	3
BSED 375—Teaching Typewriting and Office Practice	3
BSED 376—Teaching Shorthand and Transcription	1
	55

Suggested Course Sequence

FRESHMAN YEAR

First Semester	
OADM 136—Business Calculations	3
OADM 212—Intermediate Typewriting	3
ENG 101—Composition I	3
SCI—Biological Science	3
OADM 232—Shorthand II	3
PHED—activity elective	1
	16

Second Semester	
ACCT 281—Principles of Accounting I	3
OADM 221—Business Communications	3
OADM 213—Advanced Typewriting	3
OADM 331—Shorthand III	3
MATH 160—Mathematics for Business and Economics	4
	16

SOPHOMORE YEAR

First Semester	
ACCT 282—Principles of Accounting II	3
DATA 201—Introduction to Computers	3
OADM 337—Machine Transcription/Reprographics	3
PSY 154—Introduction to Psychology	3
OR	
SOC elective	
EDSE 209—Foundations of Secondary Education	2
ENG 102—Composition II	3
	17

Second Semester	
MNGT 301—Principles of Management	3
OADM 350—Records Management	3
MATH 354—Business Statistics	3
ENG—literature elective	3
ECON 201—Principles of Economics	3
HLTH 150—Personal Health	2
	17

JUNIOR YEAR

First Semester	
MKT 304—Marketing	3
OADM 340—Simulated Office Education	3
EDSE 310—Principles of Adolescent Development	3
SPCH 370—Business and Professional Speech	3
SCI—Physical Science	3
Elective	1
	16

Second Semester	
FIN 360—Business Finance	3
ECON 202—Principles of Economics II	3
OADM 363—Office Management	3
HUM—humanities elective	3
BSED 375—Teaching Typewriting and Office Practice	3
	15

SENIOR YEAR

First Semester	
MNGT 461—Business Law I	3
BSED 376—Teaching Shorthand & Transcription	1
PHIL 200—Introduction to Philosophy	3
GOVT or GEOG elective	3
Electives	4
	14

Second Semester	
EDSE 477—Professional Semester	17

BS—Data Processing—Minor

Students selecting a data processing minor should first consult with advisors in their major areas. Departmental advisors in data processing are also available for assistance.

Course Requirements

	Sem. Hrs.
DATA 201—Introduction to Computers	3
DATA 202—Computer Programming BASIC	3
OR	
DATA 260—FORTRAN Programming I	3
DATA 210—Computer Programming ASSEMBLER I	3
DATA 215—Computer Programming COBOL I	3
DATA 315—Computer Programming COBOL II	3
DATA 320—Computerized Business Systems	3
DATA 405—Systems Analysis and Design	3
DATA elective	3
	24

BS—Basic Business—Minor

A minor is offered in basic business for those students who are majoring in another discipline and who do not desire teacher certification in business education.

Course Requirements

	Sem. Hrs.
OADM 136—Business Calculations	3
OADM 190—Office Accounting	3
OADM—Typewriting	3
OADM 221—Business Communications	3
OADM 363—Office Management	3
DATA 201—Introduction to Computers	3
Approved elective	3
	21

BS—Secretarial Studies—Minor

A minor in secretarial studies is offered for those students who have a major in another discipline and who do not desire teacher certification in business education.

Course Requirements

	Sem. Hrs.
OADM 136—Business Calculations	3
OADM 190—Office Accounting	3

OADM—Typewriting	6
OADM—Shorthand	6
OADM 337—Machine Transcription/Reprographics	3
	21

Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, and 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall, II—spring, III—summer.

DATA PROCESSING

DATA 139. Cooperative Study I. (1 to 8 hrs.); on demand. One semester of work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course.

DATA 199. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various data processing subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in data processing. Individual credit toward degree programs must be approved by the student's advisor.

DATA 201. Introduction to Computers. (3-0-3); I, II, III. Survey of computer systems, including hardware and software features. Machine and program logic. Flow-charting techniques, use of decision tables. Survey of computer languages.

DATA 202. Computer Programming BASIC. (3-0-3); I, II, III. Pre- or co-requisite: DATA 201. Programming the computer using the BASIC language. No prior knowledge is assumed. Emphasis on problem solving and interactive mode programming.

DATA 210. Computer Programming ASSEMBLER I. (3-0-3); I, II, III. Prerequisite: DATA 202. Programming a stored program computer using ASSEMBLER language. Interpretation of machine code and memory dumps in hexadecimal rotation. The binary instruction set, condition code, mask and branching, looping, and subroutines.

DATA 215. Computer Programming COBOL I. (3-0-3); I. Prerequisite: DATA 210. Practical business applications programming using COBOL language. Card input and printer output will be used.

DATA 216. Programming in PL/1. (3-0-3); I. Prerequisite: DATA 210. Fundamentals of programming in the PL/1 computer language. Practical business and scientific applications emphasized in the programming assignments.

DATA 239. Cooperative Study II. (1 to 8 hrs.); on demand. One semester of work experience with an extension of exposure gained in DATA 139 or of a nature similar to a sophomore status course.

DATA 260. FORTRAN Programming I. (3-0-3); I, II. Prerequisite: DATA 202. 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.

DATA 315. Computer Programming COBOL II. (3-0-3); II. Prerequisite: DATA 215. Advanced computer programming using COBOL. Tape and disk file structures and processing are emphasized.

DATA 316. Advanced PL/1 Programming. (3-0-3); II. Prerequisite: DATA 216. Advanced computer programming using PL/1. Data structures, tape, and disk file structures and processing will be emphasized using business and scientific applications.

DATA 320. Computerized Business Systems. (3-0-3); I. Prerequisite: DATA 215 or 216. Hardware and software specifications, operating systems, programming systems, information theory, development, and use of computerized business applications.

DATA 339. Cooperative Study III. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a junior level status.

DATA 399. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various data processing subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in data processing. Individual credit toward degree programs must be approved by the student's advisor.

DATA 405. Systems Analysis and Design. (3-0-3); II. Prerequisite: DATA 215. Systems analysis, feasibility studies, economic cost comparisons, systems implementation, the tools of systems analysis.

DATA 439. Cooperative Study IV. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a senior level course.

DATA 476. Special Problems in Data Processing. (1 to 3 hrs.); I, II, III. Prerequisite: open to majors and minors in data processing with prior consent of the instructor. This course is designed to permit students to pursue independent studies of data processing problems of special interest. Students must

present a suggested problem and justification for the study in writing prior to registration. Each request will be considered on its own merit in relation to the special needs of the student.

DATA 515. Data Processing Field Project. (3-0-3); II. Prerequisites: DATA 215 or 216 and permission of instructor. Experience in actual data processing situations outside the classroom; students assigned in University's data processing center and other approved computer facilities.

DATA 516. Educational Data Processing. (3-0-3); III. Basic concepts pertaining to computers. Application in education, research, and administration. Designed primarily for students without previous data processing instruction.

DATA 526. Data Base Management Systems. (3-0-3); II, III. Prerequisite: DATA 320. Data base structures, creation, modification, processing, and physical representation.

DATA 539. Cooperative Study V. (1 to 8 hrs.); on demand. One semester of work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students.

DATA 599. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various data processing subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in data processing. Individual credit toward degree programs must be approved by the student's advisor.

OFFICE ADMINISTRATION

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 139. Cooperative Study I. (1 to 8 hrs.); on demand. One semester of work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course.

OADM 190. Office Accounting. (3-0-3); I, II, III. Accounting systems and financial records for professions, small businesses, and institutions. Practice sets simulate accounting cycle.

OADM 199. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various office administration subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in office administration. Individual credit toward degree programs must be approved by the student's advisor.

OADM 211. 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 212. Intermediate Typewriting. (3-0-3); I, II. Prerequisite: OADM 211 or equivalent, or consent of instructor. Development of speed and accuracy. Business letter styles, manuscripts, and various business forms emphasized.

OADM 213. Advanced Typewriting. (3-0-3); II. Prerequisite: OADM 212 or equivalent. Production typewriting stressed. Emphasis on typing business letters, memorandums, manuscripts, statistical reports, and specialized business forms and reports.

OADM 221. Business Communications. (3-0-3); I, II, III. Recommended prerequisites: ENG 102 and typewriting competency. Current principles in business letter and report writing, stressing human relations approach.

OADM 231. Shorthand I. (3-0-3); I. Prerequisite: OADM 211 or equivalent. Fundamental principles of Gregg Shorthand. The development of skill in reading, writing, and transcribing. Designed for students with no previous shorthand instruction.

OADM 232. Shorthand II. (3-0-3); II. Prerequisite: OADM 231 or equivalent. Mastery of principles of Gregg Shorthand emphasizing speed and accuracy in reading, writing, vocabulary, punctuation, spelling, and mailability.

OADM 239. Cooperative Study II. (1 to 8 hrs.); on demand. One semester of work experience with an extension of exposure gained in OADM 139 or of a nature similar to a sophomore status course.

OADM 331. Shorthand III. (3-0-3); I. Prerequisite: OADM 232 or equivalent. Accuracy and speed in writing and transcribing Gregg Shorthand. Emphasis on mailability.

OADM 332. Medical Assisting Administrative Procedures I. (3-0-3); II. Mastery of and application of filing rules, machine transcription techniques, copying and duplicating techniques, and calculating machines and their use in medical offices.

OADM 333. Medical Assisting Administrative Procedures II. (3-0-3); I. Prerequisite: OADM 332. Materials, methods, and techniques for the medical assistant, with emphasis on decision making as it relates to the supervision and management of office personnel, patients, and information processing.

OADM 334. Legal Office Procedures. (3-0-3); II. Prerequisite: OADM 212 and OADM 232. Materials, methods, and techniques for the legal secretary, with emphasis on legal office routine, legal information processing, and human relations.

OADM 337. Machine Transcription/Reprographics. (3-0-3); I, II. Prerequisite: OADM 212. Transcribing from voice-writing equipment of general of-

fice correspondence with an introduction to machine dictation; mastery of office duplicating and copying processes.

OADM 339. Cooperative Study III. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a junior level status.

OADM 340. Simulated Office Education. (3-0-3); I, II. Prerequisites: OADM 136, OADM 212, and OADM 337. Bridging the gap between theoretical classroom learning and employment preparation through simulation of the real work involved in office occupations within a specific company.

OADM 350. Records Management. (3-0-3); I. Emphasis on the records management cycle: creating, storing, retrieving, retaining, and destructing.

OADM 363. Office Management. (3-0-3); I, II, III. 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 399. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various office administration subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in office administration. Individual credit toward degree programs must be approved by the student's advisor.

OADM 431. Shorthand IV. (3-0-3); on demand. Prerequisite: OADM 331 or equivalent. Dictation and transcription of five-minute speed tests and mailable letters of increased difficulty. Office-style dictation and transcription.

OADM 439. Cooperative Study IV. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a senior level course.

OADM 476. Special Problems in Office Administration. (1 to 3 hrs.); I, II, III. Prerequisite: open to majors and minors in office administration with prior consent of the instructor. This course is designed to permit students to pursue independent studies of office administration problems of special interest. Students must present a suggested problem and justification for the study in writing prior to registration. Each request will be considered on its own merit in relation to the special needs of the student.

OADM 539. Cooperative Study V. (1 to 8 hrs.); on demand. One semester of work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students.

OADM 599. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various office administration subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in office administration. Individual credit toward degree programs must be approved by the student's advisor.

BUSINESS EDUCATION

BSED 375. Teaching Typewriting and Office Practice. (3-0-3); II. Prerequisites: OADM 136, 212, 337, and formal admission to teacher education program. Objectives, approaches to teaching, lesson plans, skill building techniques, materials, methods, aids, testing, measurement, grading.

BSED 376. Teaching Shorthand and Transcription. (1-0-1); I. Prerequisites: OADM 331 and formal admission to teacher education program. Objectives, approaches to teaching, lesson plans, skill building techniques, testing, measurement, grading, materials, methods, aids.

BSED 398. Supervised Field Experience. (1 to 3 hrs.); I, II, III. 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.

BSED 475. Teaching Accounting and Basic Business. (2-0-2); I. Prerequisites: ACCT 281 and 282 and formal admission to teacher education program. Behavioral objectives, lesson plans, approaches to teaching, competency building techniques, materials, methods, aids, testing, measurement, grading.

BSED 476. Special Problems in Business Education. (1 to 3 hrs.); I, II, III. Prerequisite: consent of student's advisor. Independent work in an area selected by the student.

Management and Marketing

The Department of Management and Marketing offers the following:

- Two-year programs leading to an Associate of Applied Business degree (AAB) in
 - Real Estate
 - Small Business Management

2. Four-year programs leading to a Bachelor of Business Administration degree (BBA) with a concentration in Business Administration as an OPTION in
 - a. Management
 - b. Marketing
 - c. Real Estate
3. Four-year programs leading to a Bachelor of Science degree (BS) with a MINOR in
 - a. Business Administration
 - b. Marketing
 - c. Real Estate

AAB—Real Estate

The two-year program in real estate is recommended for students who desire to become real estate salesmen or brokers, as well as those who are presently engaged as part or full-time real estate persons.

Course Requirements

	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
REAL 105—Principles of Real Estate	3
REAL 120—Real Estate Marketing	3
REAL 125—Appraisal of Residential Property	3
REAL 205—Real Estate Law	3
REAL 331—Real Estate Finance	3
REAL 400—Real Estate Brokerage	3
FIN 252—Math of Finance	3
FIN 408—Risk Management of Property & Casualty Insurance	3
OADM 221—Business Communication	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
SOC 101—General Sociology	3
DATA 201—Introduction to Computers	3
Real estate elective	3
Approved electives	10
	64

Suggested Course Sequence

First Semester	
ACCT 281—Principles of Accounting I	3
REAL 105—Real Estate Principles	3
ECON 201—Principles of Economics I	3
ENG 101—Composition I	3
SOC 101—General Sociology	3
	15
Second Semester	
ACCT 282—Principles of Accounting II	3
REAL 205—Real Estate Law	3
ENG 102—Composition II	3
FIN 252—Mathematics of Finance	3
ECON 202—Principles of Economics II	3
	15
Third Semester	
REAL 120—Real Estate Marketing	3
REAL 125—Appraisal of Residential Property	3
REAL 331—Real Estate Finance	3
Electives	8
	17
Fourth Semester	
REAL 400—Real Estate Brokerage	3
FIN 408—Risk Management and Property and Casualty Insurance	3
OADM 221—Business Communications	3
Electives	5
DATA 201—Introduction to Computers	3
	17

AAB—Small Business Management

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

	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
DATA 201—Introduction to Computers	3
FIN 252—Mathematics of Finance	3
MKT 304—Marketing	3
MKT 305—Purchasing	3
MNGT 310—Small Business Organization	3
MNGT 311—Principles of Personnel Management	3
MNGT 461—Business Law I	3
OADM 136—Business Calculations	3
OADM 221—Business Communications	3
OADM 363—Office Management	3
ECON 101—Introduction to American Economy	3
ENG 101—Composition I	3
ENG 102—Composition II	3
SPCH 110—Basic Speech	3
OR	
SPCH 370—Business & Professional Speech	3
Approved electives	16
	64

Suggested Course Sequence

First Semester	
DATA 201—Introduction to Computers	3
ECON 101—Introduction to American Economy	3
ENG 101—Composition I	3
SPCH 110—Basic Speech	3
Elective	4
	16
Second Semester	
ACCT 281—Principles of Accounting I	3
OADM 136—Business Calculations	3
OADM 221—Business Communications	3
ENG 102—Composition II	3
Elective	4
	16
Third Semester	
ACCT 282—Principles of Accounting	3
FIN 252—Mathematics of Finance	3
MKT 304—Marketing	3
MNGT 310—Small Business Organization	3
MNGT 461—Business Law I	3
Elective	2
	17
Fourth Semester	
MKT 305—Purchasing	3
MNGT 311—Personnel Management	3
OADM 363—Office Management	3
Electives	6
	15

Bachelor of Business Administration Core

The Bachelor of Business Administration includes a core of courses which are designed to provide the student in business and economics with a base from which to pursue course work in a special area of interest.

Business Administration Core

	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
DATA 201—Introduction to Computers	3
MNGT 301—Principles of Management	3
MNGT 306—Production Management	3
MKT 304—Marketing	3
FIN 360—Business Finance	3
MNGT 461—Business Law I	3
MNGT 472—Business Policies and Problems	3
OADM 221—Business Communications	3
ECON 350—Microeconomics	3
	33

BBA—Management—Option

The management option is designed to prepare students for entrance into managerial careers in personnel, production, or general management. Since management of business

firms involves both human and technical skills, students are provided with maximum breadth in a range of available elective courses.

Course Requirements

	Sem. Hrs.
BBA Core	33
ACCT 390—Cost Accounting	
OR	
ACCT 300—Managerial Accounting	3
MNGT 311—Principles of Personnel Management	3
ECON 302—Labor Economics	3
Approved electives	12
	54

Suggested Course Sequence

FRESHMAN YEAR

First Semester	
ENG 101—Composition I	3
MATH 160—Mathematics for Business & Economics	4
SCI—Physical Science	3
Sociology or Psychology	3
Elective	3
	16

Second Semester	
DATA 201—Introduction to Computers	3
ENG 102—Composition II	3
SCI—Biological Science	3
Government or Geography	3
Elective	3
	15

SOPHOMORE YEAR

First Semester	
ACCT 281—Principles of Accounting I	3
OADM 221—Business Communications	3
ECON 201—Principles of Economics I	3
Humanities elective	3
Literature elective	3
Elective	2
	17

Second Semester	
ACCT 282—Principles of Accounting II	3
MKT 304—Marketing	3
ECON 202—Principles of Economics II	3
PHED and/or health	3
Electives	6
	18

JUNIOR YEAR

First Semester	
ACCT 390—Cost Accounting I	
OR	
ACCT 300—Managerial Accounting	3
MNGT 301—Principles of Management	3
ECON 302—Labor Economics	3
ECON 350—Microeconomics	3
Electives	4
	16

Second Semester	
FIN 360—Business Finance	3
MNGT 306—Production Management	3
MATH 354—Business Statistics	3
Business elective	3
Electives	7
	19

SENIOR YEAR

First Semester	
MNGT 311—Personnel Management	3
MNGT 461—Business Law I	3
SPCH 370—Business and Professional Speech	3
Business elective	3
Electives	4
	16

Second Semester	
MNGT 472—Business Policies and Problems	3
Business elective	6
Electives	7
	16

BBA—Marketing—Option

This option is arranged to prepare for entrance into marketing careers. The program is recommended for students who plan to work with sales departments of

establishments, advertising agencies, and agencies engaged in marketing research. It is also recommended for individuals who plan to work as specialty salesmen of consumer and industrial goods and for those who plan to enter marketing management.

Course Requirements

	Sem. Hrs.
BBA Core	33
MKT 351—Sales Management	3
MKT 453—Marketing Policies	3
MKT 455—Advertising Principles and Procedures	3
MKT 552—Marketing Research and Analysis	3
Approved electives	9
	54

Suggested Course Sequence

FRESHMAN YEAR

First Semester	
ENG 101—Composition I	3
MATH 160—Mathematics for Business & Economics	4
Sociology or Psychology	3
HLTH and/or Physical Education	3
SCI—Biological Sciences	3
	16

Second Semester	
ENG 102—Composition II	3
DATA 201—Introduction to Computers	3
Government or Geography	3
SCI—Physical Science	3
Elective	3
	15

SOPHOMORE YEAR

First Semester	
ACCT 281—Principles of Accounting I	3
ECON 201—Principles of Economics I	3
OADM 221—Business Communications	3
Literature elective	3
Humanities elective	3
Elective	2
	17

Second Semester	
ACCT 282—Principles of Accounting II	3
ECON 202—Principles of Economics II	3
MKT 304—Marketing	3
Electives	6
	15

JUNIOR YEAR

First Semester	
ECON 350—Microeconomics	3
MNGT 301—Principles of Management	3
FIN 360—Business Finance	3
MKT 351—Sales Management	3
Electives	4
	16

Second Semester	
MATH 354—Business Statistics	3
SPCH 370—Business and Professional Speech	3
MNGT 306—Production Management	3
Electives	8
	17

SENIOR YEAR

First Semester	
MNGT 461—Business Law I	3
MKT 552—Marketing Research and Analysis	3
MKT 455—Advertising Principles and Procedures	3
Business elective	3
Elective	3
	15

Second Semester	
MKT 453—Marketing Policies	3
MNGT 472—Business Policies and Problems	3
Business electives	6
Electives	5
	17

BBA—Real Estate—Option

This option is designed to prepare students for careers as real estate salespersons and brokers. The program will also give students an educational background for positions in industry as specialists in real estate and land development.

Course Requirements

BBA Core	33
REAL 105—Principles of Real Estate	3
REAL 120—Real Estate Marketing	3
REAL 125—Appraisal of Residential Property	3
REAL 205—Real Estate Law	3
REAL 331—Real Estate Finance	3
Approved real estate electives	6
	54

Suggested Course Sequence**FRESHMAN YEAR****First Semester**

ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
Sociology or Psychology	3
REAL 105—Real Estate Principles	3
SCI—Physical Science	3
	16

Second Semester

ENG 102—Composition II	3
REAL 205—Real Estate Law	3
Government or Geography	3
SCI—Biological Science	3
Elective	3
	15

SOPHOMORE YEAR**First Semester**

ACCT 281—Principles of Accounting I	3
ECON 201—Principles of Economics	3
OADM 221—Business Communications	3
HLTH and/or Physical Education	3
REAL 120—Real Estate Marketing	3
Literature elective	3
	18

Second Semester

ACCT 282—Principles of Accounting II	3
ECON 202—Principles of Economics II	3
PHED—activity	1
DATA 201—Introduction to Computers	3
Electives	6
	16

JUNIOR YEAR**First Semester**

MNGT 301—Principles of Management	3
REAL 331—Real Estate Finance	3
ECON 350—Microeconomics	3
Humanities elective	3
Electives	4
	16

Second Semester

MATH 354—Business Statistics	3
FIN 360—Business Finance	3
MKT 304—Marketing	3
Real estate elective	3
Elective	3
	15

SENIOR YEAR**First Semester**

SPCH 370—Business and Professional Speech	3
MNGT 461—Business Law I	3
REAL 125—Appraisal of Residential Property	3
MNGT 306—Production Management	3
Electives	4
	16

Second Semester

MNGT 472—Business Policies and Problems	3
Real estate elective	3
Electives	10
	16

BS—Business Administration—Minor

Students selecting programs with business administration minor should first consult with advisors in their major areas. Department advisors are available for assistance.

Course Requirements

	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
DATA 201—Introduction to Computers	3
MNGT 306—Production Management	3

MNGT 301—Principles of Management	3
FIN 360—Business Finance	3
MNGT 461—Business Law I	3
MNGT 304—Marketing	3
	24

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

BS—Marketing—Minor

Students selecting programs with marketing minor should first consult with advisors in their major areas. Department advisors are available for assistance.

Course Requirements

	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
DATA 201—Introduction to Computers	3
MKT 304—Marketing	3
MKT 453—Marketing Policies	3
MKT 552—Marketing Research and Analysis	3
<i>Nine hours of electives to be chosen from the following:</i>	
MKT 305—Purchasing	3
MKT 350—Salesmanship	3
MKT 351—Sales Management	3
MKT 450—Consumer Behavior	3
MKT 451—Retail Merchandising	3
MKT 455—Advertising Principles and Procedures	3
	24

BS—Real Estate—Minor

Students selecting programs with real estate minor should first consult with advisors in their major areas. Department advisors are available for assistance.

Course Requirements

	Sem. Hrs.
REAL 105—Principles of Real Estate	3
REAL 120—Real Estate Marketing	3
REAL 125—Appraisal of Residential Property	3
REAL 205—Real Estate Law	3
REAL 331—Real Estate Finance	3
Approved real estate electives	9
	24

Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

MANAGEMENT

MNGT 139. Cooperative Study I. (1 to 8 hrs.); on demand. One semester of work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course.

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 in various management subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in management. Individual credit toward degree programs must be approved by the student's advisor.

MNGT 239. Cooperative Study II. (1 to 8 hrs.); on demand. One semester of work experience with an extension of exposure gained in MNGT 139 or of a nature similar to a sophomore status course.

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 will be 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. Organization and operation of production management within the ongoing 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. 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. Principles of 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 Study III. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a junior level status.

MNGT 399. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various management subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in management. Individual credit toward degree programs must be approved by the student's advisor.

MNGT 439. Cooperative Study IV. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a senior level course.

MNGT 461. Business Law I. (3-0-3); I, II, III. Designed to acquaint the student with the basic principles of law as they apply to business, especially considering the impact of legal procedure on the business affairs of the individual. Coverage includes social forces and the law, legal rights, and remedies. Court procedure, contracts, agency, employment, personal property, insurance, real property, leases, mortgages, trusts, and estates.

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 formulation of consistent business policies and maintenance of an efficient organization. Actual cases used as basis for discussions and preparation of reports for executive decision making.

MNGT 476. Special Problems in Management. (1 to 3 hrs); I, II, III. 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.

MNGT 486. Management Internship Program. (3 to 12 hrs); I, II, III. Prerequisites: junior or senior standing and 12 hours in major area, with 2.5 GPA in major area. 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.

MNGT 500. Survey of Management and Marketing. (3-0-3); II. Prerequisite: graduate standing or consent of instructor. This course includes the fundamental concepts of the processes and organizational behavior in management, and an overview of the marketing functions in the modern organization. (May not be taken for credit by anyone pursuing a degree in the School of Business and Economics or as an MBA elective.)

MNGT 502. Survey of Quantitative Analysis for Business. (3-0-3); I. Prerequisite: graduate standing (assumes basic knowledge of algebra). Designed to provide students with an adequate quantitative background for the MBA core courses, especially MNGT 620 and ECON 661; includes introduction to business statistics. (May not be taken for credit by anyone pursuing a degree in the School of Business and Economics or as an MBA elective.)

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 511. Industrial Relations. (3-0-3); on demand. Prerequisite: MNGT 311. This course deals with labor-management relations in its broadest sense. Discussion centers on the heritage and major incidents of the labor-management movement. In addition, the institutional and behavioral aspects of the labor-management environment will be investigated as well as law and the courts.

MNGT 539. Cooperative Study V. (1 to 8 hrs.); on demand. One semester of work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students.

MNGT 555. Social Responsibility of Business. (3-0-3); on demand. Prerequisite: Consent of instructor. This course will deal with controversial areas such as the military industrial complex, urban problems, minorities, and air pollution. Discussions will also cover alienation and job dissatisfaction, business and less advantaged persons, and arguments for and against business assuming social responsibilities.

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 improvement of identified problem areas.

MNGT 561. Business Law II. (3-0-3); I, II. Prerequisite: MNGT 461. An extension of the coverage of MNGT 461 to the application of legal procedure in the affairs of the business organization. Coverage includes commercial paper,

bailments, sales, secured transactions, suretyship and guarantee partnerships, corporations, bankruptcy, and government and business.

MNGT 565. Human Relations in Business Management. (3-0-3); I, II, III. Prerequisite: senior standing or consent of instructor. A study of human and interpersonal behavior to understand, evaluate, and appraise business and social situations. The emphasis is on skill and the ability to work with peoples, groups, and institutions.

MNGT 599. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various management subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in management. Individual credit toward degree programs must be approved by the student's advisor.

MARKETING

MKT 139. Cooperative Study I. (1 to 8 hrs.); on demand. One semester of work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course.

MKT 199. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various marketing subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in marketing. Individual credit toward degree programs must be approved by the student's advisor.

MKT 239. Cooperative Study II. (1 to 8 hrs.); on demand. One semester of work experience with an extension of exposure gained in MKT 139 or of a nature similar to a sophomore status course.

MKT 304. Marketing. (3-0-3); I, II. Prerequisite: ECON 201. Raw materials and products; organized exchange; analysis of market; market price; manufactured products; warehouses, cooperative societies; distribution organizations.

MKT 305. Purchasing. (3-0-3); II. Prerequisite: MKT 304 or consent of instructor. Purchasing functions and procedures, organization and operation of the purchasing department, inventory, quantity and quality controls, sources of supply, legal aspects of purchasing, evaluating purchase performance.

MKT 339. Cooperative Study III. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a junior level status.

MKT 350. Salesmanship. (3-0-3); I, II. 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. 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 399. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various marketing subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in marketing. Individual credit toward degree programs must be approved by the student's advisor.

MKT 439. Cooperative Study IV. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a senior level course.

MKT 450. Consumer Behavior. (3-0-3); II. Prerequisite: 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 451. Retail Merchandising. (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 453. Marketing Policies. (3-0-3); II. Prerequisites: MNGT 301 and 6 hours of marketing courses. Overview of marketing functions, emphasis on formulation of policies and management of all marketing activities. Case studies are used.

MKT 455. Advertising Principles and Procedures. (3-0-3); I. Prerequisite: MKT 304. Analysis of 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 476. Special Problems in Marketing. (1 to 3 hrs.); I, II, III. 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.

MKT 539. Cooperative Study V. (1 to 8 hrs.); on demand. One semester of work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students.

MKT 552. Marketing Research and Analysis. (3-0-3); I. Prerequisites: MKT 304 and MATH 354. Study of 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 599. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various marketing subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in marketing. Individual credit toward degree programs must be approved by the student's advisor.

REAL ESTATE

REAL 105. Principles of Real Estate. (3-0-3); I, II. A general introduction to real estate as a business and profession. Designed to acquaint the student with a wide range of subjects necessary to the practice of real estate. Topics include license law, ethics, listing and purchase agreements, brokerage, deeds, financing, appraisal, mortgages, and property management.

REAL 120. 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.

REAL 125. 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 in which appraisal and feasibility are going in the future.

REAL 139. Cooperative Study I. (1 to 8 hrs.); on demand. One semester of work experience in a field relevant to the student's career objectives and academic preparation. Experience is usually analogous to a freshman level course.

REAL 199. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various real estate subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in real estate. Individual credit toward degree programs must be approved by the student's advisor.

REAL 205. Real Estate Law. (3-0-3); II. Prerequisite: REAL 105 or permission of instructor. Overview of real estate law, focusing on legal fundamentals including contracts, concepts of title, title examination, easements, conveyances, liens, closing, and recording statutes.

REAL 230. 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 with emphasis upon 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 239. Cooperative Study II. (1 to 8 hrs.); on demand. One semester of work experience with an extension of exposure gained in REAL 139 or of a nature similar to a sophomore status course.

REAL 303. Real Estate Market Analysis. (3-0-3); I. Prerequisite: REAL 120 or consent of instructor. A course 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 330. Real Estate Property Management. (3-0-3); II. Prerequisite: REAL 105 or consent of instructor. Introduction to the basic organization, ad-

ministrative operation, and management of multi-family housing units in both rental and forsale formats. The staffing, training, and evaluation of personnel, sales methods, and promotional techniques in property management.

REAL 331. Real Estate Finance. (3-0-3); I. Prerequisite: REAL 105 or permission of instructor. An 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); II. 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 Study III. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a junior level status.

REAL 345. Appraisal of Income Property. (3-0-3); II. Prerequisite: REAL 125. Introduction to the current theory and practice of income property appraisal and appraisal techniques.

REAL 399. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various real estate will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in real estate. Individual 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, with concentration 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 125 or consent of instructor. An introduction to the responsibility of planning agencies to bring plans into closer harmony with the basic currents of economic development in the relationship between urban form and human behavior and activity patterns. Theory development, the use of models in planning, transportation systems, and other urban activities.

REAL 439. Cooperative Study IV. (1 to 8 hrs.); on demand. One semester of work experience with a continuation of in-depth exposure representative of the student's academic level and experience of a nature analogous to a senior level course.

REAL 476. Special Problems in Real Estate. (1 to 3 hrs.); I, II, III. 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 Study V. (1 to 8 hrs.); on demand. One semester of work experience providing advanced specialized exposure in a career-related position. Available to upper division undergraduate and graduate students.

REAL 599. Selected Workshop Topics. (1 to 4 hrs.); on demand. Workshops in various real estate subjects will be presented periodically, based on need. Usually experimental and/or innovative, these workshops are designed to supplement the basic course offerings in real estate. Individual credit toward degree programs must be approved by the student's advisor.

School of Education

Departments

Curriculum and Instruction
Health, Physical Education,
and Recreation
Leadership and Foundations
Psychology

The School of Education is the administrative unit of the university which provides and administers the professional education courses directly related to the preparation and certification of teachers and other educational workers. The School offers undergraduate and/or graduate curricula in health, physical education, recreation, psychology, early childhood, elementary, secondary, special education, guidance and counseling, school administration, library science, higher education, and adult and continuing education. Also, teacher education programs at University Breckinridge School, Teacher In-Service, Child Development Laboratory, and several other service activities are located in the local schools.

Teacher Education Program and Professional Laboratory Experiences

The coordinator of professional laboratory experiences is responsible for (1) the administration of the teacher education program and (2) the administration and supervision of all professional laboratory experiences associated with the School of Education.

Laboratory experiences are offered for undergraduates and graduates in pre-school, elementary and secondary education, educational administration, guidance, recreation, library science, special education, and psychology.

Admission to and Retention in the Teacher Education Program

All students who desire to prepare for teaching must apply and be accepted for admission to the teacher education program.

The following criteria must be met by all students for admission to teacher education:

1. Thirty hours with a cumulative grade-point standing of 2.0 or higher on work completed at Morehead State University.
2. Successful completion of California Achievement Test.
3. Successful completion of Speech, Hearing, and Vision Screening Test.
4. A satisfactory evaluation from faculty advisor regarding personal-social-ethical fitness for teaching.
5. Demonstrated proficiency in written and oral communication.
6. Complete pre-student teaching laboratory experiences as prescribed in School of Education classes.
7. Unofficial copy of up-to-date transcript to accompany application.

Transfer students must apply immediately for admission to the program and meet the applicable criteria outlined above. For transfer students, the dean of the school may permit admission to restricted courses listed below pending the processing of the student's application for admission to the program.

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 through the coordinator of professional laboratory experiences.

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
BSED 375—Teaching Typewriting and Office Practice
BSED 376—Teaching Shorthand and Transcription
BSED 475—Teaching Accounting and Basic Business
EDEC 529—Practicum in Early Childhood Education
EDEL 321—Teaching of Arithmetic
EDEL 322—Teaching Social Studies in the Elementary School
EDEL 323—Language Arts for the Elementary School
EDEL 333—Fundamentals of Elementary Education
EDEL 336—Foundations of Reading
EDEL 337—Reading Strategies for the Elementary Teacher
EDEL 410—Human Growth and Development II
EDEL 425—Supervised Teaching Practicum (Elementary)
EDEL 427—Professional Semester (Elementary)
EDSE 310—Principles of Adolescent Development
EDSE 410—Human Growth and Development II
EDSE 472—Fundamentals of Secondary Education
EDSE 475—Supervised Teaching Practicum (Secondary)
EDSE 477—Professional Semester (Secondary)
EDSE 576—Reading in the Secondary School
EDSP 435—Supervised Teaching Practicum (LBD)
EDSP 436—Supervised Teaching Practicum (TMH)
ENG 500—Studies in English for Teachers
ENG 502—Non-Print Literary Materials for Teachers
FRN 405—Linguistics and Language Teaching
GER 405—Linguistics and Language Teaching
HEC 470—Methods of Teaching Vocational Home Economics
HEC 573—Curriculum Development in Home Economics
HIS 375—The Teaching of Social Studies
HLTH 300—Health in the Elementary School
HLTH 304—Health in the Secondary School
IET 390—Principles of Industrial Education
IET 392—Technical Curriculum and Media Development
IET 393—Methods in Vocational Industrial Education
IET 394—Student Teaching in Vocational Industrial Education
IET 475—Teaching Industrial Arts
IET 478—Supervised Teaching Practicum in Industrial Education—
Orientation and Exploration Levels
LSIM 577—School Media Library Practicum II
MUSE 325—Materials and Methods for Elementary Grades
MSUE 375—Vocal Materials and Methods
MUSE 376—Instrumental Materials and Methods
PHED 300—Physical Education in the Elementary School
PHED 303—Physical Education in the Secondary School
PHYS 374—Physics for Secondary Teachers
RUS 405—Linguistics and Language Teaching
SCI 590—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
SPCH 595—Administering the Communications Program
SPCH 597—Administering and Supervising the Co-Curricular
Communication Arts Program

Professional Laboratory Experiences

The application for student teaching must be filed early in 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 coordinator of professional laboratory experiences, Room 01, Lyman V. Ginger Hall. To be eligible for the professional semester, the student must have completed the following requirements:

1. Admission to and good standing in the teacher education program.
2. Completion of the prerequisite courses in the sequence of professional education. (Secondary certification program—EDSE 209 and 310. Elementary certification program—EDEL 208, 210, 321, 336, or 337.)
3. Successfully completed pre-student teaching laboratory 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.

4. Successful completion of screening tests associated with EDEL 210 and EDSE 310 (Minnesota Teacher Attitude Inventory and 16 PF Test Profile.)
5. Present a minimum grade-point standing of 2.25 on a 4.0 scale on all courses completed at Morehead State University.
6. Present a minimum grade-point standing of 2.5 on 4.0 scale on all course work completed in area of concentration, major(s), and minor(s).
7. Have completed a minimum of 90 semester hours.
8. Present an unofficial copy of check sheet depicting an approved major for teacher certification
9. Completed 75 percent of course requirements in area of concentration or major teaching field (to include required methods courses).
10. Have a minimum of one semester residence at Morehead State University.
11. Must have a satisfactory recommendation of the teacher education committee of the school in which the student is enrolled regarding personal, social, and ethical fitness for teaching.
12. Must have the approval of the University Teacher Education Council.
13. Must have teaching minor completed in order to student teach in that field.

Courses for which application must be made with the coordinator of professional laboratory experiences one semester in advance include:

EDEL 425—Supervised Teaching Practicum (Elementary)
EDEL 427—Professional Semester—Elementary
EDEC 529—Practicum in Early Childhood Education
EDSE 475—Supervised Teaching Practicum (Secondary)
EDSE 477—Professional Semester—Secondary
EDSP 435—Supervised Teaching Practicum (LBD)
EDSP 436—Supervised Teaching Practicum (TMH)
EDSP 675—Practicum in Special Education
EDGC 669—Practicum in Guidance and Counseling
REC 290—Field Experience I
REC 490—Field Experience II
REC 477—Recreation Internship
LSIM 575—School Library Practice
LSIM 577—School Media Library Practicum II

Recommendation for Certification

The 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, School of Education, is the official designated to recommend for certification the graduates of Morehead State University.

The application for the appropriate certificate should be completed early in the semester prior to graduation. Application forms may be obtained in the Registrar's Office, Howell-McDowell Administration Building.

Curriculum and Instruction

This department is responsible for the professional education curriculum leading to certification of teachers in early childhood, elementary, secondary, and special education programs. All professional laboratory experiences are coordinated through this department. The Reading Center, Teacher Aide Program, Head Start Program, pre-student teaching laboratory experiences, Instructional Media Center, and Microteaching Laboratory are located in this department.

Early Childhood

The objective of the program in Early Childhood Education is to provide an additional kindergarten endorsement for those teachers holding elementary certification. Training activities for child care givers in child/infant care centers and nursery schools.

Requirements for 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

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

EDEC 199. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in early childhood education. Conferences with the instructor are by arrangement. A 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 the instructor are by arrangement. A maximum of six semester hours may be earned under this course number.

EDEC 399. Workshop. (1 to 3 hrs.); I, II, III. A continuation of EDEC 199.

EDEC 470. Research Problems. (1 to 3 hrs.); I, II, III. An independent research study of a professional nature. Conferences with the instructor are by arrangement. A maximum of six semester hours may be earned under this course number.

EDEC 527. The Pre-School Child. (3-1-3); I, II, III. The principles of growth and development from the prenatal period to age six. Focuses attention on learning experiences for nursery and kindergarten age children. (Laboratory experiences are an integral part of this course.)

EDEC 528. Activities and Materials in Early Childhood. (3-1-3); I, II, III. Investigates the 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 this course.)

EDEC 529. Practicum in Early Childhood Education. (1-4-4); I, II, III. Prerequisites: EDEC 527, 528, and admission to the teacher education program. Students are assigned to a pre-school classroom for observation, participation, and teaching. On-campus seminars are held weekly. (Application made through the coordinator of professional laboratory experiences.)

EDEC 599. Workshop. (1 to 3 hrs.); I, II, III. Prerequisites: upper division or graduate classification. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

Elementary

The functions of the program in elementary education are: (1) to provide professional preparation for teachers and other personnel at the undergraduate and graduate levels; (2) to cooperate with public school personnel in providing consultants, assisting in workshop programs, providing laboratory experiences in the public schools, and working with local, state, and national educational agencies for the improvement of education.

A close working relationship is maintained with the public schools within the region through the student teaching program by visitations to each student teacher during the semester.

Requirements for Certification in Elementary Education

(Includes both area and general education requirements)

	Sem. Hrs.
EDUCATION	
EDEL 208—Foundations of Elementary Education	2

EDEL 210—Human Growth and Development I	3
EDEL 321—Teaching of Arithmetic	3
EDEL 322—Teaching Social Studies in Elementary School	3
EDEL 323—Language Arts for the Elementary School	3
EDEL 336—Foundations of Reading	3
EDEL 337—Reading Strategies for the Elementary Teacher	3
EDEL 427—Professional Semester—includes:	17
EDEL 410—Human Growth and Development II	3
LSIM 412—Media Strategies	2
EDEL 425—Supervised Teaching Practicum	12

COMMUNICATIONS & HUMANITIES

ENG—Composition	6
ENG—Literature electives	6
SPCH—Speech electives	3
PHIL—Philosophy elective	3
Communications or Humanities elective	3

SCIENCE

SCI—Physical Science elective	3
SCI—Biological Science elective	3
SCI 590—Science for the Elementary Teacher	3
Science or Math elective	3

SOCIAL SCIENCE

GEO—Geography elective	3
HIS—American History elective	3
GOVT—Political Science elective	3
SOC—Sociology elective	3
SOC SCI—Social Science electives	6

MATHEMATICS

MATH 231, 232—Math for the Elementary Teacher I & II	6
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LIBRARY SCIENCE AND INSTRUCTIONAL MEDIA

LSIM 227—Literature & Materials for Children	3
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PSYCHOLOGY

PSY 154—Life-oriented General Psychology	3
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ART

ART 121—School Art I	3
ART 221—School Art II	3

MUSIC

MUS 100—Rudiments of Music	2
MUS 221—Music for the Elementary Teacher	2

HEALTH & PHYSICAL EDUCATION

HLTH 300—Health in the Elementary School	2
PHED 300—PE in the Elementary School	2
PHED—Activity courses	2

ADDITIONAL COURSES

Approved electives	12
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Description of Courses

Note: (3-0-3) following course title indicates 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally scheduled: I—fall; II—spring; and III—summer.

EDEL 110. Developmental Reading I. (2-2-3); I, II, III. Provides a diagnostic independent guided improvement of reading skills. Vocabulary and improved comprehension skills are stressed.

EDEL 111. Developmental Reading II. (2-2-3); I, II, III. Prerequisite: EDEL 110. A continuation of Developmental Reading I.

EDEL 112. Reading English as a Second Language. (2-2-3); I, II, III. An individualized program for teaching vocabulary and reading skills to the non-English speaking student.

EDEL 199. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in elementary education. A 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 in a simulated classroom laboratory.

EDEL 276. Independent Study. (1 to 3 hrs.); I, II, III. Directed study of specific areas in elementary education. The topic must be approved in advance by the instructor. Conferences with the instructor are by arrangement.

EDEL 321. Teaching of Arithmetic. (2-2-3); I, II, III. Prerequisite: admission to the teacher education program and MATH 231 or corequisite course. Effective presentation of essential number concepts to the learner; emphasis on functional arithmetic and its application. (Laboratory experiences are an integral part of this course.)

EDEL 322. Teaching Social Studies in the Elementary School. (3-0-3); I, II, III. Prerequisite: admission to the teacher education program. Presents the scope and sequence of the skills and concepts of the social studies program in the elementary school. Emphasis is given to instructional methods and recent

trends in the social studies area. (Laboratory experiences are an integral part of this course.)

EDEL 323. Language Arts for the Elementary School. (3-0-3); I, II, III. **Prerequisite:** admission to the teacher education program. Focuses on role of language arts program in elementary school curriculum. Identification of language arts skills and subsequent teaching techniques of those skills will be central to the course. Skills emphasized are in areas of listening, speaking, writing, and spelling. (Laboratory experiences are an integral part of this course.)

EDEL 333. Fundamentals of Elementary Education. (3-1-4); I, III. **Prerequisites:** admission to the teacher education program and approval of head of the department. An introduction to the 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 336. Foundations of Reading. (2-2-3); I, II, III. **Prerequisite:** admission to the teacher education program. An examination and evaluation of materials and methods of teaching the basic reading skills in grades K-8. The students are taught how to teach the subskills of word attack, vocabulary development, and comprehension. (Laboratory experiences are an integral part of this course.)

EDEL 337. Reading Strategies for the Elementary Teacher. (2-2-3); I, II, III. **Prerequisite:** admission to the teacher education program. An examination and evaluation of materials and methods of teaching advanced reading skills in grades K-8. The students are taught how to teach the skills needed for content area reading. Various types of grouping techniques are also stressed. (Laboratory experiences are an integral part of this course.)

EDEL 425. Supervised Teaching Practicum—Elementary. (4 to 12 hrs.); I, II, III. **See prerequisites for admission to professional semester.** Each student is assigned to a student teaching center during which time observation, participation, and student teaching are done. Teaching may be done in any of the elementary grades. Special conferences with the supervising teacher, attendance, and participation in faculty meetings and out-of-school activities are also required.

EDEL 427. Professional Semester (Elementary). (9-30-17); I, II. The professional semester is comprised of EDEL 410, 425, and LSIM 412. **Prerequisites:** EDEL 208, 210, 321, and 336 or 337; admission to the teacher education program; attainment of a scholastic standing of 2.25 on a 4.0 scale on all residence courses at Morehead at time student teaching begins; a minimum standing of 2.5 on a 4.0 scale on all work completed in area of concentration, major(s), and minor(s); completion of a minimum of 90 semester hours of work; at least one semester of residence credit earned at this University; and permission of the Committee on Teacher Education. Twelve weeks are spent in student teaching and four weeks are spent in class work. (Application made through the coordinator of professional laboratory experiences.)

EDEL 470. Research Problems. (1 to 3 hrs.); I, II, III. An independent research study of a professional nature. Conferences with the instructor are by arrangement. A maximum of six semester hours may be earned under this course number.

EDEL 562. Remedial Reading. (2-2-3); I, III. **Prerequisite:** EDEL 336 or equivalent course. Materials, methods of diagnosing and treating reading difficulties. (Laboratory experiences are an integral part of this course.)

EDEL 599. Workshop. (1 to 3 hrs.); I, II, III. **Prerequisites:** upper division or graduate classification. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

Library Science/Instructional Media

Upon the recommendation of the University Curriculum Committee and based upon the reduction of enrollment in Library Science Instructional Media, the undergraduate program in this area was phased out effective September 1, 1979. Therefore, course offerings in this area will be limited to those courses of general educational value, courses to support public library programs, and those courses necessary to support the teacher education program.

Description of Courses

Note: (3-0-3) following course title indicates 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term the course is normally offered: I—fall; II—spring; III—summer.
LSIM 101. Use of Books, Materials, and Libraries. (2-0-1), nine weeks only; I, I. General library organization and orientation with emphasis upon utilization of library resources, including card catalogs, indexes, encyclopedias, and handbooks. Emphasis played upon organization and resources of the Johnson Arden Library. The course is especially designed for college freshmen.

LSIM 199. Library Media Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in library and instructional education.

LSIM 227. Literature and Materials for Children. (3-0-3); I, II, III. A survey of children's literature from its beginning to the present time, including all types of literature except textbooks. Covers various types of media for use with children pre-school through grade six. Emphasis is on criteria for evaluation and aids for selection of materials; the reading interests, needs, abilities of children.

LSIM 412. Media Strategies. (3-1-2, eight weeks); I, II. **Prerequisite:** enrollment in the professional semester. The course content deals with communication, mediated teaching, choosing, producing, evaluating, and using audiovisual materials of instruction. Heavy emphasis is placed upon the use of the major types of audiovisual equipment found in the modern school.

LSIM 500. Public Libraries. (3-0-3); on demand. An introduction and analysis of the public library; studies of the public library objectives, services provided, and techniques employed to achieve the objectives. Attention is given to Kentucky public library trends, management, services, and special problems.

LSIM 510. Public Library Practice. (3 hours); on demand. **Prerequisite:** LSIM 500. Designed to provide the prospective public librarian with the opportunity to apply and test his or her knowledge, understandings, and skills with the end result a balance in the professional, technical, and clerical aspects of the public library. The prospective public librarian develops, through actual experiences and under competent supervision, an understanding and appreciation of the total program and the public library's relationship to it, along with an understanding of the community. (Application made through the coordinator of professional laboratory experiences.)

LSIM 511. Cataloging and Classification. (3-0-3); I. **Prerequisite:** skill in typing. The central purpose is to develop the ability to organize books and materials for access in a standard form according to the demands and needs of the individual library. Dewey Decimal Classification, Sears subject headings, and principles of simplified cataloging of books and non-book materials are the major content areas presented in the course.

LSIM 521. Literature and Materials for Young People. (3-0-3); I, III. An investigation of reading interests and needs of young people grades 7 through 12, with emphasis on criteria for selection and evaluation of materials, both technical and literary qualities, and methods for the utilization of such materials.

LSIM 522. Literature and Materials for Adults. (3-0-3); II. An investigation of adult reading interests and the library's role in adult education with consideration of services offered to the culturally disadvantaged and the physically handicapped. Students are given the opportunity to read and discuss the "popular book" and practice in the writing of book reviews.

LSIM 523. Reference and Bibliography. (3-0-3); II. A thorough investigation of the most significant basic titles in a general reference collection and experience in compiling a bibliography. The course is organized by the types of reference materials: encyclopedias, bibliographies, yearbooks, indexes, etc. The emphasis is placed upon reference service in schools, academic, and public libraries.

LSIM 547. Utilization of Educational Television. (3-0-3); I, II, III. **Prerequisite:** upper division standing. The use of television in the classroom. The history and background of ETV; how a telecourse is developed; personnel needed; examples of telelessons and their use by outstanding teachers.

LSIM 550. Message Design and Production. (3-0-3); I, III. The design, production, and evaluation of instructional messages and message systems. Through task analysis, the student shall first identify and design examples of instructional messages using principles of effective communication theory. The student will then produce the communication in AV form using appropriate graphic production techniques. The student will finally evaluate and revise the communication product through evaluative tryouts with target groups.

LSIM 550. Message Design and Production. (3-0-3); I, III. The design, production, and evaluation of instructional messages and message systems. Through task analysis, the student shall first identify and design examples of instructional messages using principles of effective communication theory. The student will then produce the communication in AV form using appropriate graphic production techniques. The student will finally evaluate and revise the communication product through evaluative tryouts with target groups.

LSIM 577. School Media Library Practicum II. (0-10-4); I, II. **Prerequisites:** Education 209, 210, and admission to the Teacher Education Program. A continuation and expansion of LSIM 477. Two sections of the course comprises the practicum portion of the professional semester for students in the school media librarian's certification program. (Application made through the coordinator of professional laboratory experiences.)

LSIM 581. Individualized Learning Systems. (3-0-3); II, III. An introduction to basic individualized learning systems; how they are designed, produced, and utilized. The student shall design and produce examples of learning activity packets and programmed instructional materials. Technological applications for individualizing learning such as programmers and portable computers will also be covered.

LSIM 582. Audiovisual Aids in Instruction. (3-0-3); I, III. **Prerequisite:** upper division standing. Overview of the instructional media in use in up-to-date schools. Lectures, demonstrations, and practical applications of widely

available audiovisual equipment, materials, and methods are used.

LSIM 583. Producing Audiovisual Materials. (3-0-3); II, III. Prerequisite: LSIM 582 or equivalent. Production of various types of audiovisual materials with emphasis upon still photography (slide-prints), motion picture photography, audio production, and classroom television production.

LSIM 588. Educational Gaming and Simulation. (3-0-3); I, III. An introduction to the design, production, utilization, and evaluation of educational games and simulations. The student shall produce an educational game and an educational simulation of his or her own design which will be evaluated and revised by tryout with selected target groups.

LSIM 599. Library Media Workshop. (1 to 6 hrs.); on demand. Subject matter and length of time vary; prerequisites determined for each. May be repeated but not to exceed a total of six hours.

Secondary

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

Requirements for Certification in Secondary Education

	Sem. Hrs.
EDSE 209—Foundations of Secondary Education	2
EDSE 310—Principles of Adolescent Development	3
EDSE 477—Professional Semester—Secondary	3
EDSE 410—Human Growth and Development II	3
EDSE 472—Fundamentals of Secondary Education	4
LSIM 412—Media Strategies	2
EDSE 475—Supervised Teaching Practicum	8
Total professional semester	17
	22

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

EDSE 199. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in secondary education. A maximum of six semester hours may be earned under this course number.

EDSE 276. Independent Study. (1 to 3 hrs.); I, II, III. Directed study of specific areas in secondary education. Conferences with the instructor are by arrangement. A maximum of six semester hours may be earned under this course number.

EDSE 399. Workshop. (1 to 3 hrs.); I, II, III. A continuation of EDSE 199.

EDSE 470. Research Problems. (1 to 3 hrs.); I, II, III. An independent research study of a professional nature. Conferences with the instructor are by arrangement. A maximum of six semester hours may be earned under this course number.

EDSE 472. Fundamentals of Secondary Education. (3-1-4); III. Prerequisites: EDSE 209, 310, admission to the teacher education program, and approval of head of department. A comprehensive course emphasizing the functions and organization of the secondary school; principles, methods, and techniques of teaching; evaluating activities; professional activities of the teacher; and community relationships.

EDSE 475. Supervised Teaching Practicum—Secondary. (4 to 12 hrs.); I, II, III. Prerequisites: see prerequisites for admission to the professional semester. Each student is assigned to 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 out-of-school activities are also required.

EDSE 477. Professional Semester. (9-30-17); I, II. Prerequisites: EDSE 209, 310; admission to the teacher education program; attainment of a scholastic standing of 2.25 on a 4.0 scale on all residence courses completed at Morehead State at the time student teaching begins; a minimum standing of 2.5 on a 4.0 scale on all work completed in area of concentration, major(s), and minor(s); completion of 75 percent of the course work in the area or major in which the student is to teach; completion of 90 semester hours of credit; at least one semester of residence credit earned at the university. The professional semester completes the individual's professional training at the undergraduate level and includes those phases of training found in courses carrying the titles of educational psychology, content and methods, instructional media, and supervised student teaching. The course is so arranged that eight weeks are spent in class work and eight weeks are spent in student teaching.

(Application made through the coordinator of professional laboratory experiences.)

EDSE 576. Reading in the Secondary School. (2-2-3); I, II, III. Emphasis is centered around reading instruction in the junior high and high school. Materials are included for instruction and studies of the administrative problems involved. (Laboratory experiences are an integral part of this course.)

EDSE 590. Supervision of Teaching Practicum. (1 to 3 hrs.); I, II, III. Prerequisite: teacher's certification. Basic principles and procedures in the techniques of supervision of student teachers. The course is designed to prepare teachers to become supervising teachers who provide the professional laboratory experiences during student teaching. Preparation for the orientation of student teaching, planning for and supervision of teaching and evaluation are included.

EDSE 599. Workshop. (1 to 3 hrs.); I, II, III. Prerequisites: Upper division or graduate classification. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

Special Education

This program is designed to provide the special education student with skills in teaching and administering a special class program and competencies for acting as resource personnel to others in the school. The program emphasizes training in techniques of working with pupils who have perceptual, physical, mental, and emotional handicaps that inhibit learning and development.

The department offers (1) an area of concentration in learning and behavior disorders, (2) an area of concentration in trainable mentally handicapped, and (3) a non-teaching major and minor in special education. The area of concentration in learning and behavior disorders provides teacher certification in special education for teaching children who have learning disabilities or who are educable mentally handicapped, mildly emotionally disturbed, or orthopedically handicapped. The area of concentration in trainable mentally handicapped provides teacher certification for teaching children who are moderately or severely mentally handicapped. Both the learning and behavior and trainable mentally handicapped programs provide for teacher certification for all grade levels taught within the public schools. Both programs also provide for certification in elementary education (grades 1-8). The non-teaching major and minor may be taken without having a teaching major or minor in another field, and the student is exempted from the professional semester and professional education courses outside of the program of study for the major or minor in special education.

Area of Concentration in Learning and Behavior Disorders (includes both area and general education requirements)

Requirements

SPECIAL EDUCATION	36
EDSP 230—Education of Exceptional Children	3
EDSP 231—Field Experience	3
EDSP 435—Student Teaching	12
EDSP 537—Educational Assessments of Exceptional Children	3
EDSP 550—Nature and Needs of Exceptional Children	3
EDSP 551—Curriculum for Pre-School Exceptional Children	3
EDSP 553—Curriculum for Secondary Exceptional Children	3
EDSP 555—Teaching Children with Learning & Behavior Disorders	3
EDSP 557—Curriculum for Elementary Exceptional Children	3
EDUCATIONAL	25
EDEL 208—Foundation of Elementary Education	2
EDEL 210—Human Growth & Development I	3
EDEL 321—Teaching of Arithmetic	3
EDEL 322—Teaching Social Studies in the Elem. School	3
EDEL 323—Language Arts for the Elementary School	3
EDEL 336—Foundations of Reading	3
EDEL 337—Reading Strategies for the Elementary Teacher	3
EDEL 410—Human Growth & Development II	3
EDEL 412—Media Strategies	2

HUMANITIES	22
ENG—Composition	6
ENG—Literature	3
SPCH 320—Introduction to Corrective Speech	3
ART 121—School Art	3
ART 221—School Art II	3
MUST 100—Rudiments of Music	2
MUSE 221—Music for the Elementary Teacher	2
SCIENCE	15
SCI—Physical Science elective	3
SCI—Biological Science elective	3
MATH 231—Math for the Elementary Teacher I	3
MATH 232—Math for the Elementary Teacher II	3
SCI 590—Science for the Elementary Teacher	3
SOCIAL SCIENCE	12
A total of 12 hours from at least two of the following fields: 1. Economics, 2. Geography, 3. Government and Public Affairs, 4. History, 5. Sociology.	
LIBRARY SCIENCE INSTRUCTIONAL MEDIA	3
LSIM 227—Literature & Materials for Children	3
PSYCHOLOGY	3
PSY 154—Life-Oriented General Psychology	3
HEALTH AND PHYSICAL EDUCATION	6
HLTH 300—Health in the Elementary School	2
PHED 300—Physical Education in the Elementary School	2
PHED—Activity courses	2
ELECTIVES	6
	128

Area of Concentration in Trainable Mentally Handicapped (includes both area and general education requirements)

Requirements

SPECIAL EDUCATION	36
EDSP 230—Education of Exceptional Children	3
EDSP 231—Field Experience	3
EDSP 436—Student Teaching	12
EDSP 547—The Trainable Mentally Handicapped	3
EDSP 550—Nature and Needs of Exceptional Children	3
EDSP 551—Curriculum for Pre-School Exceptional Children	3
EDSP 553—Curriculum for Secondary Exceptional Children	3
EDSP 556—Teaching the Mentally Handicapped	3
EDSP 557—Curriculum for Elementary Exceptional Children	3
EDUCATIONAL	25
EDEL 208—Foundations of Elementary Education	2
EDEL 210—Human Growth and Development I	3
EDEL 321—Teaching of Arithmetic	3
EDEL 322—Teaching Social Studies in the Elementary School	3
EDEL 323—Language Arts for the Elementary School	3
EDEL 336—Foundations of Reading	3
EDEL 337—Reading Strategies for the Elementary Teacher	3
EDEL 410—Human Growth and Development II	3
EDEL 412—Media Strategies	2
HUMANITIES	22
ENG—Composition	6
ENG—Literature	3
SPCH 320—Introduction to Corrective Speech	3
ART 121—School Art I	3
ART 221—School Art II	3
MUST 100—Rudiments of Music	2
MUSE 221—Music for the Elementary Teacher	2
SCIENCE	15
SCI—Physical Science elective	3
SCI—Biological Science elective	3
MATH 231—Math for the Elementary Teacher I	3
MATH 232—Math for the Elementary Teacher II	3
SCI 590—Science for the Elementary Teacher	3
SOCIAL SCIENCE	12
A total of 12 hours from at least two of the following fields: (1.) Economics, (2.) Geography, (3.) Government and Public Affairs, (4.) History, (5.) Sociology.	
LIBRARY SCIENCE INSTRUCTIONAL MEDIA	3
LSIM 227—Literature & Materials for Children	3
PSYCHOLOGY	3
PSY 154—Introduction to Psychology	3
HEALTH AND PHYSICAL EDUCATION	6
HLTH 300—Health in the Elementary School	2
PHED 300—Physical Education in the Elementary School	2

PHED—Activity courses	2
ELECTIVES	6
	128

The area of concentration in trainable mentally handicapped is identical to the area of concentration in learning and behavior disorders, except that courses pertaining to the characteristics and education of the trainable mentally handicapped student are substituted in the program of study for EDSP 230, 537, and 555, with student teaching credit being earned under EDSP 436—Supervised Teaching Practicum, instead of EDSP 435.

Non-Teaching Major and Minor in Special Education

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.

Requirements for a Major (non-teaching)

	Sem. Hrs.
EDSP 230—Education of Exceptional Children	3
EDSP 550—Nature & Needs of Exceptional Children	3
EDSP 537—Educational Assessment of Exceptional Children	3
OR	
EDSP 547—The Trainable Mentally Handicapped	
EDSP 555—Teaching Children with Learning and Behavior Disorders	3
OR	
EDSP 556—Teaching the Trainable Mentally Handicapped	
EDEL 336—Foundations of Reading	3
OR	
EDEL 337—Reading Strategies for the Elementary Teacher	
EDSP 320—Introduction to Corrective Speech	3
OR	
SPCH 320—Introduction to Corrective Speech	
PSY 559—Behavior Modification	3
Electives (approved by advisor)	9
Laboratory Experience EDSP 435—Supervised Teaching Practicum or EDSP 436—Supervised Teaching Practicum	4
	34

Requirements for a Minor (non-teaching)

	Sem. Hrs.
EDSP 230—Education of Exceptional Children	3
EDSP 550—Nature and Needs of Exceptional Children	3
EDSP 555—Teaching Children with Learning and Behavior Disorders	3
OR	
EDSP 556—Teaching the Trainable Mentally Handicapped	
EDSP 537—Educational Assessment of Exceptional Children	3
OR	
EDSP 547—The Trainable Mentally Handicapped	
EDEL 336—Foundations of Reading	3
OR	
EDEL 337—Reading Strategies for the Elementary Teacher	
PSY 559—Behavior Modification	3
Electives (approved by advisor)	3
Laboratory Experience EDSP 435—Supervised Teaching Practicum or EDSP 436—Supervised Teaching Practicum	4
	25

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

EDSP 199. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in special education. May be repeated in additional subject areas. A 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 the identification, education, and treatment of excep-

tional children—the gifted, those with low intelligence, and the handicapped—including the behavioral deviations involved.

EDSP 231. Field Experiences. (0-6-3-6); I, II. Involves the student in on-site experiences in a variety of schools, institutions, and agencies providing services to children with learning and behavior disorders. To be taken concurrently with EDSP 230.

EDSP 276. Independent Study. (1 to 3 hrs.); I, II, III. An independent study of a professional problem in special education.

EDSP 320. Introduction to Corrective Speech. (3-0-3); I, II. Introductory course in speech correction for the classroom teacher. (Same as SPCH 420.)

EDSP 399. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in special education. May be repeated in additional subject areas. A 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 the teacher education program; attainment of a scholastic standing of 2.25 on residence courses at MSU; minimum standing of 2.5 on all work completed in area of concentration, major(s), and minor(s); minimum of one semester residence; and permission of the teacher education committee. 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 coordinator of professional laboratory experiences.)

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 2.25 on residence courses at MSU; minimum standing of 2.5 on all work completed in area of concentration, major(s), and minor(s); minimum of one semester residence; and permission of the Teacher Education Committee. 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 one hour credit hour unit. (Application made through the coordinator of professional laboratory experiences.)

EDSP 470. Research Problems. (1 to 3 hrs.); I, II, III. An independent research study of a professional problem. Conferences with the instructor are by arrangement.

EDSP 537. Educational Assessment of Exceptional Children. (2-2-3); I, III. Assessment methodology relating to the 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); II. Prerequisite: EDSP 230. Etiology and symptomatology of trainable mentally handicapped children and assessment procedures appropriate for use with children who are severely to profoundly handicapped.

EDSP 550. Nature and Needs of Exceptional Children. (2-2-3); I, III. Prerequisite: EDSP 230. The physical, psychological, and educational needs of educable and trainable mentally retarded children; research pertaining to the nature and needs of the mentally retarded; ways of developing maximum abilities.

EDSP 551. Curriculum for Pre-School Exceptional Children. (2-2-3); II, III. Prerequisite: EDSP 230 and 550. 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 will be featured.

EDSP 552. Learning Disabilities. (3-0-3); III. An examination of psychological, medical, and educational literature involved with survey, clinical, and experimental work concerning a specific learning disorder.

EDSP 553. Curriculum for Secondary Exceptional Children. (2-2-3); I, III. Prerequisite: EDSP 230 and 550. Designed to prepare the teacher of exceptional children to develop procedures for modifying curriculum to include concepts related to preparation of exceptional children for employment. Vocational and career education instructional methods and materials will be explored along with the establishment and implementation of workstudy programs for exceptional children.

EDSP 555. Teaching Children with Learning and Behavior Disorders. (2-2-3); I, III. Prerequisite: EDSP 230 and 550. A consideration of curriculum sequence and specialized methods of instruction applicable to handicapped learners in classes for educable mentally retarded. The construction, use, and adaptation of materials by teachers who are working with related children.

EDSP 556. Teaching the Trainable Mentally Handicapped. (2-2-3); II. Prerequisite: EDSP 547 and 550. Application of methods and materials for teaching the trainable mentally handicapped. The construction and use of instructional aids to be used with the handicapped individual.

EDSP 557. Curriculum for Elementary Exceptional Children. (2-2-3); II, III. Prerequisite: EDSP 230 and 550. Designed to prepare the teacher to develop curriculum for exceptional children that integrates the use of prosthetic devices and equipment, parent counseling, and utilization of special education support services with the school program.

EDSP 558. Learning Disabilities Methodology. (2-2-3); III. Prerequisite: EDSP 552. Application of materials and methods (including the construction of instructional aids) for teaching the student with learning disabilities.

EDSP 581. Educational Statistics. (2-2-3); II, III. An 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.

Health, Physical Education, and Recreation

The Department of Health, Physical Education, and Recreation offers graduate and undergraduate professional preparation programs in health, physical education, recreation, driver education, athletic training, and safety education. Also, the department provides a service program with a wide variety of activity courses, including aquatics available to all students. A broad intramural sports program is offered with student, faculty, and staff participation.

Health

Requirements for a Major

	Sem. Hrs.
HLTH 203—Safety and First Aid	3
HLTH 205—Mental Health	3
HLTH 419—Emergency Medical Techniques	6
HLTH 303—Community Health	3
HLTH 320—Elements of Nutrition	3
HLTH 360—Family Health	3
HLTH 508—Principles of General School Safety	3
HLTH 475—School Health Program	3
HLTH 518—Use and Abuse of Drugs	3
	30

Additional course for teacher certification:

HLTH 304—Health in the Secondary School	2
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For a Minor in Health

21 hours approved by chairman

For a Minor in Safety Education

HLTH 203—Safety and First Aid	3
HLTH 200—Introduction to Driver Education	3
HLTH 201—Administration of Driver and Traffic Education	3
HLTH 202—Supervision of Safety Education	3
HLTH 306—Methods of Teaching Driver Education	3
HLTH 307—Intermediate Driver Education	3
HLTH 400—Advanced Driver Education	3
	21

For Endorsement in Driver Education

HLTH 203—Safety and First Aid	3
HLTH 200—Introduction to Driver Education	3
HLTH 307—Intermediate Driver Education	3
HLTH 400—Advanced Driver Education	3
	12

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

HLTH 150. Personal Health. (3-0-3); I, II, III. (Course will not be accepted as credit toward a major or minor.) Principles and practices of healthful living: personal, family, and community as aspects of health.

HLTH 160. Introduction to Health. (2-0-2); I, II. Foundations of health, physical health, mental health, social health, environmental health.

HLTH 200. Introduction to Driver Education. (3-1-3); I, II, III. Emphasis upon the effect of attitudes, emotions, and motivations on behavior. Review of research on accident causation and other relevant research. (Laboratory experiences are an integral part of this course. Same as PHED 500.)

HLTH 201. Administration of Driver and Traffic Education. (3-0-3); I, II. Prerequisites: HLTH/PHED 200 and 307. The organizational and administrative aspects of driver and traffic education as they relate to the total school and other specialized programs. Historical and philosophical aspects, evaluation, related professional organizations, and occupational opportunities. (Same as PHED 501.)

HLTH 202. Supervision of Safety Education. (3-0-3); I, II. Prerequisite: HLTH 200. This course examines the responsibilities, activities, and problems of administering safety programs; school bus transportation will be discussed. A thorough examination of the operational procedures of safety educational programs on the high school, college, city, and state levels will be discussed. (Same as PHED 503.)

HLTH 203. Safety and First Aid. (3-0-3); I, II, III. Safety education and accident prevention program in school, industry, and public service; Red Cross Standard, Advanced, and Pre-Instructor First Aid.

HLTH 204. Instructor First Aid. (1-0-1); I, II. Prerequisites: Current Red Cross Advanced First Aid Certificate and permission of instructor. Red Cross First Aid Instructor Training Course.

HLTH 205. Mental Health. (3-0-3); I, II, III. Prerequisite: PSY 154. A study of the 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 300. Health in the Elementary School. (2-1-2); I, II, III. Prerequisite: admission to the teacher education program. The elementary school health program; educational theory and methods as applied to health teaching on the elementary school level. (Laboratory experiences are an integral part of this course.)

HLTH 303. Community Health. (3-0-3); I, II. Principles and practices of health as applied to the community; the nature of the community, problems of community health, community health education.

HLTH 304. Health in the Secondary School. (2-1-2); I, II. Prerequisite: admission to the teacher education program. The secondary school health program, educational theory and method as applied to health teaching on the secondary school level. (Laboratory experiences are an integral part of this course.)

HLTH 306. Methods of Teaching Driver and Traffic Education. (3-0-3); I, II. Prerequisite: HLTH/PHED 200. This course is designed to give the student an understanding of the specifics of classroom instruction in the various subject matter fields. Selection of presentation and evaluation techniques based on recognized course objectives. (Same as PHED 504.)

HLTH 307. Intermediate Driver Education. (2-2-3); I, II, III. Prerequisite: HLTH 200. Teaching the student how to teach others to drive. Discussion of all levels of organization and appropriate teaching procedure. (Laboratory experiences are an integral part of this course.)

HLTH 320. Elements of Nutrition. (3-0-3); I, II, III. (Same as HEC 320.)

HLTH 360. Family Health. (3-0-3); I, II, III. Study of the family and family living; the nature of the family, love, marriage preparation, marriage, family living.

HLTH 400. Advanced Driver Education. (3-0-3); I, II, III. Prerequisites: PHED/HLTH 200 and 307. Analysis of the psycho-physical problems of human behavior as it relates to safety and driver education. (Same as PHED 512.)

HLTH 419. Emergency Medical Techniques. (5-1-6); I, II. Prerequisite: HLTH 203. This course emphasizes the development of skills in recognition of symptoms of illness and injuries and proper procedures of emergency care. Reliance is placed heavily on demonstration and practice as a teaching method. (Laboratory experiences are an integral part of this course.)

HLTH 475. The School Health Program. (3-0-3); I. Study of all aspects of elementary and secondary level school health: philosophy, organization and administration, environment, services, education, evaluation.

HLTH 508. Principles of General School Safety. (3-0-3); I, II. Prerequisite: senior or graduate student. A 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 the field of psychoactive drugs with particular emphasis on the behavioral effects of these agents.

HLTH 576. Special Problems in Health. (1 to 3 hrs.); I, II. Prerequisite: upper division or graduate classification. This course is designed to meet the special needs of individual students. An intensive study of approved specific problems from the area of health, physical education, and recreation, under the direction of the instructor.

HLTH 599. Workshop. (1 to 3 hrs.); I, II, III. A 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.

Physical Education

Requirements for a Major

	Sem. Hrs.
PHED 104—Gymnastics	1
PHED 120—Basic Rhythms	1
PHED 131—Intermediate Swimming	1
PHED 132—Life Saving	1
PHED 150—Introduction to Physical Education	2
PHED 422—Coaching Inter-Scholastic Athletics	3
PHED 301—Evaluation in Health, Physical Education, and Recreation	3
PHED 302—Athletic Injuries	2

PHED 303—Physical Education in the Secondary School	2
PHED 401—Organization and Administration of Physical Education	3
PHED 402—Kinesiology	3
PHED 432—Physiology of Exercise	3
PHED 475—Adapted Physical Education	2
PHED 222 or PHED 223—Individual Sports	2
PHED 309, 319, 409, or 419—Team Sports	2
5 activities approved by chairman	5
	36

Students Electing K-12 Certification Must Take:

	Sem. Hrs.
PHED 206—Rhythmical Activities in the Elementary School	2
PHED 300—Physical Education in the Elementary School	2
PHED 311—Movement Exploration	3
PHED 312—Individual and Team Games for Elementary School	4
EDEL 210—Human Growth and Development I	3
EDEL 333—Fundamentals of Elementary Education	4
	18

For a Minor in Athletic Training:

HLTH 203—Safety and First Aid	3
PHED 302—Athletic Injuries	2
PHED 402—Kinesiology	3
PHED 420—Administration of School Athletic Programs	3
PHED 207—Training Room Modalities	2
PHED 208—Medical Aspects of Athletic Training	2
PHED 209—Training Room Practice	2
PHED 210—Diagnostic Techniques of Athletic Injuries	2
PHED 432—Physiology of Exercise	3
HLTH 320—Elements of Nutrition	3
	25

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

All activity courses carrying one hour of credit meet two hours per week for the entire semester or four hours per week for half the semester.

PHED 100. Golf. (0-2-1); I, II, III. Emphasis on skill, knowledge, and techniques for individual participation.

PHED 101. Tennis. (0-2-1); I, II, III. Emphasis on skill, knowledge, tactics, and techniques for individual participation.

PHED 102. Badminton. (0-2-1); I, II, III. Emphasis on skill, knowledge, tactics, and techniques for individual participation.

PHED 103. Archery. (0-2-1); I, II, III. Emphasis on skill, knowledge, tactics, and techniques for individual participation.

PHED 104. Gymnastics. (0-2-1); I, II. Emphasis on self-testing activities. Locomotor activities, rolls, springs, and dual stunts will be stressed.

PHED 106. Wrestling (for men). (0-2-1); I, II. Rules of interscholastic and intercollegiate wrestling, various holds and escapes, and conditioning necessary to perform skills.

PHED 107. Bowling. (0-2-1); I, II, III. Acquaints the student with the basic movement skills involved in bowling. Other factors considered will be knowledge of the rules, scoring, and the accepted procedures used in individual and team play.

PHED 108. Restricted Physical Education. (0-2-1); I, II. For students with either a structural or functional problem which prevents their participation in the regular program. (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. Basic throwing and mat techniques used in sport judo are stressed. Introduction to rules, competitive systems, and physical conditioning necessary to perform the related techniques are covered.

PHED 111. Angling. (0-2-1); I, II, III. The basic skill in becoming an angler is casting; fly and bait. In fly casting, the fundamental techniques and skills to be taught would be grip, stance, aim, and cast.

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, II. Rules, techniques, and participation in soccer.

PHED 114. Track and Field. (0-2-1); I, II. Emphasis on skill, knowledge, and techniques for individual participation.

PHED 115. Apparatus. (0-2-1); I, II. Stress will be to acquaint the individual with the many pieces of apparatus on which self-testing activities can be performed.

PHED 116. Lacrosse. (0-2-1); I. Acquaints the student with the basic skills involved in lacrosse. Other factors considered will be techniques and methods of playing and knowledge of rules.

PHED 117. Stunts and Tumbling. (0-2-1); I, II. Stunts and tumbling is a con-

structive and significant part of physical education. The course will present a wide range of activities and illustrate the values from each. The course will provide 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. An activity course designed to develop both skills and knowledge in the fundamentals of dance.

PHED 121. Modern Dance. (0-2-1); I, II. Modern dance technique, composition, and production. An introduction to movement as a means of self expression.

PHED 122. Social Dance. (0-2-1); I, II. The basic steps and combination of popular dances; aims at acquisition of skill in these steps for participation in dancing for pleasure and satisfaction.

PHED 123. Folk and Square Dancing. (0-2-1); I, II. Traditional social dances of people of many nations, including the American square dance.

PHED 124. Canoeing. (0-2-1); I, III. Emphasis on skill, knowledge, and tactics in all types of streams. (Same as REC 124.)

PHED 125. Basketball Skills. (0-2-1); I, II. The class will teach the skills of basketball such as catching, throwing, shooting, dribbling, stance, and footwork. It will also include lead up games to basketball such as keep away, twenty-one, hide-line basketball, freeze out and others.

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. Personal safety and self-rescue skills so that one may be capable of taking care of one's self. The ability to aid or rescue anyone in danger of drowning, if rescue is possible, by the best and safest method applying to the situation.

PHED 133. Instruction to Water Safety. (0-2-1); I, II. **Prerequisite:** current Senior Lifesaving Certificate. Development of personal skills in swimming and lifesaving, with emphasis on teaching methods and techniques. Successful completion of this course will provide the certification as an American Red Cross W.S.I.

PHED 135. Field Hockey. (0-2-1); II. Designed to familiarize the student with fundamental skills and techniques in field hockey.

PHED 138. Fencing. (0-2-1); I, II. Emphasis on skill, knowledge, and strategy.

PHED 150. Introduction to Physical Education. (2-0-2); I, II, III. Principles and basic philosophy, aims, and objectives; standards; and significance in the profession of physical education.

PHED 204. Officiating. (2-0-2); I, II. Interpretation of rules for all 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 the last year. Designed to provide the student with scientifically-based knowledge concerning the practical application of physical fitness training and evaluation procedures while participating in a fitness program. The course is divided into three sections: appraisal, prescription training, and evaluation.

PHED 206. Rhythmical Activities in the Elementary School. (1-1-2); I, II. The class would aid the student in understanding how to keep time, to move in keeping with rhythm, to understand possibilities of fitness in a rhythm activity, and the possibility of the student understanding the body mechanics and posture.

PHED 207. Training Room Modalities. (1-1-2); I, II. **Prerequisites:** PHED 203, 302. Emphasis on participation and use of machinery by the students involved with training room procedures.

PHED 208. Medical Aspects of Athletic Training. (1-1-2); I, II. **Prerequisites:** PHED 203, 302. The study of relationships existing between training programs and medical society, including case history studies.

PHED 209. Training Room Practice. (0-3-3); I, II. **Prerequisites:** PHED 203, 302. Actual work-participation situation involving the student in training room work.

PHED 210. Diagnostic Techniques of Athletic Injuries. (1-1-2); I, II. **Prerequisites:** PHED 203, 302. Diagnosis of athletic injuries.

PHED 222. Individual Sports I. (1-1-2); I, II. Emphasis on the development of performance skills, teaching techniques, and officiating in tennis, badminton, and racquetball.

PHED 223. Individual Sports II. (1-1-2); I, II. Emphasis on the development of performance skills and teaching techniques in cycling-exercise program, archery, and golf.

PHED 300. Physical Education in the Elementary School. (2-0-2); I, II, III. **Prerequisite:** admission to the teacher education program. Selection and organization of materials and techniques of instruction for the elementary school program. (Laboratory experiences are an integral part of this course.)

PHED 301. Evaluation in Health, Physical Education, and Recreation. (3-0-3); I, II, III. Methods, techniques, and procedures used in the evaluation of

students in health, physical education, and recreation.

PHED 302. Athletic Injuries. (2-0-2); III. Theory and practice of massage, bandaging, taping, and caring for athletic injuries.

PHED 303. Physical Education in the Secondary School. (2-0-2); I, II, III. **Prerequisite:** admission to the teacher education program. Selection and organization of materials and techniques of instruction for the secondary school program.

PHED 304-305. Affiliation in Physical Education. (0-2-1); I, II. Students will observe and assist a staff member in one or more of the service classes. The course is designed to give the student practical teaching experience under the guidance of qualified instructors within a particular area. (Laboratory experiences are an integral part of this course.)

PHED 306. Methods of Teaching Secondary Driver and Traffic Education. (3-0-3); I, II. (Same as HLTH 306.)

PHED 308. Baseball Techniques. (2-0-2); I, II. The fundamentals and strategy of baseball are covered from both the theoretical and practical aspects.

PHED 309. Team Sports I. (1-1-2); I, II. Emphasis on the development of performance skills, teaching techniques, and officiating in volleyball and soccer.

PHED 311. Movement Exploration. (2-1-3); I, II. Designed to present physical education as a child-centered program and demonstrate methods whereby a child may learn to move experimentally, expressively, and efficiently.

PHED 312. Individual and Team Games for Elementary School. (2-3-4); I, II. Emphasis will be on the development of the individual skills in a team game atmosphere.

PHED 319. Team Sports II. (2-0-2); I, II. Emphasis on the development of performance skills, teaching techniques, and officiating in basketball and softball.

PHED 401. Organization and Administration of Physical Education. (3-0-3); I, II, III. The arrangement of the units making up the physical education program, and the process of leadership by which the serious aspects are brought together in a functioning whole.

PHED 402. Kinesiology. (3-0-3); I, II, III. Study of human action; anatomy, physiology, mechanics, analysis, application.

PHED 409. Team Sports III. (2-0-2); I, II. Emphasis on the development of performance skill and teaching techniques in football.

PHED 419. Team Sports IV. (2-0-2); I, II. Emphasis on the development of performance skills and teaching techniques in cross country, track and field, and field hockey.

PHED 420. Administration of School Athletic Programs. (3-0-3); I, II. The study of sound administrative principles and procedures applicable to the school athletic program, with special emphasis at the secondary level.

PHED 422. Coaching Inter-Scholastic Athletics. (3-0-3); I, II. Emphasis will be on the coaching techniques of inter-scholastics.

PHED 432. Physiology of Exercise. (3-0-3); I, II, III. **Prerequisite:** PHED 402, or concurrently, or permission of instructor. Study of the response of the body to muscular activity; nature of contraction, work and efficiency, circulorespiratory adjustment, training, and fitness. (Laboratory experiences are an integral part of this course.)

PHED 475. Adapted Physical Education. (2-0-2); I, II. The nature and extent of the problem of exceptional students and the means whereby these students can be aided through physical education.

PHED 576. Special Problems in Physical Education. (1 to 3 hrs.); I, II. **Prerequisite:** upper division or graduate classification. This course is designed to meet the special needs of individual students. An intensive study of approved specific problems from the area of health, physical education, and recreation, under the direction of the instructor.

PHED 599. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in physical education. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

Recreation

For a Major in Recreation:

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 Organization	2
REC 375—Creative Dramatics	3
REC 388—Community Centers and Playgrounds	3
REC 390—Field Experience II	1
REC 471—Seminar	1
REC 475—Therapeutic Recreation	3

REC 477—Recreation Internship	8
REC 580—Outdoor Interpretation	3
	38

For a Minor in Recreation:
21 hours approved by chairman.

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

REC 201. Outdoor Recreation. (3-0-3); II, III. Scope and history of outdoor recreation. Development of camp craft skills.

REC 209. Recreational Sports. (2-1-2); I, II, III. Prerequisite: Three of five activities. History, knowledge of rules, proficiency of the skills, and teaching ability of bowling, archery, volleyball, soccer, and squash-handball. (Laboratory experiences are an integral part of this course.)

REC 285. Community Recreation. (2-0-2); I, II, III. Emphasizes the general aspects of community recreation, the place of the 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, III. 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 the student practical experience under the guidance of qualified leadership. (Laboratory experiences are an integral part of this 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 the major youth service organizations with emphasis on leadership techniques and programming.

REC 375. Creative Dramatics. (3-0-3); II, III. An 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 the 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 the 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.). Planning, leadership, supervision, and program evaluation experience in a community and recreation public agency program under qualified administrative leadership and University faculty supervision. (Laboratory experiences are an integral part of this course. Application made through the Coordinator of Professional Laboratory Experiences.)

REC 490. Field Experience II. (1-1-1); I, II, III. The course is designed to give the student practical experience under the guidance of qualified leadership. (Laboratory experiences are an integral part of this course.) (Application made through the Coordinator of Professional Laboratory Experiences.)

REC 522. Park Management and Resource and Operation. (3-0-3); I, II. Prerequisite: senior standing. Theory and current practices involved in the effective management and operation of parks and recreation areas, with emphasis on management policies and procedures for efficient operation. A point of primary emphasis is practical work with local, state, and federal park systems and personnel to apply the theoretical knowledge in a practical situation.

REC 526. Fiscal Management in Parks and Recreation. (3-0-3); I, II. Prerequisite: senior standing. This course considers things that are peculiar to recreation and park administration such as tax structures, budgets, the budget preparation procedure, projecting financial aspects of recreation, and things necessary to handle properly the financial affairs in the recreation and park field.

REC 528. Camping Administration. (2-0-2); I, II. Prerequisite: senior standing. This course considers the multitude of details necessary in the 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. This course is designed to meet the special needs of individual students. An intensive study of approved specific problems from the area of recreation under the direction of the instructor.

REC 580. Outdoor Interpretation. (2-2-3); II, III. Procedures for conducting and supervising naturalist and outdoor interpretive programs.

REC 585. Programs and Materials for Therapeutic Recreation. (0-2-3); I, II. Prerequisite: senior standing. An in-depth study of the programs and

materials used in therapeutic recreation. Considers various devices, activities, and materials that can be used in programs for individuals. Practical work with individuals in therapeutic situations is stressed.

REC 599. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in recreation. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

Leadership and Foundations

This department is responsible for the undergraduate and graduate educational foundations component in teacher education programs. The department is responsible for the graduate level professional preparation of school administrators, supervisors, counselors, and other instructional support areas. Graduate programs in Higher Education and Adult and Continuing Education are offered. The Adult Learning Center and Adult Basic Education Program are located in this department.

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

ADULT AND CONTINUING EDUCATION

EDAC 102. Study Skills. (1-0-1); I, II (Each 9-week period). This course is designed to provide special training in the skills and techniques necessary for college level study.

EDAC 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.

EDAC 299. Workshop. (1 to 3 hrs.); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDAC 399. Workshop. (1 to 3 hrs.); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDAC 499. Workshop. (1 to 3 hrs.); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDAC 554. Principles of Adult and Continuing Education. (3-0-3); I, II. Overview of adult education; historical development; psychological and sociological basis of adult learning; trends and major issues in adult education; and the principles of teaching adults.

EDAC 599. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

Description of Courses

Note: (3-0-3) following course title indicates: 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term the course is normally offered: I—fall; II—spring; III—summer.

FOUNDATIONS OF ELEMENTARY EDUCATION

EDEL 208. Foundation of Elementary Education. (2-0-2); I, II, III. A study of the changing role of public elementary education and the nature of the teaching profession; an analysis of classroom techniques and school organization; description of the varied services and functions at the elementary school level; provisions of opportunities for the student to analyze personal qualifications for teaching. (Laboratory experiences are an integral part of this course.)

EDEL 210. Human Growth and Development I. (3-0-3); I, II, III. Prerequisite: PSY 154. Study of the principles of physical, intellectual, emotional, and social growth and development from conception to adolescence. (Laboratory experiences are an integral part of this course.)

EDEL 360. History of Education. (3-0-3); II. Education in ancient, medieval, and modern periods; early American backgrounds; early campaigns for the improvement of instruction and teacher training; the development of present practices; great educators of each period and their contribution.

EDEL 410. Human Growth and Development II. (3-0-3); III. Prerequisites: EDEL 208, 210, and admission to the teacher education program. (When taken separately, approval of the head of the department is required.) A continuation of EDEL 210.

EDEL 516. Educational Data Processing. (3-0-3); II. This course provides introductory familiarization with computers. The role of the computer and the educational uses of computers are presented in the broad context. Instructional mode will be classroom presentation and "hands-on" experience with time-sharing and batch-process computing using the Data General NOVA/840 computing system.

Description of Courses

Note: (3-0-3) following course title indicates 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term the course is normally offered: I—fall; II—spring; III—summer.

GUIDANCE AND COUNSELING

EDGC 105. Career Planning. (2-0-2); I, II. Systematic information and guidance in career development is provided which assist 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 the field of study. May be repeated in additional subject areas.

EDGC 299. Workshop. (1 to 3 hrs.); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDGC 364. Career and Vocational Guidance. (3-0-3); II. Study of the concept of career education, and exploration of the 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.

EDGC 399. Workshop. (1 to 3 hrs.); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDGC 499. Workshop. (1 to 3 hrs.); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDGC 566. Introduction to Vocational Rehabilitation Services. (3-0-3); I, III. History of vocational rehabilitation movement, legislative efforts, and impact; an overview of the rehabilitation process, roles of rehabilitation professionals in various rehabilitation settings, discussion of values and ethics, and an 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 580. Measurement Principles and Techniques. (3-0-3); I, III. Identification of educational objectives associated with test construction; table specifications; elementary statistics; testing and nontesting procedures. Investigations of major types of tests; administration, scoring, and interpretation of test results.

EDGC 599. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

educational uses of computer are presented in a broad context. Instructional mode will be classroom presentation and "hands-on" experience with time-sharing and batch-process computing using the Data General NOVA/840 computing system.

PROFESSIONAL EDUCATION

EDUC 582. Discipline and Classroom Management. (3-0-3); I, II, III. A course designed to provide assistance in establishing an organized, well-managed classroom. Emphasis on available options and alternatives in dealing with the disruptive student in the classroom.

Psychology

The Department of Psychology is responsible for the instruction, advisement, research, and service components normally associated with undergraduate and graduate studies in psychology. The undergraduate curricula include a teaching and non-teaching major and minor in psychology.

Requirements for a Major

	Sem. Hrs.
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 521—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 548—Perception	
Learning and Motivation	3
PSY 559—Behavior Modification	
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 556—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 422—Comparative Psychology	3
PSY 470—Research Problems	3
PSY 558—Psychological Testing	3
PSY 575—Selected Topics	1-3
PSY 599—Workshop	1-3

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Additionally, for teacher certification:	
EDSE 209—Foundations of Secondary Education	2
EDSE 310—Principles of Adolescent Development	3
EDSE 477—Professional Semester	17

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

FOUNDATIONS OF SECONDARY EDUCATION

EDSE 209. Foundations of Secondary Education. (2-0-2); I, II, III. Examines objectives of secondary education; the means of implementing objectives; and the supportive framework at national, state, and local levels. Current opportunities in secondary education are investigated. (Laboratory experiences are an integral part of this course.)

EDSE 310. Principles of Adolescent Development. (3-0-3); I, II, III. Prerequisite: PSY 154 and admission to teacher education program. A survey of developmental concepts and a study of adolescent behavior as it relates to the secondary teacher. (Laboratory experiences are an integral part of this course.)

EDSE 410. Human Growth and Development II. (3-0-3); III. Prerequisites: EDSE 310, admission to the teacher education program, and approval of head of department. A continuation of EDSE 310.

EDSE 516. Educational Data Processing. (3-0-3); II. This course provides the introductory familiarization with computers. The role of the computer and the

Requirements for a Minor

PSY 154—Introduction to Psychology	3
MATH 353—Statistics	
OR	
EDSP 581—Educational Statistics	3
Psychology electives	18
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Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

PSY 154. Introduction to Psychology. (3-0-3); I, II, III. An introduction and general course concerning the application of psychological theories and principles in the 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. Life-span developmental psychology covers developmental theories, principles, and characteristics of individuals across the three major developmental periods: infancy and childhood, adolescence, and adulthood.

PSY 157. Psychology of Adjustment. (3-0-3); I. Prerequisites: PSY 154 or consent of instructor. An overview of processes and adaptation and personal adjustment in family, group, and work settings. The personality theories of Erikson, White, and others are applied to the process of developing for the individual a sense of competence and means of resolution of crises during the life cycle.

PSY 199. Workshop (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. A maximum of 6 sem. hrs. may be earned under this course number.

PSY 276. Independent Study (1 to 3 hrs.); I, II, III. An independent study of a 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. The scientific study of the individual's relationship with the social environment. Emphasis on attitudes, personality, prejudice, discrimination, dominance, role theory, social learning, social and interpersonal perception, and social movement.

PSY 381. Experimental Psychology I. (2-2-3); I. Prerequisites: PSY 154 and EDSP 581 or MATH 353. The study of experimental methods and design related to sensation, perception, discrimination, learning, forgetting, and retention. (Laboratory experiences are an integral part of this course.)

PSY 390. Psychology of Personality. (3-0-3); I, II. Prerequisite: PSY 154. An introduction to the major approaches, methods, and findings in the field of personality, including an overview of basic theories, strategies, issues, and conclusions; some attention to assessment and personality change.

PSY 399. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

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 studies include: instinct, learning, motivation, sensory discrimination, heredity, and perception.

PSY 470. Research Problems. (1 to 3 hrs.); I, II, III. An independent research study of a professional problem. Conferences with the instructor are by arrangement.

PSY 521. Physiological Psychology. (3-0-3); II. Prerequisite: PSY 154. Physiological mechanisms of normal human and animal behavior. Anatomy and physiology relevant to the study of sensory and motor functions, emotion, motivation, and learning.

PSY 554. Seminar in Social Psychology. (3-0-3); II. Prerequisites: PSY 154 or consent of instructor. An intensive examination of the research methods and theory in modern social psychology.

PSY 555. Environmental Psychology. (3-0-3); II. Prerequisite: PSY 154. The 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 are examined.

PSY 556. Introduction to Clinical Psychology. (3-0-3); I. Prerequisite: PSY 154. A survey of basic theoretical issues and research in the areas of assessments and psychotherapy. Consideration of ethical, legal, and other professional problems in clinical psychology. Emphasis on clinical aspects of the school psychologist's functions in working with school age children.

PSY 576. Seminar in Developmental Research. (3-0-3); II. Prerequisites: PSY 156 or permission of instructor. An intensive examination of research and in contemporary developmental psychology. Emphasis on reading and evaluating current journal articles and designing research projects.

PSY 558. Psychological Testing. (3-0-3); II. Prerequisite: PSY 154. A general introduction to psychological testing. Topics covered 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 559. Behavior Modification. (2-2-3); II, III. Prerequisite: PSY 154. Operant learning principles that govern human behavior will be applied to the modification of behavior in the school setting. The course is designed to give experience in dealing with behavioral problems in the classroom and in other settings. (Laboratory experiences are an integral part of this course.)

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 582. Experimental Psychology II. (2-2-3); II. Prerequisite: PSY 381 or consent of instructor. A seminar course in experimental psychology emphasizing the content areas of learning, motivation, perception, and physiological psychology. The course is designed to give the student practice in critical thinking, evaluation of experimental design, and original research, and affords the student an opportunity to present and debate his or her own ideas. (Laboratory experiences are an integral part of this course.)

PSY 583. Sensory Psychology. (3-0-3); I. Prerequisites: PSY 154 and EDSP 581 or MATH 353. The study of the biological and the 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. Prerequisites: PSY 154. An examination of the role of perception as an information extraction process. Includes the constancies, space perception, illusions, and the influence of learning and experience on the development of perception. (Laboratory experiences are an integral part of this course.)

PSY 585. Systems and Theories. (3-0-3); I. Prerequisite: PSY 154 and EDSP 581 or MATH 353. An intensive study of the 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. A consideration of the bases of human and animal motivation in relation to other psychological processes. (Laboratory experiences are an integral part of this course.)

PSY 589. Psychology of Learning. (3-0-3); I, III. Prerequisite: PSY 154. The fundamental principles of learning, including acquisition, retention, forgetting, problem solving, and symbol formation; experimental studies; the 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. The psychology, behavior, and treatment of individuals having superior or inferior mental abilities, perceptual handicaps, orthopedic problems, and behavioral disorders; the general methods used in therapy, and research in this area.

PSY 591. Application on SPSS to the Life Sciences. (1-1-1); I. Prerequisites: MATH 353 or EDSP 581 or consent of instructor. Application of descriptive and inferential statistics by SPSS computer package for data analyses in the life sciences.

PSY 592. Application of BMD to the Life Sciences. (1-1-1); I. Prerequisites: MATH 353 or EDSP 581 or consent of instructor. Application of descriptive and inferential statistics by BMD computer package for data analyses in the life sciences.

PSY 593. Application of SAS to the Life Sciences. (1-1-1); I. Prerequisites: MATH 353 or EDSP 581 or consent of instructor. Application of descriptive and inferential statistics by SAS computer package for data analyses in the life sciences.

PSY 599. Workshop. (1 to 3 hrs.); I, II, III. A workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. A maximum of six semester hours may be taken.

School of Humanities

Departments

Art
Communications
Languages and Literature
Music
Philosophy

Cooperative Study

A student may earn variable credit (1 to 8 hours) in Cooperative Study within the various departments of the School of Humanities. Cooperative study arrangements require prior approval of the appropriate academic department in conjunction with the Office of Field Career Experiences. See general section of Catalog, *Field Career Experiences*, for further clarification.

Description of Courses

NOTE: (3-0-3) following course title indicates: hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally offered: I—fall semester, II—spring semester, and III—summer term.

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.

Art

The Art Department offers undergraduate and graduate programs in art education 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.

Requirements for an Area of Concentration*

	Sem. Hrs.
ART 101—Drawing I	3
ART 103—Drawing II	3
ART 202—Composition and Drawing	3
ART 204—Figure Drawing I	3
ART 214—Painting Techniques I	3
ART 245—Ceramics I	3
ART 251—Printmaking I	3
ART 283—Photographic Design I	3
ART 291—Color and Design	3
ART 294—Sculpture I	3
ART 300—Elementary Materials and Methods	3
ART 304—Figure Drawing II	3
ART 314—Painting Techniques II	3
ART 414—Painting Techniques III	3
ART 514—Painting Techniques IV	3
ART 321—Materials and Methods for Secondary Art	3
ART 363—Baroque Art	3
ART 365—Arts of the United States I	3
OR	
ART 563—Baroque Art	
OR	
ART 564—Modern and Contemporary Art	
OR	
ART 565—Arts of the United States II	3
ART 345—Ceramics II	
OR	
ART 394—Sculpture II	3
	54

For a Major*

ART 101—Drawing I	3
ART 103—Drawing II	3
ART 202—Composition and Drawing	3
ART 204—Figure Drawing I	3
ART 214—Painting Techniques I	3
ART 314—Painting Techniques II	3
ART 300—Elementary Materials and Methods	3
ART 241—Crafts I	
OR	
ART 245—Ceramics I	3
ART 251—Printmaking I	3
ART 363—Baroque Art	3

ART 365—Arts of the United States I
OR
ART 564—Modern and Contemporary Art
OR
ART 565—Arts of the United States II 3
ART 291—Color and Design 3
ART 321—Materials and Methods for Secondary Art 36

For a Minor*

ART 101—Drawing I 3
ART 102—Drawing II 3
ART 204—Figure Drawing I 3
ART 214—Painting Techniques I 3
ART 314—Painting Techniques II 3
ART 300—Elementary Materials and Methods 3
ART 241—Crafts I 3
OR
ART 245—Ceramics I 3
ART 291—Color and Design 3
ART 321—Materials and Methods for Secondary Art 3
27

*Students wishing to have this certificate validated for service in the elementary grades must include EDEL 333—Fundamentals of Elementary Education, in their programs.
Special note: ART 263 and 264 must be taken by all art areas, majors, and minors to satisfy six hours of the general education requirements in humanities.

Suggested Program

The following program for freshman and sophomore years has been devised to help students in selecting their courses and making their schedules. Close adherence will aid the student in meeting requirements for graduation.

Provisional High School Certificate
with an Area of Concentration in Art

FRESHMAN YEAR

	First Semester	Sem. Hrs.
ENG 101—Composition I	3	3
PHED—Activity Course	1	1
SCI 103—Intro. to Physical Sci.	3	3
ART 101—Drawing I	3	3
ART 264—Medieval and Renaissance Art	3	3
HLTH 150—Personal Health	2	2
Elective	2	2
		17
	Second Semester	
ENG 102—Composition II	3	3
SCI 105—Intro. to Biological Sci.	3	3
ART 103—Drawing II	3	3
ART 263—Ancient Art	3	3
ART 291—Color and Design	3	3
EDEL 208—Foundations of Elementary Education (elementary art education majors)		
OR		
ENSE 209—Foundations of Secondary Education (secondary art education majors)	2	2
		17

SOPHOMORE YEAR

	First Semester	
ENG—Literature elective	3	3
ART 202—Comp. and Draw.	3	3
ART 204—Figure Drawing	3	3
sci. or math elective	3	3
ART 214—Painting Techniques I	3	3
		15
	Second Semester	
EDSE 310—Principles of Adolescent Development	3	3
PHED—Activity course	1	1
ART 314—Painting Techniques II	3	3
ART 251—Printmaking I	3	3
ART 294—Sculpture I	3	3
Elective	3	3
		16

Suggested Schedule of Classes for Students
with a Commercial Art Option

FRESHMAN YEAR

	First Semester	Sem. Hrs.
ENG 101—Composition I	3	3

SCI 103—Intro. to Physical Sci.	3
ART 101—Drawing I	3
ART 263—Ancient Art	3
ART 291—Color and Design	3
PHED—Activity course	1
	16

Second Semester

ENG 192—Technical Composition	3
SCI 105—Intro. to Biological Sci.	3
ART 103—Drawing II	3
ART 264—Medieval and Renaissance Art	3
ART 292—Three Dimensional Design	3
PHED—Activity course	1
	16

SOPHOMORE YEAR

First Semester

ART 104—Lettering, Layout and Design	3
ART 202—Comp. & Drawing	3
ART 251—Printmaking I	3
ART 283—Photographic Design I	3
Math or science elective	3
	15

Second Semester

ART 204—Figure Drawing I	3
ART 214—Painting Techniques I	3
ART 284—Commercial Photography	3
HLTH 150—Personal Health	2
MATH—Elective	3
Social science elective	3
	17

JUNIOR YEAR

First Semester

ART 203—Fashion Illustration	3
ART 290—Graphic Design I	3
ART 303—Commercial Illustration	3
ART 314—Painting Techniques II	3
SOC 101—General Sociology	3
	15

Second Semester

ART 304—Figure Drawing II	3
ART 351—Printmaking II	3
ART 353—Commercial Layout & Design	3
ART 365—Arts of the U.S.	3
JOUR 483—Advertising Copy Writing	2
ENG 202—Intro. to Literature	3
	17

SENIOR YEAR

First Semester

ART 383—Photographic Design II	3
ART 551—Printmaking III	3
ART 564—Modern and Contemporary	3
IET 351—Graphic Duplication	3
Social science elective (upper division)	3
	15

Second Semester

ART 390—Graphic Design II	3
Social science elective (upper division)	3
Electives	8
HUM—Elective (upper division)	3
	17

Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

- ART 101. Drawing I. (2-2-3); I, II, III. Introduction to objective and subjective drawing using various graphic media.
- ART 103. Drawing II. (2-2-3); I, II, III. Prerequisite: ART 101. A continuation of ART 101.
- ART 104. Lettering, Layout and Design. (2-2-3); I, II. Introduction to lettering principles and their application. Rough and comprehensive layout in black, white, and color with emphasis on design.
- ART 121. School Art I. (3-0-3); I, II, III. Introduction to art and to the teaching of art in the lower (1-3) elementary grades.
- ART 202. Composition and Drawing. (2-2-3); I, II. Prerequisites: ART 101 and 103. A continuation of objective and subjective drawing with emphasis on composition.
- ART 203. Fashion Illustration. (2-2-3); I, II. Prerequisites: ART 101 and 103. Fundamentals of drawing the clothed figure, with subsequent emphasis on the

fashion figure, executed in wash, pen and ink, and color. Projects in fashion layout and design are included.

ART 204. Figure Drawing I. (2-2-3); I, II. **Prerequisite:** ART 101. An introduction to the human figure as an expressive form; composition, gesture, proportion, and anatomical observations.

ART 214. Painting Techniques I. (2-2-3); I, II, III. **Prerequisite:** ART 101, 103, 291, or permission of department. An 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. (3-0-3); I, II, III. The philosophy and methods of teaching art to children in the elementary grades; a study of materials, media, and tools.

ART 241. Crafts I. (2-2-3); I, II. Creative and technical processes of weaving, fabric design, metal, and jewelry making.

ART 245. Ceramics I. (2-2-3); I, II, III. Introduction to ceramic forms in hand building, wheel-throwing, glazing, and decorative techniques.

ART 251. Printmaking I. (2-2-3); I, II. **Prerequisites:** ART 101 and 103. Creative experiments with the printing processes of silkscreen, etching, drypoint, aquatint, collography, monoprint, wood-block, and lithography.

ART 263. Ancient Art. (3-0-3); I, II. The history of Western painting, sculpture, and architecture from prehistoric times until the beginning of the Christian era.

ART 264. Medieval and Renaissance Art. (3-0-3); I, II. The history of Western painting, sculpture, and architecture from the beginning of the Christian era until about 1600.

ART 283. Photographic Design I. (2-2-3); I, II. Experimental and standard photographic processes and techniques are approached with an aesthetic view of the medium.

ART 284. Commercial Photography. (2-2-3); I, II. Concentrated study on fashion and product photography as an element of advertising design.

ART 290. Graphic Design I. (2-2-3); I, II. A study of three-dimensional design with emphasis on product and package design.

ART 291. Color and Design. (2-2-3); I, II, III. A study in two- and three-dimensional designs with emphasis on perception and the fundamentals of visual organization.

ART 292. Three-Dimensional Design. (2-2-3); I, II. A study of three-dimensional design with emphasis on product and package design.

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. (3-0-3); II, III. **Prerequisite:** acceptance into the teacher education program. Presentation of the background and philosophy of elementary art in education.

ART 303. Commercial Illustration. (2-2-3); I, II, III. A study of 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 304. Figure Drawing II. (2-2-3); I, II. **Prerequisite:** ART 204. A serious search into the expressive possibilities of the figure; anatomical investigation of parts, variety of media and techniques leading to individual interpretation.

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 321. Materials and Methods for Secondary Art. (3-0-3); I, III. **Prerequisite:** acceptance into teacher education program. Presentation of the background, philosophy, and techniques for the teaching of art in the secondary school.

ART 345. Ceramics II. (2-2-3); I, II, III. **Prerequisite:** ART 245. Individual work in wheel-throwing, hand building, operation of kilns, and basic experiments in glazing.

ART 351. Printmaking II. (2-2-3); I, II. **Prerequisite:** ART 251. An intensified investigation of the printing technique, both relief, intaglio, and planographic, studied in Printmaking I.

ART 353. Commercial Layout and Design. (2-2-3); I, II. 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 363. Baroque Art. (3-0-3); II. A survey of European painting, sculpture, and architecture between about 1600 and about 1750.

ART 365. Arts of the United States I. (3-0-3); I. **Prerequisite:** permission of the department. A survey of the social, political, and cultural movements which affected the course of American artistic development.

ART 383. Photographic Design II. (2-2-3); I, II. **Prerequisite:** ART 283. Advanced work in the use of photographic design concepts and techniques.

ART 390. Graphic Design II. (2-2-3); I, II. Introduction to the use of graphics as a means of visual communication with emphasis on design concepts. Studio assignments will deal with problems related to the community, society, industry, and commerce.

ART 394. Sculpture II. (2-2-3); I, II. **Prerequisite:** ART 294. Studio problems involving the manipulation of various sculpture media.

ART 414. Painting Techniques III. (2-2-3); I, II, III. Emphasis on the further exploration of different mediums and direction towards an individual approach. Painting from a variety of subject with an emphasis on technical investigation and creative interpretation.

ART 514. Painting Techniques IV. (2-2-3); I, II, III. Experiences leading toward individual achievements in styles and techniques.

ART 521. Art Workshop. (3-3-3); I, II, III. Participation in art activities according to individual needs.

ART 551. Printmaking III. (2-2-3); I, II, III. **Prerequisite:** ART 251 and 351. Advanced studio in printmaking. Emphasis is given to the processes of etching and engraving.

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 563. Baroque Art. (3-0-3); I, II. A survey of European painting, sculpture, and architecture between about 1600 and about 1750.

ART 564. Modern and Contemporary Art. (3-0-3); I, II, III. A survey of painting, architecture, and sculpture, dealing with neo-Classicism, Romanticism, Realism, and contemporary art.

ART 565. Arts of the United States II. (3-0-3); I, II. An in-depth study of the social, political, and cultural movements which affected the course of American artistic development.

ART 583. Photographic Design III. (2-2-3); I, II. **Prerequisites:** ART 383 and permission of the department. Individual problems in photographic design.

ART 594. Sculpture III. (2-2-4); I, II. **Prerequisites:** ART 294 and 394. Advanced problems in sculpture involving a combination of materials and their uniqueness as media.

Communications

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

Restrictions Applying to All Programs in Communications

A student may credit toward a program of study in the Department of Communications a limited number of hours from any combination of the following courses, each of which is available in the academic areas of journalism, radio-TV, speech, and theatre:

Communications Cooperative Study 139, 239, 339, 439, 539.

Communications Internships 347, 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, a major, or an associate degree. No more than 6 such hours may be applied toward a minor.

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

Area of Concentration in Communications Core Courses (required of all students taking the area of concentration in communications)

	Sem. Hrs.
JOUR 110—Intro. to Mass Communications	3
JOUR 201—News Writing & Reporting	3
SPCH 100—Voice & Articulation	3
SPCH 370—Business & Professional Speech	3
R-TV 155—Broadcast Performance	3
R-TV 240—Writing for Broadcast	3
*THEA 100—Fundamentals of the Theatre	3
THEA 200—Introduction to Dramatic Literature	3

*THEA 110 may be substituted for non-theatre emphasis students.

Specific Requirements—Emphasis in Journalism (non-teaching)

	Sem. Hrs.
JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
JOUR 301—Advanced News Writing and Reporting	3
JOUR 364—Feature Writing	3
OR	
JOUR 383—Principles of Advertising	3
JOUR—Electives	8
COMM—Electives	4
	24

Specific Requirements—Emphasis in Radio-Television (non-teaching)

R-TV 250—Audio Production Direction	4
R-TV 340—Video Production & Direction I	3
R-TV 344—Broadcast News & Public Affairs	3
OR	
R-TV 450—Broadcast Management	3
R-TV electives	11
COMM—Electives	3
	24

Specific Requirements—Emphasis in Speech (non-teaching)

SPCH 110—Basic Speech	3
SPCH 200—Oral Interpretation	3
SPCH 382—Argumentation and Debate	3
SPCH 383—Group Discussion	3
SPCH 385—Persuasion	3
SPCH electives	6
COMM electives	6
	27

Specific Requirements—Emphasis in Theatre (non-teaching)

THEA 210—Technical Production	3
THEA 284—Acting Techniques	3
THEA 320—Scenographic and Drawing Tech.	3
THEA 322—Scene Design	3
THEA 354—Theatre History	3
THEA 380—Play Directing	3
COMM electives	4
	25

****Required for teaching areas only**

NOTE: Total in student's program will be 24 hours of core courses plus total hours in the specialty.

Description of Courses

NOTE: (2-1-2) following course title means 2 hours class, 1 hour laboratory, 2 hours credit. Roman numerals I, II, and III following the credit allowance indicate the semester in which the course is normally scheduled: I—fall semester; II—spring semester; III—summer term.

GENERAL

COMM 139-539. Cooperative Study. I, II, III. The Department of Communications offers a series of cooperative study courses—COMM 139, 239, 339, 439 and 539—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 347. Internship. (1 to 3 hrs.); I, II, III. Competency-based practical experience aimed at increasing the proficiency of the student 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 proficiency of the student in the 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.

Journalism

Requirements for a Major, General and Teaching Emphasis

	Sem. Hrs.
JOUR 110—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
JOUR 465—Editorial Writing	3
JOUR 504*—School Publications	3
COMM 347 or 447—Internship**	
OR	
COMM 139, 239, 339, 439, or 539—Cooperative Study**	1
JOUR electives	11

*504 requirement only for teacher certification; another 3-hour journalism course may be taken by the student not seeking certification.

**Internship or Cooperative Study hours taken for teacher certification must be earned in a journalistic experience.

For a Major, Print-Media Emphasis

	Sem. Hrs.
JOUR 110—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
JOUR 305—Newspaper Typography and Design	3
JOUR 465—Editorial Writing	3
COMM 347 or 447—Internship	
OR	
COMM 139, 239, 339, 439, or 539—Cooperative Study	1
JOUR electives	11
	30

For a Major, Advertising-Public Relations Emphasis

	Sem. Hrs.
JOUR 110—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
JOUR 382—Principles of Public Relations	3
JOUR 383—Principles of Advertising	3
JOUR 482—Public Relations Practices	3
JOUR 483—Advertising Design	3
Electives to be chosen from a list below	6
	30

JOUR 464—Magazine Writing and Editing

JOUR 583—Advertising Copy Preparation

R-TV 240—Writing for Broadcast

SPCH 370—Business and Professional Speech

COMM 347 or 447—Internship

OR

COMM 139, 239, 339, 439, or 539—Cooperative Study

SOC 376—Industrial Sociology

OADM 221—Business Communications

DATA 201—Intro. to Computers

MKT 304—Marketing

For a Major, Photojournalism Emphasis

	Sem. Hrs.
JOUR 110—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
JOUR 305—Newspaper Typography and Design	3
JOUR 386—Photo Essay and Editing	2
JOUR 387—Advanced Photojournalism	3
ART 283—Photographic Design I	3
COMM 347 or 447—Internship	
OR	
COMM 139, 239, 339, 439, or 539—Cooperative Study	1
JOUR electives	6
	30

For a Major, Community Newspaper Emphasis

	Sem. Hrs.
JOUR 201—News Writing and Reporting	3
JOUR 204—Copyreading and Editing	3
JOUR 285—Introduction to Photojournalism	3
JOUR 301—Advanced News Writing	3
JOUR 304—Newspaper Production	3
JOUR 364—Feature Writing	3

JOUR 483—Advertising Design	3
JOUR 506—Community Newspapering	3
COMM 347 or COMM 447, Internship. Minimum 1 hr. in each of three of these areas: reporting, photography, advertising, newspaper production	3
JOUR 368—Sports Writing	3
OR	
JOUR 387—Advanced Photojournalism	3
JOUR 465—Editorial Writing	3
OR	
JOUR 505—Law and Ethics of the Press	3
HIS 142—Intro. to Recent American History	3
OR	
MNGT 310—Small Business Organization	3
OR	
GOVT 242—State and Local Government	3
	36

For a Minor, General Teaching and Print-Media Emphasis

JOUR 110—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
COMM 347	3
OR	
COMM 447—Internship	3
OR	
COMM 139, 239, 339, 439, or 539—Cooperative Study	1
JOUR electives in 300 series	8*
	21

*Students electing the teaching minor should take JOUR 504 as part of these hours.

For a Minor, Advertising-Public Relations Emphasis

JOUR 110—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 285—Intro. to Photojournalism	3
JOUR 382—Principles of Public Relations	3
JOUR 383—Principles of Advertising	3
JOUR 482—Public Relations Practices	3
JOUR 483—Advertising Design	3
COMM 347 or 447—Internship	3
OR	
COMM 139, 239, 339, 439, or 539—Cooperative Study	1
	22

For a Minor, Photojournalism Emphasis

JOUR 110—Intro. to Mass Communication	3
JOUR 201—News Writing and Reporting	3
JOUR 285—Intro. to Photojournalism	3
JOUR 386—Photo Essay and Editing	3
JOUR 387—Advanced Photojournalism	3
COMM 347 or 447—Internship	3
OR	
COMM 139, 239, 339, 439, or 539—Cooperative Study	1
JOUR—electives	5
	21

For a Minor, Community Newspaper Emphasis

	Sem. Hrs.
JOUR 201—News Writing and Reporting	3
JOUR 204—Copyreading and Editing	3
JOUR 285—Introduction to Photojournalism	3
JOUR 301—Advanced News Writing	3
JOUR 304—Newspaper Production	3
JOUR 483—Advertising Design	3
JOUR 506—Community Newspapering	3
COMM 347 or 447—Internships—minimum 1 hr. each in three of these areas: reporting, photography, advertising newspaper production	3
	24

Requirements for Associate of Applied Arts, Journalism

	Sem. Hrs.
JOUR 110—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 285—Intro. to Photojournalism	3
JOUR 204—Copyreading and Editing	3
JOUR 344—Broadcast News and Public Affairs	3

JOUR 383—Principles of Advertising	3
COMM 347 or 447—Internship	3
OR	
COMM 139, 239, 339, 439, or 539—Cooperative Study	1
SPCH 370—Business and Professional Speech	3
Approved communications electives	12
ENG 101—Composition I	3
ENG 102—Composition II	3
OADM 211—Beginning Typing (or show proficiency)	3
FNA 160—Appreciation of Fine Arts	3
GEO 211—Economic Geography	3
General education requirements	9
General electives	7
	65

Suggested Program

The following program has been devised to help students in selecting courses during their four-year program of study. These suggested schedules need not be followed specifically, but substitutions should be made only after careful study of degree requirements has been made. Students should ask their academic advisors prior to their substituting courses in the program suggested above.

Journalism (with certification)

FRESHMAN YEAR

	First Semester	Sem. Hrs.
ENG 101—Composition I	3	3
JOUR 110—Intro. to Mass Communications	3	3
OADM—Typing elective	3	3
GOVT elective	3	3
Elective	3	3
PHED—activity	1	16

	Second Semester	Sem. Hrs.
ENG 102—Composition II	3	3
JOUR 201—News Writing and Reporting	3	3
FNA 160—Appreciation of Fine Arts	3	3
SOC SCI elective	3	3
PHYS SCI elective	3	3
PHED—activity	1	16

SOPHOMORE YEAR

	First Semester	Sem. Hrs.
JOUR 204—Copyreading and Editing	3	3
JOUR 285—Intro. to Photojournalism	3	3
ENG—literature elective	3	3
HIST elective	3	3
JOUR 382—Principles of Public Relations	3	3
HLTH 150—Personal Health	2	17

	Second Semester	Sem. Hrs.
JOUR 383—Principles of Advertising	3	3
SPCH 370—Business and Professional Speech	3	3
BIOL elective	3	3
EDSE 209—Foundations of Secondary Education	2	2
COMM—Internship	1	1
PHIL elective	3	3
Elective	1	16

JUNIOR YEAR

	First Semester	Sem. Hrs.
JOUR 465—Editorial Writing	3	3
JOUR electives	8	8
Science or math elective	3	3
SOC elective	3	3
		17

	Second Semester	Sem. Hrs.
JOUR 505—Law of Press	3	3
SOC SCI elective	3	3
EDSE 310—Prin. of Adolescent Development	3	3
SOC SCI elective	3	3
Elective	3	15

SENIOR YEAR

	First Semester	Sem. Hrs.
JOUR 504—School Publications	3	3
Electives	12	12
		15

	Second Semester	Sem. Hrs.
Professional Semester	17	17

Journalism (without certificate)**FRESHMAN YEAR****First Semester**

	Sem. Hrs.
ENG 101—English Composition I	3
JOUR 110—Intro. to Mass Communications	3
OADM—Typing elective	3
GOVT elective	3
MATH elective	3
PHED—activity	1
	16

Second Semester

ENG 102—Composition II	3
JOUR 201—News Writing and Reporting	3
FNA 160—Appreciation of Fine Arts	3
PHY SCI elective	3
SOC elective	3
PHED—activity	1
	16

SOPHOMORE YEAR**First Semester**

JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
ENG—literature elective	3
HIST elective	3
HLTH 150—Personal Health	2
Elective	3
	17

Second Semester

SPCH 370—Business & Professional Speech	3
JOUR 383—Principles of Advertising	3
BIO SCI elective	3
PHIL elective	3
Electives	4
	16

JUNIOR YEAR**First Semester**

JOUR 382—Principles of Public Relations	3
Science or math elective	3
SOC SCI elective	3
COMM—Internship	1
Electives	6
	16

Second Semester

JOUR elective	2
Science or math elective	3
Electives	11
	16

SENIOR YEAR**First Semester**

JOUR elective	3
Electives	13
	16

Second Semester

JOUR elective	3
Electives	13
	16

JOURNALISM

JOUR 110. Introduction to Mass Communications. (3-0-3); I, II, III. Survey of history, functions, career openings, and interrelationship of newspapers, radio, television, other media, and attendant agencies.

JOUR 155. Broadcast Performance. (3-4-3); I, II. (See R-TV 155.)

JOUR 192. Technical Composition. (3-0-3); I, II, III. (See ENG 192.)

JOUR 201. News Writing and Reporting. (3-0-3); I, II, III. Gathering news from sources on and off campus; organizing and writing basic types of news items, some for campus newspaper.

JOUR 204. Copyreading and Editing. (3-0-3); I, III. Copy correcting, both on typed news copy and on video display terminals (VDTs); proofreading, headline writing, news selection, page layout.

JOUR 240. Writing for Broadcast. (3-0-3); I, II. (See R-TV 240.)

JOUR 285. Introduction to Photojournalism. (2-2-3); I, II, III. Lecture and laboratory, introduction to camera use, darkroom procedure, photo layout and practices in reporting news pictorially. For journalism majors and minors only. Camera rental fee for students without suitable camera.

JOUR 301. Advanced News Writing and Reporting. (3-0-3); II, III. Prerequisite: JOUR 201. Advanced reporting including covering courts, police, governmental agencies. Interviewing skills, legal aspects of the press, and theories of social responsibility.

JOUR 304. Newspaper Production. (3-0-3); II, III. Development of modern printing methods from hand-set type to computerized photocomposition, with

experience in electronic typesetting of offset paste-ups.

JOUR 305. Newspaper Typography and Design. (3-0-3); I. Prerequisite: JOUR 204. A study of the elements of newspaper design, with emphasis on typography and photo display.

JOUR 310. History of Journalism. (3-0-3); I. Origins and development of American journalism as a profession, mainly through newspapers and their roles in history.

JOUR 344. Broadcast News and Public Affairs. (3-0-3); I. Prerequisite: 9 hours of undergraduate radio-TV or consent of faculty. (See R-TV 344.)

JOUR 357. Sportscasting. (2-2-3); I. The basic philosophy and ethical consideration in developing sports reporting style in oral or written presentation. Application of principles in play-by-play description of seasonal sports. (Cross referenced as R-TV 357.)

JOUR 358. Sports Writing. (3-0-3); I, II. Philosophy and techniques in writing sports and sports analysis or commentary for print media. (Cross referenced as R-TV 358.)

JOUR 364. Feature Writing. (3-0-3); I, II. The researching, organizing, and composing of non-fiction articles, including feature items.

JOUR 382. Principles of Public Relations. (3-0-3); I. A study of purposes, methods, and responsibilities in the profession of public relations.

JOUR 383. Principles of Advertising. (3-0-3); II. A study of advertising principles and practices.

JOUR 386. Photo Essay and Editing. (2-0-2); I. An emphasis upon photographic composition and selection of pictures for various kinds of publications.

JOUR 387. Advanced Photojournalism. (3-0-3); II. Prerequisite: JOUR 285. In-depth study of photojournalism equipment, techniques, and style, including color photography. For journalism majors and minors only. Camera rental fee for students without suitable camera.

JOUR 399. Public Relations Workshop. (3-0-3); III. A hands-on workshop in preparing print-media public relations materials.

JOUR 464. Magazine Writing and Editing. (3-0-3); II. A study of practices in writing for and editing magazines.

JOUR 465. Editorial Writing. (3-0-3); I. A study of the purposes and methods of editorial writing, including ethics and values.

JOUR 482. Public Relations Practices. (3-0-3); II. Prerequisite: JOUR 382. A study of specific practices in carrying out campaigns in public relations.

JOUR 483. Advertising Design. (3-0-3); I. A study and an application of methods of designing and producing advertisements, primarily for print media, but including television storyboards.

JOUR 501. Interpretative Reporting. (3-0-3); I. Prerequisite: six hours (200 or above) advanced credit in journalism, including one basic news-writing course. Writing in-depth analysis of current events by use of investigative research.

JOUR 504. School Publications. (3-0-3); III. Advisement of students in the production of school newspapers, yearbooks, and magazines; includes a complete review of journalism principles.

JOUR 505. Law and Ethics of the Press. (3-0-3); II. Prerequisite: six hours of advanced journalism credit. An examination of law as it affects publications.

JOUR 506. Community Newspapering. (3-0-3). Community-newspaper editors and publishers are guest speakers to discuss reporting, editing, advertising, circulation, and management on community newspapers.

JOUR 558. Public Broadcasting. (3-0-3); II. Prerequisite: junior standing and consent of the faculty. (See Radio-TV 558.)

JOUR 560. Reviews and Criticism. (3-0-3); II. Evaluating and writing critical reviews of drama, literature, art, music, and restaurants for the mass media.

JOUR 565. Public Opinion and News Media. (3-0-3); I. A study of the cultural, social, and psychological nature of public opinion and its influence on press, television, radio, and film; the nature of propaganda in advertising.

JOUR 583. Advertising Copy Preparation. (3-0-3); II. A study of writing advertising headlines and copy for print and broadcast media.

JOUR 584. Psychology of Advertising. (3-0-3); I. Prerequisite: JOUR 383. A study of psychological strategy used in art, words, and graphics as persuasive advertising devices.

JOUR 591. Technical Writing I. (3-0-3); I, II, III. (See English 591.)

JOUR 592. Technical Writing II. (3-0-3); I, II, III. (See English 592.)

JOUR 599. Yearbook Workshop. (1-0-1); III. A workshop on planning, staffing, financing, and producing a high school yearbook.

Radio-Television

Because typing is very important in broadcasting work, and because it is required in some courses, students in radio-television are encouraged to develop typing skills before entering the program. Some may want to take a typing course during their first semester.

Requirements for a Major (non-teaching)

	Sem. Hrs.
R-TV 150—Intro. to Broadcasting	3
R-TV 151—Intro. to Broadcast Techniques	2

R-TV 240—Writing for Broadcast	3
R-TV 250—Audio Production and Direction	4
R-TV 338—FCC License	1
R-TV 340—Video Production and Direction I	3
R-TV 344—Broadcast News and Public Affairs	3
OR	
R-TV 450—Broadcast Management	3
R-TV 459—Broadcast Law and Regulations	3
SPCH 100—Voice and Articulation	3
Electives	11
	36

For a Minor (non-teaching)

R-TV 150—Intro. to Broadcasting	3
R-TV 151—Intro. to Broadcast Techniques	2
R-TV 240—Writing for Broadcast	3
SPCH 100—Voice and Articulation	3
Electives	10
	21

Associate of Applied Arts Radio and Television Broadcasting

Suggested Program

FRESHMAN YEAR

First Semester

SPCH 100—Voice and Articulation	Sem. Hrs. 3
R-TV 150—Intro. to Broadcasting	3
R-TV 151—Broadcast Techniques	2
R-TV 240—Writing for Broadcast	3
R-TV 338—FCC License	1
ENG 101—Composition I	3
	15

Second Semester

R-TV 250—Audio Production and Direction	4
R-TV 283—Photographic Design	3
JOUR 201—News Writing and Reporting	3
SPCH 110—Basic Speech	3
ENG 102—Composition II	3
OR	
ENG 192—Technical Composition	3
	16

SOPHOMORE YEAR

First Semester

R-TV 340—Video Production and Direction I	3
R-TV 344—Broadcast News and Public Affairs	3
JOUR 382—Principles of Public Relations	2
SOC SCI electives	3
ENG—Literature 202, 211, 212	3
Electives	3
	17

Second Semester

R-TV—Internship	3
R-TV 450—Broadcast Management	3
R-TV 440—Video Production and Direction II	4
OR	
R-TV 451*—Professional Audio Practices	3
JOUR 383—Principles of Advertising	3
Electives	3
	16
	64

*Since R-TV 440 is a 4-hour course, those who elect to take 451 must take an additional elective hour in R-TV.

Associate of Applied Arts Broadcast Operations

Suggested Program

FRESHMAN YEAR

First Semester

R-TV 150—Intro. to Broadcasting	Sem. Hrs. 3
R-TV 151—Intro. to Broadcast Techniques	2
IET 240—Basic Electricity	3
MATH 152—College Algebra	3
SPCH 100—Voice and Articulation	3
ENG 101—Composition I	3
	17

Second Semester

R-TV 250—Audio Production and Direction	4
IET 241—Basic Electronics	3
IET 243—Electric Power	3

MATH 141—Plane Trigonometry	3
ENG 102—Composition II	3
	16

SOPHOMORE YEAR

First Semester

R-TV 240—Writing for Broadcast	3
R-TV 320—Broadcast Advertising/Sales	3
R-TV 459—Broadcast Law and Regulation	3
IET 341—Transistors and Semiconductors	3
IET 342—Communications Electronics	3
IET 338—FCC License	1
	16

Second Semester

R-TV 344—Broadcast News and Public Affairs	3
R-TV 450—Broadcast Management	3
R-TV 340—Video Production and Direction	3
IET 345—Television Electronics	4
IET 346—Transmitter Electronics	4
	17
	66

Radio-Television Broadcasting (Bachelor's Degree)

Suggested Program

FRESHMAN YEAR

First Semester

R-TV 150—Intro. to Broadcasting	Sem. Hrs. 3
R-TV 151—Intro. to Broadcast Techniques	2
ENG 101—Composition I	
OR	
ENG 103—Composition III	3
PHY SCI—100 or higher	3
HLTH 150—Personal Health	2
HUM elective	3
	16

Second Semester

R-TV 240—Writing for Broadcast	3
SPCH 100—Voice and Articulation	3
ENG 102—Composition II	3
OR	
ENG 192—Technical Composition	3
BIO SCI—105 or higher	3
PHED—activity	1
Elective or minor	3
	16

SOPHOMORE YEAR

First Semester

R-TV 250—Audio Production and Direction	4
ENG—Literature 202, 211, or 212	3
MATH 123 or higher	3
SOC SCI elective	3
Elective or minor	3
	16

Second Semester

R-TV 340—Video Production & Direction I	3
Math or science elective	3
SOC SCI elective	3
R-TV 338—F.C.C. License	1
SPCH 110—Basic Speech	3
OR	
SPCH 370—Business and Professional Speech	3
Elective or minor	3
	16

JUNIOR YEAR

First Semester

R-TV 320—Broadcast Advertising/Sales	3
R-TV 344—Broadcast News and Public Affairs	3
SOC SCI elective	3
Electives or minor	7
	16

Second Semester

R-TV 440—Video Production and Direction II	4
R-TV 450—Broadcast Management	3
COMM 476—Special Problems	3
Electives or minor	6
	16

SENIOR YEAR

First Semester

R-TV 459—Broadcast Law and Regulation	3
R-TV 550—Problems in Contemporary Broadcasting	3
R-TV 558—Public Broadcasting	3
Electives or minor	7
	16

Second Semester

R-TV 451—Professional Audio Practices	3
R-TV 564—Broadcast Criticism	3
R-TV 582—American Culture and Communications Technology	3
SOC SCI elective	3
Electives or minor	4
	16

Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall, II—spring, III—summer.

Except where indicated otherwise, students must take courses in proper sequence, i.e., 100-level courses during the freshman year, 200-level courses during the sophomore year, etc.

R-TV 110. Introduction to Mass Communications. (3-0-3); I. (See Journalism 101.)

R-TV 150. Introduction to Broadcasting. (3-0-3); I, II. Covers basic conditions of the broadcasting industry from regulation to advertising. Students will also learn the basics of everyday station operations.

R-TV 151. Introduction to Broadcast Techniques. (2-0-2); I, II. Basic familiarization with radio, television, and film equipment utilized in studio and remote broadcast productions.

R-TV 155. Broadcast Performance. (3-0-3); I, II. The fundamentals of broadcast announcing, with special emphasis on vocal communication skills of enunciation, pronunciation, inflection, and pacing.

R-TV 240. Writing for Broadcast. (3-0-3); I, II. The techniques used in writing commercials and programs for radio and television. Special emphasis is placed on storyboards and advertising presentation.

R-TV 250. Audio Production and Direction. (3-2-4); I, II. Discussion of all areas of audio production, including radio, television, audio, and film audio with practical work in radio production.

R-TV 283. Photographic Design. (2-2-3); I, II. Experimental and standard photographic processes and techniques are approached with an aesthetic view of the medium.

R-TV 320. Broadcast Advertising/Sales. (3-0-3); I. Provides a foundation in both practical and theoretical aspects of broadcast advertising. Principles of sales will be examined from the perspective of the advertising copywriter.

R-TV 338. FCC License. (1-0-1); I, II. (See IET 338.)

R-TV 340. Video Production and Direction I. (2-2-3); I, II. Prerequisite: R-TV 240 or permission of instructor. Basic television production techniques and introduction of directing skills in a laboratory situation.

R-TV 344. Broadcast News and Public Affairs. (3-0-3); I, II. Prerequisite: 9 hours of undergraduate radio-TV or consent of the instructor. Theory and practice of news and public affairs writing and reporting as it applies to the broadcast media.

R-TV 357. Sportscasting. (2-2-3); I. Philosophy and techniques utilized in developing style of presentation in sports broadcasts. Theory practically applied in play-by-play description, interviewing, and presentation of copy. (Cross referenced as JOUR 357.)

R-TV 358. Sports Writing. (3-0-3); II. Philosophy and techniques in writing sports news and sports analysis or commentary for mass media. Same as JOUR 358.

R-TV 383. Photographic Design II. (2-2-3); I, II. Prerequisite: R-TV 283. Advanced work in the use of photographic concepts and techniques.

R-TV 440. Video Production and Direction II. (3-3-4); I, II. Prerequisite: R-TV 340. An extension of R-TV 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 production.

R-TV 450. Broadcast Management. (3-0-3); II. Prerequisite: 18 hours of undergraduate radio-television or consent of instructor. An examination of administrative decision-making in radio and television with attention to programming, research, audience, sales, regulatory, and personnel concerns. Special attention is given to the purpose and basic idea of programs in relation to audience composition.

R-TV 451. Professional Audio Practices. (2-2-3); II. Prerequisite: R-TV 250—Audio Production and Direction I or consent of instructor. Experience and advanced study in areas such as music recording and sound, its relation to television, film, multi-media, and radio production.

R-TV 459. Broadcast Law and Regulation. (3-0-3); I. Basic regulatory law and policy examined in terms of application to daily station operation and from historical and socio-economic perspectives.

R-TV 550. Problems in Contemporary Broadcasting. (3-0-3); I. Prerequisite: junior standing and consent of instructor. Treatment of current problems within the broadcasting industry.

R-TV 558. Public Broadcasting. (3-0-3); I. Prerequisite: junior standing and consent of the instructor. A study of the development of public broadcasting from both theoretical and operational standpoints.

R-TV 560. History of Broadcasting. (3-0-3); I. Prerequisite: junior standing

and consent of instructor. A historical study of radio-television as a communication service and its development in America.

R-TV 564. Broadcast Criticism. (3-0-3); II, IV. Prerequisite: junior standing and consent of instructor. An examination of broadcasting in sociological, aesthetic, historical, psychological, and humanistic terms.

R-TV 580. Policy and the Communications Industry. (3-0-3); II. Prerequisite: junior standing and consent of instructor. Examines both broadcast media and common carriers, the sources of policy and influence which guide them, and public interest issues affected by communications media policy.

R-TV 582. American Culture and Communications Technology. (3-0-3); II. Prerequisite: junior standing and consent of instructor. An 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.

R-TV 583. Photographic Design III. (2-2-3); I, II. Prerequisite: R-TV 383. Individual problems in photographic design.

Speech and Theatre

Requirements for a Major in Speech and Theatre (teaching)

	Sem. Hrs.
SPCH 100—Voice and Articulation	3
SPCH 110—Basic Speech	3
SPCH 382—Argumentation and Debate	3
OR	
SPCH 383—Group Discussion	3
SPCH 595—Administering the Communications Program	3
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 380—Play Directing	3
Electives in speech and theatre, to be approved by advisor	9
	36

(SPCH 597 is strongly recommended for all majors entering the field of education.)

For a Major in Speech and Theatre (non-teaching)

	Sem. Hrs.
SPCH 110—Basic Speech	3
SPCH 382—Argumentation and Debate	3
OR	
SPCH 383—Group Discussion	3
THEA 100—Fundamentals of the Theatre	3
THEA 200—Introduction to Dramatic Literature	3
Electives in speech and theatre, to be approved by advisor	18
	30

For a Major in Speech (teaching)

	Sem. Hrs.
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	3
OR	
SPCH 383—Group Discussion	3
SPCH 385—Persuasion	3
SPCH 595—Administering the Communications Program	3
To be selected with approval of the department	15
	36

(SPCH 597 and THEA 300 are strongly recommended for all majors entering the field of education.)

For a Major in Speech (non-teaching)

	Sem. Hrs.
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	3
OR	
SPCH 383—Group Discussion	3
SPCH 385—Persuasion	3
To be selected with approval of the department	18
	36

(Nine hours of the elective credit can be selected from related areas within the Department of Communications. For those interested in college level teaching, SPCH 595, SPCH 597, and THEA 300 are strongly recommended.)

For a Minor in Speech

SPCH 100—Voice and Articulation	3
SPCH 110—Basic Speech	3
SPCH 200—Oral Interpretation	3
SPCH 382—Argumentation and Debate	3
OR	
SPCH 383—Group Discussion	3
*SPCH 595—Administering the Communications Program	3
Electives in speech, approved by the advisor	6-9
	21

*Required only for the minors entering the field of education. (SPCH 597 is strongly recommended for all minors entering the field of education.)

For a Minor in Organization Communication

	Sem. Hrs.
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 592—Technical Writing II	
Electives chosen from the following list	9
	21
SPCH 220—Listening	3
SPCH 315—Verbal Survival	3
SPCH 383—Group Discussion	3
SPCH 385—Persuasion	3
SPCH 510—Advanced Public Speaking	3
SPCH 570—Parliamentary Procedure	3
SPCH 571—Interviewing	3
BSED 221—Business Communications	3
OADM 345—Dictating Techniques	3
JOUR 364—Feature Writing	3
ENG—technical writing courses not taken to meet the above requirements	3-6

For a Major in Theatre (non-teaching)

	Sem. Hrs.
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—Scenic Design	3
THEA 354—Theatre History	3
THEA 380—Play Directing	3
SPCH 100—Voice and Articulation I	3
Theatre electives	6
	36

For a Minor in Theatre (teaching and non-teaching)

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

Suggested Programs

The following programs have been devised to help students in selecting their courses and making their schedules during the freshman and sophomore years. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements.

Bachelor of Arts with a Major in Speech with a High School Teaching Degree**FRESHMAN YEAR****First Semester****Sem. Hrs.**

SPCH 100—Voice and Articulation	3
*ENG 101 or 103	3
Biology	3
Health	3
Social & behavioral science	3
	15

Second Semester

SPCH 110—Basic Speech	3
*ENG 102 or 192	3
Physical science	3
History or economics	3
Elective or minor	3
	15

SOPHOMORE YEAR**First Semester**

SPCH 200—Oral Interpretation	
OR	
SPCH 210—Listening	3
SPCH 220—Introduction to Communication Theory	3
ENG—literature	3
GOVT or GEO	3
Elective or minor	2
MATH	3
	17

Second Semester

SPCH 200—Oral Interpretation	
OR	
SPCH 210—Listening	3
Sociology or psychology	3
Natural & mathematical elective	3
EDSE 209—Foundations of Secondary Education	2
Elective or minor	4
Communication or humanities option	3
	18

JUNIOR YEAR**First Semester**

SPCH 382—Argumentation and Debate	3
OR	
SPCH 383—Group Discussion	
EDSE 310—Principles of Adolescent Development	3
Elective or minor	8
	14

Second Semester

SPCH 385—Persuasion	3
SPCH 595—Administering the Communication Arts Program	3
Advanced speech elective	3
Elective or minor	7
	16

SENIOR YEAR**First Semester**

SPCH 597—Administering and Supervising the Co-Curricular Communication Arts Program	3
SPCH—Advanced speech elective	6
Elective or minor	7
	16

Second Semester

Professional Semester	17
*Advanced placed students scheduled by Department of Languages and Literature.	

Bachelor of Arts with a Major in Speech with Non-Teaching Degree**FRESHMAN YEAR****First Semester**

	Sem. Hrs.
SPCH 100—Voice and Articulation	3
*ENG 101 or 103	3
Biology	3
Health	3
Social or behavioral science elective	3
	15

Second Semester

SPCH 110—Basic Speech	3
*ENG 102 or 192	3
Physical Science	3
History or Economics	3
Elective or minor	3
	15

SOPHOMORE YEAR**First Semester**

SPCH 210—Listening	3
SPCH 220—Introduction to Communication Theory	3
ENG—Literature	3
Government or geography	3
Elective or minor	2
Math	3
	17

Second Semester

SPCH 200—Oral Interpretation	3
Sociology or psychology	3
Natural or mathematical elective	3
Elective or minor	7
	16

JUNIOR YEAR

First Semester

SPCH 382—Argumentation and Debate	
OR	
SPCH 383—Group Discussion	3
Elective or minor	5
Communications or humanities option	3
SPCH—advanced elective	3
	14

Second Semester

SPCH 385—Persuasion	3
SPCH—advanced speech elective	3
Elective or minor	9
	15

SENIOR YEAR

First Semester

SPCH—advanced speech elective	6
Elective or minor	12
	18

Second Semester

SPCH—advanced speech elective	6
Elective or minor	12
	18

**Advanced placed students scheduled by Department of Languages and Literature.*

Speech/Theatre (teaching)

FRESHMAN YEAR

First Semester

	Sem. Hrs.
*ENG 101 or 103	3
Biology	3
Health	3
Social or behavioral science elective	3
SPCH 100—Voice & Articulation	3
THEA 100—Fundamentals of the Theatre	3
	18

Second Semester

*ENG 102 or 192	3
Physical science	3
History or economics	3
SPCH 100—Basic Speech	3
THEA 210—Technical Production	3
	15

SOPHOMORE YEAR

First Semester

ENG—literature	3
THEA 200—Introduction to Dramatic Literature	3
Government or geography	3
Math	3
THEA 284—Acting Techniques	3
	15

Second Semester

EDSE 209—Foundations of Secondary Education	2
SPCH 200—Oral Interpretation	3
Sociology or psychology	3
Natural or mathematical elective	3
Elective	6
	17

JUNIOR YEAR

First Semester

Communication or humanities option	3
SPCH 382—Argumentation and Debate	
OR	
SPCH 383—Group Discussion	3
Elective or minor	4
Social or behavioral elective	3
	16

Second Semester

EDSE 310—Principles of Adolescent Development	3
THEA 380—Play Directing	3
SPCH 597—Administering and Supervising the Co-Curricular	
Communication Arts Program	3
Elective or minor	6
	15

SENIOR YEAR

First Semester

Electives	12
SPCH 595—Administering the Communications Program	3
	15

Second Semester

Professional Semester	17
<i>*Advanced placed students scheduled by Department of Languages and Literature.</i>	

Speech/Theatre (non-teaching)

FRESHMAN YEAR

First Semester

	Sem. Hrs.
*ENG 101 or 103	3
Physical science	3
Health	3
Elective	3
SPCH 110—Basic Speech	3
THEA 100—Fundamentals of the Theatre	3
	18

Second Semester

ENG 102 or 192	3
Biology	3
Elective	3
THEA 200—Introduction to Dramatic Literature	3
History or economics	3
	15

SOPHOMORE YEAR

First Semester

ENG—literature	3
Math	3
Government or geography	3
Elective or minor	6
	15

Second Semester

Sociology or psychology elective	3
Natural or mathematical elective	3
SPCH 200—Oral Interpretation	3
Elective or minor	7
	16

JUNIOR YEAR

First Semester

SPCH 382—Argumentation and Debate	
OR	
SPCH 383—Group Discussion	3
SPCH or THEA advanced electives	6
Communication or humanities option	3
Elective	3
	15

Second Semester

SPCH or THEA advanced electives	6
Elective or minor	6
Social or behavioral elective	3
	15

SENIOR YEAR

First Semester

SPCH or THEA advanced electives	3
Elective or minor	15
	18

Second Semester

Elective or minor	16
<i>*Advanced placed students scheduled by Department of Languages and Literature.</i>	

Bachelor of Arts with a Major in Theatre

FRESHMAN YEAR

First Semester

	Sem. Hrs.
THEA 100—Fundamentals of the Theatre	3
SPCH 100—Voice and Articulation	3
*ENG 101 or 103	3
Biology	3
Health	3
	15

Second Semester

THEA 200—Introduction to Dramatic Literature	3
THEA 210—Technical Production	3
ENG 102 or 192	3

Physical science	3
History or economics	3
	15

SOPHOMORE YEAR

First Semester

THEA 320—Sceneographic and Drawing Techniques	3
THEA 284—Acting Techniques	3
ENG—literature	3
Government or geography	3
SPCH 110 or 370	3
Math	3
	18

Second Semester

THEA 315—Stage Make-up	3
THEA 322—Scene Design	3
Sociology or psychology	3
Natural or mathematical elective	3
Electives	6
	18

JUNIOR YEAR

First Semester

THEA 354—Theatre History	3
Minor	9
Communication or humanities option	3
	15

Second Semester

THEA 380—Play Directing	3
THEA—Advanced elective	3
Elective or minor	8
Social or behavioral elective	3
	17

SENIOR YEAR

First Semester

THEA—advanced elective	3
Elective or minor	12
	15

Second Semester

Electives or minor	15
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*Advanced placed students scheduled by Department of Languages and Literature.

Description of Courses

NOTE: (3-0-3) following course title indicates 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term the course is normally offered: I—fall; II—spring and III—summer.

SPEECH

SPCH 100. Voice and Articulation I. (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.); I, II, III. 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.); I, II, III. 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); II. Study of communicating the meanings of prose, poetry, and dramatic literature through the use of body, voice, thought, and emotion.

SPCH 210. Listening. (3-0-3); I, II, III. The study and practice of skills in both retentive and empathic listening.

SPCH 220. Introduction to Communication Theory. (3-0-3); I. A survey of communication theory with emphasis on the interpersonal aspects.

SPCH 300. Oral Communications. (3-0-3); upon demand. 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 II. (3-0-3); II. Prerequisite: SPCH 100. To develop the ability to use major dialects essential to interpretation of dramatic literature and radio scripts.

SPCH 305. Advanced Oral Interpretation. (3-0-3); upon demand. Prerequisite: SPCH 200 or permission of the instructor. A combination theory and performance course to further develop techniques in communicating the content and emotion of the printed page by use of voice and body.

SPCH 310. Interpersonal Communication. (3-0-3); II. A study of the conceptual elements and dynamics of informal person to person communication in

both theory and practice. Students may be assessed a fee for materials distributed in class.

SPCH 315. Verbal Survival. (3-0-3); upon demand. Students will be exposed to the process of communication "action-reaction." Specific skills will enable students to recognize and defend themselves from forms of daily manipulative communication.

SPCH 318. Nonverbal Communication. (3-0-3); upon demand. Study of the components of nonverbal communication.

SPCH 320. Introduction to Corrective Speech. (3-0-3); I, II. Introductory course in speech correction for the classroom teacher.

SPCH 342. Instructional Communication. (3-0-3); I, II. Study and practice of the oral communication skills required of an effective secondary school teacher.

SPCH 370. Business and Professional Speech. (3-0-3); I, II, III. Study and practice in techniques of committee work, interview, and other speech forms required in business and the professions.

SPCH 380. Debate Practicum. (0-2-1); I, II. Prerequisite: consent of the instructor. Activity and research for students involved in intercollegiate debate. Course may be repeated for a total of 6 hours credit.

SPCH 382. Argumentation and Debate. (3-0-3); I. Instruction in making rational decisions through the debate process entailing analysis, evidence, briefing, and refutation.

SPCH 383. Group Discussion. (3-0-3); I. Analysis of the roles of participants and leaders in problem solving with experience in conducting formal and informal groups.

SPCH 385. Persuasion. (3-0-3); I. Study of the 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. Provides independent guided study in specific areas of speech through participation in the Intercollegiate Individual Events program. The course may be repeated up to a maximum of 6 hours credit.

SPCH 470. Interviewing for Employment. (1-0-1); upon demand. Theory and practice of preparing for and responding to employment interviewing.

SPCH 471. Speech-Dramatic Arts Seminar. (1-0-1); upon demand. Study of resources and research techniques in speech and dramatic arts.

SPCH 510. Advanced Public Speaking. (3-0-3); I. Preparation and delivery of longer and more complex speeches.

SPCH 521. Classical Rhetorical Theory. (3-0-3); I. 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); II. Prerequisite: SPCH 521 or permission of the instructor. Study of the development of rhetorical and communication theory from the Renaissance to the present.

SPCH 523. Rhetorical Criticism. (3-0-3); II. The application of classical and modern rhetorical theory in order to analyze and critique selected speeches.

SPCH 527. American Public Address. (3-0-3); upon demand. A study of major speeches, speakers, and movements in America from the Colonial Period to the New Deal.

SPCH 530. Contemporary Public Address. (3-0-3); upon demand. Major speeches, speakers, and movements from the 1930's to the present.

SPCH 567. Organizational Communication. (3-0-3); I, II. A study of the dynamic function of communication which occurs within various organizational structures and related professional environments. Students may be assessed a fee for material distributed in class.

SPCH 570. Parliamentary Procedure. (3-0-3); upon demand. Theory and application of procedures used by profit and non-profit organizations.

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); upon demand. Prerequisite: SPCH 383 or permission of instructor. Current theory and related concepts regarding the discussion process.

SPCH 595. Administering the Communications Program. (3-0-3); I. Development and management of communications programs, including co-curricular activities. Students may be assessed a fee for materials distributed in class. (Material fees will be assessed for each student.)

SPCH 597. Administering and Supervising the Co-Curricular Communication Arts Program. (3-0-3); II. Prerequisite: SPCH 110. A study of the nature, objectives, and values of a forensics program. The student will study the traditional high school forensic events and will have a laboratory experience in each. Students may be assessed a fee for materials distributed in class.

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. An introduction to the areas of acting, setting design, costume design, lighting, sound, 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 produc-

tion 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, II. A study of 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); II. A study and application of tap dance techniques.

THEA 310. Stage Movement. (2-0-2); upon demand. The study and practice of stage fighting and movement in various historical periods.

THEA 311. Theatre Practicum I. (1 to 3 hrs.); upon 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.); upon demand. May be repeated. Prerequisite: THEA 311. A continuation of Theatre 311.

THEA 313. Theatre Practicum III. (1 to 3 hrs.); upon demand. May be repeated. Prerequisite: THEA 312. A continuation of Theatre 312.

THEA 315. Stage Make-up. (1-4-3); upon demand. Study and application of make-up and techniques for the stage.

THEA 316. Stage Properties. (1-4-3); upon demand. The study and practice of stage properties, their construction, acquiring, and repair; the study of furniture history.

THEA 317. Scene Painting. (1-4-3); upon demand. The study and practice of paints and painting techniques as they apply to the scenic artist.

THEA 320. Sceneographic and Drawing Techniques. (1-4-3); II. 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. (3-0-3); II. Prerequisite: THEA 210 and 320. The mechanical and artistic approach to stage lighting; study of electrical theory and instrument utilization.

THEA 322. Scene Design. (1-4-3); I. 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); upon 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); upon demand. Creation of costume design with emphasis on the principles of design and rendering techniques related to historic design.

THEA 327. Flat Patterns for Stage Costumes I. (1-4-3); upon demand. A course in creating original patterns for stage costumes and construction techniques.

THEA 328. Flat Patterns for Stage Costumes II. (1-4-3); upon 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); I. A study of the origins and development of theatre.

THEA 375. Creative Dramatics. (3-0-3); II, III. 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); I. Prerequisite: THEA 308 or permission of the instructor. Advanced study of ballet techniques and profiles of historic dancers.

THEA 512. Playwriting. (3-0-3); on demand. Prerequisite: THEA 200, THEA 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, THEA 100, THEA 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. (2-2-3); II. Prerequisite: THEA 284. Advanced study of acting, including analysis and development of characters in acting situations.

THEA 563. Advanced Costuming. (3-0-3); 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. (3-0-3); II. Prerequisite: 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. (3-0-3); 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.

Languages and Literature

The Department of Languages and Literature teaches six languages and their literatures: English, French, German, Latin, Russian, and Spanish.

English

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 languages 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, public relations, and 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.

For an Area of Concentration

	Sem. Hrs.
ENG 101—Composition I	3
ENG 102—Composition II	3
OR	
ENG 192—Technical Composition	3
At least one but no more than two literature courses at 200 level	
At least one course in advanced composition	
At least one course in American literature	
ENG 435—Shakespeare	3
ENG 505—Linguistics: Grammar	3
No more than two literature classes at 300 level	
All remaining (four to eight) electives at 400 and 500 level	
SPCH 100—Voice and Articulation I	3
OR	
SPCH 110—Basic Speech	3
SPCH 200—Oral Interpretation	3
Theatre elective	
JOUR 201—News Writing and Reporting	3
	54

For a Major*

ENG 101—Composition I	3
ENG 102—Composition II	3
OR	
ENG 192—Technical Composition	3
At least one but no more than two literature courses at 200 level	
At least one course in advanced composition	
At least one course in American literature	
ENG 435—Shakespeare	3

ENG 505—Linguistics: Grammar	3
No more than two literature courses at 300 level	
All remaining (two to six) electives at 400 and 500 level	36

For a Minor*

ENG 101—Composition I	3
ENG 102—Composition II	3
OR	
ENG 192—Technical Composition	3
At least one but no more than two literature courses at 200 level	
At least one course in advanced composition	
At least one course in American literature	
ENG 505—Linguistics: Grammar	3
No more than one literature course at 300 level	
All remaining (two to four) electives at 400 and 500 level	27

*For teacher certification and AREA or MAJOR, one must take as two of the electives ENG 500 and one of the following: 215, 393, 409, 434, 501, 516. MINOR must take as one of the electives ENG 500. Certification requires a course in the teaching of reading: EDSE 576 is recommended.

Suggested Programs

The following programs have been devised to help students in selecting their courses and making their schedules during the freshman and sophomore years. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

Area of Concentration in English

(Asterisks include requirements for Provisional High School Certification.)

FRESHMAN YEAR

First Semester	Sem. Hrs.
ENG 101—Composition I	3
PHED—activity course	1
SCI 103—Intro. to Physical Science	3
Social sciences elective	3
Foreign language	3
HLTH 150—Personal Health	2
Elective	2
	17

Second Semester	
ENG 102—Composition II	3
OR	
ENG 192—Technical Composition	3
PHED—activity course	1
SCI 105—Intro. to Biological Sci.	3
*PSY 154—Life-Oriented General Psychology	3
Foreign language	3
*EDSE 209—Foundations of Secondary Ed.	2
Elective	1
	16

SOPHOMORE YEAR

First Semester	
ENG elective	3
SPCH 100—Voice and Articulation	
OR	
SPCH 110—Basic Speech	3
EDSE 310—Prin. of Adolescent Development	3
Social sciences elective (HIST 351)	3
Foreign language	3
Electives	2
	17

Second Semester	
ENG electives	6
SPCH 200—Oral Interpretation	3
JOUR 201—News Writing and Reporting	3
Foreign language	3
Elective	2
	17

Major in English

FRESHMAN YEAR

First Semester	Sem. Hrs.
ENG 101—Composition I	3
PHED—activity course	1
SCI 103—Intro. to Physical Science	3
Social sciences elective	3
Foreign language	3
HLTH 150—Personal Health	2
Elective	2
	17

Second Semester

ENG 102—Composition II	3
OR	
ENG 192—Technical Composition	3
PHED—activity course	1
SCI 105—Intro. to Biological Science	3
Social sciences elective	3
Foreign language	3
EDSE 209—Foundations of Secondary Ed.	2
Elective	1
	16

SOPHOMORE YEAR

First Semester	
ENG elective	3
*PSY 154—Life-Oriented General Psychology	3
Science or math elective	3
Foreign language	3
Electives (HIST 351)	5
	17

Second Semester	
ENG electives	6
*EDSE 310—Prin. of Adolescent Development	3
Science or math elective	3
Foreign language	3
Elective	2
	17

Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

Honors Seminar in Modern Literature. (3-0-3); on demand. Intensive analytical study of a particular modern literary technique, movement, theme, or author. Restricted to Honors Program students.

NOTE: English 101 and 102 or 192, or English 103 are prerequisites for all other English courses.

ENG 099. Basic Writing Skills. (3-0-3); I, II, III. A placement composition course with an emphasis on writing sentences and paragraphs. Does not satisfy the general education requirement in written composition.

ENG 101. Composition I. (3-0-3); I, II, III. Development of writing ability, basic problems of structure of language, frequent papers.

ENG 102. Composition II. (3-0-3); I, II, III. Continuation of ENG 101; emphasis on critical thinking; frequent papers, including a short research paper.

ENG 103. Composition III. (3-0-3); I. 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); I, II, III. 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); I, II, III. 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); I, II, III. 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); I, II, III. Analysis of selected masterpieces of literature from the Renaissance to the present, with emphasis on ideas basic to the western tradition.

ENG 215. Structure of English. (3-0-3); on demand. The structures of the English language from the perspective of descriptive and structural linguistics.

ENG 231. English Literature to 1750. (3-0-3); I. A survey of English literature from Beowulf through Dr. Johnson.

ENG 232. English Literature since 1750. (3-0-3); II. A survey of English literature from Wordsworth to the present.

ENG 241. American Writers before 1850. (3-0-3); I. A survey of American literature from its colonial beginnings to Whitman.

ENG 242. American Writers since 1850. (3-0-3); I, II. A survey of American literature from Whitman to the present.

ENG 293. Creative Writing I. (3-0-3); I, II, III. Study of and practicum in description, narration, exposition, or poetry as literary forms, with extensive practice writing.

ENG 294. Creative Writing II. (3-0-3); I, II, III. Continuation of ENG 293.

ENG 325. Religious Literature of the World. (3-0-3); on demand. The literature of the major religions of the world.

ENG 344. The Short Story and the Novel. (3-0-3); I, II. Study of representative forms of the short story and the novel.

ENG 360. Appalachian Writers. (3-0-3); I. Regional literature including selected works by such major writers of the region as Harriette Arnow, Jesse Stuart, and Wilma Dykeman.

ENG 365. *Literature of the South* (3-0-3); on demand. Readings in the major representative Southern authors.

ENG 367. *Old Testament Literature*. (3-0-3); I. A critical study of the history and literature of the Old Testament.

ENG 368. *New Testament Literature*. (3-0-3); II. A critical study of the history and literature of the New Testament.

ENG 372. *Oriental Literature*. (3-0-3); on demand. The major literary figures and genres of the literatures of China, Japan, India, Arabia, and Iran.

ENG 393. *History of the Language*. (3-0-3); annually. The major developments in the evolution of English from an early Germanic dialect to its present form.

ENG 409. *American English: Use and Usage*. (3-0-3); on demand. A study of the dialects and the effectiveness of the language of the various parts of American society.

ENG 410. *Introduction to Science Fiction*. (3-0-3); II. Representative science fiction short stories and novels, mostly by British and American authors of the twentieth century; occasional films; independent reading.

ENG 434. *Chaucer*. (3-0-3); on demand. Study of some of his major works.

ENG 435. *Shakespeare*. (3-0-3); twice a year. Study of selected histories, comedies, tragedies, and sonnets.

ENG 436. *The English Renaissance*. (3-0-3); on demand. Selected literature from 1500 to 1600, including works by Skelton, Wyatt and Surrey, Sidney, Spenser, and Shakespeare (excluding his plays).

ENG 441. *Neoclassical Writers*. (3-0-3); on demand. Representative selections of English literature including works by Dryden, Pope, Swift, Addison and Steele, and Johnson.

ENG 442. *Romantic Writers*. (3-0-3); on demand. Representative selections of English literature including works by Wordsworth, Coleridge, Byron, Shelley, Keats, and the essayists.

ENG 443. *Victorian Writers*. (3-0-3); on demand. Representative selections of English literature, including works by Browning, Tennyson, Arnold, and Carlyle.

ENG 444. *Twentieth Century British Literature*. (3-0-3); on demand. Study of modern British poetry, novels, and short stories.

ENG 466. *American Poetry*. (3-0-3); on demand. The development of American poetry from its beginning to the present, with emphasis on such poets as Bradstreet, Whitman, Dickinson, Frost, Eliot, and Stevens.

ENG 471. *European Literature 1100-1600*. (3-0-3); on demand. Selected works from such major writers as Dante, Petrarch, Boccaccio, Machiavelli, Erasmus, Montaigne, and Rabelais.

ENG 472. *European Literature 1600-1800*. (3-0-3); on demand. Selected works from such major writers as Cervantes, Racine, Moliere, Pascal, Voltaire, Diderot, Goethe, and Schiller.

ENG 473. *European Literature 1800 to the Present*. (3-0-3); on demand. Selected works by such major writers as Chekhov, Dostoyevsky, Proust, Kafka, Mann, and Nabokov.

ENG 499. *Seminar: Major Writers*. (3-0-3); on demand. Intensive study of one or more major figures in the literature of the world.

ENG 500. *Studies in English for Teachers*. (3-0-3); I, III. The philosophy, rationale, and content of English in the American junior and senior high schools.

ENG 501. *Linguistics: Semantics*. (3-0-3); II (alternate years). Presents the problems of meaning as related to referential, distributional, and rational ways of encountering experience.

ENG 502. *Non-print Literary Materials for Teachers 7-12*. (3-0-3); on demand. Prerequisite: ENG 500 or consent of instructor. Student and faculty demonstrations of teaching the various literary genres; use of such appropriate non-print media as films, cassettes, and tapes to augment teaching effectiveness; and development of meaningful techniques of evaluating secondary school students of literature.

ENG 505. *Linguistics: Grammar*. (3-0-3); I, II, III. Principles of structural, transformational, generative, and tagmemic grammar.

ENG 510. *Programmed Writing and Learning*. (3-0-3); on demand. Using, writing, and understanding programmed texts; instruction individualized to the student's particular area of study.

ENG 516. *Basic Linguistics for Teachers*. (3-0-3); on demand. Application of linguistics principles to writing, reading, and literary comprehension.

ENG 528. *Literary Criticism*. (3-0-3); on demand. A survey of traditional criticism from the classical period to the twentieth century; or a study of modern criticism; the New Humanists, New Critics, Neo-Aristotelians, and various linguistics structuralists.

ENG 533. *English Fiction*. (3-0-3); on demand. Development of the English novel from its beginnings to the twentieth century.

ENG 539. *Milton*. (3-0-3); on demand. Intensive reading of Milton's poetry and major prose.

ENG 544. *Folk Literature*. (3-0-3); I, II, III. The origin of such primitive literary forms as the proverb, tale, epic, ballad, and folk drama.

ENG 545. *Seventeenth Century British Literature*. (3-0-3); on demand. English literature 1600-1660; Donne, Jonson.

ENG 552. *Early Dramatic Literature*. (3-0-3); on demand. Representative dramas from the Greeks to the mid-nineteenth century.

ENG 553. *Modern Drama*. (3-0-3); on demand. Representative dramas from the advent of realism to the present.

ENG 560. *Early American Authors*. (3-0-3); on demand. Writings of the American colonial and federal periods.

ENG 562. *Nineteenth Century American Fiction*. (3-0-3); on demand. The development of American fiction from Charles Brockden Brown to Stephen Crane.

ENG 564. *Twentieth Century American Fiction*. (3-0-3); on demand. The development of American fiction from 1900 to the present.

ENG 570. *Introduction to Film Literature*. (3-0-3); I. An introduction to the study of film as literature with extensive reading in the history of film and viewing of selected film classics.

ENG 591. *Technical Writing I*. (3-0-3); I, II, III. 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); I, II, III. Continuation of ENG 591.

ENG 593. *Fiction and Poetry Writing I*. (3-0-3); II, III. Practicum in sustained writing. Evaluation and marketing of manuscripts.

ENG 594. *Fiction and Poetry Writing II*. (3-0-3); II, III. Continuation of ENG 593.

ENG 595. *A Linguistics Approach to Writing*. (3-0-3); I. Language patterns, inherent symbols and their meanings, and tagmemics.

ENG 598. *Logical Reasoning for Aptitude Examination*. (3-0-3); I, II, III. Application of the language of logical reasoning and practical judgement in qualitative and quantitative aptitude examinations such as LAST, GRE, NTE, GBAT, GMAT, CTBS, ACT, and SAT. *May not be used as an elective in any English program.*

French

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.

Requirements for a Major in French

	Sem. Hrs.
FRN 101—Beginning French I	3
FRN 102—Beginning French II	3
FRN 201—Intermediate French	3
FRN 202—Conversation and Composition	3
FRN 203—Introduction to France	3
FRN 435—Twentieth Century Literature	3
Approved electives	12
	30

Requirements for a Minor in French

	Sem. Hrs.
FRN 101—Beginning French I	3
FRN 102—Beginning French II	3
FRN 201—Intermediate French	3
FRN 202—Conversation and Composition	3
FRN 203—Introduction to France	3
Approved electives	6
	21

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

Students who expect to teach French should choose FRN 405 as one of their electives.

Description of Courses

NOTE: (3-0-3) following course title indicates 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally scheduled: I—fall, II—spring, III—summer.

FRN 101. *Beginning French I*. (3-2-3); I, II. Drill on hearing and speaking; reading of simple texts; basic points of grammar.

FRN 102. *Beginning French II*. (3-2-3); I, II. Review of grammar; stress on active use of the language; reading, speaking, writing, and understanding.

FRN 201. *Intermediate French*. (3-0-3); I. Exercises in writing compositions based on readings. Laboratory work designed to complete mastery of basic language patterns and active vocabulary.

FRN 202. *Conversation and Composition*. (3-0-3); II. Intensive training in

correct writing and fluent speech. Subject matter taken from literary selections.

FRN 203. *Introduction to France*. (3-0-3); I. The elements which have contributed to the culture of France.

FRN 321. *Literature of the Middle Ages and Renaissance*. (3-0-3); I. An introduction to typical epics, romances, and bourgeois poetry, followed by study of selections from Villon, Marot, Rabelais, the Pleiade, and Montaigne.

FRN 322. *Seventeenth-Century Literature*. (3-0-3); II. Study of French Classicism through representative plays.

FRN 323. *Eighteenth-Century Literature*. (3-0-3); I. Development of rationalistic and democratic tendencies as expressed in the writings of the period leading up to the Revolution.

FRN 324. *Nineteenth-Century Literature*. (3-0-3); II. Examination of representative works illustrating the development of literature from Romanticism to Realism and Symbolism.

FRN 405. *Linguistics and Language Teaching*. (3-0-3); III. For French majors and minors. A seminar in various foreign languages requiring projects appropriate to the specialty in each.

FRN 435. *Twentieth-Century Literature*. (3-0-3); on demand. Selected works of recent writers: France, Romains, Gide, Proust, Giraudou, Sartre, and others.

FRN 550. *Reading French I*. (3-0-3); on demand. Prerequisite: permission of 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); on demand. Prerequisite: FRN 550 or permission of the instructor. Further study of grammar and drill in reading, with emphasis on reading in the student's own subject area.

German

The German program teaches the language and literature of Germany, whereby students will understand cultural points of view different from their own. It surveys German culture as seen through its literature as a complex development of historical, aesthetic, artistic, and social elements. It helps students attain a comfortable proficiency in speaking, reading, and writing German. Finally, it trains prospective teachers in techniques of foreign language teaching.

NOTE: GER 202 or its equivalent is prerequisite to all courses numbered 300 or above.

Requirements for a Major in German

	Sem. Hrs.
GER 101—Beginning German I	3
GER 102—Beginning German II	3
GER 201—Intermediate German I	3
GER 202—Intermediate German II	3
GER 301—Grammar and Conversation	3
GER 302—Composition and Conversation	3
Approved electives	12
	30

Requirements for a Minor in German

	Sem. Hrs.
GER 101—Beginning German I	3
GER 102—Beginning German II	3
GER 201—Intermediate German I	3
AND	
GER 202—Intermediate German II	3
OR	
GER 203—Expository German	3
Approved electives	9
	21

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

Students who expect to teach German should choose GER 405 as one of their electives.

Description of Courses

NOTE: (3-0-3) following course title indicates: 3 hours class, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term the course is normally offered: I—fall, II—spring, and III—summer.

GER 101. *Beginning German I*. (3-2-3); I, II. Fundamentals of structure: basic vocabulary, reading, writing, pronunciation and some conversation.

GER 102. *Beginning German II*. (3-2-3); I, II. A continuation of GER 101.

GER 201. *Intermediate German I*. (3-0-3); I. A review of grammar and pronunciation, with emphasis on reading of contemporary writings.

GER 202. *Intermediate German II*. (3-0-3); II. Prerequisite: GER 201. A continuation of GER 201.

GER 203. *Expository German*. (3-0-3); I. 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); II. Further development of skills involved in the use of the language. Extensive experience in the language laboratory is required.

GER 302. *Composition and Conversation*. (3-0-3); on demand. A continuation of GER 301 with greater emphasis on stylistics.

GER 303. *Advanced Expository German*. (3-0-2); on demand. 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); on demand. The Novelle from Goethe to the present.

GER 311. *German Literature to 1880*. (3-0-3); on demand. A general survey of German literature from old High German to Hebbel and Ludwig.

GER 312. *German Literature since 1880*. (3-0-3); on demand. A survey of German literature from Hauptmann to the present.

GER 320. *German Literature from 1750 to 1800*. (3-0-3); on demand. A survey of the literature of Germany in the latter half of the eighteenth century.

GER 330. *The German Lyric*. (3-0-3); on demand. An intensive study of German lyric poetry from 1730 to the present.

GER 405. *Linguistics and Language Teaching*. (3-0-3); III. For German majors and minors. Seminar for majors or minors in various foreign languages; requires projects appropriate to the specialty of each.

GER 420. *German Drama of the Nineteenth Century*. (3-0-3); on demand. Study of major representative plays and their background.

GER 440. *Literature of the Twentieth Century*. (3-0-3); on demand. Study of major modern German writers.

GER 480. *Independent Study*. (3-0-3); on demand. A close reading of selected texts for their literary merit. Open only to students majoring or minoring in German. May be repeated once for credit.

Latin

The Latin courses provide students in the arts and sciences with a firm background in classical culture, and students in pre-professional programs with a clear understanding of technical vocabulary.

NOTE: Latin 202 or the equivalent is prerequisite to courses numbered 300 or above.

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

Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall, II—spring, III—summer.

LAT 101. *Beginning Latin I*. (3-2-3); I, II. Drill in the basic elements of Latin grammar, word study, and reading of simple Latin selections.

LAT 102. *Beginning Latin II*. (3-2-3); I, II. A continuation of 101.

LAT 201. *Intermediate Latin I*. (3-0-3); I. Selections from Catullus, Cicero, Horace, Pliny, Martial, Livy, and Ovid.

LAT 202. *Intermediate Latin II*. (3-0-3); II. Writings of Cicero; his life and influence.

LAT 301. *Advanced Latin I*. (3-0-3); I. Poets of the Augustan Age, together with the history of the period.

LAT 302. *Advanced Latin II*. (3-0-3); ; II Further study of the poetry of the Augustan Age. Selections from Vergil's Aeneid.

LAT 401. *Latin Literature I*. (3-0-3); I. 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); II. Selections from Livy, Tacitus, Suetonius, Caesar, and others. Rotation of course content allows students to repeat the course for additional credit.

Russian

Objectives

1. To develop the ability to speak, read, write, and understand the Russian language.
2. To provide students an introduction to the culture of the Russian-speaking world.
3. To develop a better understanding of Russian society and history through a study of Russian literature.

Description of Courses

NOTE: (3-0-3) following course title indicates 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally offered: I—fall, II—spring, III—summer.

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.

Spanish

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

NOTE: SPA 202 or the equivalent is prerequisite to courses numbered 300 or above.

Requirements for a Major in Spanish

	Sem. Hrs.
SPA 101—Beginning Spanish I	3
SPA 102—Beginning Spanish II	3
SPA 201—Intermediate Spanish	3
SPA 202—Advanced Conversation	3
SPA 301—Spanish Literature	3
SPA 302—Spanish American Literature	3
SPA 501—Advanced Grammar	3
Approved electives	9
	30

Requirements for a Minor in Spanish

	Sem. Hrs.
SPA 101—Beginning Spanish I	3
SPA 102—Beginning Spanish II	3
SPA 201—Intermediate Spanish	3
SPA 202—Advanced Conversation	3
SPA 301—Spanish Literature	3
SPA 302—Spanish American Literature	3
Approved electives	3
	21

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 courses be taken without interruption.

Students who expect to teach Spanish should choose SPA 405 as one of their electives.

Description of Courses

NOTE: (3-0-3) following course title indicates 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally offered: I—fall, II—spring, III—summer.

SPA 101. Beginning Spanish I. (3-2-3); I, II. Practice in hearing and speaking through patterns.

SPA 102. Beginning Spanish II. (3-2-3); I, II. For those students who have had a year of Spanish in high school and those who have passed 101. A continuation of SPA 101; practice hearing and speaking with patterns. Essentials of grammar.

SPA 201. Intermediate Spanish. (3-1-3); I. Prerequisite: SPA 102 or permission of the instructor. A reading course. Selection of famous modern authors used to develop the understanding and interpretation of the written language.

SPA 202. Advanced Conversation. (3-1-3); II. Prerequisite: SPA 102 or permission of the instructor. Intensive training in conversation. Films, magazines, and books will be used to practice different kinds of language.

SPA 220. Grammar and Composition. (3-0-3); I. Prerequisite: SPA 202 or permission of the instructor. Study and analysis of speaking and writing styles. Emphasis on written composition.

SPA 301. Spanish Literature. (3-0-3); I. A survey of the major periods and tendencies of Spanish literature from its beginning through the twentieth century.

SPA 302. Spanish American Literature. (3-0-3); II. A survey of major periods and tendencies of Spanish American literature from its beginning through the twentieth century.

SPA 311. Spanish and Spanish American Poetry. (3-0-3); II. A study of Juglares, Cantares de Gesta, Romances, Mística, Poesía del Siglo de Oro, Romanticismo, Post Romanticismo, Modernismo, Siglo XX.

SPA 312. Spanish Theatre. (3-0-3); on demand. A study of the evolution of the theatre from Juan Del Encina to Garcia Lorca.

SPA 313. Spanish Novel. (3-0-3); on demand. A survey of the novel from the thirteenth century, la Novela de Caballeria, la Picaresca, la Morisca, la Pastoril, Cervantes, el Costumbrismo, la Generacion del 98, el Siglo II.

SPA 405. Linguistics and Language Teaching. (3-0-3); III. For Spanish majors and minors. A seminar in various foreign languages requiring projects appropriate to the specialty of each.

SPA 501. Advanced Grammar. (3-0-3); on demand. Compulsory for those who plan to teach Spanish. A thorough study of the verbs and the structure of the language. Based on the Royal Academy Grammar.

SPA 523. Don Quixote de la Mancha. (3-0-3); on demand. A study of the masterpiece of Spanish literature.

SPA 532. Contemporary Spanish and Spanish American Literature. (3-0-3); on demand. A survey of significant characteristics of twentieth century Hispanic literature, including the novel, short story, drama, essay, and poetry.

SPA 540. Seminar in Hispanic Literature. (3-0-3); on demand. Group instruction and practices in research methods peculiar to Hispanic literature.

SPA 545. Spanish Drama from the Generation of 1898 to the Present. (3-0-3); on demand. A study of the major dramatists of dramatic trends from Benavente and his contemporaries through Garcia Lorca, Casona, and Buero Vallejo.

SPA 550. The Spanish Essay from the Eighteenth Century to the Present. (3-0-3); on demand. A study of the major essayists from Feijoo through Madariga.

SPA 555. Lope de Vega. (3-0-3); on demand. A study of the major dramatic and nondramatic works of Lope de Vega.

Music

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.

Requirements for the 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.

	Sem. Hrs.
1. APPLIED MUSIC	30
Principal applied area	14
Ensembles, at least two vocal	7-9
*Class Piano	4
Class voice and instruments	5
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
Choral Conducting	2
Instrumental Conducting	2

5. MUSIC EDUCATION	7
Elementary Materials and Methods	4
Vocal or Instrumental Materials and Methods	2
Seminar	1
	60-69

*Exemption or advanced placement possible.

For the Bachelor of Music

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.

	Sem. Hrs.
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
Choral Conducting	2
Instrumental Conducting	2

NOTE: Jazz and studio music students may take either instrumental or choral conducting. To complete their conducting requirement, they will take *Rehearsal Techniques for Jazz Ensembles (MUS 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	19
Class Voice	1
Junior Recital	2
Senior Recital	3
Class and/or Private Piano	6
Languages (a minimum of six semester hours in each of two languages)	9
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
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
4. STRINGS	
Private Strings	19
Class Piano and/or Private Piano	7
Junior Recital	2
Senior Recital	3
Electives	8
Class Voice	1
5. WIND INSTRUMENTS	
Private Lessons in Major Instrument	19
Junior Recital	2
Senior Recital	3
Class Piano and/or Private Piano	7
Class Voice	1
Arranging	4
Music electives	4
6. THEORY/COMPOSITION	
Composition	12
Arranging	4
Counterpoint	2
Recital of Original Composition	2
Class and/or Private Keyboard	6
Electives	6
Private Lessons in Major Instrument or Voice	7
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	4
Studio Improvisation	7
Music electives	3
	80

For a Major (Bachelor of Arts Degree)

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

For a Minor

Applied Music	14
Private Lessons	8
Ensembles	4
Class or Private Piano	2
Music Theory	9
Music Theory I and II	6
Music Reading I and II	4
Music Literature I and II	4
	27

Suggested Programs

The following programs have been devised to help students in selecting their courses during their first two years of study. These suggested schedules need not be followed specifically, but substitutions should be made only after careful study of degree requirements has been made.

Bachelor of Music Education

FRESHMAN YEAR

	First Semester	Sem. Hrs.
ENG 101—Composition I		3
Physical science elective		3
HLTH 150—Personal Health		2
MUST 131—Music Theory I		3
MUST 133—Music Reading I		1
MUSG 123—Class Piano I		1
MUSP—major private applied		2
MUSP 200—Applied Music Lab		0
MUSM—ensemble		1
MUSM 200—Student Recital		0
MUSG 239—Class Voice		1
		17

Second Semester

ENG 102—Composition II	3
Biological science elective	3
PHED—activity course	1
MUST 132—Music Theory II	3
MUST 134—Music Reading II	2
MUSG 124—Class Piano II	1
MUSG—class instrument	1
MUSP—major private applied	2
MUSP 200—Applied Music Lab	0
MUSM—ensemble	1
MUSM 200—Student Recital	0
	17

SOPHOMORE YEAR

	First Semester	Sem. Hrs.
Eng—literature elective		3
MUST 231—Music Theory III		2
MUST 233—Music Reading III		3
MUSG 223—Class Piano III		1
MUSG 161—Literature of Music I		2

MUSG—class instrument	1
MUSP—major private applied	2
MUSP 200—Applied Music Lab	0
MUSM—ensemble	1
MUSM 200—Student Recital	0
General education elective	3
	18

Second Semester

MUST—Theory IV	2
MUSG 224—Class Piano IV	1
MUSH 162—Literature of Music II	2
MUSG—class instrument	1
MUSP—major private applied	2
MUSP 200—Applied Music Lab	0
MUSM—ensemble	1
MUSM 200—Student Recital	0
General education electives	6
EDSE 209—Foundations of Sec. Ed.	2
	17

Bachelor of Music (Piano Specialization)

FRESHMAN YEAR

First Semester

	Sem. Hrs.
ENG 101—Composition I	3
Physical science elective	3
HLTH 150—Personal Health	2
MUST 131—Music Theory I	3
MUST 133—Music Reading I	1
*MUSP 243—Private Piano	3
*MUSM 187—Piano Ensemble	1
MUSG 239—Class Voice	1
MUSM 200—Student Recital	0
	17

Second Semester

ENG 102—Composition II	3
Biological science elective	3
PHED—activity course	1
MUST 132—Music Theory II	3
MUST 134—Music Reading II	2
*MUSP 243—Private Piano	3
*MUSM 188—Piano Ensemble	1
MUSM 200—Student Recital	0
*MUSP—private organ or harpsichord	1
	17

SOPHOMORE YEAR

First Semester

MUSH 161—Literature of Music I	2
MUST 231—Music Theory III	2
MUST 233—Music Reading III	3
*MUSP 243—Private Piano	3
*MUSP—private organ or harpsichord	1
*MUSM—piano ensemble	1
MUSM 200—Student Recital	0
Electives	4
	16

Second Semester

ENG—literature elective	3
MUSH 162—Literature of Music II	2
MUST—Theory IV	2
*MUSP 243—Private Piano	3
*MUSP—private organ or harpsichord	1
*MUSM—piano ensemble	1
MUSM 200—Student Recital	0
Elective	3
	16

*Points at which substitutions should be made for other specializations.

Change of Program

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 head as to the suitability of the change and the applicability of credits already earned toward the new curriculum.

Piano Proficiency

All music students with principal applied areas other than keyboard instruments must complete four semesters of class

piano (two semesters for music minors) or demonstrate proficiency by examination. The material for the examination includes the following:

1. Facility in scales, arpeggios, and cadences.
2. Performance of compositions of approximately third grade difficulty from the works of Clementi, Bach, Mozart, Bartok, etc.
3. Sight reading of easy piano music and instrumental and vocal accompaniments.
4. Playing of simple melodies by ear and improvising appropriate harmonizations.

Placement Examinations

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 Fees

One half-hour private lesson per week, per semester	\$30.00
Each additional half-hour private lesson per week, per semester	\$30.00
Instrument rental fee	\$3.00
Junior recital	\$30.00
Senior recital (two hours credit)	\$30.00
Senior recital (three hours credit)	\$60.00
Graduate recital	\$60.00

NOTE: Under certain conditions, beginning students in applied music may be assigned to an undergraduate assistant for instruction. In this event, the lesson fee is one-half that charged for lessons with members of the music faculty.

Applied Music**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 music faculty.

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.

Student Recital

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 head of the Department of Music.

Ensembles

Each music student is required to participate in an ensemble representing his or her major 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. 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.)

Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, and 3 hours credit. Roman numerals I, II, and III following the credit allowance indicate the term in which the course is normally scheduled: I—fall, II—spring, III—summer.

MUSC—Conducting
MUSE—Music Education
MUSG—Class Applied Music
MUSH—Music History & Literature
MUSM—Music Ensembles
MUSP—Private Applied Music
MUST—Music Theory & Composition

CONDUCTING

MUSC 471. Choral Conducting. (2-0-2); II. Baton technique, rehearsal procedures, choral diction, and style and interpretation of choral works.

MUSC 472. Instrumental Conducting. (2-0-2); I. Baton technique, rehearsal procedures, and style and interpretation of instrumental works.

MUSC 473. Rehearsal Techniques for Jazz Ensembles. (2-0-2); II. A study of the 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, 132, or 133. Music fundamentals and methods for teaching music to elementary school children.

MUSE 325. Materials and Methods for Elementary Grades. (4-0-4); I. 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 480. Seminar. (1-0-1); II. Discussion of special problems related to the teaching of music; readings in literature in the field.

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 Workshop. (2-0-2); I, III. Techniques of preparing marching bands for performance.

MUSE 595. Voice Pedagogy. (3-0-3); I, III. An introduction to the physiological, acoustical, and phonetic bases of singing and private voice instruction. Emphasis will be placed on the relationship between scientific fact and the practical application of principle through the use of imagery and phonetic choice.

CLASS APPLIED MUSIC

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); I, II. Technique and style of American and English country dances in 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). 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 I. (0-2-1); I, II.

MUSG 218. Class Percussion II. (0-2-1); I, II.

MUSG 223. Class Piano III. (0-2-1); I, II.

MUSG 224. Class Piano VI. (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 to music and the 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 count 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.

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 184, 384. Guitar Ensemble. (0-2-1); I, II.

MUSM 135, 335. Clarinet Choir. (0-2-1); I, II.

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 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 sixteen singers. Admission by audition.

MUSM 194, 394. **Opera Workshop.** (0-2-1); on demand. An introduction to the techniques of musical theatre with emphasis on the integration of music and action-dramatic study of operatic roles. With the consent of the instructor.

MUSM 200/400. **Student Recital.** (0-1-0); I, II. Each Thursday afternoon music students and faculty present a recital. 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. Performance of accompaniments for junior or senior recitals. Consent of piano faculty required.

PRIVATE APPLIED MUSIC

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. **Applied Music Lab.**

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 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. A solo public recital of at least 30 minutes. With the approval of the music faculty.

MUSP 450. **Senior Recital.** (2-0-2); I, II, III. A solo public recital of approximately 30 minutes duration. With the approval of the music faculty.

MUSP 460. **Senior Recital.** (3-0-3); I, II, III. A solo public recital of approximately 60 minutes duration. With the approval of the music faculty.

MUSIC THEORY AND COMPOSITION

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 236. **Music Theory III.** (2-1-2); I, II. Prerequisite: MUST 132 or determination of equivalent competency by Music Department Entrance Examination. A continuation of Music Theory II, with emphasis placed on the broadening of both the total and rhythmic vocabulary through the study of chromatic harmony and more complex metric rhythmic patterns.

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 placed on the individual development of vocal and instrumental music reading skills.

MUST 237. **Music Theory IV.** (2-1-2); 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). Prerequisite: MUST 237 or consent of the instructor. Study and practice of basic formal compositional principles.

MUST 264. **Elementary Composition II.** (1-1-2); II. Prerequisite: MUST 263. Continuation of MUST 263.

MUST 331. **Counterpoint.** (2-0-2); II. 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); I, II. Prerequisite: MUST 264. Study and writing of student's original creative work. One hour weekly in private study; one hour in composition seminar-colloquium.

MUST 364. **Intermediate Composition II.** (1-1-2); I, II. Prerequisite: MUST 363. A continuation of MUST 363.

MUST 433. **Arranging for Jazz Ensembles I.** (2-0-2); I. Techniques of arranging for large and small jazz ensembles.

MUST 434. **Arranging for Jazz Ensembles II.** (2-0-2); II. 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); I, II. Prerequisite: MUST 364. Study, writing, and performance of students' original creative work. Private conferences and composition seminar in colloquium.

MUST 564. **Advanced Composition II.** (1-1-2); I, II. Prerequisite: MUST 563. Continuation of MUST 563.

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.

PHILOSOPHY

The Department of Philosophy serves two basic functions in the programs offered by the University. First, the department offers general education courses which students may select as partial fulfillment of the general education requirements. These courses are designed to increase the scope and depth of the student's understanding of some of man's most basic beliefs. Second, the department offers a minor or major in philosophy and a minor or major in religious studies for those students who have a strong interest in these fields,

for those who may want to prepare themselves for graduate work in the subject, and for those who want to acquire a good foundation in philosophy or religious studies to supplement their preparation for graduate study in the professions or other disciplines.

Requirements for a Major in Philosophy

	Sem. Hrs.
PHIL 200—Introduction to Philosophy	3
PHIL 306—Logic	3
PHIL 505—History of Philosophy I	3
PHIL 506—History of Philosophy II	3
Additional credit in philosophy approved by the department	18
Minimum for a major	30

For a Minor in Philosophy

PHIL 200—Introduction to Philosophy	3
PHIL 306—Logic	3
PHIL 505—History of Philosophy I	3
PHIL 506—History of Philosophy II	3
Additional credit in philosophy approved by the department	9
Minimum for a minor	21

For a Major in Religious Studies

REL 221—World Religions I	3
REL 222—World Religions II	3
PHIL 200—Introduction to Philosophy	3
PHIL 307—Philosophy of Religion	3
Additional credit in religious studies approved by the Department of Philosophy	18
Minimum for a major	30

For a Minor in Religious Studies

REL 221—World Religions I	3
REL 222—World Religions II	3
PHIL 200—Introduction to Philosophy	3
PHIL 307—Philosophy of Religion	3
Additional credit in religious studies approved by the Department of Philosophy	9
Minimum for a minor	21

NOTE: Courses which may be selected, with the approval of the Department of Philosophy, to complete the major or minor in religious studies are the following:

REL 321—Early and Medieval Christian Thought	3
REL 322—Modern Christian Thought	3
REL 323—Twentieth-Century Christian Thought	3
REL 476—Special Problems	1-3
ENG 325—Religious Literature of the World	3
ENG 367—Old Testament Literature	3
ENG 368—New Testament Literature	3
HIS 332—Christianity and Its World	3
HIS 551—Religion in American History	3

Suggested Programs

The following programs have been devised to help students in selecting and making their schedules during the freshman and sophomore years. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

Bachelor of Arts Degree with a Major in Philosophy (without a teaching certificate)

FRESHMAN YEAR

First Semester	Sem. Hrs.
ENG 101—Composition I	3
PHIL 200—Introduction to Philosophy	3
Physical Science 103 or higher	3
Social and behavioral sciences elective	3
Elective (foreign language recommended)	3
Elective	1
	16

Second Semester	
ENG 102 or 192	3
Philosophy elective	3
Biological Science 105 or higher	3

Social and behavioral sciences elective	3
Elective (foreign language recommended)	3
Elective	1
	16

SOPHOMORE YEAR

First Semester	
ENG 202, 211, or 212	3
Philosophy elective	3
Second major or elective	3
Social and behavioral sciences elective	3
Elective (foreign language recommended)	3
Elective	1
	16

Second Semester	
PHIL 306—Logic	3
Second major or elective	3
Math 131 or higher	3
Speech 110 or 370	3
Elective (foreign language recommended)	3
Elective	1
	16

Provisional High School Certificate with a Major in Philosophy and a Major in a Teaching Subject

FRESHMAN YEAR

First Semester	Sem. Hrs.
ENG 101—Composition I	3
PSY 154—Life-oriented General Psychology	3
Humanities elective	3
Physical Science 103 or higher	3
Social and behavioral sciences elective	3
Elective	1
	16

Second Semester	
ENG 102 or 192	3
PHIL 200—Introduction to Philosophy	3
Second major	3
Biological Science 105 or higher	3
Social and behavioral sciences elective	3
Elective	1
	16

SOPHOMORE YEAR

First Semester	
ENG 202, 211, or 212	3
EDSE 209—Foundations of Secondary Education	2
Philosophy elective	3
Second major	3
Social and behavioral sciences elective	3
Health 150 or 203	3
	17

Second Semester	
PHIL 306—Logic	3
Elective in philosophy	3
Second major	3
Math 131 or higher	3
Speech 110 or 370	3
Elective	1
	16

Provisional High School Certificate with a Minor in Philosophy and a Major in a Teaching Subject

FRESHMAN YEAR

First Semester	Sem. Hrs.
ENG 101—Composition I	3
PSY 154—Life-oriented General Psychology	3
Physical Science 103 or higher	3
Social and behavioral sciences elective	3
Health 150 or 203	3
Elective	1
	16

Second Semester	
ENG 102 or 192	3
PHIL 200—Introduction to Philosophy	3
Major	3
Biological Science 105 or higher	3
Humanities elective	3
Elective	1
	16

SOPHOMORE YEAR

First Semester	
ENG 202, 211, or 212	3

EDSE 209—Foundations of Secondary Education	2
Philosophy elective	3
Major	3
Speech 110 or 370	3
Elective	3
	17

Second Semester

PHIL 306—Logic	3
Philosophy elective	3
Major	3
Math 131 or higher	3
Social and behavioral sciences elective	3
Elective	1
	16

Bachelor of Arts Degree with a Minor in Philosophy (without a teaching certificate)

FRESHMAN YEAR

First Semester

	Sem. Hrs.
ENG 101—Composition I	3
Humanities elective	3
Physical Science 103 or higher	3
Social and behavioral sciences elective	3
Health 150 or 203	3
Elective	1
	16

Second Semester

ENG 102 or 192	3
PHIL 200—Introduction to Philosophy	3
Major	3
Biological Science 105 or higher	3
Social and behavioral sciences elective	3
Elective	1
	16

SOPHOMORE YEAR

First Semester

ENG 202, 211, or 212	3
Philosophy elective	3
Major	3
MATH 131 or higher	3
Social and behavioral sciences elective	3
Elective	1
	16

Second Semester

PHIL 306—Logic	3
Philosophy elective	3
Major	3
Math or science elective or Data Processing 201	3
Speech 110 or 370	3
Elective	1
	16

Religious Studies

Bachelor of Arts Degree with a Major in Religious Studies (without a teaching certificate)

FRESHMAN YEAR

First Semester

	Sem. Hrs.
ENG 101—Composition I	3
REL 221—World Religions I	3
Humanities elective	3
Physical Science 103 or higher	3
Social and behavioral sciences elective	3
Elective	1
	16

Second Semester

ENG 102 or 192	3
REL 222—World Religions II	3
PHIL 200—Introduction to Philosophy	3
Biological Science 105 or higher	3
Social and behavioral sciences elective	3
Elective	1
	16

SOPHOMORE YEAR

First Semester

ENG 202, 211, or 212	3
Religious studies elective	3
Second major or elective	3
Math 131 or higher	3
Social and behavioral sciences elective	3

Elective	1
	16

Second Semester

PHIL 307—Philosophy of Religion	3
Second major or elective	3
Health 150 or 203	3
Social and behavioral sciences elective	3
Science or Mathematics elective	3
Elective	1
	16

Professional High School Certificate with a Major in Religious Studies and a Major in a Teaching Subject

FRESHMAN YEAR

First Semester

	Sem. Hrs.
ENG 101—Composition I	3
REL 221—World Religions I	3
Second major	3
PSY 154—Life-oriented General Psychology	3
Physical Science 103 or higher	3
Elective	1
	16

Second Semester

ENG 102 or 192	3
REL 222—World Religions II	3
Second major	3
PHIL 200—Introduction to Philosophy	3
Biological Science 105 or higher	3
Elective	1
	16

SOPHOMORE YEAR

First Semester

ENG 202, 211, or 212	3
Religious studies elective	3
Second major	3
EDSE 209—Foundations of Secondary Education	2
Social and behavioral sciences elective	3
Health 150 or 203	3
	17

Second Semester

Religious studies elective	3
Second major	3
Humanities elective	3
MATH 131 or higher	3
Speech 110 or 370	3
Elective	1
	16

Provisional High School Certificate with a Minor in Religious Studies and a Major in a Teaching Subject

FRESHMAN YEAR

First Semester

	Sem. Hrs.
ENG 101—Composition I	3
REL 221—World Religions I	3
Major	3
PSY 154—Life-oriented General Psychology	3
Physical Science 103 or higher	3
Elective	1
	16

Second Semester

ENG 102 or 192	3
REL 222—World Religions II	3
Major	3
PHIL 200—Introduction to Philosophy	3
Biological Science 105 or higher	3
Elective	1
	16

SOPHOMORE YEAR

First Semester

ENG 202, 211, or 212	3
Religious studies elective	3
Major	3
EDSE 209—Foundations of Secondary Education	2
Social and behavioral sciences elective	3
Health 150 or 203	3
	17

Second Semester

Religious studies elective	3
Major	3
Humanities elective	3
Math 131 or higher	3

Speech 110 or 370	3
Elective	1
	16

Bachelor of Arts Degree with a Minor in Religious Studies (without a teaching certificate)

FRESHMAN YEAR

First Semester		Sem. Hrs.
ENG 101—Composition I		3
REL 221—World Religions I		3
Humanities elective		3
Physical Science 103 or higher		3
Social and behavioral sciences elective		3
Elective		1
		16

Second Semester		Sem. Hrs.
ENG 102 or 192		3
REL 222—World Religions II		3
Major		3
PHIL 200—Introduction to Philosophy		3
Biological Science 105 or higher		3
Elective		1
		16

SOPHOMORE YEAR

First Semester		Sem. Hrs.
ENG 202, 211, or 212		3
Religious studies elective		3
Major		3
MATH 131 or higher		3
Social and behavioral sciences elective		3
Elective		1
		16

Second Semester		Sem. Hrs.
PHIL 307—Philosophy of Religion		3
Major		3
Science or mathematics elective		3
Social and behavioral sciences elective		3
Health 150 or 203		3
Elective		1
		16

Description of Courses

NOTE: (3-0-3) following the title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall, II—spring, III—summer.

PHILOSOPHY

Honors Seminar in Philosophy. (3-0-3); I. 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 200. Introduction to Philosophy. (3-0-3); I, II, III. A study of alternative views concerning the nature of reality, knowledge, truth, God, man, art, and the good life.

PHIL 300. Philosophy of Science. (3-0-3); II. A study of 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); I, II, III. A study of theoretical and practical problems of moral conduct and proposed solutions to them.

PHIL 306. Logic. (3-0-3); I, II. A study of 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); I, II. An inquiry into 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); I. An examination of the major theories of art, aesthetic experience, the structure of art, problems in aesthetics, and art criticism.

PHIL 309. Existentialism. (3-0-3); I. Designed to develop an understanding of 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); on demand. Prerequisite: PHIL 200 or consent of the department. Introduction to the theory and technique of analysis of statements and the application of this technique to basic statements in the various sciences.

PHIL 311. Ordinary Language Philosophy. (3-0-3); on demand. Prerequisite: any one of the following courses: PHIL 200, 505, 506. An introduction to a contemporary philosophy which attempts to solve philosophical problems by ap-

pealing to language as ordinarily used.

PHIL 312. Symbolic Logic. (3-0-3); on demand. Prerequisite: permission of instructor. An introduction to the 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); on demand. 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 410. Contemporary Philosophy. (3-0-3); II. An examination, interpretation, and evaluation of the philosophic ideas of leading representatives of twentieth-century philosophies.

PHIL 476. Special Problems. (1 to 3 hrs.); I, II. Prerequisite: 12 hours in philosophy or consent of the department. The student selects an approved topic in philosophy on which to do a directed study.

PHIL 505. History of Philosophy I. (3-0-3); I. Ancient and Medieval philosophy; a history of Western philosophy from Thales (624-546 B.C.) to the beginning of the Renaissance.

PHIL 506. History of Philosophy II. (3-0-3); II. Modern and contemporary philosophy; a history of Western philosophy from the Renaissance to the present.

RELIGION

NOTE: Credit in philosophy is not given for any of the courses in religion.

REL 221. World Religions I. (3-0-3); I. Prerequisite: PHIL 200—Introduction to Philosophy, is recommended. A study of the 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); II. Prerequisite: PHIL 200—Introduction to Philosophy, is recommended. A study of the origin, development, assumptions, values, beliefs, practices, great leaders, and principal events of Hinduism, Buddhism, Confucianism, Taoism, Jainism, Sikhism, and Shintoism.

REL 321. Early and Medieval Christian Thought. (3-0-3); on demand. Prerequisite: PHIL 200—Introduction to Philosophy, is recommended. A study of ideas concerning the nature of God, Jesus, the church, man, sin, salvation, the good life, and other issues presented by Jesus, Paul, John, and the early and medieval church fathers or leaders to the beginning of the Reformation.

REL 322. Modern Christian Thought (1500 to 1900). (3-0-3); on demand. Prerequisites: REL 321 and/or PHIL 200 recommended. A study of the ideas concerning the nature of God, Jesus, the church, man, sin, salvation, the good life, and other issues presented by theologians and religious leaders from the beginning of the Reformation to the twentieth century.

REL 323. Twentieth-Century Christian Thought. (3-0-3); on demand. Prerequisite: REL 322 or PHIL 200 or consent of instructor. A study of the ideas concerning the nature of God, Jesus, the church, man, sin, salvation, the good life, and other ideas presented by major twentieth-century theologians such as Barth, Bultmann, Tillich, Niebuhr, Wieman, Hartshorne, A.T. Robertson, Karl Rahner, Karl Adam, Thomas Altizer, and Dietrich Bonhoeffer.

REL 476. Special Problems. (1 to 3 hrs.); on demand. Prerequisite: 12 hours in religious studies or consent of the Department of Philosophy. The student selects an approved topic in religion on which to do a directed study.

Personal Development Institute

The Personal Development Institute was established to encourage the development of personal values and standards of moral and ethical character in the men and women who enroll. The objectives of the Personal Development Institute are:

1. To develop in those who attain knowledge and skill, certain intangibles such as confidence, poise, personal appearance, and self-assurance.
2. To assist students in a realistic assessment of themselves and their surroundings.
3. To develop in students the correct set of personality traits such as perseverance and dependability to carry them to the successful completion of any endeavor.
4. To assist students in developing attractive voice quality, good speech habits, and the art of conversation.
5. To identify and better understand the forces that affect the personal development potential of adults in today's changing social, economic, and professional climate.

Description of Course

NOTE: (3-0-3) following the course indicates 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, III indicate the term in which the course is normally offered: I—fall semester; II—spring semester; III—summer term.

PDI 100. Personal Development. (1-0-1); I, II. This is an elective course structured in the Institute format. The course covers such areas as: personality enhancement, attitude improvement, psychology of achievement, visual poise, sharpening social skill, the art of entertaining, voice improvement, speech and conversation, vocabulary expansion, interview preparation, and improved interpersonal relationships.

School of Sciences and Mathematics

Departments

Biological and Environmental Sciences

Mathematical Sciences

Physical Sciences

Intensive basic courses of study in each major field of science and mathematics, coupled with a broad background in related disciplines, prepare Morehead State University graduates for professional opportunities in graduate schools, professional schools, industry, teaching, research, or related fields. Course offerings range from those meeting the general needs of the non-science oriented student to those satisfying the specialized requirements of the graduate student. Curricula are reviewed and revised periodically to incorporate current technologies. Programs are administered by the Department of Biological and Environmental Sciences, the Department of Mathematical Sciences, and the Department of Physical Sciences.

Baccalaureate degree programs

Biology

Chemistry

Earth Science

Environmental Science

Geology

Mathematics

Medical Technology

Physics

Pre-professional programs

Pre-Dentistry

Pre-Engineering

Pre-Medicine

Pre-Optometry

Pre-Pharmacy

Pre-Physical Therapy

Pre-Chiropractic

Associate degree program

Engineering Science

The School of Sciences and Mathematics also offers options for specialization that lead to certification as secondary science teachers. Such certification would result in a Bachelor of Science degree with an area of concentration in science. The secondary science teaching area curriculum can be found at the end of the School of Sciences and Mathematics offerings.

Morehead State University is affiliated with the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. This affiliation provides undergraduate and graduate studies in marine sciences (MSCI) at an established, well-equipped laboratory located on the Gulf of Mexico. Students electing to study at Gulf Coast Research Laboratory do not pay out-of-state tuition. Courses offered at the Laboratory can be found at the end of the School of Sciences and Mathematics offerings.

Department of Biological and Environmental Sciences

The Department of Biological and Environmental Sciences offers comprehensive major and minor programs designed (1) to provide specialized programs sufficient to produce professional biologists; (2) to offer progressive programs of study in environmental science, medical technology, pre-dentistry, pre-medicine, pre-physical therapy, pre-pharmacy, and pre-chiropractic medicine; (3) to produce quality teachers; and (4) to support other departments, divisions, and institutional programs by offering a variety of courses essential to general and specialized areas of study.

Biology

In addition to the pre-professional, environmental science, and medical technology programs described later in this section, the Department of Biological and Environmental Sciences also offers a major in biology and an area in secondary science teaching with a biology emphasis (see the curriculum outlined at the end of the Science Education section). The area is designed for teaching only, while the biology major can be taken for teaching or non-teaching purposes. A teaching minor in biology is possible for those students with a teaching major in another science.

Requirements for the non-teaching biology major and the teaching major are identical, except that teaching majors take the professional semester (student teaching) and five hours of preparatory courses (EDSE 209 and 310), instead of various elective courses. Non-teaching majors, in preparing for professional careers in a number of biological fields, complete courses complementary to their individual goals instead of completing the required preservice teaching.

The area in secondary science teaching with a biology option, a viable alternative to the traditional biology teaching major, was instituted in 1981 to recommend teaching candidates for certification in interdisciplinary science, general science, and junior high school science in addition to biology. This area permits the teaching graduate more latitude. Secondary science teaching area candidates must also complete the educational preparatory courses and the professional semester.

The non-teaching biology major prepares graduates for professional school (medicine, dentistry, chiropractic, pharmacy and physical therapy), graduate school, or jobs in a lucrative market place. Graduates with the B.S. degree find employment in laboratories, quality control, governmental services, and industry.

Requirements for a Major in Biology (teaching or non-teaching)

BIOL 206—Biological Etymology	2
BIOL 208—Invertebrate Zoology	3
BIOL 209—Vertebrate Zoology	3
BIOL 215—General Botany	4
BIOL 304—Genetics	3
BIOL 317—Principles of Microbiology	4
BIOL 337—Comparative Anatomy	4
OR	
BIOL 355—Plant Morphology	3
BIOL 380—Cell Biology	3
BIOL 471—Seminar in Biological Science	1
Biology field course	3
Biology electives (see below)	6
Total hours for a biology major	35

Biology Electives

Students majoring in biology must earn a minimum of 6 semester hours credit from the following:

BIOL 318—Local Flora	3
BIOL 319—Immunology and Serology	3
BIOL 320—Basic Microtechniques	2
BIOL 334—Entomology	3
BIOL 337—Comparative Anatomy	3
BIOL 338—Vertebrate Embryology	3
BIOL 350—Heredity and Society	3
BIOL 355—Population, Resources, and Environment	3
BIOL 356—Environmental Biology	3
BIOL 357—Environmental Testing Methods	3
BIOL 510—Limnology	3
BIOL 513—Plant Physiology	3
BIOL 514—Plant Pathology	3
BIOL 515—Food Microbiology	3
BIOL 518—Pathogenic Microbiology	3
BIOL 519—Virology	3
BIOL 520—Histology	3

BIOL 525—Animal Physiology	3
BIOL 530—Ichthyology	3
BIOL 531—Herpetology	3
BIOL 535—Mammalogy	3
BIOL 537—Ornithology	3
BIOL 540—General Parasitology	3
BIOL 545—Medical Entomology	3
BIOL 550—Plant Anatomy	3
BIOL 551—Plant Natural History	3
BIOL 552—Animal Natural History	3
BIOL 553—Environmental Education	3
BIOL 555—Plant Morphology	3
BIOL 561—Ecology	3
BIOL 575—Scanning Electron Microscopy	2
BIOL 595—Biochemistry I	4
BIOL 596—Biochemistry II	4
*MSCI elective	3

*Three hours of electives from the Gulf Coast Research Laboratory (GCRL), Ocean Springs, Mississippi, may be used to apply towards the biology major. For a complete selection of courses, see the listing outlined at the end of the School of Sciences and Mathematics section. Additional credit may be arranged with other departments and programs. For information, see the Morehead State University on-campus coordinator for GCRL or the head of the department.

Supplemental Requirements (Major)

CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
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
*GEOS 410—Geological History of Plants and Animals	3
MATH 141—Plane Trigonometry or equivalent	3
MATH 152—College Algebra or equivalent	3
	25

*Pre-medical, pre-dental, and other pre-professional students obtaining a major in biology may substitute PHYS 350 (Nuclear Science) for GEOS 410.

Suggested Partial Curriculum (Biology Major)

FRESHMAN YEAR		
	First Semester	Sem. Hrs.
BIOL 208—Invertebrate Zoology		3
ENG 101—Composition I		3
MATH 152—College Algebra or equivalent		3
SPCH 110—Basic Speech		3
PHED—activity course		1
HLTH 150—Personal Health		2
		15

Second Semester		
BIOL 209—Vertebrate Zoology		3
ENG 102 or 192—Composition II or Technical Composition		3
CHEM 101 or 111—General Chemistry I		3
CHEM 101A or 111A—General Chemistry I Lab		1
BIOL 206—Biological Etymology		2
General education elective		3
MATH 141—Plane Trigonometry or equivalent		3
		18

SOPHOMORE YEAR

First Semester		
BIOL 215—General Botany		4
CHEM 102 or 112—General Chemistry II		3
CHEM 102A or 112A—General Chemistry II Lab		1
PHYS 201—Elementary Physics I		3
PHYS 201A—Elementary Physics I Lab		1
ENG—Literature 202, 211, or 212		3
		15

Second Semester		
PHYS 202—Elementary Physics II		3
PHYS 202A—Elementary Physics II Lab		1
General education elective		3
BIOL 304—Genetics		3
Minor		3
Elective		3
		16

Requirements for a Minor in Biology

BIOL 206—Biological Etymology	2
BIOL 208—Invertebrate Zoology	3
BIOL 209—Vertebrate Zoology	3
BIOL 215—General Botany	4
Approved electives in biology	10
Minimum for a minor	22

Supplemental Requirements (Minor)

CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
	8

Environmental 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. The major is primarily designed to produce professionals in a variety of fields, depending upon the option chosen. Private industry, governmental agencies, municipalities, public utilities, and ecological contracting companies are primary sources of employment. Environmental science participates in the Cooperative Field Experiences and Area Health Education System Programs to give students actual work experience before graduation. An environmental science minor is also offered.

Requirements for a Major in Environmental Science (all majors must take the environmental science core)

	Sem. Hrs.
BIOL 355—Population, Resources, Environment	3
BIOL 472—Seminar in Environmental Science	1
BIOL 356—Environmental Biology	3
GEOS 376—Environmental Geology	3
ECON 501—Environmental Economics	3
GOVT 505—Politics of Ecology	3
GEOG 505—Conservation of Natural Resources	3
	19

All environmental science majors are also requested to take certain complementary general education courses to complete University requirements.

Requirements for a Major in Environmental Science with the Ecology Option

Environmental science core courses	19
BIOL 208—Invertebrate Zoology	3
BIOL 209—Vertebrate Zoology	3
BIOL 215—General Botany	4
BIOL 357—Environmental Testing Methods	3
BIOL 510—Limnology	3
BIOL 561—Ecology	3
Elective from Biology 318, 334, 530, 531, 535, or 537	3

Supplemental Requirements

CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
GEOS 240—Oceans	3
MATH 353—Statistics	3

Suggested Partial Curriculum (Ecology Option)**FRESHMAN YEAR****First Semester**

BIOL 208—Invertebrate Zoology	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Lab	1
ENG 101—Composition I	3
SPCH 110—Basic Speech	3
PHED—Activity Course	1
	14

Second Semester

BIOL 209—Vertebrate Zoology	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Lab	1
ENG 192—Technical Composition	3
HLTH 150—Personal Health	2
Elective	3
	15

SOPHOMORE YEAR**First Semester**

BIOL 215—General Botany	4
GEOS 376—Environmental Geology	3
ENG—Literature 202, 211, or 212	3
Minor	3
GEN EDUC—elective	3
	16

Second Semester

BIOL 355—Population, Resources, and Environment	3
GEOS 240—Oceans	3
PHIL 303—Social Ethics	3
Minor	3
GEN EDUC—electives	6
	18

Requirements for a Major in Environmental Science with the Geology Option

Environmental science core courses	19
GEOS 107—Introduction to Geoscience	3
GEOS 100—Physical Geology	1
GEOS 101—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 101-101A (or 111-111A)—General Chemistry I	4
PHYS 201—Elementary Physics I	3
PHYS 201A—Elementary Physics I Laboratory	1
CHEM 102 (or 112)—General Chemistry II	
CHEM 102A (or 112A)—General Chemistry II Lab	
OR	
PHYS 202—Elementary Physics II	3
PHYS 202A—Elementary Physics II Lab	1

Suggested Partial Curriculum (Geology Option)**FRESHMAN YEAR****First Semester**

	Sem. Hrs.
GEOS 107—Introduction to Geoscience	3
GEOS 100—Physical Geology	1
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Lab	1
ENG 101—Composition I	3
SPCH 110—Basic Speech	3
PHED—activity course	1
	15

Second Semester

GEOS 101—Historical Geology	3
CHEM 102—General Chemistry I	
CHEM 102A—General Chemistry I Lab	
OR	
PHYS 201—Elementary Physics I	3
PHYS 201A—Elementary Physics I Lab	1
ENG 192—Technical Composition	3
HLTH 150—Personal Health	2
GEOS 240—Oceans	3
GEN EDUC—elective	3
	18

SOPHOMORE YEAR**First Semester**

CHEM 102—General Chemistry II and	
CHEM 102A—General Chemistry II Lab	
OR	
PHYS 202—Elementary Physics II	3
PHYS 202A—Elementary Physics II Lab	1
GEOS 376—Environmental Geology	3

ENG—literature elective—202, 211, or 212	3
Minor	3
GEN EDUC—elective	3
	16

Second Semester

BIOL 355—Population, Resources, Environment	3
PHIL 303—Social Ethics	3
GEOS—approved elective	3
Minor	3
GEN EDUC—elective	3
	15

Requirements for a Major in Environmental Science with the Social Sciences and Economics Option

Environmental science core courses	Sem. Hrs.	19
GEO 211—Economic Geography	3	
GEO 390—Weather and Climate	3	
ECON 201—Principles of Economics I	3	
ECON 541—Public Finance	3	
GOVT 370—Pressure Groups and Politics	3	
GOVT 540—Public Administration	3	
Social Sciences and Economics electives approved by advisor	12	

Supplemental Requirements

GEOS 240—Oceans	3
BIOL 357—Environmental Testing Methods	3

Suggested Partial Curriculum (Social Sciences and Economics Option)

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
ECON 201—Principles of Economics I	3
GEN EDUC—elective	3
MATH—elective	3
HLTH 150—Personal Health	2
PHED—activity course	1
	15

Second Semester

ENG 192—Technical Composition	3
GEO 211—Economic Geography	3
GEOS 240—Oceans	3
SPCH 110—Basic Speech	3
GEN EDUC—elective	3
	15

SOPHOMORE YEAR

First Semester

GEOS 376—Environmental Geology	3
ENG—Literature 202, 211, or 212	3
GEN EDUC—elective	3
Minor	3
Elective	3
	15

Second Semester

BIOL 355—Population, Resources, Environment	3
GEO 390—Weather and Climate	3
GEN EDUC—elective	3
Minor	6
Elective	3
	18

Requirements for a Major in Environmental Science with the Chemistry and Physics Option

Environmental science core courses	19
CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
CHEM 223—Quantitative Analysis	4
CHEM 460—Instrumental Analysis	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

Supplemental Requirements

GEOS 240—Oceans	3
MATH 353—Statistics	3
BIOL 357—Environmental Testing Methods	3

Suggested Partial Curriculum (Chemistry and Physics Option)

FRESHMAN YEAR

First Semester

CHEM 101 or 111—General Chemistry I	Sem. Hrs.	3
CHEM 101A or 111A—General Chemistry I Lab	1	
ENG 101—Composition I	3	
SPCH 110—Basic Speech	3	
GEN EDUC—elective	3	
PHED—activity course	1	
	14	

Second Semester

CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
ENG 192—Technical Composition	3
HLTH 150—Personal Health	2
Electives	6
	15

SOPHOMORE YEAR

First Semester

PHYS 201—Elementary Physics I	3
PHYS 201A—Elementary Physics I Lab	1
CHEM 223—Quantitative Analysis	4
ENG—Literature 202, 211, or 212	3
Minor	3
GEN EDUC—elective	3
	17

Second Semester

PHYS 202—Elementary Physics II	3
PHYS 202A—Elementary Physics II Lab	1
GEOS 240—Oceans	3
PHIL 303—Social Ethics	3
BIOL 355—Population, Resources, Environment	3
Minor	3
	16

Requirements For a Minor in Environmental Science

GEOS 240—Oceans	3
GEOS 376—Environmental Geology	3
BIOL 355—Population, Resources, Environment	3
BIOL 472—Seminar in Environmental Science	1
BIOL 356—Environmental Biology	3
GOVT 505—Politics of Ecology	3
Electives from PHIL 303, MATH 353, BIOL 357, ECON 501, GEO 505 and BIOL 553 (only one course may be chosen from the last two listed)	6
	22

Medical Technology

Medical technology is one of the newest and fastest-growing professions associated with modern advances in medical science. The medical technologist performs analytical tests on body fluids, cells, and products. The information provided by test results is used by the physician in diagnosing disease, selecting and monitoring treatment, and in counseling for prevention of disease.

Personal attributes necessary for success in this profession include aptitude for physical and biological sciences, dependability, a strong sense of responsibility, and capacity to work well under stress.

Approximately two-thirds of all medical technologists are employed in hospital laboratories. Most others are employed in physicians' offices, private laboratories, clinics, armed forces, city, state, and federal agencies, industrial medical

laboratories, pharmaceutical houses, and in public and private research programs directed toward combating specific diseases.

Admission to an American Medical Association-approved clinical program of medical technology (see below) requires at least 92 semester hours of academic credit at Morehead State University, including appropriate course work in biology, chemistry, and mathematics. This curriculum will culminate in a baccalaureate degree after the clinical year at an accredited school of medical technology has been completed. The professional hospital-based clinical program is 12 months long; it generally follows three academic years at Morehead State University.

Morehead State University is affiliated with the following AMA-approved hospital schools of medical technology:

1. Beckley Appalachian Regional Hospital
Beckley, West Virginia
2. St. Elizabeth Medical Center
Covington, Kentucky
3. Mobile Infirmary
Mobile, Alabama
4. St. Joseph Hospital
Lexington, Kentucky
5. Providence Hospital
Cincinnati, Ohio
6. Cumberland School of Medical Technology
Cookeville, Tennessee
7. Methodist Hospital of Kentucky
Pikeville, Kentucky

Students, with the assistance of their medical technology coordinator, generally 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 2.5 grade-point average), personal interviews, and letters of recommendation. The final decision for admittance into the program will be made by the appropriate school of medical technology. Morehead State University makes every effort to secure each student a position at one of the aforementioned affiliated schools of medical technology.

Most affiliated hospitals charge a nominal fee during the clinical year in order to help defray their 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, that the student will likely incur during their clinical year of training. Grants and/or loans (B.E.O.G. and S.A.T.) are available for eligible students through the University.

Student enrollment at the Beckley Appalachian Regional Hospital is limited to a maximum of five qualified Morehead State University students per year. The other affiliated hospitals do not assume any obligation to accept a minimum number of students each year from Morehead State University. Selection of students is based on open competition.

Upon completion of the four-year program, students take a certifying examination in medical technology. Morehead State University confers upon successful candidates the Bachelor of Science degree with an area 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 Morehead State University.

Medical Technology Curriculum

FRESHMAN YEAR

First Semester

	Sem. Hrs.
ENG 101—Composition I	3
BIOL 208—Invertebrate Zoology	3
CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
MATH 152—College Algebra or equivalent	3
HLTH 150—Personal Health and PHED activity course	3
OR	
HLTH 203—Safety and First Aid	3
	16

Second Semester

ENG 102 or 192—Composition II	3
BIOL 331—Human Anatomy	3
CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
MATH 123—Introduction to Statistics or equivalent	3
BIOL 206—Biological Etymology	2
	15

SOPHOMORE YEAR

First Semester

BIOL 332—Human Physiology	3
BIOL 333—Human Physiology Lab	1
CHEM 326—Organic Chemistry I	3
CHEM 326A—Organic Chemistry I Lab	1
PSY 154—Introduction to Psychology	3
ENG—Literature 202, 211, or 212	3
GEN EDUC—Social and Behavioral Sciences	3
	17

Second Semester

Science elective (see recommended electives below)	3
BIOL 317—Principles of Microbiology	4
CHEM 223—Quantitative Analysis	4
GEN EDUC—Social and Behavioral Sciences	3
SPCH 110—Basic Speech	3
	17

JUNIOR YEAR

First Semester

DATA 202—Computer Programming BASIC	3
BIOL 518—Pathogenic Microbiology	3
CHEM 460—Instrumental Analysis	4
GEN EDUC—Communications and Humanities electives	3
GEN EDUC—Social and behavioral sciences elective	3
	16

Second Semester

BIOL 319—Immunology and Serology	3
BIOL 304—Genetics	3
BIOL 380—Cell Biology	3
BIOL 540—General Parasitology	3
General elective	3
	15

Recommended electives related to program:

BIOL 520—Histology	3
BIOL 595—Biochemistry I	3
CHEM 327—Organic Chemistry II	4
CHEM 327A—Organic Chemistry II Lab	1
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 year of training 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 the medical technology registry:

Immunohematology. Deals with the 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. Total of 58 hours lecture and 106 hours of laboratory.

Medical Microbiology. Includes 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. Total of 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 are included. Films and colored slides augment the lecture-laboratory format. Total of 30 hours lecture and 33 hours laboratory.

Serology and Immunology. Theory and principles of the various serological tests are examined. Methods employed include precipitation, flocculation, hemolysis, and fluorescence. Total of 40 hours lecture and 32 hours laboratory.

Routine Analysis. Laboratory methods used are chemical and microscopic to study gastric, cerebrospinal, urine, pleural, and abdominal body fluids. Related physiology and disease states are studied. Total of 40 hours lecture and 150 hours laboratory.

Clinical Chemistry. Quantitative chemical analyses are performed for the various constituents of blood such as enzymes, electrolytes, carbohydrates, hormones, lipids, and nitrogen compounds. Precision manual techniques as well as a wide variety of instrumental methods are utilized. Quality control is emphasized. A limited amount of toxicology is included. Lectures deal with principles of laboratory tests and physiological reactions in addition to correlation of laboratory findings with disease states. Total of 114 lecture and 180 hours laboratory.

Special Topics. A three-part course in (1) orientation, which includes ethics, professional relationships, the institution and policies, the school program, venipuncture, patient approach, specimen identification, and basic calculation; (2) solutions, which is essentially a condensed elementary review of quantitative analysis, including gravimetric and volumetric procedures and associated calculations; and (3) management, which is a four-day workshop designed by the American Management Association to introduce basic management skills. Total of 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. Total of 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 is also studied. Advanced hematology emphasizes correlation of laboratory test results and clinical findings. Collection of specimens and patient contacts are made from this area. Total of 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-Dentistry

The Council on Dental Education of the American Dental Association has established minimum requirements for admission to dental schools. Basic requirements are built around the successful completion of two full years of work in an accredited liberal arts and sciences college or university. Minimum course requirements include one year of study in each of the areas of English, biology, physics, general chemistry, and at least one semester of organic chemistry. 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.

Pre-Medicine

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. Additional requirements include one year of English and at least one semester of algebra, trigonometry, 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 desirable, but not essential, that the premedical student take advanced courses in chemistry, mathematics, 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.

Pre-Medical and Pre-Dental Suggested Curriculum

FRESHMAN YEAR

First Semester

	Sem. Hrs.
BIOL 208—Invertebrate Zoology	3
ENG 101 or 103—Composition I (placement)	3
EDEL 110—Developmental Reading	3
MATH—(placement)	3-4
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
	16-17

Second Semester

BIOL 209—Vertebrate Zoology	3
ENG 102 or 192—Composition II or Technical Composition	3
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
BIOL 206—Biological Etymology	2
PHED—activity	1
MATH—elective	3-4
	16-17

SOPHOMORE YEAR

First Semester

BIOL 215—General Botany	4
CHEM 326—Organic Chemistry I	3
CHEM 326A—Organic Chemistry I Lab	1
HLTH 150—Personal Health	2
PHYS 201—Elementary Physics I	3
PHYS 201A—Elementary Physics I Lab	1
ENG—Literature 202, 211, or 212	3
	17

Second Semester

BIOL 304—Genetics	3
PHYS 202—Elementary Physics II	3
PHYS 202A—Elementary Physics II Lab	1
CHEM 327—Organic Chemistry II	3
CHEM 327A—Organic Chemistry II Lab	1
BIOL 337—Comparative Anatomy	3
GEN EDUC—elective	3
	17

JUNIOR YEAR

First Semester	
BIOL 338—Vertebrate Embryology	3
CHEM 441—Physical Chemistry	3
PSY 154—Introduction to Psychology	3
MATH 175—Analytic Geometry & Calculus	
OR	
MATH 353—Statistics	3-4
SPCH 110 or 370—Basic or Business and Professional Speech	3
	15-16

Second Semester	
BIOL 317—Principles of Microbiology	4
BIOL 380—Cell Biology	3
CHEM 223—Quantitative Analysis	
OR	
CHEM 460—Instrumental Analysis	4
PHYS 350—Nuclear Science	4
	15

SENIOR YEAR

First Semester	
BIOL 595—Biochemistry I	4
GEN EDUC—Social and behavioral sciences elective	6
Approved advanced science elective	3-4
BIOL—elective field course	3
	16-17

Second Semester	
BIOL 471—Seminar in Biological Science	1
GEN EDUC—Communications and humanities elective	3
Electives	6
Approved advanced science electives	6-7
	16-17

Pre-Pharmacy Program

The schedule below is a suggested program of pre-pharmacy study which 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 the two-year pre-pharmacy program. Three additional years are required to complete pharmacy school.

Suggested Curriculum

FRESHMAN YEAR

First Semester		Sem. Hrs.
CHEM 101 or 111—General Chemistry I	3	
CHEM 101A or 111A—General Chemistry I Lab	1	
BIOL 208—Invertebrate Zoology	3	
ENG 101—Composition I	3	
GEN EDUC—electives	6	
		16

Second Semester		
BIOL 209—Vertebrate Zoology	3	
ENG 102 or 192—Composition II or Technical Composition	3	
CHEM 102 or 112—General Chemistry II	3	
CHEM 102A or 112A—General Chemistry II Lab	1	
MATH 175—Analytic Geometry & Calculus I	4	
GEN EDUC—elective	3	
		17

SOPHOMORE YEAR

First Semester		
BIOL 317—Principles of Microbiology	4	
BIOL 206—Biological Etymology	2	
PHYS 201—Elementary Physics I	3	
PHYS 201A—Elementary Physics I Lab	1	
CHEM 326—Organic Chemistry I	3	
CHEM 326A—Organic Chemistry I Lab	1	
ECON 201—Principles of Economics I	3	
		17

Second Semester		
PHYS 202—Elementary Physics II	3	
PHYS 202A—Elementary Physics II Lab	1	
CHEM 327—Organic Chemistry II	3	
CHEM 327A—Organic Chemistry II Lab	1	
GEN EDUC—electives	9	
		17

Pre-Physical Therapy

Students who plan to take a degree in physical therapy should consult the catalog of the school of physical therapy they plan to attend to be certain that they fulfill the requirements of the chosen school. Most schools of physical therapy require 60 to 65 hours of course work in a pre-physical therapy program.

The schedule below is a suggested curriculum and may be varied according to individual preferences.

Suggested Curriculum

FRESHMAN YEAR

First Semester		Sem. Hrs.
ENG 101—Composition I	3	
PSY 154—Introduction to Psychology	3	
CHEM 101 or 111—General Chemistry I	3	
CHEM 101A or 111A—General Chemistry I Lab	1	
MATH 152—College Algebra	3	
BIOL 208—Invertebrate Zoology	3	
		16

Second Semester		
ENG 102 or 192—Composition II or Technical Composition	3	
PSY 156—Life-Span Developmental Psychology	3	
CHEM 102 or 112—General Chemistry II	3	
CHEM 102A or 112A—General Chemistry II Lab	1	
BIOL 209—Vertebrate Zoology	3	
MATH 152—Plane Trigonometry OR equivalent	3	
		16

SOPHOMORE YEAR

First Semester		
BIOL 331—Human Anatomy	3	
PHYS 201—Elementary Physics I	3	
PHYS 201A—Elementary Physics I Lab	1	
*Electives	6-9	
		13-16

Second Semester		
BIOL 337—Comparative Anatomy	3	
PHYS 202—Elementary Physics II	3	
PHYS 202A—Elementary Physics II Lab	1	
*Electives	6-9	
		13-16

*It is recommended that electives include courses in statistics, typing, mathematics, and medical terminology.

Pre-Chiropractic

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.

Suggested Curriculum

FRESHMAN YEAR

First Semester		Sem. Hrs.
ENG 101—Composition I	3	
CHEM 101 or 111—General Chemistry I	3	
CHEM 101A or 111A—General Chemistry I Lab	1	
BIOL 208—Invertebrate Zoology	3	
MATH 152—College Algebra	3	
PHED—activity course	1	
HLTH 150—Personal Health	2	
		16

Second Semester		
ENG 102 or 192—Composition II OR Technical Composition	3	
CHEM 102 or 112—General Chemistry II	3	
CHEM 102A or 112A—General Chemistry II Lab	1	

BIOL 209—Vertebrate Zoology	3
MATH 141—Plane Trigonometry	3
GEN EDUC—elective	3
	16

SOPHOMORE YEAR

First Semester

ENG—Literature 202, 211, or 212	3
PHYS 201—Elementary Physics I	3
PHYS 201A—Elementary Physics I Lab	1
PSY 154—Introduction to Psychology	3
ECON 201—Principles of Economics I	3
HIS 131—Introduction to Civilization I	3
GOVT 141—Government of United States	2
Elective	18

Second Semester

GEN EDUC—elective	3
PHYS 202—Elementary Physics II	3
PHYS 202A—Elementary Physics II Lab	1
PSY 590—Abnormal Psychology	3
SOC 101—General Sociology	3
GOVT 141—Government of United States	3
Elective	2
	18

Description of Courses

Note: Field courses are designated with an (*). (3-0-3) following course title indicates 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally offered: I—fall; II—spring; and III—summer.

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.

BIOL 150. Introductory Plant Science. (2-2-3); I. A beginning course in plant science dealing with structure, growth, reproduction, and ecology of plants. Emphasis on cultivated plants and agriculture applications. (Course will NOT be accepted for biology majors and minors.)

BIOL 199. Selected Workshop Topics. (1 to 4 hrs.); on demand. Prerequisites: Variable. Workshops in various biological and environmental subjects will be presented periodically, based on need. Usually hands-on, experimental, and/or innovative, these workshops are designed to 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 207. Biological Illustration. (3-0-3); I, II. Techniques of representation with pen and ink, blackboard, and photography; illustrative procedure for classroom and publication.

BIOL 208. Invertebrate Zoology. (2-2-3); I, II. Basic principles: morphology, physiology, embryology, composition, and metabolism; general characteristics, life histories, taxonomy, ecology, and evolution of the invertebrates.

BIOL 209. Vertebrate Zoology. (2-2-3); I, II. Prerequisite: BIOL 208. General characteristics, anatomy, physiology, taxonomy, ecology, and evolution of the vertebrates.

BIOL 215. General Botany. (2-4-4); I, II, III. 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); II, III. An elementary microbiology course for students interested in understanding the characteristics and activities of microorganisms and their relationship to health and disease. Course will not be accepted as credit for biology majors.

BIOL 218. Elementary Laboratory Microbiological Techniques. (0-2-1); I. A laboratory course including exercises allowing students to obtain first-hand knowledge of microbiological techniques employed in a clinical laboratory. Proper laboratory techniques and use of equipment will be emphasized. Course will not be accepted as credit for the biology major.

BIOL 304. Genetics. (2-2-3); I, II. Prerequisites: BIOL 209 and 215. Mendelism, chromosomes and heredity, gene theory, cytological and physiological analyses, and population genetics.

BIOL 313. Economic Botany. (3 hours credit). Prerequisite: BIOL 215. 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 209 and CHEM 102-102-A or 112-112-A. Identification and classification of bacteria; morphology; distribution of microorganisms; cultivation, observation, methods of examination, and physiology of microorganisms; fermentation and decay; health.

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 319. Immunology and Serology. (2-2-3); II. Prerequisite: BIOL 317. Lecture material will provide the student with a basic, yet thorough, understanding of immunological and serological principles. The laboratory will enhance student abilities in serological techniques.

BIOL 320. Basic Microtechniques. (0-4-2); on demand. Prerequisites: BIOL 209 and CHEM 101-101-A or 111-111-A. Techniques for preparing plant and animal tissues for microscopic study; preparation of microscopic slides.

BIOL 331. Human Anatomy. (3-0-3); I, II, III. Prerequisite: BIOL 105 or equivalent or consent of instructor. Human organism with emphasis on gross morphology. Course will NOT be accepted as credit for biology majors.

BIOL 332. Human Physiology. (3-0-3); I, II, III. Prerequisite: BIOL 331 or equivalent. Physiology of the various systems of the human body as particularly related to health. Course will NOT be accepted as credit for biology majors.

BIOL 333. Laboratory for Human Physiology. (0-2-1); I, II, III. Prerequisites: BIOL 332 or equivalent (may be taken concurrently). Includes fundamental physiological principles with an emphasis on laboratory technique, equipment usage, and clinical applications. Course will not be accepted as credit for biology majors.

BIOL 334. Entomology. (2-2-3); II*. Prerequisite: BIOL 208. General structure of insects, life histories, common orders and families; insects in relation to man. Insect collection required.

BIOL 337. Comparative Anatomy. (1-4-3); I. Prerequisite: BIOL 209. Vertebrate structure based on the recognition of morphological deviation in body plans.

BIOL 338. Vertebrate Embryology. (2-2-3); I, II. Prerequisite: BIOL 209. 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 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, III. Prerequisite: BIOL 355 or consent of instructor. Basic ecological principles and population and community ecology are discussed 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); II. Prerequisite: consent of instructor. The study of methods used in determining water quality and air and noise pollution levels. The course will include 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. Prerequisites: BIOL 209 and CHEM 102-102-A or 112-112-A. 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 will be presented periodically, based on need. Usually hands-on, experimental, and/or innovative, these workshops are designed to 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 471. Seminar in Biological Science. (1-0-1); I, II. Prerequisite: senior standing. Designed to give the student an introduction to research and literature in the biological sciences.

BIOL 472. Seminar in Environmental Science. (1-0-1); I, II. Prerequisite: senior standing. Designed to give the student an introduction to research and literature in the environmental 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 510. Limnology. (1-4-3); I, III*. Prerequisites: BIOL 209, 215, and CHEM 102-102-A or 112-112-A. Characteristics of fresh water conditions, including chemical and physical effects, seasonal changes, thermocline development, and pressure in the ecology of aquatic forms.

BIOL 513. Plant Physiology. (2-2-3); on demand. Prerequisites: BIOL 215 and CHEM 112 and 112-A or equivalent. Diffusion, osmosis, cell wall and membrane structure, mineral nutrition, photosynthesis, respiration, macromolecules, photoperiodism, and other aspects of plant growth and development.

BIOL 514. Plant Pathology. (1-4-3); on demand. Prerequisite: BIOL 215. Plant diseases; classification of fungi; diseases caused by rusts, smuts, fleshy fungi, bacteria, and viruses; physiogenic diseases; principles and procedures in the control of plant diseases; resistant varieties and culture control.

BIOL 515. Food Microbiology. (1-4-3); on demand. Prerequisite: BIOL 217 or 317. Microbiology of food production, food spoilage, and food-borne diseases.

BIOL 518. Pathogenic Microbiology. (2-2-3); I. Prerequisite: BIOL 217 or 317. A study of disease-causing microorganisms, with an emphasis on bacteria and fungi. The isolation, cultivation, and identification of pathogenic microorganisms from clinical specimens are stressed. Antimicrobial susceptibility tests, serological methods, and quality control are also 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. Prerequisite: BIOL 209. Characteristics of tissues and organs of vertebrates.

BIOL 525. Animal Physiology. (2-2-3); I. Prerequisite: CHEM 112 and 112-A or equivalent. Comparison of fundamental physiological processes in representative invertebrate and vertebrate animals. Emphasis will be placed on comparative energetics and physiological adaptations of organisms to their environment.

BIOL 530. Ichthyology. (1-4-3); II in even years*. Prerequisite: BIOL 209. The anatomy, physiology, taxonomy, ecology, distribution, natural history, and evolution of fish. Emphasis will be placed on collection, identification, and classification of those fresh water fish native to eastern North America. Common marine fish of the Atlantic and Gulf coasts will also be studied.

BIOL 531. Herpetology. (1-4-3); II in odd years*. Prerequisite: BIOL 209. The anatomy, physiology, taxonomy, ecology, distribution, natural history, and evolution of amphibians and reptiles. Emphasis will be placed on collection, identification, and classification of those herptiles found in eastern North America.

BIOL 535. Mammalogy. (1-4-3); I*. Prerequisite: BIOL 209. Mammals of eastern North America with emphasis on mammals of southeastern North America. Taxonomy, adaptation, natural history, and methods of skin preparation.

BIOL 537. Ornithology. (1-4-3); II*. Prerequisite: BIOL 209. Anatomy, physiology, classification, and identification of birds; life histories, habits, migration, and economic importance of native species.

BIOL 540. General Parasitology. (1-4-3); II. Prerequisite: BIOL 209. Protozoan, helminth, and arthropod parasites of man and domestic animals; emphasis on etiology, epidemiology, diagnosis, control, and general life histories of parasites.

BIOL 545. Medical Entomology. (2-2-3); I. Prerequisite: BIOL 334 or consent of instructor. Arthropod vectors of diseases with special emphasis on insects of medical importance. Anatomy, physiology, identification, ecology, and control measures.

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 551. Plant 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 plants.

BIOL 552. 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 553. Environmental Education. (2-2-3); III*. Prerequisite: consent of instructor. A study of the 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. (Especially designed for in-service and pre-service teachers.)

BIOL 555. Plant Morphology. (2-2-3); II. Prerequisite: BIOL 215. A study of fossil and living non-vascular plants (except bacteria) and vascular plants; emphasis on ecology, morphology, and evolution.

BIOL 561. Ecology. (2-2-3); I*. Prerequisites: BIOL 209 and 215. Energy flow, biochemical cycles, limiting factors, and ecological regulators at the population, community, and ecosystem levels.

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 575. Scanning Electron Microscopy. (1-2-2); II. Brief description of the theory of the electron gun, the magnetic control of the electron pathways, and variations in electron microscope construction. The major portion of the course will be concerned with the preparation of specimens and actual application of the scanning electron microscope.

BIOL 580. History of Science. (3-0-3); on demand. See SCI 580.

BIOL 595. Biochemistry I. (2-4-4); I, III. Prerequisite: CHEM 326 and 326A or consent of instructor. Carbohydrates, lipids, and proteins; intermediary metabolism; protein synthesis; enzymology; blood chemistry; bioenergetics; fluid electrolyte balance; and vitamin and steroid chemistry.

BIOL 596. Biochemistry II. (2-4-4); II. Prerequisite: BIOL 595. Continuation of Biochemistry I. Intermediary metabolism of carbohydrates, lipids, proteins, and nucleic acids; function and mechanism of action of enzymes, energetics of living systems; and regulation of life processes.

BIOL 599. Selected Workshop Topics. (1 to 4 hrs.); on demand. Prerequisites: variable. Workshops in various biological and environmental subjects will be presented periodically, based on need. Usually hands-on, experimental, and/or innovative, these workshops are designed to 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.

Mathematical Sciences

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.

Statement Regarding Placement in Mathematics

The faculty members in the department recognize that students come to the University with a wide range of skills in mathematics. In order to best select the courses in mathematics, a student should complete the Profile for Placement in Mathematics during an orientation session. The student may then select a course after consulting with a faculty advisor.

The advisor will assist the student in selecting a course which meets any special degree requirements or objectives of the student. It may be necessary for a student to take one or more developmental courses in order to adequately prepare for a required course. However, a student should take an advanced course in mathematics if there is indication of above average preparation or skill in mathematics, as well as the desire to do so.

Before enrolling for a course, a student should make sure that all prerequisites for the course have been successfully completed.

Mathematics and Computer Programming

There are three aspects of computing at the university—business data processing, mathematics and computer programming, and electronics technology. The degree in mathematics and computer programming seeks to prepare students to enter the job market as

- i. Scientific Programmers—persons aware of computing methods, mathematics, statistics, and an applications area. Scientific programmers usually write programs to solve industrial problems. They usually work as a part of a team involved in research or problem solving.
- ii. Systems Programmers—persons aware of mathematics and computing who develop software which manages the operation of a computer. Systems programmers work for computer manufacturers or companies which have large computer facilities.

Students interested in the preceding areas should pursue the degree in mathematics and computer programming listed below. Those interested in data processing in business or the electronics aspect of computers should follow the program of study for the respective area listed elsewhere in this catalog.

Requirements for the Area of Study in Mathematics and Computer Programming

	Sem.	Hrs.
MATH 175—Analytic Geometry and Calculus I	4	
MATH 252—Boolean Algebra	3	
MATH 275—Analytic Geometry and Calculus II	4	
MATH 276—Analytic Geometry and Calculus III	4	

MATH 301—Elementary Linear Algebra	3
MATH 304—Math Logic and Set Theory	3
MATH 312—Numerical Analysis	3
MATH 353—Statistics	3
MATH 363—Differential Equations	3
DATA 201—Introduction to Computers	3
DATA 202—Computer Programming BASIC	3
DATA 210—Computer Programming ASSEMBLER I	3
DATA 216—Programming in PL/I	3
DATA 260—FORTRAN Programming I	3
DATA 316—Advanced PL/I Programming	3
DATA 320—Computerized Business Systems	3
DATA 526—Data Base Management Systems	3
Electives in physics, electronics, or advanced data processing courses as approved by the head, Department of Mathematical Sciences	9
	63

The student may follow the general outline of courses for a major in mathematics listed below, taking courses in DATA where minor is listed.

Requirements for a Major in Mathematics

	Sem. Hrs.
MATH 175—Analytic Geometry and Calculus I	4
MATH 275—Analytic Geometry and Calculus II	4
MATH 471—Seminar	1
Electives in mathematics above 170 except MATH 231, 232, 252, and 260	7
Electives in mathematics above 300 as approved by the head of the Department of Mathematical Sciences	14
	30
DATA 202—Computer Programming BASIC	3

Suggested Program

The following program outline is intended to help students in arranging their course schedule. Close adherence will assist in meeting requirements for graduation.

FRESHMAN YEAR

	First Semester	Sem. Hrs.
ENG 101—Composition I (OR ENG 103)		3
MATH 175—Analytic Geometry and Calculus I		4
DATA 202—Computer Programming BASIC		3
PHED—activity course		1
HLTH 150—Personal Health		2
Biological Science elective		3
		16

	Second Semester	Sem. Hrs.
ENG 102—Composition II (OR ENG 192)		3
MATH 275—Analytic Geometry and Calculus II		4
PHED—activity course		1
HIST 131, 132, 141, or 142		3
Physical Science elective		3
Minor		3
		16

SOPHOMORE YEAR

	First Semester	Sem. Hrs.
MATH 276—Analytic Geometry and Calculus III		3
OR		
MATH elective		3-4
MATH 304—Math Logic and Set Theory		3
HUM—literature elective (ENG 202, 211, or 212)		3
SOC 101, 170, 203, or PSY 154		3
Minor		3
		15-16

	Second Semester	Sem. Hrs.
SPCH 110 or 370		3
GOVT 141, 242, or 310		3
MATH—elective		3
Minor		3
General electives		4
		16

Requirements for a Minor in Mathematics

MATH 175—Analytic Geometry and Calculus I	4
MATH 275—Analytic Geometry and Calculus II	4
Electives in math above 170 except MATH 231, 232, 252, and 260	7
Electives in math above 300 as approved by the head of the Department of Mathematical Sciences	6
DATA 202—Computer Programming BASIC	3
	21

For a Minor in Statistics

A student should consult the head of the Department of Mathematical Sciences for approval of one of the following:

OPTION I

MATH 123—Introduction to Statistics	3
MATH 132—General Mathematics II	3
MATH 260—Fortran Programming	3
MATH 301—Elementary Linear Algebra	3
MATH 353—Statistics	3
MATH 553—Statistical Methods	3
MATH 555—Nonparametric Statistics	3
	21

OPTION II

MATH 301—Elementary Linear Algebra	3
MATH 312—Numerical Analysis	3
MATH 353—Statistics	3
MATH 519—Probability	3
MATH 520—Mathematical Statistics	3
MATH 553—Statistical Methods	3
MATH 555—Nonparametric Statistics	3
	21

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

MATH 091. Beginning Algebra. (3-0-3); I, II, III. Prerequisite: placement indicated by the Profile for Placement in Mathematics. A first course in algebra for students who have had 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.

MATH 093. Intermediate Algebra. (3-0-3); I, II, III. Prerequisite: Algebra I in secondary school or MATH 091 and placement indicated by the Profile for Placement in Mathematics. This is 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.

MATH 110. Problem Solving Techniques. (1-0-1); I, II. A basic course emphasizing problem interpretation, translation, and solution. Hand-held electronic calculators are used for the solution of problems.

MATH 123. Introduction to Statistics. (3-0-3); I, II. Basic concepts of probability, sampling, and the algebra of events. Properties of selected discrete and continuous distributions.

MATH 131. General Mathematics I. (3-0-3); I, II, III. A survey course which includes topics from the different specialties in mathematics; to include counting and numeration, consumer mathematics, sequences, geometry, probability and statistics, and computers.

MATH 132. General Mathematics II. (3-0-3); II. A survey course in finite mathematics to include operations research, mathematics of gambling, matrices, theory of games and simulation.

MATH 135. Mathematics for Technical Students. (3-0-3); I, II, III. Practical mathematics as applied to technical programs to include a study of fractions, ratio and proportion, percentage, elementary algebra, formulae, volumes, and right triangle trigonometry.

MATH 141. Plane Trigonometry. (3-0-3); I, II, III. Prerequisite: MATH 152 or placement indicated by the Profile for Placement in Mathematics. Trigonometric functions, trigonometric identities, inverse functions, and applications.

MATH 152. College Algebra. (3-0-3); I, II, III. Prerequisite: placement indicated by the Profile for Placement in Mathematics or MATH 093. 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); I, II. Prerequisite: High School Algebra II or equivalent. A course consisting of an introduction to finite mathematics and calculus. Systems of linear equalities and inequalities, matrix algebra, linear programming, differentiation and integration; applications.

MATH 173. Pre-Calculus Mathematics I. (3-0-3); I. Sets of logic; relations and functions; number systems through the reals; systems of equations.

MATH 174. Pre-Calculus Mathematics II. (3-0-3); I. Exponential, logarithmic, and trigonometric function; complex numbers, theory of equations; sequences and series.

MATH 175. Analytic Geometry and Calculus I. (4-0-4); I, II. Prerequisite: placement indicated by the Profile for Placement in Mathematics or credit in MATH 152 and MATH 141. 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. (For elementary teachers only.) Number systems, primes, and divisibility; fractions.

MATH 232. Mathematics for the Elementary Teacher II. (3-0-3); I, II, III. (For elementary teachers only.) Prerequisite: Mathematics 231. Algebraic sentences; real numbers; geometry of measurement; mathematical systems; methods of presentation of mathematical concepts.

MATH 252. Boolean Algebra. (3-0-3); I. 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); II. Prerequisites: DATA 202 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. Prerequisites: MATH 175 and DATA 202. 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. Differential equations; vectors; differential calculus of functions of several variables; multiple integration; vector calculus.

MATH 301. Elementary Linear Algebra. (3-0-3); I. Prerequisite: MATH 175. Vector spaces; determinants; matrices; linear transformations; eigenvectors.

MATH 304. Mathematical Logic and Set Theory. (3-0-3); I. Propositional calculus; sets; relations; functions; Boolean algebras; cardinality.

MATH 310. Calculus IV. (3-0-3); II. Prerequisite: MATH 275. Algebraic and topological properties of the reals; limits and continuity; differentiation; infinite series; Riemann integration.

MATH 312. Numerical Analysis. (3-0-3); II. 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 350. Introduction to Higher Algebra. (3-0-3); II. Prerequisite: MATH 304. Groups, rings, integral domains, related topics.

*MATH 353. Statistics. (3-1-3); I, II, III. Prerequisite: high school Algebra II or equivalent. Introduction to basic 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 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 372. College Geometry. (3-0-3); I. Prerequisite: MATH 175. Rigorous development of elementary geometry as a logical system based upon postulates and undefined terms.

MATH 373. Principles and Techniques of Mathematics. (3-0-3); I. Prerequisite: MATH 275. For prospective teachers of secondary mathematics. Material from advanced mathematics extends topics of high school mathematics.

MATH 391. Classical Mechanics. (4-0-4); I in alternate years. See PHYS 391.

MATH 481. Mathematical Physics. (3-0-3); on demand. See PHYS 481.

MATH 504. Topology. (3-0-3); II. Prerequisites: MATH 304 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); I. 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); I. 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 519. Probability. (3-0-3); I. Prerequisite: MATH 275. A first course in mathematical probability and its applications to statistical analysis.

MATH 520. Mathematical Statistics. (3-0-3); II. Prerequisite: MATH 519. Hypothesis testing and estimation; bivariate and multivariate distributions; order statistics; test of fit; nonparametric comparison of locations; distribution theory.

MATH 553. Statistical Methods. (3-0-3); I. Prerequisite: MATH 353. A second course in basic statistical methods with applications. Analysis of variance; general regression analysis; hypothesis testing; confidence intervals.

MATH 555. Nonparametric Statistics. (3-0-3); II. Prerequisite: MATH 353. A course in basic nonparametric statistical methods with applications.

MATH 573. Projective Geometry. (3-0-3); III. Prerequisite: MATH 372 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. 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); I. 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); II. 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. Mathematics Curriculum Workshop. (1 to 6 hrs.); III. Prerequisite: consent of instructor. New curricula development in mathematics.

*A student may receive credit toward graduation in only one—MATH 353 or 354.

Department of Physical Sciences

The Department of Physical Sciences administers baccalaureate degree programs in chemistry, earth science, geology, and physics. A cooperative dual-degree program in engineering is offered in conjunction with the University of Kentucky. An associate degree program in engineering science and pre-professional programs in engineering and optometry are also available.

The Center for Science Education is housed in the Department of Physical Sciences.

Chemistry

Chemistry offers two kinds of majors: the professional major for those students committed to becoming practicing chemists, and the non-professional major for those wishing to teach in secondary schools or for those who desire strong support in chemistry for other specific pursuits such as medicine.

The chemistry program attempts: (1) to educate students both in chemical theory and in laboratory techniques to the degree required for professional chemists or 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.

Requirements for a Major in Chemistry (for those students planning to become professional chemists)

	Sem. Hrs.
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
CHEM 223—Quantitative Analysis	4
CHEM 326—Organic Chemistry I	3
CHEM 326A—Organic Chemistry I Lab	1
CHEM 327—Organic Chemistry II	3
CHEM 327A—Organic Chemistry II Lab	1
CHEM 328—Organic Chemistry III	3
CHEM 328A—Organic Chemistry III Lab	2
CHEM 350—Inorganic Chemistry	3
CHEM 441—Physical Chemistry I	3
CHEM 442—Physical Chemistry II	4
CHEM 450—Qualitative Organic Analysis	4
CHEM 460—Instrumental Analysis	4
SCI 471—Seminar	1
	44

Supplemental Requirements

	Sem. Hrs.
MATH 175—Analytic Geometry & Calculus I	4
MATH 275—Analytic Geometry & Calculus II	4
MATH 276—Analytic Geometry & Calculus III	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
GER 101—Beginning German I	3
GER 102—Beginning German II	3
DATA 202—Computer Programming BASIC	3

This curriculum is designed to meet the standards of the American Chemical Society. However, students can elect to follow a 32-semester-hour major in chemistry that is suitable for teacher certification.

For a Major in Chemistry (for supportive purposes)

32 hrs. in chemistry approved by advisor, including
 CHEM 111, 111A, 112, 112A, 223, 326, 326A, 460, and SCI 471 32

For a Minor in Chemistry

21 hrs. in chemistry approved by department head,
 including CHEM 223 (or 460), 326, and 326A 21

Suggested Program

The following program outline is intended to help students in arranging their course schedules. Close adherence will assist in meeting requirements for graduation.

Professional Chemistry Major**FRESHMAN YEAR****First Semester**

	Sem. Hrs.
ENG 101—Composition I	3
GER 101—Beginning German I	3
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
MATH 175—Analytic Geometry and Calculus I	4
PHED—activity course	1
	15

Second Semester

ENG 102—Composition II	3
GER 102—Beginning German II	3
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
MATH 275—Analytic Geometry and Calculus II	4
HLTH 150—Personal Health	2
	16

SOPHOMORE YEAR**First Semester**

CHEM 223—Quantitative Analysis	4
MATH 276—Analytic Geometry and Calculus III	4
PHYS 231—Engineering Physics I	4
PHYS 231A—Engineering Physics I Lab	1
SPCH 110—Basic Speech	3
	16

Second Semester

ENG—literature elective	3
CHEM—chemistry elective	3
CHEM 350—Inorganic Chemistry I	3
PHYS 232—Engineering Physics II	4
PHYS 232A—Engineering Physics II Lab	1
Social Science elective	3
	17

*If teacher certification is desired, consult your advisor.

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring, III—summer.

CHEM 100. Basic Chemistry. (3-0-3); I, II, III. A survey of chemistry with emphasis on health and life processes.

CHEM 100A. Basic Chemistry Laboratory. (0-2-1); I, II, III. Must take concurrently with CHEM 100. Laboratory for CHEM 100.

CHEM 101. General Chemistry I. (3-0-3); I, II, III. Atomic theory, oxygen, hydrogen, metals, non-metals, acids, bases, salts, and periodic arrangement of the elements.

CHEM 101A. General Chemistry I Laboratory. (0-2-1); I, II, III. Prerequisite or corequisite: CHEM 101. Laboratory for CHEM 101.

CHEM 102. General Chemistry II. (3-0-3); I, II, III. Prerequisite: CHEM 101. Continuation of CHEM 101. Major emphasis on introduction to organic chemistry and topics relating to foods, nutrition, and textiles.

CHEM 102A. General Chemistry II Laboratory. (0-2-1); I, II, III. Prerequisite or corequisite: CHEM 102. Laboratory for CHEM 102.

CHEM 111. General Chemistry I. (3-0-3); I, II. Prerequisite: MATH 152 (or equivalent) or ACT MATH score over 15. Stoichiometry and chemical equations, electronic structure of atoms and molecules, periodic relations, gas laws, phases of pure substances and phase equilibria, and properties of solutions.

CHEM 111A. General Chemistry I Laboratory. (0-2-1); I, II, III. Prerequisite or corequisite: CHEM 111. Laboratory for CHEM 111.

CHEM 112. General Chemistry II. (3-0-3); I, II. Prerequisite: CHEM 111. Continuation of CHEM 111. Kinetics, equilibria, electrochemistry, and descriptive chemistry of selected groups of elements.

CHEM 112A. General Chemistry II Laboratory. (0-2-1); I, II. Prerequisite or corequisite: CHEM 112. Laboratory for CHEM 112.

CHEM 223. Quantitative Analysis. (1-6-4); I. Prerequisites: CHEM 112 and 112A or consent of instructor. Principles and practice of gravimetric and volumetric analysis. Introduction to potentiometric, coulometric, and colorimetric methods of analysis.

CHEM 326. Organic Chemistry I. (3-0-3); I, II, III. Prerequisite: CHEM 102 and 102A or 112 and 112A. Homologous series of alkanes, alkenes, alkynes, alicyclic compounds, benzenoid compounds, alcohols, phenols, and molecular structure.

CHEM 326A. Organic Chemistry I Laboratory. (0-2-1); I, II, III. Must take concurrently with CHEM 326. Laboratory for CHEM 326.

CHEM 327. Organic Chemistry II. (3-2-4); I, II, III. Prerequisite: CHEM 326. Continuation of CHEM 326. Aldehydes, ketones, acids, and compounds of biological interest.

CHEM 327A. Organic Chemistry II Laboratory. (0-2-1); I, II, III. Must take concurrently with CHEM 327. Laboratory for CHEM 327.

CHEM 328. Organic Chemistry III. (3-4-5); II in alternate years. Prerequisite: CHEM 327. Special topics of organic chemistry; molecular rearrangements, orbital symmetry, heterocyclics, carbanion reactions, and macromolecules.

CHEM 328A. Organic Chemistry III Laboratory. (0-4-2); II. Must take concurrently with CHEM 328. Laboratory for CHEM 328.

CHEM 350. Inorganic Chemistry. (3-0-3); I in alternate years. Prerequisite: CHEM 112 and 112A. Electronic structure and bonding in inorganic compounds. Physical properties related to structure and acid-base theories.

CHEM 410. Spectral Interpretation in Chemical Analysis. (2-0-2); on demand. Prerequisite: CHEM 326. Methods used in the interpretation of nuclear magnetic resonance spectra, mass spectra, infrared and ultraviolet spectra of inorganic and organic molecules.

CHEM 441. Physical Chemistry I. (3-0-3); I. Prerequisites: CHEM 223 or 327; MATH 175; PHYS 202 or 232. Introduction to physical chemistry; thermodynamics, chemical kinetics, and quantum chemistry.

CHEM 442. Physical Chemistry II. (3-2-4); II in alternate years. Prerequisite: CHEM 441; corequisite: MATH 276. Advanced discussion of selected topics from thermodynamics, chemical kinetics, and quantum chemistry.

CHEM 450. Qualitative Organic Analysis. (2-4-4); II in alternate years. Prerequisite: CHEM 327. Qualitative analysis of organic compounds; physical and chemical methods.

CHEM 460. Instrumental Analysis. (2-4-4); I, II. Prerequisites: CHEM 223 and 326. Theory and practice of infrared, ultra-violet, visible, mass, and nuclear magnetic resonance spectroscopy. Atomic absorption and emission spectroscopy, chromatography, and electrochemical methods of analysis.

Geoscience

Kentucky is an important mining state and a significant producer of oil and gas. As such, the attention of its residents has been directed to problems related to the exploration for, and the development and conservation of, earth materials. Interest is further stimulated by the fact that the region abounds in excellent examples of geologic phenomena.

The geoscience program attempts: (1) to train students for careers as professional geologists in industry and county, state, and federal programs; (2) to prepare earth-science teachers for the public schools; (3) to prepare students to enter graduate school; or (4) to offer supportive courses needed by students in other disciplines.

Requirements for a Major in Geology

	Sem. Hrs.
GEOS 100—Physical Geology	1
GEOS 101—Historical Geology	3
GEOS 107—Introduction to Geoscience	3
GEOS 262—Mineralogy	4
GEOS 300—Petrology	3
GEOS 315—Stratigraphy and Sedimentation	4
GEOS 325—Structural Geology	3
GEOS 379—Paleontology	4
GEOS 400—Field Methods (or Summer Geology Field Camp)	3
GEOS—electives approved by advisor	3
SCI 471—Seminar	1
	32

Supplemental Requirements

	Sem. Hrs.
BIOL 208—Invertebrate Zoology	3
CHEM 111—General Chemistry I	3

CHEM 111A—General Chemistry I Lab	1
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
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

However, students who do not plan to pursue advanced degrees may substitute up to 15 semester hours for the supplemental requirements. Substitutions must be approved by advisor.

For a Minor in Geology Requirements

	Sem. Hrs.
GEOS 100—Physical Geology	1
GEOS 101—Historical Geology	3
GEOS 107—Introduction to Geoscience	3
GEOS 250—Minerals & Rocks (OR GEOS 262—Mineralogy)	3-4
GEOS 400—Field Methods (or Summer Geology Field Camp)	3
GEOS 410—Geological History of Plants and Animals	3
GEOS—electives approved by department head	5
	21 or 22

Suggested Program

The following program outline is intended to help students in arranging their course schedules. Close adherence will assist in meeting requirements for graduation.

Geology Major

FRESHMAN YEAR

	Sem. Hrs.
First Semester	
ENG 101—Composition I	3
HLTH 150—Personal Health	2
GEOS 100—Physical Geology	1
GEOS 107—Introduction to Geoscience	3
MATH 152—College Algebra	3
Social Science elective	3
PHED—activity course	1
	16

	Sem. Hrs.
Second Semester	
ENG 102—Composition II	3
GEOS 101—Historical Geology	3
MATH 141—Plane Trigonometry	3
Humanities elective	3
Social Sciences elective	3
	15

SOPHOMORE YEAR

	Sem. Hrs.
First Semester	
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
GEOS 262—Mineralogy I	4
BIOL 208—Invertebrate Zoology	3
Humanities elective (literature)	3
SPCH 110—Basic Speech	3
	17

	Sem. Hrs.
Second Semester	
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
GEOS 325—Structural Geology	3
Minor elective	6
Social Science elective	3
	16

For a Major in Earth Science Requirements

	Sem. Hrs.
GEOS 100—Physical Geology	1
GEOS 101—Historical Geology	3
GEOS 107—Introduction to Geoscience	3
GEOS 250—Minerals and Rocks (OR GEOS 262—Mineralogy)	3-4
GEOS 400—Field Methods (or Summer Geology Field Camp)	3
GEOS 410—Geological History of Plants & Animals	3
SCI 200—Descriptive Astronomy	3
SCI 471—Seminar	1
AGR 211—Soils	3
GEO 390—Weather and Climate	3
GEOS—electives approved by advisor	5-6
	32

Students can also follow the above program to gain teacher certification. However, supplemental course work in biology, mathematics, chemistry, and physics is required for certification. Please consult your advisor.

For a Minor in Earth Science Requirements

	Sem. Hrs.
GEOS 100—Physical Geology	1
GEOS 101—Historical Geology	3
GEOS 107—Introduction to Geoscience	3
GEOS 400—Field Methods (or Summer Geology Field Camp)	3
SCI 200—Descriptive Astronomy	3
GEO 390—Weather & Climate	3
Electives approved by advisor	5
	21

Suggested Program

The following program outline is intended to help students in arranging their course schedules. Close adherence will assist in meeting requirements for graduation.

Earth Science Major*

FRESHMAN YEAR

	Sem. Hrs.
First Semester	
GEOS 100—Physical Geology	1
GEOS 107—Introduction to Geoscience	3
ENG 101—Composition I	3
MATH 152—College Algebra	3
PHYS 201—Elementary Physics I	3
PHYS 201A—Elementary Physics I Lab	1
Social Sciences elective	3
	17

	Sem. Hrs.
Second Semester	
GEOS 101—Historical Geology	3
ENG 102—Composition II	3
MATH 141—Plane Trigonometry	3
HLTH 150—Personal Health	2
PHYS 202—Elementary Physics II	3
PHYS 202A—Elementary Physics II Lab	1
PHED—activity course	1
	16

SOPHOMORE YEAR

	Sem. Hrs.
First Semester	
GEOS 262—Mineralogy	4
SCI 200—Descriptive Astronomy	3
BIOL 208—Invertebrate Zoology	3
SPCH 100—Basic Speech	3
Minor elective	3
	16

	Sem. Hrs.
Second Semester	
AGR 211—Soils	3
Literature elective	3
Social Sciences elective	3
Minor electives	6
	15

*If teacher certification is desired, consult your advisor.

Description of Courses

Note: Field courses are designated with an asterisk. (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer.

GEOS 100. Physical Geology. (0-2-1); I, II. An introductory study of common minerals, rock classes, and topographic and geologic maps.

GEOS 101. 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 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.

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 240. Oceans. (3-0-3); II.* 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 250. Minerals and Rocks. (2-2-3); on demand.* Principal rock-forming and economic minerals and their occurrence.

GEOS 262. Mineralogy. (2-4-4); I in alternate years. Prerequisites: GEOS 100 or CHEM 102 and 102A or 112 and 112A. Physical and chemical properties of minerals, chemical, optical, and X-ray methods of identification; systematic survey of common mineral groups.

GEOS 300. Petrology. (2-2-3); II in alternate years. Prerequisite: GEOS 262. Modes of occurrence and origin in igneous and metamorphic rocks in relation to geologic processes; methods of identifying and classifying rocks.

GEOS 301. Economic Geology I (Metals). (3-0-3); on demand.* Prerequisites: GEOS 100 and 107. Formation and occurrence of metallic ore deposits. Economic factors affecting the mining industry.

GEOS 302. Economic Geology II (Non-metals). (3-0-3); on demand.* Prerequisites: GEOS 100 and 107. Formation and occurrence of non-metallic mineral deposits. Methods and equipment used in exploration. Sampling and evaluation of mineral properties. Uses and economic factors.

GEOS 315. Stratigraphy and Sedimentation. (2-4-4); II in alternate years. Prerequisite: GEOS 101 or 410. Geologic correlation of stratal units; facies analyses, systematic analysis of sedimentary rocks, and biostratigraphic studies.

GEOS 325. Structural Geology. (2-2-3); I in alternate years.* Prerequisites: GEOS 101 and MATH 141 (or its equivalent). Mechanical properties of rocks and dynamics of rock deformation. Folds, faults, joints, cleavage, igneous structures.

GEOS 350. Geomorphology. (2-2-3); on demand. Prerequisite: GEOS 107 or GEO 101. Land surfaces; topographic form and geologic history; morphologic analysis.

GEOS 376. Environmental Geology. (3-0-3); I. 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); II in alternate years. Prerequisites: GEOS 101, BIOL 208 or GEOS 410. Invertebrate animals, their morphology, classification, paleoecology, phylogeny, and stratigraphic succession; faunal assemblages and research techniques.

GEOS 400. Field Methods. (1-4-3); I in alternate years. Prerequisites: 15 hours of geoscience. Field techniques; use of basic field instruments; collection and organization of samples; measurement of stratigraphic sections.

GEOS 410. Geological History of Plants and Animals. (2-2-3); I. Prerequisites: BIOL 208 and 215 or GEOS 101. The evolutionary history of plants and animals throughout geological time.

GEOS 413. Micropaleontology. (2-2-3); on demand.* Prerequisite: GEOS 379. 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 men and their contributions to our knowledge of the earth.

GEOS 420. Optical Mineralogy. (2-2-3); on demand. Prerequisite: GEOS 262. Behavior of light in isotropic and anisotropic minerals. Identification of minerals with polarizing microscope.

GEOS 460. Geological Oceanography. (3-0-3); II in alternate years. Prerequisites: GEOS 315 and 325 or consent of instructor. Marine erosion, transportation and deposition, continental shelves, slopes, and ocean basins; marine environments. Shoreline processes and analyses.

Physics and Engineering Science

Physics is fundamental to the study of the laws which govern the behavior of all nature and hence contributes to the foundations for chemistry, biology, geology, and engineering. Physics provides a complete undergraduate curriculum which is flexible enough to permit graduates a choice of careers in applied research, teaching of physics in secondary schools, or of pursuing graduate study.

The physics program attempts: (1) to provide a complete undergraduate program which has enough flexibility to permit its graduates to pursue careers as professional physicists in industry or in public school teaching; (2) to enable students to pursue graduate degrees in pure and applied physics; or (3) to provide supportive courses for students in other programs such as applied sciences, biology, chemistry, geology, mathematics, and the pre-professional programs.

Requirements for a Major in Physics

	Sem. Hrs.
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 332—Electricity and Magnetism	4
PHYS 340—Experimental Physics	3
PHYS 352—Modern Physics	3
PHYS 391—Dynamics	3
PHYS 493—Quantum Mechanics	3
PHYS—elective, 400 level, approved by advisor	5
SCI 471—Seminar	1
	32

Supplemental Requirements

	Sem. Hrs.
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
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—elective, 300-400 level, approved by advisor	3
BIOL—elective approved by advisor	3

The above program can be modified for students desiring teacher certification. Please consult your advisor.

For a Minor in Physics Requirements

	Sem. Hrs.
PHYS 231—Engineering Physics I*	4
PHYS 231A—Engineering Physics I Laboratory	1
PHYS 232—Engineering Physics II*	4
PHYS 232A—Engineering Physics II Laboratory	1
PHYS—electives, 300-400 level, approved by advisor	11
	21

*PHYS 201-201A, 202-202A, and 212 may be substituted for PHYS 231-231A and 232-232A. (Substitution is recommended only to students who decide to major or minor in physics after completing PHYS 201-201A and 202-202A and is not recommended for pre-engineering students.)

Suggested Program

The following program outline is intended to help students in arranging their course schedules. Close adherence will assist in meeting requirements for graduation.

Physics Major*

FRESHMAN YEAR	
First Semester	Sem. Hrs.
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
MATH 175—Analytic Geometry and Calculus I	4
ENG 101—Composition I	3
PHED—activity course	1
Social Sciences elective	3
	15
Second Semester	
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
MATH 275—Analytic Geometry and Calculus II	4
ENG 192—Technical Composition	3
SCI 105—Introduction to Biological Science	3
Social Sciences elective	3
	17

SOPHOMORE YEAR	
First Semester	
PHYS 231—Engineering Physics I	4
PHYS 231A—Engineering Physics I Lab	1
MATH 276—Analytic Geometry and Calculus III	4
Literature elective	3
SPCH 110—Basic Speech	3
	15

Second Semester	
PHYS 232—Engineering Physics II	4
PHYS 232A—Engineering Physics II Lab	1
MATH 363—Differential Equations	3
HLTH 150—Personal Health	2
PHIL 300—Philosophy of Science	3
Social Sciences elective	3
	16

*If teacher certification is desired, consult your advisor.

Engineering Science Programs

Options

I. TWO-TWO (TRANSFER) PROGRAM: The student spends two years of study in pre-engineering at Morehead State University. Elective courses are chosen to meet the requirements of the four-year engineering school to which the student plans to transfer to complete a baccalaureate degree in an engineering field.

This program is intended for the engineering student who wishes to complete a Bachelor of Science degree in engineering as quickly as possible. Students can also receive the Associate of Science degree in engineering science.

II. THREE-TWO (DUAL DEGREE) PROGRAM: The student completes three years of study in chemistry, mathematics, and physics at Morehead State University before transferring to the University of Kentucky College of Engineering to complete the final two years of engineering course work in a specific field of engineering. Upon completing work at both schools, the student receives dual degrees: a liberal arts Bachelor of University Studies in physical sciences from Morehead State University and a Bachelor of Science degree in engineering from the University of Kentucky. All engineering specialties are available in this program.

This program is designed for the student desiring a stronger mathematics and science background before completing engineering studies. In addition, many potential employers are interested in students with strong liberal arts training to deal with the ethical and social impact of engineering activities.

III. TWO-YEAR ASSOCIATE OF SCIENCE DEGREE IN ENGINEERING SCIENCE: The student completes the core courses in the Associate of Science degree program, and elective courses can be chosen from such fields as electronics, mining, machine tool, or power and fluids technology.

The two-year Associate of Science degree in engineering science is designed for students who wish to seek immediate employment as engineering technicians or aides. Such employment may be in a permanent position, or the student may wish to gain engineering employment experience before returning to school to complete a four-year engineering degree.

Suggested Program for Option I

FIRST YEAR

First Semester		Sem. Hrs.
ENG 101—Composition I	3	3
*MATH 175—Analytic Geometry and Calculus I	4	4
CHEM 111—General Chemistry I	3	3
CHEM 111A—General Chemistry I Laboratory	1	1
PSY 154—Introduction to Psychology	3	3
**DATA 202—Computer Programming BASIC	3	3
		17
Second Semester		
ENG 192—Technical Composition	3	3
MATH 275—Analytic Geometry and Calculus II	4	4
CHEM 112—General Chemistry II	3	3
CHEM 112A—General Chemistry II Laboratory	1	1
IET 103—Technical Drawing I	3	3
GEO 100—Fundamentals of Geography	3	3
		17

SECOND YEAR

First Semester		
MATH 276—Analytic Geometry and Calculus III	4	4
PHYS 231—Engineering Physics I	4	4
PHYS 231A—Engineering Physics I Lab	1	1
***ECON 201—Principles of Economics I	3	3
ENG 202—Introduction to Literature	3	3
		15

Second Semester

Second Semester	
MATH 363—Differential Equations	3
PHYS 232—Engineering Physics II	4
PHYS 232A—Engineering Physics II Lab	1
PHYS 221—Statics	3
ECON 202—Principles of Economics II	3
	14

NOTES:

*Students who have not had one semester of trigonometry in high school may be required to take MATH 141—Trigonometry, before taking MATH 175.

**This course is not required by the University of Kentucky College of Engineering. Substitutions can be made by consulting your advisor.

***ECON 201 is a required course for the University of Kentucky mechanical engineering major and not taken for general studies elective credit. ECON 202 is regarded as a general studies elective.

Pre-Optometry

The Pre-Optometry Program is basically a two- to three-year preparatory program designed to meet the entrance requirements of most optometry schools. However, many pre-optometry students elect to pursue a four-year degree program in the biological or physical sciences. Before seeking admission to an optometry school, students must take the Optometry College Admission Test. 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 Optometry School, or the University of Houston School of Optometry.

Suggested Program

FIRST YEAR

First Semester		Sem. Hrs.
ENG 101—Composition I	3	3
CHEM 111—General Chemistry I	3	3
CHEM 111A—General Chemistry I Lab	1	1
MATH 141—Plane Trigonometry	3	3
BIOL 208—Invertebrate Zoology	3	3
PSY 152—General Psychology	3	3
		16

Second Semester

ENG 102—Composition II	3
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
MATH 152—College Algebra	3
BIOL 209—Vertebrate Zoology	3
BIOL 206—Biological Etymology	2
GOVT 100—Introduction to Government	3
	18

SECOND YEAR

First Semester		
SPCH 110—Basic Speech	3	3
PHYS 201—Elementary Physics I	3	3
PHYS 201A—Elementary Physics I Lab	1	1
MATH 175—Analytic Geometry and Calculus I	4	4
CHEM 326—Organic Chemistry I	3	3
CHEM 326A—Organic Chemistry I Lab	1	1
		15
Second Semester		
PHYS 202—Elementary Physics II	3	3
PHYS 202A—Elementary Physics II Lab	1	1
MATH 275—Analytic Geometry and Calculus II	4	4
CHEM 327—Organic Chemistry II	3	3
CHEM 327A—Organic Chemistry II Lab	1	1
BIOL 317—Principles of Microbiology	4	4
		16

Description of Courses

Note: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; III—summer. Courses taught by Personalized System of Instruction (PSI) method are designated by an asterisk.

PHYS 201. Elementary Physics I. (3-0-3); I, II, III. Prerequisite: working knowledge of algebra and trigonometry. Mechanics and heat; Newton's law of motion, energy and momentum, and heat transfer.

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, nuclear and atomic physics.

PHYS 202A. Elementary Physics II Laboratory. (0-2-1); I, II, III. Must take concurrently with PHYS 202. Laboratory for PHYS 202.

PHYS 212. General Physics Problems. (2-0-2); I.* Prerequisites: PHYS 202 and MATH 175. Selected problems from engineering physics. Application of elementary calculus to the solution of general physics problems. (This course is designed exclusively for students who have completed PHYS 201 and 202 and are interested in taking additional upper-division physics courses. For courses for which PHYS 231 and 232 are the recommended prerequisites, the sequence PHYS 201, 202, and 212 is acceptable in lieu of PHYS 231 and 232 except for students in the pre-engineering program.)

PHYS 221. Statics. (3-0-3); II. Corequisite: MATH 276. Vector algebra, moments of force, equivalent force systems, equilibrium, trusses, frames, friction, centroids, and center of mass.

PHYS 231. Engineering Physics I. (4-0-4); I. Corequisite: MATH 175. 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 250. Light, Color, Cameras, and Perception. (3-0-3); I, II. A non-mathematical study of the phenomena of light and perception. Applications of light and color are presented in art, psychology, photography, and other areas.

PHYS 320. The Science of Music. (3-0-3); I, II. Properties of sound, the hearing process, musical scales, production of music by wind and stringed instruments, electronic recording and reproduction, and architectural acoustics.

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 340. Experimental Physics. (1-4-3); I. 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 352. Concepts of Modern Physics. (3-0-3); I in alternate years.* 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 such as amplifiers and oscillators, feedback, op-amps, digital circuits, and interfacing.

PHYS 374. Physics for Secondary Teachers. (2-4-4); I in alternate years.* Prerequisite: PHYS 202 or 232. For prospective teachers of high school physics. Harvard Project Physics, PSSC.

PHYS 391. Dynamics. (3-0-3); I. Prerequisite: Physics 221 or 231. A study of motion of bodies. Kinematics and dynamics of particles and rigid bodies; work and energy; impulse and momentum.

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 452. Nuclear Physics. (3-0-3); on demand.* Prerequisite: PHYS 232. Binding energies, nuclear forces, transmutation of nuclei; natural and artificial radioactivity.

PHYS 481. Mathematical Physics. (3-0-3); on demand.* Prerequisite: MATH 276. Series solutions of differential equations, Legendre polynomials, Bessel functions, partial differential equations, integral transforms, and applications of mathematics to physical problems.

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.

understanding of science, its nature, and its processes. There is a genuine awareness at Morehead State University of the necessity to increase the degree of scientific literacy of each student as science moves to the forefront in everyday life.

For a Minor in Integrated Science Requirements

	Sem. Hrs.
SCI 103—Introduction to Physical Sciences (or equivalent)	3
BIOL 105—Introduction to Biological Sciences (or equivalent)	3
BIOL 551—Plant Natural History (or equivalent)	3
BIOL 552—Animal Natural History (or equivalent)	3
Electives approved by the coordinator of the science education program	12
	24

Description of Courses

(Courses in this section are recommended for non-science majors in meeting the general education requirements.)

Note: (3-0-3) following course title indicates 3 hours lecture, 0 hours laboratory and 3 hours credit. Roman numerals I, II, and III indicate the term the course is normally offered: I—fall; II—spring; and III—summer.

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.

SCI 200. Descriptive Astronomy. (3-0-3); I, II, III. A non-mathematical presentation of methods and results of astronomical exploration of the solar system, our stellar system, and the galaxies.

SCI 360. Science of Aviation. (3-0-3); I, II, III. 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 471. Seminar. (1-0-1); I, II. Prerequisite: senior standing. Designed to give the student an introduction to research and literature in the sciences and mathematics.

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 570. Earth Science. (3-0-3); I, II, III. Selected topics from the geological sciences. (Especially designed for in-service and pre-service teachers.)

SCI 580. History of Science. (3-0-3); I, II, III. An interdisciplinary approach to the development of the scientific traditions, discoveries, and concepts from the time of ancient Egypt to the present.

SCI 590. Science for the Elementary Teacher. (2-2-3); I, II, III. Prerequisite: the student should have completed the minimum general education requirements in sciences and mathematics. A study of teaching scientific concepts to elementary children.

SCI 591. Science for the Middle School Teacher. (2-2-3); on demand. A study of 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); on demand. Prerequisite: permission of instructor. Concepts of teaching high school science with emphasis on laboratory techniques, test preparation, questioning, presentation methods, and care of equipment.

Programs Leading to Teacher Certification

Options for Specialization that Lead to Certification as a Secondary Science Teacher

- A student can become certified 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

Science Education

Many science and non-science majors enrolled at the University have not had ample opportunity to develop an

the emphasis chosen as well as in general science and interdisciplinary sciences. Further certification is obtained by the completion of additional emphases.

A. The Core (33-35 semester hours)

Biology	
BIOL 208—Invertebrate Zoology	3
BIOL 215—Botany	4
Chemistry	
CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
Earth Science	
GEOS 100—Physical Geology	1
GEOS 107—Introduction to Geoscience	3
GEOS 101—Historical Geology	
OR	
GEOS 410—Geological History of Plants & Animals	3
Physics	
PHYS 201—Elementary Physics I	
PHYS 201A—Elementary Physics I Lab	4-5
OR	
PHYS 231—Engineering Physics I	
PHYS 231A—Engineering Physics I Lab	
PHYS 202—Elementary Physics II	
PHYS 202A—Elementary Physics II Lab	4-5
OR	
PHYS 232—Engineering Physics II	
PHYS 232A—Engineering Physics II Lab	
Science	
SCI 592—Science for the Secondary Teacher	3
	33-35

B. Choice of Emphasis

Biology (31 sem. hrs.)	
BIOL 206—Biological Etymology	2
BIOL 209—Vertebrate Zoology	3
BIOL 304—Genetics	3
BIOL 317—Principles of Microbiology	4
BIOL 380—Cell Biology	3
BIOL 471—Seminar in Biological Sciences	1
BIOL 561—Ecology	3
Biology electives (300 level or above)	6
Elect one of the following:	
BIOL 337—Comparative Anatomy	3
BIOL 338—Vertebrate Embryology	3
BIOL 550—Plant Anatomy	3
BIOL 555—Plant Morphology	3
Elect one of the following:	
BIOL 513—Plant Physiology	3
BIOL 525—Animal Physiology	3
	31

Chemistry (15 sem. hrs.)
15 additional semester hours in chemistry approved by advisor and department head (cannot include BIOL 595 or SCI 476).

Earth Science (15 sem. hrs.)
15 additional semester hours in geology approved by advisor and department head (must include GEOS 400; cannot include SCI 476).

Physics (15 sem. hrs.)
15 additional semester hours in physics approved by advisor and department head (must include PHYS 350 and 374; cannot include SCI 476).

C. Mathematics

Students who seek certification with an area of concentration in science will be required to complete the following mathematics requirement:

One course from the following:	
MATH 152—College Algebra	3
MATH 173—Pre-Calculus I	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 II	3
MATH 275—Analytic Geometry and Calculus II	4
MATH 353—Statistics	3-4

II. 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. Further certification, however, can 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 as presented elsewhere in this catalog.

A. Biology

BIOL 206—Biological Etymology	2
BIOL 208—Invertebrate Zoology	3
BIOL 209—Vertebrate Zoology	3
BIOL 215—General Botany	4
BIOL 304—Genetics	3
BIOL 317—Principles of Microbiology	4
BIOL 337—Comparative Anatomy	
OR	
BIOL 555—Plant Morphology	3
BIOL 380—Cell Biology	3
BIOL 471—Seminar in Biological Sciences	1
Biology field course	3
Approved biology electives	6
	35

In addition, supplemental courses in chemistry, earth science, mathematics, and physics are required for the biology major. Consult your advisor.

B. Chemistry

Students who wish to become certified in chemistry must complete a minimum of 32 semester hours in chemistry as approved by an advisor including CHEM 111, 111A, 112, 112A, 223, 326, 326A, 460, and SCI 471.

C. Earth Science

GEOS 100—Physical Geology	1
GEOS 101—Historical Geology	3
GEOS 107—Introduction to Geoscience	3
GEOS 250—Minerals and Rocks (OR GEOS 262—Mineralogy)	3-4
GEOS 400—Field Methods (OR Summer Geology Field Camp)	3
GEOS 410—Geological History of Plants & Animals	3
SCI 200—Descriptive Astronomy	3
SCI 471—Seminar	1
AGR 211—Soils	3
GEO 390—Weather and Climate	3
GEOS—electives approved by advisor	5-6
	32

Students who wish to be certified to teach earth science must also complete supplemental courses in biology, chemistry, mathematics, and physics, as approved by an advisor.

D. Mathematics

MATH 175—Analytic Geometry and Calculus I	4
MATH 275—Analytic Geometry and Calculus II	4
MATH 471—Seminar	1
Electives in mathematics above 170,	
except Math 231, 232, 252, and 260	7
Electives in mathematics above 300 as approved by the head of the Dept. of Mathematical Sciences	14
DATA 202—Computer Programming BASIC	3
	33

Students who major in mathematics must also complete supportive courses in other science disciplines. Consult your advisor.

E. 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 332—Electricity and Magnetism	4
PHYS 340—Experimental Physics	3

PHYS 352—Modern Physics	3
PHYS 391—Dynamics	3
PHYS 493—Quantum Mechanics	3
SCI 471—Seminar	1
Physics electives, 400 level, approved by advisor	5
	32

Students who seek certification in physics are also required to complete supplemental courses in mathematics. Consult your advisor.

- III. A student who intends to complete a teaching major in the natural sciences, including biology, chemistry, earth science, mathematics, or physics, may obtain further certification by completing a teaching minor in one or more of the natural sciences as listed above. Consult your advisor.

Gulf Coast Research Laboratory

The following courses, which are taught only at Gulf Coast Research Laboratory during the summer, are suitable for elective courses in major and minor programs of study in the School of Sciences and Mathematics. The Laboratory furnishes the staff for courses and research. Applications for the courses and additional information are available from the on-campus coordinator in the School of Sciences and Mathematics.

Description of Courses

Note: Course numbers in parentheses in the following listing have been assigned by the Gulf Coast Research Laboratory.

Botany

MSCI 322. Marine Botany (Botany 341). (4 hrs.); III. Prerequisites: Ten semester hours of biology, including botany. A survey, based upon local examples of the principal groups of marine algae and marine flowering plants, treating structure, reproduction, distribution, identification, and ecology.

MSCI 323. Coastal Vegetation (Botany 331). (3 hrs.); III. Prerequisites: Ten hours of biology, including general botany. A study of general and specific aspects of coastal vegetation, with emphasis on local examples.

MSCI 562. Salt Marsh Plant Ecology (Botany 441). (4 hrs.); III. Prerequisites: General botany, plant taxonomy, plant physiology, and general ecology or consent of instructor. A study with emphasis on the botanical aspects of local marshes. Plant identification, composition, structure, distribution, and development of coastal marshes. Biological and physical interrelationships. Primary productivity and relation of marshes to estuaries and associated fauna.

Chemistry

MSCI 462. Marine Chemistry (Chemistry 461). (6 hrs.); III. Prerequisites: Sixteen semester hours chemistry and three to six hours of general biology and geology or consent of instructor. A study of the chemical aspects of the oceans and the interactions of chemistry, biology, and geology in the marine environment.

Geology

MSCI 331. Coastal Marine Geology (Geology 431). (3 hrs.); III. Prerequisites: Six semester hours of geology. A study of onshore and nearshore geological processes, sedimentation patterns, and landform development.

Marine Science

MSCI 571. Special Problems in Marine Science (Marine Science 400). (1 to 6 sem. hrs. as determined by the problem director); III. Prerequisites: To be set by problem director. Special problems are research oriented and grades are based on reports submitted by students.

MSCI 572. Special Topics in Marine Science (Marine Science 405). (1 to 6 sem. hrs. as determined by topic advisor); III. Prerequisites: To be set by topics advisor. The purpose of the course is to provide the opportunity for students to obtain credit for study in areas in which the laboratory offers no formal course.

Marine Science Education

MSCI 595. Marine Science for Teachers I: Basic Techniques (Marine Science Education 431). (3 hrs.); III. Prerequisites: Biology background or consent of

instructor. A course designed to introduce the students, particularly in-service teachers, to the study of marine science and to promote the teaching of marine biology at all grade levels.

MSCI 596. Marine Science for Teachers II: Advanced Studies (Marine Science Education 432). (3 hrs.); III. Prerequisites: MSI-431. A course designed to augment the knowledge gained in previous course (MSE 431) to enable the students, particularly in-service teachers, to establish further studies in the marine sciences in local school systems at all grade levels.

MSCI 597. Marine Science for Elementary Teachers (Marine Science Education 433). (3 hrs.); III. Prerequisites: Six hours in biology. A course designed to prepare teachers of elementary grade children to conduct classes using marine-related materials.

Microbiology

MSCI 566. Marine Microbiology (Microbiology 452). (5 hrs.); III. Prerequisites: General microbiology and environmental microbiology or consent of instructor. Microbiology and advanced biology students are introduced to the role of microorganisms in the overall ecology of the oceans and estuaries.

Oceanography

MSCI 464. Oceanography I: Physical, Chemical, and Geological (Oceanography 251). (5 hrs.); III. Prerequisites: College algebra and two semesters of general chemistry. Geology and physics courses helpful, but not required. This introductory course in oceanography integrates chemical, geological, and physical oceanography to provide a multidisciplinary approach to the fundamentals of oceanography.

MSCI 465. Oceanography II: Marine Biology (Oceanography 252). (5 hrs.); III. Prerequisites: Eight semester hours of biological sciences. A general introduction to marine biology with emphasis on local fauna and flora.

Zoology

MSCI 200. Introduction to Marine Zoology (Zoology 141). (4 hrs.); III. Prerequisites: Eight semester hours of biology, including introductory zoology. A general introduction to the marine environment with emphasis on local fauna.

MSCI 341. Marine Invertebrate Zoology (Zoology 361). (6 hrs.); III. Prerequisites: Sixteen semester hours of zoology, including at least an introductory course in invertebrate zoology. A concentrated study of the important free-living, marine and estuarine invertebrates of the Mississippi Sound and adjacent continental shelf of the northeastern Gulf of Mexico, with emphasis on the structure, classification, phylogenetic relationships, larval development, and functional processes.

MSCI 342. Marine Vertebrate Zoology and Ichthyology (Zoology 362). (6 hrs.); III. Prerequisites: Sixteen semester hours of zoology, including comparative anatomy or consent of instructor. A general study of the Marine Chordata, including lower groups and the mammals and birds, with most emphasis on the fishes.

MSCI 561. Comparative Histology of Marine Organisms (Zoology 408). (1 to 6 hrs.); III. Prerequisites: Consent of instructor. A detailed study of the histological organization of representative marine organisms. Fixation, processing, and study of tissue using light microscopy, transmission electron microscopy, and scanning electron microscopy. The relationship between structural changes and physiological changes during life cycle of organism. Histopathology with respect to tissue responses to infection and to damage by toxic agents.

MSCI 563. Marine Fisheries Management (Zoology 442). (4 hrs.); III. Prerequisites: Consent of instructor. An overview of practical marine fishery management problems.

MSCI 564. Behavior and Neurobiology of Marine Animals (Zoology 443). (4 hrs.); III. Prerequisites: Sixteen semester hours of zoology and/or psychology or consent of the instructor. Survey of behavior, neuroanatomy, and neurophysiology of marine animals with emphasis on the neural mechanisms underlying the behavior of selected invertebrates, fishes, birds, and mammals.

MSCI 565. Marine Ecology (Zoology 452). (5 hrs.); III. Prerequisites: Sixteen hours of biological science, including general zoology, general botany, and invertebrate zoology. A consideration of the relationship of marine organisms to their environment. The effects of temperature, salinity, light, nutrient concentration, currents, food, predation, and competition on the abundance and the distribution of marine organisms are considered.

MSCI 567. Parasites of Marine Animals (Zoology 461). (6 hrs.); III. Prerequisites: General parasitology or consent of instructor. A study of the parasites of marine and estuarine animals with emphasis on morphology, taxonomy, life histories, and host-parasite relationships.

MSCI 569. Fauna and Faunistic Ecology of Tidal Marshes (Zoology 447). (4 hrs.); III. Prerequisites: Sixteen semester hours of biological sciences and junior standing or consent of instructor. Survey and discussion of the taxonomy, distribution, trophic relationships, reproductive strategies, and adaptation of tidal marsh animals, with emphasis on those occurring in northern Gulf marshes.

MSCI 570. Early Life History of Marine Fishes (Zoology 570). (4 hrs.); III. Prerequisites: ichthyology, fisheries, biology, ecology, and/or consent of instructor. Reproductive strategies and early developmental processes of

marine fishes. Includes discussion of temporal and spatial distribution patterns, population dynamics, and ecological interactions of fish eggs and larvae; role of early stages of fishes in fisheries oceanography, marine ecology, and systematics; methods of sampling and identifying fish eggs and larvae; data quantification and analysis; rearing experiments; techniques for studying larval fish dynamics.

MSCI 568. Marine Aquaculture (Zoology 464). (6 hours); III. Prerequisites: general zoology or invertebrate and vertebrate zoology or permission of instructor. A lecture, laboratory, and field course designed to introduce aquatic and marine biology students to the history, principles, problems, and procedures relating to the culture of commercially important crustaceans, fish, and mollusks along the Gulf Coast.

MSCI 571. Special Problems in Marine Science (Marine Science 400). III. Prerequisites and credit to be set by problem director. Supervised undergraduate research on specific problems in all areas of marine science.

MSCI 572. Special Topics in Marine Science (Marine Science 405). III. Prerequisites and credits to be set by instructor. Supervised undergraduate study in subject areas not available to students through other courses.

MSCI 576. Biological Electron Microscopy I (Zoology 530). (3 hours); III. Prerequisite: consent of instructor. A study of tissue preparation, theory, and techniques of ultramicrotomy, and an introduction to the fundamentals of electron microscopy.

MSCI 577. Biological Electron Microscopy II (Zoology 531). (3 hours); III. Prerequisite: Zoology 530. Continuation of Zoology 530; includes a study of special techniques and the operation and maintenance of an electron microscope.

MSCI 595. Basic Techniques in Marine Science for Teachers (Marine Science Education 431). (3 hours); III. Prerequisite: biology background or consent of instructor. A course designed to introduce the students, particularly in-service teachers, to the study of marine science and to promote the teaching of marine biology at all grade levels.

MSCI 596. Advanced Studies in Marine Science for Teachers (Marine Science Education 432). (3 hours); III. Prerequisite: Marine Science Education 431. To train teachers to conduct classes in marine science at the elementary and secondary school levels.

School of Social Sciences

Departments

Geography
Government and Public Affairs
History
Military Science
Sociology, Social Work, and Corrections

Baccalaureate Degree Programs

Social Sciences—Area of Concentration
Geography—Major
Geography—Minor
History—Major
History—Minor
Government—Major
Government—Minor
Public Affairs—Major
Social Work—Area of Concentration
Sociology—Major
Sociology—Major with a Corrections Emphasis
Sociology—Minor
Corrections—Area of Concentration
Corrections—Minor

Associate Degree Programs

Social Work
Corrections

Requirements for an Area of Concentration in the Social Sciences

A. A minimum of 18 hrs. in history	18
B. 12 hours each field in any three:	36
Economics	
Geography	
Government and Public Affairs	
Sociology	
C. 6 hrs. in the fourth field	6
	60
	Sem. Hrs.
ECON 201—Principles I	3
ECON 202—Principles II	3
ECON 350—Microeconomic Theory	3
ECON 351—Macroeconomic Theory	3
GEO 100—Fundamentals	3
GEO 211—Economic Geography	3
GEO 300—World Geography	3
GEO—advanced elective	3
GOVT 141—Government of the U.S.	3
GOVT 242—State and Local Government	3
GOVT 330—Parliamentary Democracies	3
GOVT—advanced elective in international governments	3
HIS 131—Introduction to Civilization I	3
HIS 132—Introduction to Civilization II	3
HIS 141—Introduction to Early American History	3
HIS 142—Introduction to Recent American History	3
HIS—advanced electives (3 hrs. must be American)	6
SOC 101—General Sociology	3
SOC 505—Sociological Theory	3
SOC—advanced elective	3
SOC—advanced elective	3

Geography

The Department of Geography offers a well-balanced undergraduate program 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.

Requirements for a Major in Geography

	Sem. Hrs.
GEO 100—Fundamentals of Geography	3
GEO 101—Physical Geography	3
GEO 211—Economic Geography	3
GEO 241—Anglo-America	3
GEO—electives in systematic geography	9
GEO—electives in regional geography	9
Minimum for a major	30

Requirements for a Minor in Geography

	Sem. Hrs.
GEO 100—Fundamentals of Geography	3
GEO 101—Physical Geography	3
GEO 211—Economic Geography	3
GEO 241—Anglo-America	3
GEO—Systematic geography elective	3
GEO—electives	6
Minimum for a minor	21

Suggested Sequence of Courses for a Bachelor of Arts Degree in Geography

The following program has been devised to help students in selecting their courses and preparing their schedules. Close adherence to it will aid the student in meeting requirements for graduation.

Major in Geography

FRESHMAN YEAR

	First Semester	Sem. Hrs.
GEO 100—Fundamentals of Geography		3
ENG—composition		3
PHED—activity course		1
SCI—Physical Science elective		3
HIS—general education requirement		3
Minor—elective		3
		16

	Second Semester	Sem. Hrs.
GEO 101—Physical Geography		3
ENG—composition		3
General education requirement		3
SCI—biological science		3
HLTH 150—Personal Health		2
Minor—elective		3
		17

SOPHOMORE YEAR

	First Semester	Sem. Hrs.
GEO 211—Economic Geography		3
ENG—literature elective		3
MATH—general education requirement		3
Minor—elective		3
Sociology general education requirement		3
**Electives		2
		17

	Second Semester	Sem. Hrs.
GEO 241—Anglo-America		3
General education requirements		6
Minor—elective		3
**Electives		4
		16

JUNIOR YEAR

	First Semester	Sem. Hrs.
GEO—*Elective in regional geography		3
GEO—*Elective in systematic geography		3
Minor—elective		3
**Electives		7
		16

	Second Semester	Sem. Hrs.
GEO—*elective in regional geography		3
GEO—*elective in systematic geography		3
Minor—elective		3
**Electives		7
		16

SENIOR YEAR

	First Semester	Sem. Hrs.
GEO—*advanced elective in systematic geography		3
Minor—elective		3
**Electives		10
		16

	Second Semester	Sem. Hrs.
GEO—*advanced elective in regional geography		3
**Electives		13
		16

*Electives in systematic and regional geography must be selected with the approval of the student's faculty advisor.

**Students desiring a teacher's 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.

Description of Courses

NOTE: (3-0-3) following course title indicates: 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally offered: I—fall semester, II—spring semester, and III—summer term. *—Indicates Systematic Geography courses.

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, II, III. 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); I, 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. North America. (3-0-3); I, II. Major land-use regions of the United States and Canada, their physical and cultural landscapes.

GEO 300. World Geography. (3-0-3); I, II, III. 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); I. 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); II. Mexico, the Central American Republics, and the islands of the Caribbean; emphasis upon cultural and historical traditions.

GEO 320. South America. (3-0-3); I. 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); I, II. 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); I, III. 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); I, II. 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); I, II. 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); II. 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); I. 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.

GEO 375. The Teaching of Social Studies. (3-0-3); I, II. (See HIST 375.) (Does not count in major or minor.)

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 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.

*GEO 510. Urban Geography. (3-0-3); II. 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.

Government and Public Affairs

The Department of Government and Public Affairs offers courses in major areas of study, including American government, state and local government, comparative government, international relations, group dynamics, constitutional law, and public and personnel administration.

Pre-Law Program

The field of government is recommended as desirable training for pre-law students. While there is no officially prescribed pre-law curriculum, most law schools require the bachelor's degree for entrance; therefore it is recommended that preparatory studies be directed toward the goal. All general education requirements should be met, as well as a degree in some particular field.

Preparing for Government Service

Students preparing for government service should pursue the general government major requirements. Those wishing to specialize in public administration should select courses in public administration, finance, and personnel. The Department offers an interdisciplinary major in public affairs.

Internship programs are available for qualified students desiring to enter governmental service. A structured work-study experience in state and local government is obtained by the participating student. Opportunities are available to gain valuable experience with such public officials as city managers, mayors, other governmental officers, and county and state agencies.

Requirements for a Major in Government

	Sem. Hrs.
GOVT 141—Government of the United States	3
GOVT 242—State and Local Government	3
GOVT 330—Parliamentary Democracies	3
OR	
GOVT 450—International Relations	3
GOVT—elective in international field	3
Approved electives in government	18
Minimum for a major	30

For a Minor in Government

	Sem. Hrs.
GOVT 141—Government of the United States	3
GOVT 242—State and Local Government	3
GOVT 330—Parliamentary Democracies	3
OR	
GOVT 450—International Relations	3
GOVT—elective in international field	3
Approved electives in government	9
Minimum for a minor	21

Major in Para-Legal Studies

The para-legal studies program prepares the student to work in a lawyer's office as a legal assistant. The demand for para-legals is growing in business as well as government, and certainly in the public and private practice of law. Under the supervision of a lawyer, the legal assistant performs legal

research of various types, interviews clients, performs investigations, takes care of details in probate matters, and does real estate title searches and countless other duties in the law office.

Required Courses

	Sem. Hrs.
GOVT 141—Government of the United States	3
GOVT 242—State and Local Government	3
GOVT 290—Introduction to Paralegalism	3
GOVT 390—Legal Research and Writing	3
GOVT 490—Trial Practice and Preparation	3
GOVT 590—Legal Internship	6
ACCT 387—Income Tax	3
REAL 105—Principles of Real Estate	3
REAL 205—Real Estate Law	3
OADM 221—Business Communications	3
OADM 363—Office Management	3
	36

It is strongly recommended that the student minor in business administration.

Major in Public Affairs

The major in public affairs program seeks to attract and prepare talented and socially-committed men and women for public services. This program offers a multi-disciplinary approach for those persons interested in employment at all levels of government. The scope and flexibility of this program allows participants to plan their studies consistent with desired career objectives.

Required Courses

	Sem. Hrs.
GOVT 141—Government of the United States	3
GOVT 242—State and Local Government	3
GOVT 300—Municipal Government	3
GOVT 540—Public Administration	3
GOVT 541—Public Finance	3
GOVT 546—Public Personnel Administration	3
	18
Electives	18
	36

Suggested Electives

ACCT 281—Principles of Accounting I
ACCT 282—Principles of Accounting II
ACCT 585—Government Accounting
DATA 200—Introduction to Data Processing
DATA 202—Computer Programming
GOVT 555—Internship in Public Affairs

It is strongly suggested that students with a major in public affairs consult with their advisor to select an appropriate second major or minor in such disciplines as accounting, corrections, economics, environment, geography, recreation, and social welfare.

Suggested Sequence of Courses for a BA Degree in Government

The following program has been devised to help students in selecting their courses and preparing their schedules. Close adherence to it will aid the student in meeting requirements for graduation.

FRESHMAN YEAR

	First Semester	Sem. Hrs.
GOVT 141—Government of the United States		3
ENG 101—Composition I		3
SCI 103—Intro. to Physical Science		3
HLTH 150—Personal Health		2
PHED—activity		1
SOC 101—General Sociology		3
		15

	Second Semester	Sem. Hrs.
GOVT 242—State and Local Government		3
ENG 102—Composition II		3
BIOL 105—Intro. to Biological Sciences		3
MATH 152—College Algebra		3
ECON 101—Intro. to the American Economy		3
FNA 160—Appreciation of the Fine Arts		3
		18

SOPHOMORE YEAR

First Semester	
GOVT 330—Parliamentary Democracies	3
GOVT—elective	3
ENG 202—Intro. to Literature	3
Minor	3
History elective	3
	15
Second Semester	
GOVT 343—American Political Parties	3
GOVT 344—Kentucky Government	3
Minor	3
Minor	3
Minor	3
	15

JUNIOR YEAR

First Semester	
GOVT 300—Municipal Government	3
Minor	3
Minor	3
BIOL 355—Population, Resources, and Environment	3
SPCH 370—Business and Professional Speech	3
History elective	3
	18
Second Semester	
GOVT 380—American Courts and Civil Rights	3
Minor	3
GOVT 348—The Legislative Process	3
PHIL 200—Intro. to Philosophy	3
PSY 154—Intro. to Psychology	3
Geography elective	3
	18

SENIOR YEAR

First Semester	
GOVT 450—International Relations	3
Minor	3
GOVT 540—Public Administration	3
ENG 598—Logical Reasoning for Aptitude Examinations	3
HUM—elective	3
Elective	3
	18
Second Semester	
GOVT 444—The American Constitution	3
Minor	3
GOVT 546—Public Personnel Administration	3
HUM—elective	3
Elective	3
	15

Description of Courses

NOTE: (3-0-3) following course title indicates 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally offered: I—fall semester; II—spring semester and III—summer term.

GOVERNMENT

GOVT 100. **Introduction to Government.** (3-0-3); I, II, III. An introduction to American government, comparative government, international relations, and current problems and policies.

GOVT 101. **International Student Orientation.** (1 hr. credit); I. An informational and orientational course to familiarize the international student with the University and the community.

GOVT 141. **Government of the United States.** (3-0-3); I, II, III. The nature, organization, powers, and functions of the United States government.

GOVT 242. **State and Local Government.** (3-0-3); I, II, III. The nature, organization, powers, and functions of American state and local governments.

GOVT 290. **Introduction to Paralegalism.** (3-0-3); I. Introduction to the history, role, and ethical standards of the paralegal, with exposure to the various fields of law encountered in the program.

GOVT 300. **Municipal Government.** (3-0-3); I, II. The nature, organization, powers, and functions of American municipal governments.

GOVT 305. **Introduction to Political Behavior.** (3-0-3); II. Prerequisite: GOVT 141 or consent of the instructor. A study of political personality and attitudes, public opinion, voting behavior, political socialization, and culture as it relates to the overall understanding of the political process.

GOVT 310. **Current World Problems.** (3-0-3); I, II, III. Emphasis on United States domestic and international problems since World War II.

GOVT 315. **Street Law.** (3-0-3); I. Study of practical criminal and civil law which every citizen should know.

GOVT 320. **The Politics of Drugs.** (3-0-3). Federal, state, and local government policies and laws relative to the control of drugs and drug abuse.

GOVT 330. **Parliamentary Democracies.** (3-0-3); I, II. Constitutional development, political organization, legislatures, administration, courts of the governments of the United Kingdom, France, and Germany.

GOVT 334. **Soviet Union and Eastern European Governments.** (3-0-3); I. Soviet political system; its contemporary ideological base, governing structures, and political processes; analysis of other governments in Eastern Europe.

GOVT 335. **The Game of Politics.** (3-0-3). A practical approach to the understanding of American government.

GOVT 340. **Public Opinion and Propaganda.** (3-0-3); II. The nature, formation, and role of public opinion, techniques, strategies, and effects of propaganda.

GOVT 343. **American Political Parties.** (3-0-3); I. Nature and role of parties and interest groups; party structure and development; functions of primaries; nomination system and campaign methods; public opinion and policy making.

GOVT 344. **Kentucky Government.** (3-0-3); I, II. The nature, organization, powers, and functions of Kentucky state government.

GOVT 348. **The Legislative Process.** (3-0-3); II. Prerequisite: GOVT 141 or consent of the instructor. Legislative behavior in the context of the political system; procedures and influences in the formation of public policy.

GOVT 350. **Appalachian Politics.** (3-0-3); I. A study of the politics and political institutions of the Appalachian region.

GOVT 352. **Survey in Political Theory.** (3-0-3); I. Early political ideas of Greeks, Romans, and Medieval Church; evolution of states and acquisition of sovereignty; contract theory; rise of liberalism, totalitarianism, and Marxist Socialism.

GOVT 360. **United Nations and World Organizations.** (3-0-3); II. Evolution of international organizations, from League of Nations to the United Nations; problems and issues of present world organization.

GOVT 366. **Political Geography.** (3-0-3); II. (See GEO 366.)

GOVT 370. **Pressure Groups and Politics.** (3-0-3); Prerequisite: GOVT 141 or consent of the instructor. Theory of interest groups; the role of interest groups in the political process; group ideology; techniques of political propaganda.

GOVT 375. **The Teaching of Social Studies.** (3-0-3); I, II. (See HIS 375.) (Does not count in the major or minor.)

GOVT 380. **American Courts and Civil Rights.** (3-0-3); I, II. Prerequisite: GOVT 141 or consent of the instructor. A study of the American court systems, jurisdiction, terminology, and an enumeration of man's rights and responsibilities in a democratic society.

GOVT 390. **Legal Research and Writing.** (3-0-3); II. This course provides an in-depth knowledge of the law library and research methods; includes writing legal memoranda and briefs for both trial and appellate practice.

GOVT 435. **Modern Asian Governments.** (3-0-3); II. Background, development, ideologies, and structure of Asian governments, including Japan, China, India.

GOVT 444. **The American Constitution.** (3-0-3); I. Prerequisite: GOVT 141, 242, or consent of instructor. Sources of American heritage in the evolution of constitutionalism; interpretation of principles and precedents in such fields as civil rights, federal-state relationships.

GOVT 450. **International Relations.** (3-0-3); I. Prerequisites: GOVT 141 or consent of the instructor. Survey of interstate relationships in theory and practice; concepts of power and its application; machinery of foreign policy making and enforcement; world politics and law; the world community.

GOVT 470. **American Chief Executives.** (3-0-3); on demand. Prerequisite: GOVT 141, 242, or consent of instructor. Analysis of executive position and leadership in federal, state, and local governments.

GOVT 476. **Special Problems.** (1 to 3 hrs.); on demand. Prerequisite: consent of the instructor. Original research project or readings in a particular subject area.

GOVT 490. **Trial Practice and Preparation.** (3-0-3); I. This course includes interviewing and investigating skills, rules of procedure and evidence, and discovery techniques for trial preparation.

GOVT 505. **Politics of Ecology.** (3-0-3); II. Prerequisite: GOVT 141 or consent of the instructor. A political analysis of the problems of the environmental crises.

GOVT 510. **Law of Corrections.** (3-0-3); on demand. See Corrections 510.

GOVT 540. **Public Administration.** (3-0-3); I. Prerequisite: GOVT 141 or consent of the instructor. Historical evolution; theory of organization and administration; personnel, financial, and legal aspects of public administration.

GOVT 541. **Public Finance.** (3-0-3); I. Prerequisites: ECON 201 and 202. See Economics 541.

GOVT 546. **Public Personnel Administration.** (3-0-3); II. Prerequisite: GOVT 540 or consent of the instructor. Manpower utilization, concepts, principles, and practice of the merit system; leadership; decision-making process; motivation of public employees.

GOVT 555. **Internship in Public Affairs.** (1 to 6 hrs.); on demand. Prerequisite: consent of the instructor. On-the-job work study experience in government.

GOVT 590. **Legal Internship.** (1 to 6 hrs.); on demand. Actual work experience in a law office; experience in law office organization, interviewing clients, researching and preparing briefs, assisting in trial preparation, and observing first-hand court procedure.

History

The opportunities open to the student who selects history as a career are many and varied. The appreciation of human nature gained by an individual who has majored in history at the bachelor's level makes him or her especially valuable in such fields as public relations, journalism, personnel work, counseling, advertising, military service, civil service, sales, or elementary and secondary school teaching.

An undergraduate speciality in history also provides solid background for numerous postgraduate studies, such as government, law, medicine, business administration, and library science.

Requirements for a Major

	Sem. Hrs.
HIS 131—Intro. to Civilization I	3
HIS 132—Intro. to Civilization II	3
HIS 141—Intro. to Early American History	3
HIS 142—Intro. to Recent American History	3
Advanced credit in history	18
Minimum for a major	30

The distribution of 18 hours of advanced credit for the major will be planned in conjunction with the department chairman and/or departmental advisors with care taken to avoid undue concentration of courses in only one field of history.

The courses offered by the department are classified in three fields: American history, European history, and non-Western history (African, Latin American, Middle Eastern, and Asian studies).

For those students seeking teacher certification, HIS 375—The Teaching of Social Studies, is also required (applies to majors, minors, and area of concentration). It is recommended that HIS 375 be taken the semester prior to the professional semester.

For a Minor

	Sem. Hrs.
HIS 131—Intro. to Civilization I	3
HIS 132—Intro. to Civilization II	3
HIS 141—Intro. to Early American History	3
HIS 142—Intro. to Recent American History	3
Advanced credit in history	9
Minimum for a minor	21

Suggested Sequence of Courses for a BA Degree in History

The following program has been devised to help students in selecting courses and preparing their schedules. Close adherence to it will aid the student in meeting requirements for graduation.

FRESHMAN YEAR

First Semester		Sem. Hrs.
HIS 131—Introduction to Civilization I		3
OR		
HIS 141—Introduction to Early American History		3
SOC SCI—elective		3
ENG—composition		3
General education requirement		3
SCI—physical science		3
Elective		3
		18
Second Semester		
HIS 132—Introduction to Civilization II		3
OR		
HIS 142—Introduction to Recent American History		3
SOC SCI—elective		3
ENG—composition		3
PHED—activity course		1
SCI—biological science		3
HLTH 150—Personal Health		2
General education requirement		3
		18

SOPHOMORE YEAR

First Semester		
HIS 141—Introduction to Early American History		3
OR		
HIS 131—Introduction to Civilization I		3
Minor		3
ENG—literature elective		3
MATH—elective		3
EDSE—Foundations of Secondary Education		2
Elective		3
		17
Second Semester		
HIS 142—Introduction to Recent American History		3
OR		
HIS 132—Introduction to Civilization II		3
HIS—elective		3
Minor		3
General education requirement		3
Electives		6
		18

JUNIOR YEAR

First Semester		
Advanced credit in history		6
Minor		6
Electives		6
		18
Second Semester		
Principles of Adolescent Development for Secondary Teachers		3
Advanced credit in history		6
Minor		6
Elective		3
		18

SENIOR YEAR

First Semester		
The Teaching of Social Studies		3
Advanced credit in history		6
Minor		3
Elective		6
		18
Second Semester		
Professional semester (student teaching)		
OR		
Electives (if teaching certificate is not desired)		17

Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II, and III following the credit hour allowance indicate the term in which the course is normally scheduled: I—fall; II—spring; and III—summer.

HISTORY

Honors seminar in History. (3-0-3); Prerequisite: Open only to juniors and seniors in the Honors Program. An analysis and discussion of the philosophies of world history; their origins and effects.

HIS 131. Intro. to Civilization I. (3-0-3); I, II, III. From early man to the end of the religious wars.

HIS 132. Intro. to Civilization II. (3-0-3); I, II, III. From the Age of Reason to the Atomic Age.

HIS 141. Intro. to Early American History. (3-0-3); I, II, III. A survey of the basic tenets of American life from the Age of Discovery to the War Between the States.

HIS 142. Intro. to Recent American History. (3-0-3); I, II, III. A continuation of History 141, culminating with today's social and economic problems.

HIS 324. The New South. (3-0-3); II. A study of the origins of the twentieth century South.

HIS 325. The Old South. (3-0-3); I. The growth of southern sectionalism and the development of regional characteristics.

HIS 326. The Civil War and Reconstruction. (3-0-3); I. The role of the Southern states in the rebirth of the American nation.

HIS 327. The Negro in American History. (3-0-3); I. The origin of African slavery in America to its demise in the Civil War.

HIS 328. The Negro Faces Freedom. (3-0-3); II. The revolt of the American Negro in an effort to make legal freedom an actuality and to gain a position in the life of the nation.

HIS 329. Genealogy and Family History. (3-0-3); I. The techniques of tracing ancestors, combined with a study of the "common man," thus individualizing American history.

HIS 330. Ancient History. (3-0-3); I. The rise of civilization, with emphasis on the cultural contributions of the Greeks and Romans

HIS 331. Historical Background of the Bible. (3-0-3); I. Consideration of the Bible as the most important single source for the study of ancient Mediterranean history and cultures and the foundation of Western Civilization.

HIS 332. Christianity and Its World. (3-0-3); II. A study of the relationship between Christianity and its environment from its origins to the present.

HIS 333. Medieval Europe. (3-0-3); II. Western man from the collapse of Rome to the Renaissance of the sixteenth century.

HIS 334. The Renaissance and Reformation. (3-0-3); I. A social and intellectual history of the beginning of the modern world.

HIS 335. Revolutionary Europe, 1648-1815. (3-0-3); II. Europe from the Age of Absolutism to the overthrow of the Napoleonic Empire.

HIS 338. Nineteenth Century Europe. (3-0-3); I. The political isms, nationalistic trends, and unification movements leading to World War I.

HIS 342. The Age of Jackson. (3-0-3); II. Analysis of national, political, and social movements of our westward trek, when America sought compromise and found Civil War.

HIS 343. History of Appalachia. (3-0-3); I, II, III. A study in historical perspective, of the people who have resided in and events that have taken place along the spine and slopes of the Appalachian mountains.

HIS 344. A History of Kentucky. (3-0-3); I, II, III. Colonial birth to the creation of the Commonwealth, with emphasis upon its constitutional and social development.

HIS 345. The American Frontier. (3-0-3); II. The Westward Movement in the shaping of American life and institutions.

HIS 346. Violence in America. (3-0-3); II. An analysis of a series of primary and secondary sources that illustrate political, economic, racial, ethnic, personal, and terrorist violence in America.

HIS 347. The American Indian. (3-0-3); I. The historical development of the native Americans from their entrance into this hemisphere down to the present day.

HIS 348. Sports in History. (3-0-3); I, II, III. Beginning with the ancient Greeks and Romans, the course moves through the Middle Ages, the Renaissance, and Reformation to the modern world. The class stresses the development of sports in the United States.

HIS 349. Vietnam and Watergate: Kennedy, Johnson, Nixon. (3-0-3); II. An intensive study of the Vietnam War and the Watergate scandal in the context of domestic and foreign policy developments in America since 1945.

HIS 351. England to 1660. (3-0-3); I. The political, social, and economic institutions of England to the fall of the Puritan Commonwealth.

HIS 352. England Since 1660. (3-0-3); II. A history of England from the Restoration to the rise of the British Commonwealth.

HIS 353. Russia to 1917. (3-0-3); I. Russia from Kievan times to the overthrow of the Romanov dynasty.

HIS 354. Russia since 1917. (3-0-3); II. A detailed history of Soviet Russia from the revolution to the Cold War.

HIS 363. History of Witchcraft. (3-0-3); I, II, III. A survey of witchcraft and the occult from ancient times to the contemporary.

HIS 366. The Middle East. (3-0-3); I. A survey of the Moslem World beginning with the great surge of the eighth century and culminating in the present Middle Eastern situation.

HIS 370. African History. (3-0-3); II. The early African states, the slave trade era, the rise and fall of the Imperial Empires, and post-independence events.

HIS 375. The Teaching of Social Studies. (3-0-3); I. Prerequisite: open only to majors and minors in the social sciences with a minimum of 18 credit hours. A laboratory experience designed to develop methods, techniques, and materials for the teaching of social studies in the secondary schools. (Does not count in a major or minor.)

HIS 379. Latin American History. (3-0-3); II. The Indian background, the rise and fall of the Spanish and Portuguese Empires, and the major events since independence with concentration upon the major states.

HIS 382. War in the Modern World. (3-0-3); I. The origins, course, and results of a century of total war and its effect upon the social, cultural, and economic life of the world.

HIS 385. Technology and America. (3-0-3); II. Technology in the modern world; its development as a response to the social, political, and economic forces.

HIS 387. "Herstory": Womanhood and Civilization. (3-0-3); I. The experiences and thoughts of women who have played outstanding roles in the social, political, and economic development of civilization.

HIS 388. History of Corrections. (3-0-3); I. (See CORR 388.)

HIS 540. Colonial America. (3-0-3); I. The nation from the Age of Discovery to the Revolutionary War.

HIS 541. American Revolution and Federal Period. (3-0-3); II. A continuation of 540 covering the period from the American Revolution to the Era of Good Feelings.

HIS 543. The United States, 1876-1900. (3-0-3); II. Emphasis is placed upon the rise of big business with its resultant epoch of America as a world power.

HIS 544. Kentucky Historical Tours. (3-0-3); I, II. Provides students with an opportunity to see, hear, and read about Kentucky's exciting historical places. (Does not count toward a master's degree in history.)

HIS 545. The United States, 1900-1939. (3-0-3); I. The American people from the Progressive Period through the New Deal.

HIS 546. The United States, 1939-Present. (3-0-3); II. America from World War to world leadership. Emphasis is placed upon the resultant social problems.

HIS 548. United States Foreign Relations. (3-0-3); I. A survey designed to acquaint the student with the foreign relations of the United States from its conception to our present role in the United States.

HIS 549. American Life and Thought. (3-0-3); II. A survey of the American intellectual heritage from Puritanism to the "mod" world.

HIS 550. The World 1914-1939. (3-0-3); I. A study extending from World War I to the outbreak of the Second World War with special emphasis on communism, facism, and nazism.

HIS 551. Religion in American History. (3-0-3); II. Religion in all facets of American history; cultural, secular, and institutional. The role of religion in the molding of our nation.

HIS 552. The World, 1939 to the Present. (3-0-3); II. A detailed study of World War II and the aftermath of a world divided.

HIS 558. The Slavery Controversy. (3-0-3); II. The issues growing out of differences concerning slavery within voluntary societies.

HIS 576. American History: Directed Readings. (1 to 3 hrs.); I, II, III. Prerequisite: open only to history majors and minors with permission of the chairman.

HIS 577. European History: Directed Readings. (1 to 3 hrs.); I, II, III. Prerequisite: open only to history majors and minors with permission of the chairman.

HIS 578. Non-Western History: Directed Readings. (1 to 3 hrs.); I, II, III. Prerequisite: open only to history majors and minors with permission of the chairman.

Military Science

The objective of the military science program, offered on an elective basis, is to impart leadership and management skills required in both civilian and military enterprises. The program affords both men and women the opportunity to be commissioned as officers in the United States Army Reserve, National Guard, or the active Army upon graduation.

Requirements for a Military Science 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—Intro. to Military Science	2
*MS 102—U.S. Army	2
MS 105—Conditioning	1
MS 111—Basic Rifle Marksmanship	1
*MS 201—Leadership Principles and Techniques	2
*MS 202—Instructional Techniques and Survey of Army Career Fields	2
MS 301—Advanced Military Science I	2
MS 302—Advanced Military Science II	2
MS 401—Advanced Military Science I	2
MS 402—Advanced Military Science II	2
Electives of particular interest and value to military science as approved by military science advisor	7-9
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 2.3 or higher.
3. A grade-point average of 2.5 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 vice president for academic affairs, and an MS IV cadet who has the rank of major or above.

MILITARY SCIENCE

NOTE: (3-2-4) following course title means three hours class, two hours laboratory, four hours credit. Roman numerals I, II, III following the credit allowance indicate the semester in which the course is normally scheduled: I—fall; II—spring; III—summer.

MS 101. Introduction to Military Science. (2-0-2); I. Analyzes the purpose of our nation's security and defense establishment. Explains the structure and organization of our present-day military forces.

MS 102. U.S. Army: Its Evolution and Development. (2-0-2); II. Study of the United States Army and its roles from colonial times to the present.

MS 105. Conditioning. (4-0-1); I, II. Basic working knowledge of backpacking techniques. Fundamentals of rappelling, survival, and basic camping skills. Practical application designed to develop stamina and physical endurance. (Nine weeks in duration.)

MS 111. Basic Rifle Marksmanship. (1-0-1); I, II. Techniques, skills, and procedures used in basic rifle marksmanship and competitive rifle matches.

MS 201. Leadership Principles and Techniques. (2-0-2); I. Study of leadership and management principles related to both military and civilian applications.

MS 202. Instructional Techniques and Survey of Army Career Fields. (2-0-2); II. A study of first aid, physical readiness, and drill and ceremonies; the roles and mission of the branches of the Army emphasizing available career fields.

MS 301. Advanced Military Science. (2-2-2); I. Study of general military subjects relating to map reading, decision making process, and military operations orders.

MS 302. Advanced Military Science. (2-2-2); II. Application of leadership and management skills; branches of the Army, military weapons, and electronic communications.

MS 339. Cooperative Education in Military Leadership. (4-0-4); III. Attendance at ROTC Advanced Summer Camp. (Six weeks in duration.)

MS 401. Advanced Military Science. (2-2-2); I. Development of cadet awareness of general military subjects to include briefing techniques, military justice, and military law.

MS 402. Advanced Military Science. (2-2-2); II. Development of cadet awareness in ethics and professionalism; and exposure to military administrative procedures, and training and logistics management.

Sociology, Social Work, and Corrections

Programs in three academic and career-oriented areas of study are offered by the Department of Sociology, Social Work, and Corrections.

Sociology

The course of study offered in sociology complements a broad liberal arts education and is suitable preparation for persons wishing to pursue careers in law, human relations, industrial relations, urban and rural planning and zoning, the ministry, high school social science teaching, and a wide variety of positions in public and private agencies.

Requirements for a Major in Sociology

	Sem. Hrs.
SOC 101—General Sociology	3
SOC 305—Cultural Anthropology	3
SOC 405—Sociological Theory	3
SOC 450—Research Methodology	3
SOC—electives of which 12 sem. hrs. must be on the 300 level or above	18
	30

Requirements for a Minor in Sociology

	Sem. Hrs.
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	9
	21

Suggested Sequence of Courses for a BA Degree in Sociology

The following program has been devised to help students in selecting courses in arranging their schedules. Close adherence to it will aid the student in meeting requirements for graduation.

FRESHMAN YEAR

	First Semester	Sem. Hrs.
SOC 101—General Sociology	3	3
ENG 101—Composition I	3	3
SCI 103—Introduction to Physical Sciences	3	3
General education requirement	3	3
*HIS, GEO or GOV general education requirement	3	3
PHED—activity course	1	16

	Second Semester	Sem. Hrs.
SOC 203—Contemporary Social Problems	3	3
ENG 102—Composition II	3	3
BIOL 105—Introduction to Biological Sciences	3	3
General education requirement	3	3
HIST general education requirement	3	15

SOPHOMORE YEAR

	First Semester	Sem. Hrs.
SOC—elective	3	3
HLTH 150—Personal Health	2	2
ENG—literature	3	3
GEO or GOVT general education requirement	3	3
Minor requirement	3	3
General elective	2	16

	Second Semester	Sem. Hrs.
SOC 305—Cultural Anthropology	3	3
SOC—elective	3	3
General education requirement	3	3
MATH general education requirement	3	3
General elective or minor requirement	4	16

JUNIOR YEAR

	First Semester	Sem. Hrs.
SOC—elective	3	3
Minor requirements	6	6
Electives	7	7
		16

	Second Semester	Sem. Hrs.
SOC—elective	3	3
Minor requirements	6	6
Elective	7	7
		16

SENIOR YEAR

	First Semester	Sem. Hrs.
SOC 405—Sociological Theory	3	3
SOC—elective	3	3
Minor requirements and electives	10	10
		16

	Second Semester	Sem. Hrs.
SOC 450—Research Methodology	3	3
Minor requirements and electives	13	13
		16

*Students seeking teacher certification should consult their advisors.

Requirements for a Major in Sociology with an Emphasis in Corrections

	Sem. Hrs.
SOC 101—General Sociology	3
SOC 203—Contemporary Social Problems	3
SOC 354—The Individual and Society	3
SOC 374—American Minority Relations	3
SOC 405—Sociological Theory	3
SOC 450—Research Methodology	3
COR 201—Sociology of Corrections	3
COR 320—Probation and Parole	3
COR 420—Seminar in Criminal Behavior	3
COR 590—Practicum in Corrections	6
Elective	3
	36

Suggested Sequence of Courses for a BA Degree in Sociology/Corrections

The following program has been devised to help students in selecting courses and arranging their schedule. Close adherence to it will aid the student in meeting requirements for graduation.

FRESHMAN YEAR

First Semester

Sem. Hrs.

SOC 101—General Sociology	3
ENG 101—Composition I	3
SCI 103—Introduction to Physical Sciences	3
General education requirement	3
HIS general education requirement	3
PHED—activity course	1
	16

Second Semester

SOC 203—Contemporary Social Problems	3
ENG 102—Composition II	3
BIOL 105—Introduction to Biological Sciences	3
General education requirement	3
GEO or GOVT general education requirement	3
General elective	1
	16

SOPHOMORE YEAR

First Semester

COR 201—Sociology of Corrections	3
ENG—literature elective	3
HLTH 150—Personal Health	2
General education requirement	2
Minor requirement	3
General elective	2
	16

Second Semester

SOC 354—The Individual and Society	3
General education requirements	6
General elective or minor requirement	7
	16

JUNIOR YEAR

First Semester

COR 320—Probation and Parole	3
SOC 374—American Minority Relations	3
General electives and minor requirements	10
	16

Second Semester

COR—elective	3
General electives and minor requirements	13
	16

SENIOR YEAR

First Semester

SOC 405—Sociological Theory	3
General electives and minor requirements	13
	16

Second Semester

COR 420—Seminar in Criminal Behavior	3
COR 590—Practicum in Corrections	6
SOC 450—Research Methodology	3
General electives and minor requirements	4
	16

Social Work

Social work is a helping people profession. At MSU, the social work program is a professional training program that prepares students for entry level professional social work practice. The program has baccalaureate level professional education accreditation in the Council on Social Work Education.

Requirements for the Bachelor of Social Work

Sem. Hrs.

SWK 210—Orientation to Social Welfare	4
SWK 230—Social Work Values and Policy	3
SWK 322—Human Behavior in the Social Environment	3
SWK 325—Social Work Practice I	3
SWK 425—Social Work Practice II	3
SWK 450—Research Methodology	3
SWK 490—Senior Seminar	1
SWK 510—Practicum in Social Work	8
SWK 525—Social Work Practice III	3
SWK 530—Social Policy and Planning	3
SWK—electives	6
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
SOC 405—Sociological Theory	3
ENG 591 or 592—Technical Writing	3

ECON 101—Introduction to the American Economy	3
GOVT 380—American Courts and Civil Rights	3
GOVT 242—State and Local Government	3
PHIL 200—Introduction to Philosophy	3
PSY 154—Introduction to Psychology	3
PSY 390—Psychology of Personality	3
OR	
PSY 590—Abnormal Psychology	3
General education requirements and electives	49
	128

Suggested Sequence of Courses for a BSW Degree

The following program has been devised to help students in selecting courses and arranging their schedules. Close adherence to it will add the student in meeting requirements for graduation.

FRESHMAN YEAR

First Semester

Sem. Hrs.

SOC 101—General Sociology	3
ENG 101—Composition I	3
BIOL 105—Introduction to Biological Sciences	3
PSY 154—Introduction to Psychology	3
HLTH 150—Personal Health	2
PHED—activity course	1
	15

Second Semester

SWK 210—Orientation to Social Welfare	4
SOC 203—Contemporary Social Problems	3
ENG 102—Composition II	3
ECON 101—Introduction to the American Economy	3
General elective	3
	16

SOPHOMORE YEAR

First Semester

SWK 230—Social Work Values and Policy	3
ENG 202—Introduction to Literature	3
General education requirement	3
PHIL 200—Introduction to Philosophy	3
SCI 103—Introduction to Physical Sciences	3
General elective	1
	16

Second Semester

SWK 322—Human Behavior in the Social Environment	3
GOVT 242—State and Local Government	3
SOC 305—Cultural Anthropology	3
SPCH 110—Basic Speech	3
General elective	3
	15

JUNIOR YEAR

First Semester

SWK 325—Social Work Practice I	3
SOC 374—American Minority Relations	3
PSY 390—Psychology of Personality	3
OR	
PSY 590—Abnormal Psychology	3
SWK—elective	3
General elective	3
	15

Second Semester

SWK 425—Social Work Practice II	3
SOC 354—The Individual and Society	3
SOC 405—Sociological Theory	3
GOVT 380—American Courts and Civil Rights	3
SWK 450—Research Methodology	3
General elective	3
	18

SENIOR YEAR

First Semester

SWK 525—Social Work Practice III	3
SWK 510—Practicum in Social Work	4
SWK 530—Social Policy and Planning	3
General electives	6
	16

Second Semester

SWK 510—Practicum in Social Work	4
SWK 490—Senior Seminar	1
ENG 591 or 592—Technical Writing	3
SWK—electives	3
General electives	6
	17

Requirements for the Associate of Applied Arts in Social Work

	Sem. Hrs.
SWK 210—Orientation to Social Welfare	4
SWK 230—Social Work Values and Policy	3
SWK 310—Field Experience in Social Work	3
SWK 315—Child Welfare Services	3
SWK 322—Human Behavior in the Social Environment	3
SWK 325—Social Work Practice I	3
SOC 101—General Sociology	3
SOC 203—Contemporary Social Problems	3
SOC 354—The Individual and Society	3
ECON 101—Introduction to the American Economy	3
ENG 101—Composition I	3
ENG 102—Composition II	3
OR	
ENG 192—Technical Composition	3
PHIL 200—Introduction to Philosophy	3
GOVT 242—State and Local Government	3
PSY 154—Introduction to Psychology	3
HLTH 150—Personal Health	2
MATH—elective	3
Approved electives	14
	65

Corrections

Corrections is a field providing challenging opportunities for those desiring a career focused upon the treatment and rehabilitation of criminal offenders. The corrections program at Morehead State University is designed to provide well-trained, highly skilled personnel to fill new positions and to provide retraining and in-service training for existing correctional personnel.

The program of study combines the liberal arts, social sciences, and corrections philosophies and principles of practice. In addition to participating in traditional classroom learning situations, students are required to work in correctional settings so that they may acquire practical experience in the profession.

Requirements for an Area of Concentration in Corrections

	Sem. Hrs.
COR 201—Sociology of Corrections	3
COR 320—Probation and Parole	3
COR 420—Seminar in Criminal Behavior	3
COR 450—Research Methodology	3
COR 510—Law of Corrections	3
COR 515—Correctional Counseling	3
COR 590—Practicum in Corrections	6
COR—advanced electives	12
SOC 101—General Sociology	3
SOC 203—Contemporary Social Problems	3
SOC 354—The Individual and Society	3
SOC 374—American Minority Relations	3
SOC 405—Sociological Theory	3
SOC—advanced electives	6
GOVT 540—Public Administration	3
SWK 535—Group Dynamics	3
ENG 591 or 592—Technical Writing	3
PSY 154—Introduction to Psychology	3
PSY 590—Abnormal Psychology	3
General requirements and electives	56
	128

Suggested Program

The following program has been devised to help students in selecting courses and arranging their schedules. Close adherence to it will aid the student in meeting requirements for graduation.

FRESHMAN YEAR

	Sem. Hrs.
First Semester	
SOC 101—General Sociology	3
ENG 101—Composition I	3
SCI 103—Introduction to Physical Science	3
General education requirement	3

HIS general education requirement	3
PHED—activity course	1
	16

Second Semester

COR 201—Sociology of Corrections	3
SOC 203—Contemporary Social Problems	3
ENG 102—Composition II	3
BIOL 105—Introduction to Biological Science	3
GEO or GOVT general education requirement	3
	15

SOPHOMORE YEAR

First Semester

SOC 354—The Individual and Society	3
PSY 154—Introduction to Psychology	3
ENG 202—Introduction to Literature	3
General education requirement	6
	15

Second Semester

COR 320—Probation and Parole	3
SOC 374—American Minority Relations	3
Corrections elective	3
Sociology elective	3
General education requirement	3
	15

JUNIOR YEAR

First Semester

Corrections elective	3
Sociology elective	3
General education requirements	6
General elective	3
	15

Second Semester

COR 510—Law of Corrections	3
SOC 405—Sociological Theory	3
GOVT 540—Public Administration	3
Corrections elective	3
General education requirement	3
	15

SENIOR YEAR

First Semester

COR 450—Research Methodology	3
COR 515—Correctional Counseling	3
SWK 535—Group Dynamics	3
ENG 591 or 592—Technical Writing	3
General education requirements	6
	18

Second Semester

COR 420—Seminar in Criminal Behavior	3
COR 590—Practicum in Corrections	6
PSY 590—Abnormal Psychology	3
Corrections elective	3
Social Science elective	3
	18

For a Minor in Corrections

	Sem. Hrs.
COR 201—Sociology of Corrections	3
COR 320—Probation and Parole	3
COR 420—Seminar in Criminal Behavior	3
Advanced electives in corrections	12
	21

Requirements for an Associate of Applied Arts in Corrections—Two-Year Program

	Sem. Hrs.
COR 201—Sociology of Corrections	3
COR 320—Probation and Parole	3
COR 390—Field Experience in Corrections	3
COR 420—Seminar in Criminal Behavior	3
Advanced corrections electives	9
SOC 101—General Sociology	3
SOC 203—Contemporary Social Problems	3
SOC 354—The Individual and Society	3
SOC 374—American Minority Relations	3
SWK 210—Orientation to Social Welfare	4
SWK 315—Child Welfare Services	3

GOVT 380—American Courts and Civil Rights	3
PSY 154—Introduction to Psychology	3
ENG 101—Composition I	3
ENG 102—Composition II	3
ENG 192—Technical Composition	3
MATH 131—General Mathematics	3
Approved electives	7
	65

Description of Courses

NOTE: (3-0-3) following course indicates: 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally offered: I—fall semester; II—spring semester, and III—summer term.

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 COR 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, II. 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 302. Population Dynamics. (3-0-3); I, II. 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); I. 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, III. 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. An introduction with special emphasis on man's biological and cultural development.

SOC 306. Juvenile Delinquency. (3-0-3); II. 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 310. The Sociology of Deviance. (3-0-3); I. Designed to introduce the student to the sociological perspective with respect to the definition, causes, and social consequences of deviance.

SOC 312. Sociology of Sports. (3-0-3); I. 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. The rise of modern cities; theoretical explanations of urbanization; and the analysis of modern urban problems.

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 374. American Minority Relations. (3-0-3); I, II, III. 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. (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 401. Criminology. (3-0-3); on demand. Cause, treatment, and prevention of crime.

SOC 405. Sociological Theory. (3-0-3); I, II, III. Modern sociological theory, including 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. (See COR 420.)

SOC 450. Research Methodology. (3-0-3); I, II, III. Methods of sociological research, including the fundamental assumptions underlying research; some practical experience in research design, data collection, techniques, and data analysis.

SOC 476. Special Problems. (1 to 3 hrs); I, II, III. Prerequisite: Consent of instructor and department head. 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. A 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 and the processes of balancing community needs and resources; planned and unplanned social change.

SOC 540. Gerontology. (3-0-3); II. (See SWK 540.)

SOC 545. Death and Dying. (3-0-3); I. (See SWK 545.)

SOCIAL WORK

SWK 210. Orientation to Social Welfare. (3-1-4); I, II. An introduction to the philosophy and early development of social welfare services, and exploration of the organization and function of social work practices in both the primary and secondary settings.

SWK 230. Social Work Values and Social Policy. (3-0-3); I, II. A study of values and policy formulation. Dominant values of the American society which influence social welfare policy will be compared with professional social work value commitment and social policy development and implementation.

SWK 310. Field Experiences in Social Work. (3-0-3); I, II. Observation and work experience in a social work agency under the supervision of a professional worker. Required for associate degree only.

SWK 315. Child Welfare Services. (3-0-3); I, II. Local, state, and national policies and programs designed to provide for the care, protection, and support of children.

SWK 322. Human Behavior in the Social Environment. (3-0-3); I, II. A study of the development of human behavior in the context of social systems. Special emphasis is placed on the development of physical and social functioning of the individual in the various stages of the life cycle.

SWK 325. Social Work Practice I. (3-0-3); I, II. The student will master at the beginning level the social work principles, practice methods, and processes essential to facilitating changes in various social systems.

SWK 425. Social Work Practice II. (3-0-3); I, II. This course is designed to enable the student to become a beginning practitioner who has integrated the knowledge and values of the profession as these apply to the interaction of persons and their social environment.

SWK 450. Research Methodology. (3-0-3); I, II, III. (See SOC 450.)

SWK 490. Senior Seminar. (1-0-1); I, II. A seminar providing an integrative capstone in preparation for entering the field of employment.

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 510. Practicum in Social Work. (4 to 8 hrs.); I, II. Actual work experience in the various agencies of social welfare under supervision of a trained and certified professional worker.

SWK 515. Correctional Counseling. (3-0-3); II. (See COR 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 525. Social Work Practice III. (3-0-3); I, II. The student will master advanced social work practice methods as they are applied to social systems.

SWK 530. Social Policy and Planning. (3-0-3); I, II. An analytical study of social welfare policy formulation, funding, and delivery systems and planning processes.

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. 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.

SWK 545. Death and Dying. (3-0-3); I. The analysis of death and dying as social processes and problems; strategies for working with dying persons.

CORRECTIONS

COR 201. Sociology of Corrections. (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.

COR 306. Juvenile Delinquency. (3-0-3); II. (See SOC 306.)

COR 310. The Sociology of Deviance. (3-0-3); I. (See Soc 310.)

COR 320. Probation and Parole. (3-0-3); II. An analysis of community treatment in the process of corrections. Emphasis is placed upon the development, organization, administration, operation, and results of probation and parole.

COR 388. History of Corrections.(3-0-3); II. 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.

COR 390. Field Experience in Corrections. (0-0-3); I, II, III. Field experience in a jail, detention home, juvenile or adult correctional institution, juvenile or adult probation or parole agency. In addition, issues and practices for field study in corrections are examined.

COR 401. Criminology. (3-0-3); on demand. (See SOC 401.)

COR 420. Seminar in Criminal Behavior. (3-0-3); II. 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.

COR 450. Research Methodology. (3-0-3); I, II, III. (See SOC 450.)

COR 476. Special Problems. (1 to 3 hrs.); I, II, III. Prerequisite: Consent of instructor and department head. Arranged with the department to study some particular aspect of the field of corrections.

COR 510. Law of Corrections. (3-0-3);I. 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.

COR 515. Correctional Counseling.(3-0-3); II. The basic concepts and principles involved in interviewing, counseling, and group therapy which are employed in correctional facilities.

COR 590. Practicum in Corrections. (0-0-6); I, II, III. 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.

Faculty

The date in parentheses after the name is that of first appointment to a position on the faculty of this university.

School of Applied Sciences and Technology

Department of Agriculture

Tamara Adye, assistant instructor (1979), B.S., William Woods College
 Joe F. Bendixen, professor (1971), Ph.D., Iowa State University
 Andrew Boston, professor (1982), Ph.D., Oklahoma State University
 Gene D. Carswell, instructor (1978), B.S., Middle Tennessee State University
 Charles M. Derrickson, professor (1965), Ph.D., Michigan State University
 Benjamin W. Harmon, assistant professor (1978), Ph.D., Virginia Polytechnic Institute and State University
 James C. Martin, associate professor (1975), Ph.D., University of Missouri
 Martha Norris, assistant professor (1976), Ed.S., Morehead State University
 Judith Willard, associate professor (1977), Ph.D., University of Kentucky
 Robert H. Wolfe, assistant professor (1967), M.S., Virginia Polytechnic Institute and State University

Department of Allied Health Sciences

Janice Brumagen, assistant professor (1972), M.A.C.E., Morehead State University
 K.A. Clever, associate professor (1979), D.V.M., Ohio State University
 Jacklynn K. Darling, instructor (1979), M.S., Morehead State University
 Ramona Hood, instructor (1979), B.S.N., University of Kentucky
 Daniel J. Luchtefeld, assistant professor (1982), M.S.N., University of Kentucky
 Sheryl Luchtefeld, instructor (1980), B.S.N., Southern Illinois University
 Leroy Overstreet, associate professor (1982), Ed.D., West Virginia University
 Pauline Ramey, assistant professor (1973), M.H.E., Morehead State University
 Elizabeth Tapp, assistant professor (1972), M.A.C.E., Morehead State University

Department of Home Economics

Feledra Dixon, assistant professor (1977), M.S., Eastern Kentucky University
 Nancy Graham, R.D., assistant professor (1975), M.S., University of Kentucky
 Jacquelyn H. McCullough, professor (1982), Ph.D., Purdue University
 Floy R. Patton, assistant professor (1967), M.S., University of Kentucky
 Carolyn Taylor, assistant professor (1974), Ed.S., Morehead State University
 Betty Fritz Woodard, instructor (1980), M.S., University of Kentucky

Department of Industrial Education and Technology

Donal L. Hay, professor (1976), Ph.D., Texas A & M University
 Robert T. Hayes, assistant professor (1974), M.S., Eastern Kentucky University
 Sanford Hill, instructor (1980), M.S., Murray State University
 Dennis Karwatka, associate professor (1970), M.S., Indiana State University
 John C. McNeely, instructor (1979), M.S., Murray State University
 Wayne Morella, assistant professor (1971), M.H.E., Morehead State University
 Edward G. Nass, assistant professor (1963), M.S.Ed., Northwestern State College of Louisiana
 Robert E. Newton, professor (1963), Ed.D., Texas A & M University
 A.R. Putnam, associate professor (1978), Ed.D., Oklahoma State University
 Meade S. Roberts, associate professor (1966), M.Ed., University of Cincinnati
 Ronald Sutliff, instructor (1978), M.S., University of Michigan
 Ronald Tucker, professor (1968), Ed.D., Oklahoma State University
 Pepper A. Tyree, assistant professor (1973), M.S., Murray State University
 John Vanhoose, assistant professor (1976), M.S., Morehead State University

Mining Technology Program

Forrest Cameron, assistant professor (1978), M.B.A., Morehead State University

Sampath Kumar, assistant professor (1978), M.S., Southern Illinois University

School of Business and Economics

Department of Accounting and Economics

John M. Alcorn, assistant professor (1976), M.B.A., Georgia State University
 Sharon Kay Bishop, instructor (1977), M.B.A., Morehead State University
 Alex D. Conyers, associate professor (1958), M.B.A., University of Kentucky
 Joe B. Copeland, associate professor (1975), Ph.D., University of Arkansas
 Bernard Davis, professor (1978), Ph.D., University of Kentucky
 John Graham III, assistant professor (1967), M.H.E., Morehead State University
 Louis S. Magda, professor (1966), Ph.D., Jozsef Nador University
 Green R. Miller, assistant professor (1979), M.A., University of Oregon
 Thomas C. Morrison, professor (1969), Ph.D., North Carolina State University
 John W. Osborne, assistant professor (1977), M.B.A., Eastern Kentucky University
 William Sharp, instructor (1970), M.B.E., Morehead State University
 Larry Stephenson, assistant professor (1967), M.A., Morehead State University
 Gary L. Van Meter, professor (1976), M.B.A., Southern Illinois University
 William M. Whitaker III, professor (1975), Ph.D., University of Kentucky

Department of Information Sciences

Bonnie H. Bailey, instructor (1979), M.B.A., Morehead State University
 Herbert Berry, assistant professor (1980), Ph.D., New York University
 Jack Henson, assistant professor (1970), M.S.E., Arkansas State University
 M. Louise Hickman, professor (1968), Ed.D., University of Kentucky
 Sue Y. Luckey, professor (1963), Ph.D., Southern Illinois University
 George F. Montgomery, professor (1969), Ed.D., University of North Dakota
 Carole C. Morella, assistant professor (1966), M.A., Morehead State University
 Helen A. Northcutt, assistant professor (1966), A.M., Morehead State University
 Gail C. Ousley, assistant professor (1969), M.B.E., Morehead State University
 James M. Smiley, professor (1973), Ph.D., Ohio State University
 Helen Williams, instructor (1978), M.B.E., Morehead State University

Department of Management and Marketing

C. Dale Caudill, instructor (1980), M.B.A., Morehead State University
 Michael Harford, chairholder and assistant professor of Real Estate (1981), J.D., Wake Forest University
 Eugene Martin, professor (1972), Ed.D., University of Cincinnati
 Mary Peggy Osborne, instructor (1979), M.B.A., Morehead State University
 Jack W.R. Peters, associate professor (1979), Ph.D., University of North Dakota
 Bill B. Pierce, professor (1964), Ed.D., Wayne State University
 Vinson Watts, adjunct assistant professor (1968), M.A., Eastern Kentucky University

School of Education

Department of Curriculum and Instruction

Shirley Blair, assistant professor (1970), A.M., Morehead State University
 Diane Cox, assistant professor (1978), Ed.S., Morehead State University
 Gretta Duncan, assistant professor (1968), A.M., Morehead State University
 Dennis Edinger, associate professor (1979), Ph.D., University of Florida
 Jerry Franklin, assistant professor (1969), M.Ed., Xavier University
 Kent Freeland, associate professor (1977), Ph.D., University of Iowa
 Carol Ann Georges, assistant professor (1970), M.A., University of Kentucky
 Lawrence E. Griesinger, professor (1965), Ed.D., University of Cincinnati
 Coletta Grindstaff, assistant professor (1969), A.M., East Tennessee State University
 Coleene Hampton, instructor (1973), A.M., Morehead State University
 William Hampton, professor (1959), Ed.D., University of Kentucky
 Katherine Herzog, assistant professor (1979), Ed.D., Florida State University
 Noah Logan, associate professor (1966), Ed.D., University of Missouri

Jessie Mangrum, assistant professor (1968), A.M., Morehead State University
 Rodney Don Miller, professor (1966), Ed.D., Indiana University
 Bill F. Moore, associate professor (1970), Ph.D., University of Iowa
 Randolph Overbeck, adjunct professor (1980), M.S.T., University of Dayton
 John W. Payne, professor (1969), Ed.D., University of Kentucky
 Mary Ann Pollock, assistant professor (1977), A.M.E.D., Morehead State University
 Mary N. Powell, professor (1955), Ed.D., George Peabody College
 Diane Ris, S.P., associate professor (1977), Ed.D., Ball State University
 William T. Rosenberg, assistant professor (1970), A.M., Morehead State University
 Layla Sabie, associate professor (1965), Ed.D., George Peabody College
 John Stanley, associate professor (1964), M.S., Mississippi State College
 Patricia Watts, adjunct professor (1970), M.H.E., Morehead State University
 Randall Wells, professor (1968), Ph.D., Union Graduate School
 Sue Wells, assistant professor (1968), A.M., Morehead State University
 Charles Whitfield, assistant professor (1980), Ed.D., Texas Tech University
 Edie Whitfield, adjunct professor (1980), Ed.D., Texas Tech University
 Stephen Young, associate professor (1968), Ed.D., Indiana University

Department of Health, Physical Education and Recreation

Palmer Adkins, assistant professor (1979), M.A., Morehead State University
 John E. Allen, assistant professor (1954), M.A., Morehead State University
 Earl J. Bentley, professor (1959), Ed.D., University of Southern Mississippi
 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
 Steve Hamilton, instructor (1976), M.A., Morehead State University
 Edward Lucke, professor (1969), Ed.D., George Peabody College
 Sue Lucke, assistant professor (1969), M.A., Morehead State University
 Michael Mincey, instructor (1975), M.A., Morehead State University
 G.E. Moran, associate professor (1974), M.A., West Virginia University
 Elizabeth Nesbitt, assistant professor (1973), M.Ed., University of Southern Mississippi
 Howard Nesbitt, professor (1973), Ed.D., Columbia University
 Gretta Gaye Osborne, assistant professor (1965), M.A., Ball State University
 James Osborne, assistant professor (1967), M.A., Morehead State University
 Paul A. Raines, professor (1966), Ph.D., University of Iowa
 Mohammed Sabie, professor (1964), Ed.D., George Peabody College
 Harry F. Sweeney, associate professor (1969), Ed.D., University of Tennessee
 Charles B. Thompson, professor (1963), Ed.D., University of Southern Mississippi
 Larry Wilson, adjunct professor (1968), M.A., Morehead State University

Coaches/Intramurals

Steven C. Loney, head football coach (1979), M.A., Iowa State University
 Wayne Martin, head basketball coach (1978), M.A., Morehead State University
 Robert M. Wells, intramural director and head girls basketball coach (1966), M.A., Morehead State University

Department of Leadership/Foundations

Reedus Back, professor (1962), Ed.D., University of Kentucky
 Wanda Bigham, assistant professor (1973), Ed.D., University of Kentucky
 Frank Burns, assistant professor (1973), M.A., Morehead State University
 Buford Crager, assistant professor (1967), M.H.E., Morehead State University
 Richard Daniel, professor (1976), Ed.D., North Carolina State University
 J. Michael Davis, professor (1979), Ed.D., University of Miami
 John R. Duncan, professor (1964), Ed.D., Indiana University
 George W. Eyster, associate professor (1968), Ed.S., Michigan State University
 Rondal Hart, associate professor (1958), Ph.D., Union Graduate School
 Charles Hicks, professor (1971), Ph.D., Southern Illinois University
 John T. Holton, assistant professor (1980), Ph.D., Ohio State University
 Harry C. Mayhew, associate professor (1963), Ed.D., Ball State University
 Ronald Mersky, associate professor (1979), Ed.D., Virginia Polytechnic Institution and State University
 Robert C. Needham, professor (1961), Ed.D., University of Kentucky
 Morris L. Norfleet, professor (1962), Ph.D., Purdue University

Dean Owen, associate professor (1977), Ph.D., University of Florida
 Ben K. Patton Jr., professor (1960), Ph.D., Louisiana State University
 James H. Powell, professor (1968), Ed.D., University of Kentucky
 Gene A. Ranvier, instructor (1977), M.A., Ball State University
 Harold Rose, professor (1968), Ph.D., Florida State University
 Gary Silker, adjunct professor (1980), Ed.D., Oklahoma State University
 Stephen Taylor, professor (1973), Ph.D., Florida State University
 Dan Thomas, professor (1969), Ph.D., University of Southern Mississippi
 William Weikel, associate professor (1975), Ph.D., University of Florida
 Jean Wilson, assistant professor (1978), Ed.D., Indiana University

Department of Psychology

Laurence Bart, adjunct professor (1980), Ph.D., University of South Florida
 L. Bradley Clough, professor (1966), Ph.D., University of Connecticut
 James E. Gotsick, professor (1968), Ph.D., Syracuse University
 Anna Lee Hicks, associate professor (1971), Ph.D., University of Kentucky
 Charles Morgan, assistant professor (1979), Ph.D., University of Florida
 Francis Osborne, professor (1967), Ph.D., Syracuse University
 George S. Tapp, professor (1968), Ph.D., University of Kentucky
 William F. White, professor (1978), Ph.D., State University of New York at Buffalo

School of Humanities

Department of Art

Douglas G. Adams, associate professor (1967), M.A., Morehead State University
 David Bartlett, assistant professor (1980), M.F.A., University of Michigan
 Bill R. Booth, professor (1970), Ph.D., University of Georgia
 Louise Booth, adjunct professor (1971), M.A., George Peabody College
 Dixon Ferrell, assistant professor (1980), M.F.A., University of Mississippi
 Robert Franzini, assistant professor (1980), M.F.A., University of Iowa
 Ryan Howard, professor (1972), Ed.D., University of Michigan
 Roger H. Jones, professor (1965), Ed.D., Indiana University
 Joe D. Sartor, assistant professor (1968), M.A., University of Missouri

Department of Communications

Narian D. Batra, associate professor (1981), Ph.D., Gujarat University
 Michael Biel, associate professor (1978), Ph.D., Northwestern University
 William David Brown, associate professor (1966), M.A., Louisiana State University
 George Burgess, assistant professor (1964), M.A., Morehead State University
 Fred Church, instructor (1982), M.A., Wake Forest University
 David Collins, instructor (1981), M.A., Marshall University
 Joyce Crouch, instructor (1975), M.A., Morehead State University
 Larry Dales, assistant professor (1967), A.M., Brigham Young University
 Richard Dandeneau, associate professor (1981), Ph.D., Southern Illinois University
 Myron Doan, instructor (1976), M.M.E., Morehead State University
 Harlen Hamm, associate professor (1965), A.M., Bowling Green State University
 Keith Kappes, adjunct professor (1969), M.H.E., Morehead State University
 Carolyn McClure, instructor (1981), M.A., West Virginia University
 Lyle Miller, instructor (1979), M.F.A., University of Oklahoma
 Larry Netherton, assistant professor (1968), A.M., Morehead State University
 Marvin J. Philips, associate professor (1967), M.F.A., Carnegie Institute of Technology
 James E. Quisenberry, professor (1968), Ph.D., Ohio University
 Tom E. Scott III, instructor (1976), M.A., Morehead State University
 Jack E. Wilson, professor (1967), Ph.D., Michigan State University
 Paul David Wright, instructor (1978), M.A., Morehead State University
 Thomas L. Yancy, instructor (1977), B.S., University of Texas

Department of Languages and Literature

Ruth B. Barnes, professor (1963), D. Lit., Ph.D., London University (England)
 Glenna E. Campbell, associate professor (1966), M.A., Morehead State University
 Robert A. Charles, professor (1971), Ph.D., Pennsylvania State University
 Betty M. Clarke, assistant professor (1965), M.A., Morehead State University
 Donald H. Cunningham, professor (1972), Ph.D., University of Missouri
 G. Ronald Dobler, professor (1972), Ph.D., University of Iowa
 Marc D. Glasser, professor (1972), Ph.D., Indiana University
 Bernard G. Hamilton, assistant professor (1963), A.M., University of Mississippi
 Katherine Hawkins, instructor (1967), M.A., Ball State University
 Frances L. Helphinstine, associate professor (1966), Ph.D., Indiana University

Joyce C. LeMaster, associate professor (1961), M.A., Morehead State University
 Ina M. Lowe, assistant professor (1970), M.A., Morehead State University
 George A. Mays, assistant professor (1969), M.H.E., Morehead State University
 Edward E. Morrow, assistant professor (1961), A.M., George Peabody College
 Mary M. Netherton, assistant professor (1964), M.A., University of Kentucky
 Rose Orlich, professor (1970), Ph.D., Notre Dame University
 Essie C. Payne, assistant professor (1966), A.M., Auburn University
 Charles Pelfrey, professor (1962), Ph.D., University of Kentucky
 Betty H. Peters, assistant professor (1975), M.H.E., Morehead State University
 Glenn C. Rogers, professor (1967), Ph.D., University of North Carolina
 Judy Rogers, professor (1967), Ph.D., University of North Carolina
 M.K. Thomas, professor (1964), Ed.D., Tulsa University
 Victor A. Venetozzi, associate professor (1960), M.A., Morehead State University

Department of Music

David Anderson, assistant 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
 William M. Bigham, professor (1965), Ph.D., Florida State University
 Harold Leo Blair, assistant professor (1975), M.F.A., Ohio University
 Suanne Blair, assistant professor (1969), M.M., University of Southern California
 James W. Bragg, associate professor (1963), M.M., New England Conservatory of Music
 R. Jay Flippin, associate professor (1969), M.M., Morehead State University
 E. Glenn Fulbright, professor (1960), Ph.D., Indiana University
 Christopher S. Gallaher, professor (1972), Ph.D., Indiana University
 Katherine Hawkins, instructor (1967), M.A., Ball State University
 Robert V. Hawkins, professor (1967), Ed.D., Columbia University
 JoAnne Keenan, instructor (1976), M.M., Morehead State University
 Larry W. Keenan, associate professor (1967), M.M., Indiana University
 Milford Kuhn, associate professor (1976), M.M., Miami University
 Earle L. Louder, professor (1968), D.M., Florida State University
 Edward Malterer, associate professor (1977), D.A., Ball State University
 Frederick A. Mueller, professor (1967), D.M., Florida State University
 Eugene C. Norden, assistant professor (1968), M.M., Morehead State University
 Frank Oddis, instructor (1977), M.M., East Carolina University
 Robert D. Pritchard II, assistant professor (1972), M.M., Duquesne University
 Raymond Ross Jr., assistant professor (1978), M.M., North Texas State University
 John K. Stetler, associate professor (1959), M.M., Wichita State University
 Lucretia M. Stetler, assistant professor (1964), M.M., Morehead State University
 Vasile J. Venetozzi, associate professor (1966), M.M., Eastman School of Music

Department of Philosophy

Walter G. Emge, professor (1981), Ph.D., Yale University
 Betty R. Gurley, professor (1969), Ph.D., Southern Illinois University
 George M. Luckey, associate professor (1961), M.A., University of Kentucky
 Franklin M. Mangrum, professor (1959), Ph.D., University of Chicago

Personal Development Institute

Carolyn Platt, instructor (1971), M.A., Morehead State University

School of Sciences and Mathematics

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
 Richard G. Eversole, assistant professor (1965), M.A., Morehead State University
 Margaret B. Heaslip, professor (1955), Ph.D., Ohio State University
 Jerry F. Howell Jr., professor (1972), Ph.D., University of Tennessee
 Allen L. Lake, associate professor (1957), Ed.M., State University of New York at Buffalo
 David T. Magrane, associate professor (1976), Ph.D., University of Arizona

Leslie E. Meade, associate professor (1971), M.S., Morehead State University
 Ted Pass II, professor (1972), Ph.D., Virginia Polytechnic Institute and State University
 Madison E. Pryor, professor (1964), Ph.D., University of Tennessee
 David J. Saxon, professor (1967), Ph.D., Southern Illinois University
 Howard L. Setser, associate professor (1964), Ph.D., University of Kentucky

Adjunct Faculty

Harry G. Browne (1956), M.D., Cornell University Medical College
 Victor Y. Cabanas (1966), M.D., Cebu City, Philippines
 Marsha Dameron M.T. (ASCP), (1977), B.S., Thomas More College
 LaVerne Floyd (1972), M.A., Tennessee Technological University
 Astrid Force M.T. (ASCP) (1979), M.Ed., University of Kentucky
 Werner A. Laqueur (1936), M.D., University of Hamburg
 Virginia L. McCormick (1942), B.S., University of Illinois
 Kirit T. Patel (1968), M.D., University of Baroda
 Helen Pater M.T. (ASCP) (1962), B.A., Mt. St. Joseph College
 Henry T. Russell (1972), Ph.D., Purdue University
 Marsha Tracy Starnes (1972), B.S., Eastern Kentucky University
 Earl W. Wert (1940), M.D., University of Pennsylvania
 Barbara B. Whaley (1970), M.S., University of Alabama
 Paul G. Young (1963), M.D., University of Louisville Medical School

Department of Mathematical Sciences

William Chen, associate professor (1979), Ph.D., University of Georgia
 Lake C. Cooper, associate professor (1956), M.A., Morehead State University
 Ben Flora Jr., professor (1972), Ph.D., Ohio State University
 Johnnie G. Fryman, associate professor (1969), Ed.D., University of Kentucky
 Charles Rodger Hammons, professor (1971), Ph.D., University of Kentucky
 Glenn E. Johnston, professor (1969), Ph.D., Texas Tech University
 Charlie L. Jones, associate professor (1962), M.A., Morehead State University
 Robert J. Lindahl, professor (1970), Ph.D., University of Oregon
 Nell F. Mahaney, assistant professor (1963), M.A., Morehead State University
 James D. Mann, associate professor (1966), M.M., University of South Carolina
 Dixie M. Moore, assistant professor (1963), M.A., Marshall University
 Gordon Nolen, associate professor (1967), M.S., University of Kentucky
 Ted M. Pack, instructor (1980), AMED, Morehead State University
 Joyce Saxon, assistant professor (1964), A.M., Morehead State University

Department of Physical Sciences

Chemistry

Herbert C. Hedgecock Jr., assistant professor, (1980), Ph.D., University of Tennessee
 Richard L. Hunt, associate professor (1980), Ph.D., University of Chicago
 Charles A. Payne, professor (1966), Ph.D., Auburn University
 Lamar B. Payne, professor (1962), Ph.D., University of Alabama

Geosciences

James R. Chaplin, associate professor (1961), M.S., University of Houston
 Jules R. DuBar, professor (1967), Ph.D., University of Kansas
 David K. Hylbert, professor (1963), Ph.D., University of Tennessee
 John C. Phillely, professor (1960), Ph.D., University of Tennessee

Physics

Russell M. Brengelman, professor (1967), Ph.D., Georgia Institute of Technology
 David R. Cutts, professor (1968), Ph.D., University of Tennessee
 Charles J. Whidden, professor (1968), Ph.D., Virginia Polytechnic Institute and State University

Science Education

Maurice E. Esham, associate professor (1968), Ed.D., Virginia Polytechnic Institute and State University
 William R. Falls, professor (1961), Ed.D., Indiana University
 Ronald L. Fiel, professor (1972), Ed.D., Indiana University
 Carl V. Ramey, associate professor (1973), Ed.D., Indiana University

School of Social Sciences

Department of Geography

Roland L. Burns, professor (1972), Ed.D., University of Southern Mississippi
 William T. Clark, professor (1964), Ph.D., University of Kentucky
 Gary C. Cox, professor (1970), D.A., University of Northern Colorado

Robert B. Gould, professor (1963), Ph.D., University of Tennessee
James R. Robinson, assistant professor (1965), M.A., Morehead State University

Department of Government and Public Affairs

Lindsey R. Back, associate professor (1974), Ph.D., University of Tennessee
Jack E. Bizzel, professor (1966), Ph.D., Southern Illinois University
Kenneth E. Hoffman, associate professor (1968), M.A., University of Nebraska
William E. Huang, professor (1965), Ph.D., University of Michigan

Department of History

Donald F. Platt, professor (1962), Ph.D., University of Kentucky
James Gifford, associate professor (1978), Ph.D., University of Georgia
John J. Hanrahan, professor (1969), Ph.D., Fordham University
Charles E. Holt, professor (1968), Ph.D., University of Kentucky
Victor B. Howard, professor (1966), Ph.D., Ohio State University
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
Ronald Walke, assistant professor (1968), Ed.D., Indiana University

Department of Sociology, Social Work and Corrections

Robert A. Bylund, assistant professor (1979), Ph.D., Penn State
Philip W. Conn, associate professor (1977), M.A., University of Tennessee
Lola R. Crosthwaite, assistant professor (1968), M.S.W., University of North Carolina
George E. Dickinson, professor (1978), Ph.D., Louisiana State University
Kathryne G. Kolar, assistant professor (1980), M.S.S.W., University Texas at Austin
Ted A. Marshall, associate professor (1977), M.S.W., University of Kentucky
Thomas B. Munson, associate professor (1976), Ph.D., University of Kentucky
Margaret D. Patton, associate professor (1960), A.M., University of Mississippi
David R. Rudy, associate professor (1980), Ph.D., Syracuse University
Alban L. Wheeler, professor (1972), Ph.D., Mississippi State University
Patsy R. Whitson, assistant professor (1970), M.S.W., University of Kentucky
S. Mont Whitson, professor (1970), Ph.D., Texas A&M University

Department of Military Science

Richard W. Altman, Master Sergeant, instructor (1979)
Robert E. Bell, Major, associate professor (1980), B.A., Embry-Riddle University
Kenneth S. Elliott, Captain, assistant professor (1981), B.A., Ripon College
Bruce Miller, Lieutenant Colonel, professor (1982), M.A., Western Kentucky University
Gladue W. Peele Jr., Assistant professor (1981), B.S., North Carolina Central University
John F. Troy, Captain, assistant professor (1980), B.A., Loyola University

Camden-Carroll Library

Mary Arnett, librarian III (1969), M.A., Morehead State University
Carrie Back, librarian III (1968), M.A., Morehead State University
Faye Belcher, associate director of libraries, librarian IV, associate professor of curriculum & instruction (1965), M.S.L.S., University of Kentucky
LeMerle Bentley, librarian III (1969), M.A., Morehead State University
Roberta J. Blair, librarian III (1968), M.A., Morehead State University
Margaret C. Davis, librarian I (1967), B.A., Centre College
Jack D. Ellis, director of libraries, librarian IV, professor of curriculum & instruction (1968), Ed.D., University of Southern Mississippi
Albert H. Evans Jr., librarian III (1973), M.S.L.S., University of Kentucky
Juanita J. Hall, librarian III, assistant professor of curriculum & instruction, (1967), M.L.S., University of Kentucky
Michael D. Killian, librarian III (1970), M.S.L.S., University of Illinois
Linda Lowe, librarian I (1979), M.S.L.S., University of Kentucky
Alton B. Malone, librarian III (1976), M.S.L.S., University of Illinois
Claude E. Meade, Dial Access Center coordinator (1971), M.A., Morehead State University
Betty Morrison, librarian III (1975), M.A.C.E., Morehead State University
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Patti V. Bolin, associate professor of home economics
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Naomi Claypool, associate professor of art
Dorothy Conley, assistant professor of elementary education
Alice E. Cox, associate professor of business
Lorene S. Day, assistant professor of English
Samuel J. Denney, assistant professor of education
Adron Doran, president emeritus
Mignon Doran, director emeritus of Personal Development Institute
Johnson E. Duncan, professor of music
Thelma B. Evans, assistant professor of education
Wilhelm Exelbirt, professor of history
Linus A. Fair, registrar, associate professor of mathematics
Octavia Graves, associate professor of education
Palmer Hall, professor of education
Oval Hall, assistant professor of education
Edmund Hicks, professor of history
Keith Huffman, associate professor of music
Elaine R. Kirk, assistant professor of education
Robert G. Laughlin, professor of health, physical education, and recreation and athletic director
William Mack, assistant professor of health, physical education, and recreation
Hildreth Maggard, instructor of English
Jose M. Maortua, professor of art
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Ethel J. Moore, assistant professor of Latin
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Hazel Nollau, assistant professor of education
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Robert E. Peters, associate professor of education
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Richard M. Reser, professor of sociology
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George Sadler, associate professor of health, physical education, and recreation
Violet Cavell Severy, assistant professor of music
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Clarica Williams, associate professor of library science
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 Clark D. Wotherspoon, professor of education
 George T. Young, associate professor of political science

Abbreviations (Course Prefixes)

ACCT	Accounting	MIN	Mining Technology
AGR	Agriculture	MKT	Marketing
AHS	Allied Health Sciences	MNGT	Management
ART	Art	MS	Military Science
BIOL	Biology	MSCI	Marine Science
BSED	Business Education	MUSC	Music Conducting
CHEM	Chemistry	MUSE	Music Education
COMM	Communications	MUSG	Class Applied Music
CON	Construction Technology	MUSH	Music History & Literature
COR	Corrections	MUSM	Music Ensembles
DATA	Data Processing	MUSP	Private Applied Music
ECON	Economics	MUST	Music Theory
EDAC	Adult and Continuing Education	MUSW	Music Research
EDAD	Education Administration	OADM	Office Administration
EDEC	Early Childhood Education	NUR	Nursing
EDEL	Elementary Education	PDI	Personal Development Institute
EDGC	Guidance and Counseling	PHIL	Philosophy
EDHE	Higher Education	PHED	Physical Education
EDSE	Secondary Education	PHYS	Physics
EDSP	Special Education	PSY	Psychology
EDUC	Professional Education	RAD	Radiologic Technology
ENG	English	RCL	Reclamation Technology
FIN	Finance	REAL	Real Estate
FNA	Fine Arts	REC	Recreation
FRN	French	REL	Religion
GEO	Geography	R-TV	Radio-Television
GEOS	Geoscience	RUS	Russian
GER	German	SCI	Science
GOVT	Government and Public Affairs	SOC	Sociology
HEC	Home Economics	SPA	Spanish
HIS	History	SPCH	Speech
HLTH	Health	SWK	Social Work
IET	Industrial Education Technology	THEA	Theatre
JOUR	Journalism	VET	Veterinary Technology
LAT	Latin	VOC	Vocational Education
LSIM	Library Science and Instructional Media	WEL	Welding Technology
MATH	Mathematics		

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1982

August 23-25
August 26
August 30
September 6
September 7
October 18
November 1

November 8-12
November 24
November 29
December 13-17
December 18

Fall Semester

Registration
Classes begin at 8 a.m. on MWF schedule.
Last day to register for a full load.
Labor Day holiday (no classes or office hours.)
Class work resumes at 8 a.m. Last day to register for credit.
Mid-term grade reports due in Registrar's Office.
Students who drop courses after this date will automatically receive a mark of "E" in the courses dropped.
Pre-registration for spring 1982.
Thanksgiving holiday begins at 11:20 a.m.
Class work resumes at 8 a.m.
Examinations.
First semester closes at noon.

1983

January 10-12
January 13
January 17
January 24
February 21
February 22
March 4
March 5-13
March 14
March 17
March 18

April 1
April 4
April 18-22
May 9-13
May 13
May 14

Spring Semester

Registration.
Classes begin at 8 a.m. on MWF schedule.
Last day to register for a full load.
Last day to register for credit.
Washington's Birthday holiday (no classes or office hours).
Class work resumes at 8 a.m.
Mid-term grade reports due in Registrar's Office.
Spring vacation (no classes or office hours).
Class work resumes at 8 a.m. on MWF schedule.
Founders Day (10:20 and 11:30 classes dismissed).
Students who drop courses after this date will automatically receive a mark of "E" in the courses dropped.
Good Friday holiday (no classes or office hours).
Class work resumes at 8 a.m.
Pre-registration for fall 1982.
Examinations.
Spring commencement.
Second semester closes at noon.