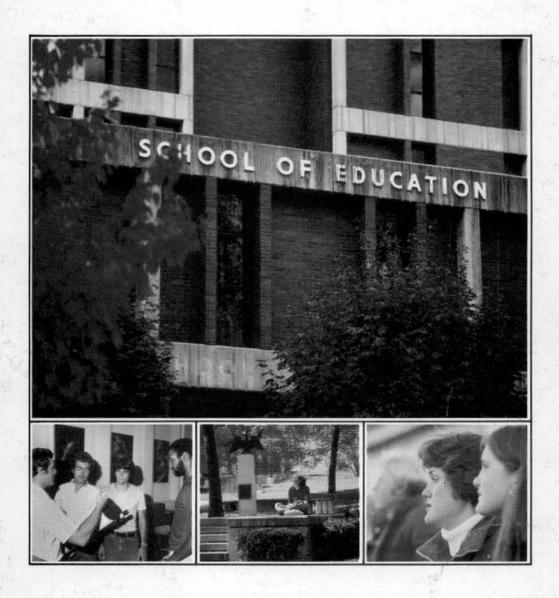
# Morehead State University Undergraduate Catalog 1981-82



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Memberships

American Association of Colleges for Teacher Education American Association of State Colleges and Universities

American Council on Education

Conference of Southern Graduate Schools National Commission on Accreditation National League for Nursing

Southern Regional Education Board

The Council of Graduate Schools in the United States Council for the Advancement and Support of Education

Accreditation

American Medical Association, Committee on Allied Health Education: Medical Assistant

Education

American Veterinary Medical Association

Council on Social Work Education—Baccalaureate Level

National Association of Schools of Music

National Council for the Accreditation of Teacher Education

Radiologic Technology Association

Southern Association of Colleges and Schools

Volume

Date August, 1981

Toll-free 1-800-262-7474 in Kentucky

Numbers 1-800-354-2090 in Southern Ohio and other states bordering Kentucky

Changes Morehead State University reserves the right to change its academic regulations, policies, fees, and curricula without

notice by action of the Kentucky Council on Higher Education and/or the Morehead State University Board of Regents.

Equal Opportunity Morehead State University is committed to providing equal educational opportunity to all persons regardless of race, color, 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 Ac-

tion 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 intellec-

tual, 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:

Accounting

Applied Business

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

Medical Assisting

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:

#### 15 hours Communications and Humanities

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

Biological Science 105 or higher

3. Physical Science 100 or higher

4. 3 hours from 1, 2, or 3 above or Data Processing 201 or Philosophy 200, 303, or 306

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

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

Sociology 101, 170, 203, 305, 354 Psychology 154

3. Government 141, 242, 310

# Geography 100, 211, 241, 300

3 hours A. A total of 3 hours from either of the following

1. Health 150 and one physical education activity

2. Health 203

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 com-

pleted at this University.

 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.

 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.)

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

Same as above. See special requirements in School of Education.

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:

 A minimum of 128 semester hours credit with a cumulative grade-point average of 2.0 or better.

Forty-two hours of general education courses as specified for all degrees offered by Morehead State University.

Forty-three hours of upper division (300-500 level) courses within the 128 semester hour total.

 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.

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 3 semester hours
Technical Composition

C. An additional 9 semester hours from at least three block areas of the General Education matrix

9 semester hours

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 stu-

dent 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 com-

pleted at Morehead State.

 A minimum of 32 hours with 16 hours of credit earned in residence at Morehead State, including one semester immediately preceding graduation at this institution.

# General Education Matrix

Composition I and Speech	Mathematics	Bio. Sciences and Phys. Sciences	Sociology or Psychology	History or Economics	Personal Health and one P.E. activity or Health 203
Composition II or Technical Composition	Bio. Sci	phy or natics or ences or ciences or	Govern Geogra	nment or aphy	Fine Arts Art Music Theatre
Literature		ter Science		Sciences above blocks)	Foreign Language

- 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 from any block of the General Education matrix

3 semester hours

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 ac-

credited 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.

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.

No full-time employed student is permitted to earn more than six hours of credit during a semester, in any combination of residence, correspondence, or study center work.

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 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 within the first 30 school days of the next term in residence if credit is to be granted. Otherwise, the mark automatically becomes an "E".)

### 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.

 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.

 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 requirement.

 A student may register each semester under pass-fail option for one course of any number of hours or a combina-

tion 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.

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.

 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 is it 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. General Information

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:

- They receive a President's List certificate and personal letter of commendation from the president of the University.
- They receive special publicity through the Office of News Services.
- 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.

General Information

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. The letter will be prepared by the Bureau of Academic Affairs.

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:

 Apply for readmission after the lapse of one semester, or
 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

da to the policy statement.

- 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.
- 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:

 The student must petition for bankruptcy prior to completing a baccalaureate degree at Morehead State Univer-

TIL.

The student must have attempted a minimum of 48 semester hours as a student at Morehead State University.

 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

Only hours attempted at Morehead State University will be considerd for bankruptcy.

Procedure

 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.

This petition, signed by the advisor and/or head of the department, will be delivered to the registrar for vertifica-

tion of eligibility.

 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.\*

 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.

- 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.

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.

\*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.

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 exercises twice each year-at the end of the spring semester and at the end of the summer semester term. Students completing their degree requirements during either the fall semester or the spring semester have their degrees conferred during the spring graduation. Students completing their degree requirements during the summer terms are awarded their degrees during the summer graduation. Graduating students who are unable to attend the commencement exercises 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.

To provide the beginning student an orientation to the structure and procedures of the academic area by teacheradvisor.

- 3. To assist each student in preparing class schedules each
- 4. To provide the student with career-guidance data, taking into account job opportunities as well as the student's ap-
- 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.

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 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

- Career counseling—assistance in developing career goals and in selecting majors and minors.
- b. Tutoring in many academic areas. 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 develop-

General Information

ment 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.

# **Counseling Services Center**

This center provides counseling and diagnostic services without charge to MSU students. Students should feel free to call the Center for an appointment with a counselor to discuss any personal-social problem or conflict. The Counseling Services Center is located in 221 Allie Young Hall.

# The Testing and Evaluation Center

The Testing and Evaluation Center, located in room 501A of Lyman Ginger Hall, provides individual student testing, evaluation, and advising on a walk-in basis in the areas of 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, EESRT, U.S. Civil Service Exam, 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 ten 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 1 to 8 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 normal spring (16 to 18 weeks), fall (16 to 18 weeks), and summer (12 to 14 weeks) semester 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 hours); 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 hours); 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 hours); 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 hours); 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 hours); 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 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 office 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.

General Information

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 Ad-

(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

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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, 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 military assignment. For further information, contact your military educational officer of 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 postsecondary 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) or the Parent's Confidential Statement (PCS) provided by the College Scholarship Service, or from analysis of the Family Financial Statement (FFS) provided by the American College Testing Program. These forms are statements of financial condition. Analysis of the FAF, PCS, or FFS determine 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.

# 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 institu-

tion of post-secondary education.

"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.

Students' Rights to Inspection of Records and Review

Thereof:

- Any student or former student at Morehead State Univesity 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

- 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.

Students do not have the right of access to records maintained by the University's law enforcement of-

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 discus-

sions 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 schools 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 1,000. 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:

### SPECIAL COLLECTIONS

- 1. Kentucky Collection
- Appalachian Regional Collection
- Rare Book Room-old and valuable resources
- University Archives-history of Morehead State University
- Moonlight Schoolhouse-educational museum

### MEDIA SERVICES

- Dial Access Center-audio information resources
- 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

- Photocopying—coin-operated machines
- Transparencies-black and white transparencies produced

- 3. Typewriters-available without charge
- 4. Lettering-materials for making signs

## IV. LIBRARY DATA SERVICES

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

# **EXHIBITS**

- Art-student and faculty shows
- Music-special choral group performance
- 3. Crafts—demonstration of various crafts
  VI. LIBRARY INSTRUCTION

- Library Orientation-organized classes on how to use the library
- Walking Tape Tour-self-instruction on how to use the library
- Library Workshops-formal classes on library
- Use of Books and Materials-formal class of library usage, LS101

# 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 made a minimum contribution. Associate membership is available to parents of students and friends of the University and is awarded following a gift to the alumni fund. 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

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 Supevision 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 Medical Assisting Nursing

# Agriculture

The Department of Agriculture offers the following programs:

- 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	FIN 323—Financial Markets 3 FIN 560—Business Finance 3 FIN 364—Personal Finance 3
E. General Agriculture F. Horticulture	Group II
2. A Bachelor of Science degree with an area of concen-	OADM 363—Office Management 3 MNGT 301—Principles of Management 3 MNGT 311—Personnel Management 3
tration in vocational agriculture education	Group III MKT 350—Salesmanship
3. A Bachelor of Science degree with a major in agriculture	MKT 450—Consumer Behavior       3         MKT 451—Retail Merchandising       3         MKT 455—Advertising       3
4. A minor in the following areas:	Group IV   MNGT 461—Business Law I
A. Agriculture	Group V
B. Horsemanship C. Reclamation Technology	AGR 303—Land Economics       3         ACCT 282—Principles of Accounting II       3         FIN 408—Risk Management       3
5. A two-year Associate of Applied Science degree in	ACCT 387—Income Tax 3
the following:	B. Agriculture Economics
A. Agriculture Business Technology	Students who select this option must complete the re-
B. Farm Production Technology	quired courses in the area of concentration in agriculture and
C. Ornamental Horticulture D. Reclamation Technology	28 semester hours of requirements and electives in
	agriculture and economics. Requirements and electives are listed below:
6. Pre-professional Programs	Sem. Hrs.
A. Pre-Forestry B. Pre-Veterinary	Required Courses 9 ECON 202—Principles of Economics II 3
	ECON 350—Microeconomics Theory 3 ECON 351—Macroeconomics Theory 3
Requirements and Suggested Course Sequence	Approved Electives
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	AGR 302—Agriculture Finance       3         AGR 303—Land Economics       3         AGR 503—Agriculture Policy       3         ECON 510—History and Economic Thought       3         FIN 342—Money and Banking       3         FIN 343—Investments       3         ECON 547—International Economics       3
following options: agriculture business, agriculture economics, agronomy, animal science, general agriculture, or	MATH 354—Business Statistics
horticulture.	C. Agronomy
nor occurre.	Students who select this option must complete the re- quired courses in the area of concentration in agriculture and
Sem. Hrs. Required Courses in Agriculture	28 semester hours of approved electives selected from the following list:
AGR 101—General Agriculture         1           AGR 133—Farm Livestock Production         3	
AGR 180—Elementary Field Crops	AGR 205—Farm Records
AGR 203—Agriculture Economics	AGR 303—Land Economics
AGR 215—Horticulture	AGR 308—Weed Control
AGR 251—Introduction to Agriculture Mechanics	AGR 312—Soil Fertility and Fertilizers
AGR 301—Farm Management	AGR 334—Entomology
AGR 471—Seminar	AGR 384—Forage Crops 3 BIOL 215—General Botany 4
Approved Electives in Option	BIOL 513—Plant Physiology
(see available options below) Additional Requirements	BIOL 514—Plant Pathology
CHEM 101—General Chemistry I	BIOL 550—Plant Anatomy
CHEM 101A—General Chemistry I Laboratory	CHEM 327, 327A—Organic Chemistry II and Laboratory
CHEM 102—General Chemistry II Laboratory	IET 240—Basic Electricity         3           IET 386—Welding         3
Options	D. Animal Science
A. Agriculture Business	Students who select this option must complete the re-
Students who select this option must complete the re-	quired courses in the area of concentration in agriculture and
quired courses in the area of concentration in agriculture.	28 semester hours of approved electives selected from the
ACCT 281—Principles of Accounting I (three semester	following list:

 AGR 109—Elementary Horsemanship (Saddle Seat)
 1

 AGR 110—Elementary Horsemanship (Hunt Seat)
 1

 AGR 119—Intermediate Horsemanship
 1

AGR 136—Principles of Dairying

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:

AGR 231—Livestock Judging
AGR 237—Poultry Production
AGR 242—Light Horse Husbandry
AGR 244—Horse Production
AGR 245—Horseshoeing
AGR 304—Genetics
AGR 331—Advanced Livestock Judging
AGR 332—Advanced Horsemanship
AGR 334—Entomology
AGR 335—Equitation Teaching
AGR 336—Dairy Cattle Feeding, Breeding and Management
AGR 343—Beef Production
AGR 344—Swine Production
AGR 345—Sheep Production
AGR 515—Animal Nutrition
BIOL 525—Animal Physiology

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.	
	culture Economics  —Farm Records			
	- Agriculture Finance			
	- Land Economics			
	-Marketing of Farm Products			
	-Agricultural Policy			
(2)—Agric	cultural Mechanics			3
	-Farm Power and Machinery Management			
(3)—Anim	nal Science			6
	-Principles of Dairying			
	-Livestock Judging			
	-Poultry Production			
AGR 242-	-Light Horse Husbandry			3
	-Horse Production			
AGR 331-	-Advanced Livestock Judging			3
AGR 336-	-Dairy Cattle Feeding, Breeding and Managem	ient	* * * * *	3
	-Beef Production			
	-Swine Production			
	-Animal Nutrition			
	Science			
	-Landscape Plants			
	-Landscape Gardening			
	-Floriculture			
	-Weed Control			
	-Plant Propagation			
	-Fruit Production			
AGR 320-	-Principles of Vegetable Production			3
	-Greenhouse Production I			
	-Greenhouse Production II			
	—Turf Management			
AGR 326-	-Nursery Management			3
AGR 327-	-Advanced Landscape Design			3
AGR 384-	-Forage Crops			3
	Science			
AGR 311-	-Soil Conservation			3
	-Soil Fertility and Fertilizers			
	· [ ] - [ - [ - [ - [ - [ - [ - [ - [ - [			

# 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:

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AGR 325—Turf Management	3
AGR 326-Nursery Management	
AGR 327—Advanced Landscape Design	
AGR 334—Entomology	
BIOL 215—General Botany	
BIOL 318—Local Flora	
BIOL 513—Plant Physiology	
BIOL 514—Plant Pathology BIOL 550—Plant Anatomy	
BIOL 551—Plant Morphology	
CHEM 326, 326A—Organic Chemistry I and Laboratory	
CHEM 327, 327A—Organic Chemistry II and Laboratory	4
IET 103—Technical Drawing I	
Suggested Course Sequence	
FRESHMAN YEAR	Sem. Hrs.
First Semester	17
ENG 101—Composition I	
BIOL 150—Introductory Plant Science	
AGR 101—General Agriculture	
AGR 133—Farm Livestock Production	3
PHED-Activity Course	1
AGR 251—Introduction to Agriculture Mechanics	
ECON 101—Introduction to the American Economy	
Second Semester	
MATH 152—College Algebra	
ENG 102—Composition II	3
AGR 180—Elementary Field Crops	
ECON 201—Principles of Economics I	
AGR-Agriculture Elective	
SOPHOMORE YEAR	1
First Semester AGR 203—Agriculture Economics	16
AGR 203—Agriculture Economics	
SOC 170—Rural Sociology	
CHEM 101—General Chemistry I	
CHEM 101A—General Chemistry I Laboratory	
AGR-Agriculture Elective	
Second Semester	16
FNA 160—Appreciation of Fine Arts	
SPCH 110—Basic Speech	3
AGR 211—Soils	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	
AGR-Agriculture Elective	3
JUNIOR YEAR	
First Semester	16
HLTH 150—Personal Health	
GEOG 100—Fundamentals of Geography	
General Elective	
AGR 301—Farm Management	3
Second Semester	16
AGR 316—Feeds and Feeding	
AGR—Agriculture Electives General Electives	
SENIOR YEAR	J-2-
First Semester	
AGR 471—Seminar AGR—Agriculture Electives	
General Electives	
- In the Court of	
Second Semester	
AGR-Agriculture Electives	
General Electives	10

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
AGR Agricultural Economics
AGR Agricultural Mechanics
AGR Animal Science
AGR Horticultural and Plant Science
AGR Soil Science
AGR Approved Agriculture Electives
Required courses in Agriculture Education
AGR 580—Methods of Teaching Vocational Agriculture 4
AGR 582—Adult and Young Farmer Education
AGR 584—Teaching Vocational Agriculture
AGR 586—Planning Program in Vocational Agriculture

# 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 ENG 101—Composition I AGR 101—General Agriculture BIOL 150—Introduction to Plant Science AGR 133—Farm Livestock Production ECON 101-Introduction to American Economy ..... Second Semester . ECON 201—Principles of Economics I.... AGR 180—Elementary Field Crops MATH 152—College Algebra SOPHOMORE YEAR First Semester . . . AGR 251-Introduction to Agriculture Mechanics..... SOC 170-Rural Sociology FNA 160—Appreciation of Fine Arts AGR 215—Horticulture CHEM 102A—General Chemistry II Laboratory 1 AGR 203—Agriculture Economics 3 JUNIOR YEAR AGR-Agriculture Electives SENIOR YEAR First Semester ..... Humanities or Comm. Elective 3 AGR 471—Seminar 1 AGR—Agriculture Electives

# 3. A Bachelor of Science degree with a Major in Agriculture

		0		-			
Required Courses in Agriculture		Se					
AGR 101—General Agriculture							
AGR 133—Farm Livestock Production			Ť				3
AGR 180—Elementary Field Crops							
AGR 203—Agricultural Economics							3
AGR 211—Soils							
AGR 215—Horticulture							3
AGR 251—Introduction to Agriculture Mechanics							
AGR 301—Farm Management							3
AGR 316—Feeds and Feeding							
AGR 471—Seminar							
Approved Agriculture Electives Additional Requirements							
CHEM 101—General Chemistry I							
CHEM 101—General Chemistry II Laboratory	* *	* *					,
CHEM 102—General Chemistry II							
CHEM 102A—General Chemistry II Laboratory							
FRESHMAN YEAR							
First Semester						1	7
ENG 101—Composition I							3
BIOL 150-Introductory Plant Science							
AGR 101—General Agriculture							
AGR 133—Farm Livestock Production							
							7
PHED—Activity Course  ECON 101—Introduction to American Economy							
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE							
Second Semester						1	5
ENG 102—Composition II							3
ECON 201—Principles of Economics I							
AGR-Agriculture Elective							3
AGR-180-Elementary Field Crops							3
MATH 152—College Algebra						*	3
SOPHOMORE YEAR							
First Semester			4			1	5
SOC 170—Rural Sociology						. 4	3
AGR 215—Horticulture		* *					3
CHEM 101—General Chemistry I							3
CHEM 101A—General Chemistry I Laboratory							1
HLTH 150—Personal Health	4,4					. !	2
AGR 203—Agricultural Economics					9		3
Second Semester						7	0
FNA 160—Appreciation of Fine Arts			1			1	0
AGR 211—Soils	+ 1		(6)			-	0
CHEM 102—General Chemistry II		4.4		0.10			9
CHEM 102A—General Chemistry II Laboratory	*/*						1
SPCH 110—Basic Speech							3
Second Major Elective							3
IUNIOR VEAR							
SUMOR I BAR							
First Semester						1	6
GEOG 100—Fundamentals of Geography							
AGR 251-Introduction to Agriculture Mechanics							
AGR 316—Feeds and Feeding							
Second Major Electives						*	1
Second Semester		25470				1	6
ENG 202—Introduction to Literature							
AGR 301—Farm Management							3
Second Major Electives						1	0
CHANGE III I B							
SENIOR YEAR						,	c
First Semester Social Science Elective	983			* /		1	3
AGR 471—Seminar							
Humanities or Comm. Elective							3
Second Major Electives							9
Second Semester						. 1	7
General Electives							
AGR-Agriculture Elective							3
Second Major Electives							3
AMERICAN STREET, STREE							8
A major or minor must also be selected in another field.							

4. A. Minor in Agriculture	
to be -	Sem. Hrs.
Required Courses in Agriculture	
AGR 101—General Agriculture AGR 133—Farm Livestock Production	
AGR 180—Elementary Field Crops AGR 203—Agricultural Economics	
AGR 211—Soils	3
AGR 215—Horticulture	
AGR 471—Seminar	1
Approved Agriculture Electives	
Additional Requirements	
CHEM 101—General Chemistry I CHEM 101A—General Chemistry I Laboratory	
4. B. Minor in Horsemanship	
Required Courses in Agriculture	15
AGR 121—Equitation AGR 242—Light Horse Husbandry	
AGR 244—Horse Production	
AGR 316—Feeds and Feeding	
AGR 332—Advanced Horsemanship	
Approved Agriculture Electives	6
4. C. Minor in Reclamation Technology	
	Sem. Hrs.
Required Courses in Reclamation Technology	
RCL 301—Reclamation Laws and Regulations	3
RCL 302—Reclamation Management and Systems Planning I	4
RCL 303—Reclamation Management and Systems Planning II	
CON 102—Surveying I	
MIN 103—Mining Drafting Approved Electives	
5. A. Associate of Applied Science degree in	
The Agriculture Business Technology Pro- designed for students interested in a wide range agricultural business, sales, and managerial aspe- designatural industry.	of jobs in
agricultural industry.	Sem. Hrs.
Required Courses	Sem. Hrs.
Required Courses AGR 133—Farm Livestock Production	Sem. Hrs
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops	Sem. Hrs
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics	Sem. Hrs
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 302—Agriculture Finance AGR 305—Marketing of Farm Products	Sem. Hrs
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 302—Agriculture Finance AGR 305—Marketing of Farm Products	Sem. Hrs
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 302—Agriculture Finance	Sem. Hrs
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 302—Agriculture Finance AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting	Sem. Hrs
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 302—Agriculture Finance AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing	Sem. Hrs
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance	Sem. Hrs
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy OADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship	Sem. Hrs
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I	Sem. Hrs. 50 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I	Sem. Hrs. 50 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101A—General Chemistry I Laboratory	Sem. Hrs. 50 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101A—General Chemistry I Laboratory ENG 192—Technical Composition	Sem. Hrs. 50 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101A—General Chemistry I ENG 192—Technical Composition BIOL 150—Introduction to Plant Science	Sem. Hrs. 50 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101A—General Chemistry I Laboratory ENG 192—Technical Composition BIOL 150—Introduction to Plant Science Approved Electives in Option	Sem. Hrs.
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101A—General Chemistry I Laboratory ENG 192—Technical Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)	Sem. Hrs.
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 302—Agriculture Finance AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101A—General Chemistry I Laboratory ENG 192—Technical Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below) Options	Sem. Hrs. 50 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 1 1 3 3 1 5
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101—General Chemistry I Laboratory ENG 192—Technical Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)  Options 1) Animal Science	Sem. Hrs.  50  3  3  3  3  3  3  3  3  3  3  3  3  3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101—General Chemistry I ENG 192—Technical Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below) Options 1) Animal Science AGR 211—Soils	Sem. Hrs.  50  3  3  3  3  3  3  3  3  3  3  3  3  3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101A—General Chemistry I Laboratory ENG 192—Technical Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)  Options 1) Animal Science AGR 211—Soils AGR 237—Poultry Production	Sem. Hrs.
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 302—Agriculture Finance AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101—General Chemistry I CHEM 101A—General Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)  Options 1) Animal Science AGR 217—Soils AGR 237—Poultry Production AGR 316—Feeds and Feeding	Sem. Hrs.
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101—General Chemistry I LENG 192—Technical Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)  Options 1) Animal Science AGR 211—Soils AGR 237—Poultry Production AGR 316—Feeds and Feeding AGR 336—Dairy Cattle Feeding, Breeding, and Management AGR 343—Beef Production	Sem. Hrs.
Required Courses  AGR 133—Farm Livestock Production  AGR 180—Elementary Field Crops  AGR 203—Agriculture Economics  AGR 305—Marketing of Farm Products  AGR 305—Marketing of Farm Products  AGR 251—Introduction to Agriculture Mechanics  ECON 101—Introduction to American Economy  DADM 211—Beginning Typewriting  DATA 200—Introduction to Data Processing  FIN 252—Mathematics of Finance  MKT 350—Salesmanship  ACCT 281—Principles of Accounting I  ENG 101—Composition I  CHEM 101—General Chemistry I  CHEM 101—General Chemistry I  CHEM 101—General Chemistry I Laboratory  ENG 192—Technical Composition  BIOL 150—Introduction to Plant Science  Approved Electives in Option  (see available options below)  Options  1) Animal Science  AGR 211—Soils  AGR 237—Poultry Production  AGR 36—Dairy Cattle Feeding, Breeding, and Management  AGR 344—Swine Production	Sem. Hrs.  50  3  3  3  3  3  3  3  3  3  3  3  3  3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101—General Chemistry I LENG 192—Technical Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)  Options 1) Animal Science AGR 211—Soils AGR 237—Poultry Production AGR 316—Feeds and Feeding AGR 336—Dairy Cattle Feeding, Breeding, and Management AGR 343—Beef Production	Sem. Hrs.  50  3  3  3  3  3  3  3  3  3  3  3  3  3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 302—Agriculture Finance AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101—General Chemistry I CHEM 101A—General Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)  Options 1) Animal Science AGR 211—Soils AGR 237—Poultry Production AGR 316—Feeds and Feeding AGR 336—Dairy Cattle Feeding, Breeding, and Management AGR 343—Beef Production AGR 344—Swine Production AGR 345—Sheep Production	Sem. Hrs.  50  3  3  3  3  3  3  3  3  3  3  3  3  3
Required Courses  AGR 133—Farm Livestock Production  AGR 180—Elementary Field Crops  AGR 203—Agriculture Economics  AGR 305—Marketing of Farm Products  AGR 305—Marketing of Farm Products  AGR 251—Introduction to Agriculture Mechanics  ECON 101—Introduction to American Economy  DADM 211—Beginning Typewriting  DATA 200—Introduction to Data Processing  FIN 252—Mathematics of Finance  MKT 350—Salesmanship  ACCT 281—Principles of Accounting I  ENG 101—Composition I  CHEM 101—General Chemistry I  CHEM 101—General Chemistry I  ENG 192—Technical Composition  BIOL 150—Introduction to Plant Science  Approved Electives in Option  (see available options below)  Options  1) Animal Science  AGR 211—Soils  AGR 237—Poultry Production  AGR 316—Feeds and Feeding  AGR 336—Dairy Cattle Feeding, Breeding, and Management  AGR 344—Swine Production  AGR 344—Swine Production  AGR 345—Sheep Production  2) Crop Science	Sem. Hrs.  50  3  3  3  3  3  3  3  3  3  3  3  3  3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101A—General Chemistry I ENG 192—Technical Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)  Options 1) Animal Science AGR 211—Soils AGR 237—Poultry Production AGR 316—Feeds and Feeding AGR 336—Dairy Cattle Feeding, Breeding, and Management AGR 344—Swine Production AGR 344—Swine Production AGR 345—Sheep Production AGR 345—Sheep Production 2) Crop Science AGR 215—Horticulture	Sem. Hrs.
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101—General Chemistry I CHEM 101—General Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)  Options 1) Animal Science AGR 211—Soils AGR 336—Dairy Cattle Feeding, Breeding, and Management AGR 343—Beef Production AGR 345—Sheep Production AGR 345—Sheep Production AGR 345—Sheep Production  2) Crop Science AGR 215—Horticulture AGR 311—Soil Conservation	Sem. Hrs.  50  3  3  3  3  3  3  3  3  3  3  3  3  3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101A—General Chemistry I Laboratory ENG 192—Technical Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)  Options 1) Animal Science AGR 211—Soils AGR 336—Dairy Cattle Feeding, Breeding, and Management AGR 343—Beef Production AGR 345—Sheep Production AGR 345—Sheep Production AGR 345—Sheep Production AGR 311—Soil Conservation AGR 311—Soil Conservation AGR 311—Soil Conservation AGR 311—Soil Fertility and Fertilizers	Sem. Hrs.  50  3  3  3  3  3  3  3  3  3  3  3  3  3
Required Courses AGR 133—Farm Livestock Production AGR 180—Elementary Field Crops AGR 203—Agriculture Economics AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 305—Marketing of Farm Products AGR 251—Introduction to Agriculture Mechanics ECON 101—Introduction to American Economy DADM 211—Beginning Typewriting DATA 200—Introduction to Data Processing FIN 252—Mathematics of Finance MKT 350—Salesmanship ACCT 281—Principles of Accounting I ENG 101—Composition I CHEM 101—General Chemistry I CHEM 101—General Chemistry I CHEM 101—General Composition BIOL 150—Introduction to Plant Science Approved Electives in Option (see available options below)  Options 1) Animal Science AGR 211—Soils AGR 336—Dairy Cattle Feeding, Breeding, and Management AGR 343—Beef Production AGR 345—Sheep Production AGR 345—Sheep Production AGR 345—Sheep Production  2) Crop Science AGR 215—Horticulture AGR 311—Soil Conservation	Sem. Hrs.  50  3  3  3  3  3  3  3  3  3  3  3  3  3

(3) Horticulture								
AGR 212—Landscape Plants								3
AGR 215—Landscape Gardening								
AGR 314—Plant Propagation								
AGR 315—Fruit Production								3
AGR 320—Principles of Vegetable Prod	uction .	* 4 4 4						3
AGR 325—Turf Management								3
(4) Agriculture Management								
AGR 205-Farm Records								2
AGR 301—Farm Management								
							1 1.15	1 1 1 9
Suggested Course Sequence								
First Semester			* * * *					15
BIOL 150—Introduction to Plant Scient AGR 133—Farm Livestock Production	ce			* * * *	* * *			0
ECON 101—Introduction to American	Econom	v						3
ENG 101—Composition I								3
AGR 251-Introduction to Agriculture	Mechan	ics.					* ( * ; *)	3
Second Semester								16
AGR 180-Elementary Field Crops								3
AGR 203-Agricultural Economics								
CHEM 101—General Chemistry I CHEM 101A—General Chemistry I Lab	oretors				* * *			
ENG 192—Technical Composition	Mawiy							
OADM 211—Beginning Typewriting			.cov					8
Third Semester								
AGR—Option Elective								
AGR 302—Agriculture Finance								e e e e e
AGR 305-Marketing of Farm Products	s							
DATA 200—Introduction to Date Proce ACCT 281—Principles of Accounting I	essing.					* * *		,
Fourth Semester AGR—Option Elective								10
MKT 350—Salesmanship				* * * * *				
FIN 252—Mathematics of Finance								
Date and the same								64
5 R Associate of Applied	Scien	h an	egr	00 i	n			

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.

	5	Se	III	1.	H	Irs	3.
Required Courses						. 3	5
AGR 101—General Agriculture	×.		234				1
AGR 133-Farm Livestock Production							3
AGR 180—Elementary Field Crops					*		3
AGR 203—Agricultural Economics	w				6		3
AGR 211—Soils							3
AGR 215—Horticulture							3
AGR 316—Feeds and Feeding							3
ENG 101—Composition I							3
ENG 192—Technical Composition							
CHEM 101—General Chemistry I							
CHEM 101A—General Chemistry I Laboratory							1
BIOL 150-Introduction to Plant Science							3
ECON 101-Introduction to American Economy					4		3
Approved Electives in Option						. 2	9
(see available options below)							
Western and the second							

# Options

# (1) Animal Science

	1	Se	m.	. 1	Hrs.
AGR 136—Principles of Dairying	 				3
AGR 231—Livestock Judging	 				3
AGR 237—Poultry Production	 				3
AGR 242-Light Horse Husbandry					
AGR 244—Horse Production					
AGR 331-Advanced Livestock Judging	 				3
AGR 334—Entomology					
AGR 336-Dairy Cattle Feeding, Breeding, and Management					
AGR 343—Beef Production					
AGR 344—Swine Production					3
AGR 345—Sheep Production	 				3
AGR 350—Farm Power and Machinery Management					

(2	2) Agriculture Management	Requi
	GR 205—Farm Records	
	GR 301—Farm Management	First Se
A	GR 302—Agriculture Finance	BIOL 18
A	GR 303—Land Economics	ENG 10
A	GR 305—Marketing of Farm Products	AGR 10
	GR 503—Agricultural Policy	AGR 21
	CCT 281—Principles of Accounting I	IET 103
A	CCT 282—Principles of Accounting II	AGR 35
F	'IN 252—Mathematics of Finance	~
M	IKT 350—Salesmanship	Second S
F	IN 364—Personal Finance	AGR 20
E	CON 201—Principles of Economics I	AGR 21
E	CON 202—Principles of Economics II	ECON 1 AGR 21
		CHEM
(3	3) Crop Science	CHEM
	GR 304—Genetics	OHES M
	GR 308—Weed Control	Summer
	GR 311—Soil Conservation	AGR 23
	GR 312—Soil Fertility and Fertilizers	Third Se
A	GR 314—Plant Propagation	AGR 32
A	GR 315—Fruit Production	AGR 32
A	GR 320—Principles of Vegetable Production	AGR 21
A	GR 325—Turf Management	ENG 19
A	.GR 334—Entomology3	AGR-A
A	.GR 341—Agriculture	
A	GR 350—Farm Power and Machinery Management	Fourth S
	.GR 384—Forage Crops	AGR 32
В	IOL 215—General Botany	AGR 31
		AGR 32
14	4) Horticulture	AGR 32 AGR—A
A	GR 212—Landscape Plants	AGN-P
A	GR 231—Landscape Flants 3	
A	GR 312—Soil Fertility and Fertilizers	
A	GR 314—Plant Propagation	
A	GR 315—Fruit Production	5. D.
A	GR 320—Principles of Vegetable Production	
	GR 321—Greenhouse Production I	The
	GR 322—Greenhouse Production II	
	GR 325—Turf Management	prepar
	GR 326—Nursery Management	dustria
	GR 327—Advanced Landscape Design	major
	GR 341—Apiculture	legal a
	GR 350—Farm Power and Machinery Management	safety
		use co
	. 10 0	
0	uggested Course Sequence	
F	irst Semester	Requir
	IOL 150—Introduction to Plant Science	
	NG 101—Composition I	First Ser
A	GR 133—Farm Livestock Production	MATH
	CON 101—Introduction to American Economy	GEOS 2
	GR Electives	IET 103
		MIN 101
	econd Semester	MATH
	GR 180—Elementary Field Crops	ECON 1
	GR 215—Horticulture	
	HEM 101—General Chemistry I Laboratory	Second S
	GR 203—Agricultural Economics	CHEM 1
	GR—Option Elective	CHEM 1
	hird Semester	CON 102
		MIN 103
	GR 316—Feeds and Feeding	GEOS 3
	GR 211—Soils	GEOD II
	ourth Semester	Third Se
	GR—Option Electives	RCL 301
	NG 192—Technical Composition	IET 320
-	64	RCL 302
		AGR 21
_	0.4	CON 104
5	. C. Associate of Applied Science degree in	Fourth S
	Ornamental Horticulture	MIN 205
	The ornamental horticulture program is designed for	ENG 19
gi	tudents interested in managing and supervising nurseries,	RCL 303
01	ommonoial amount out of managing and supervising nurseries,	AGR 20'
C	ommercial greenhouses, parks, golf courses, and working	Approve

with or operating their own horticultural firms.

### Requirements and Suggested Course Sequence

	Sem.	Hrs.
First Semester		16
BIOL 150—Introduction to Plant Science		3
ENG 101—Composition I		3
AGR 101—General Agriculture		
AGR 212-Landscape Plants		
IET 103—Technical Drawing I		
AGR 350—Farm Power and Machinery Management		
Second Semester		
AGR 205—Farm Records		
AGR 213—Landscape Gardening		
ECON 101—Introduction to American Economy		
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
ACIT 200—Super vised work Experience		
Third Semester	en en en	15
AGR 325—Turf Management		3
AGR 321—Greenhouse Production I		
AGR 211—Soils		
ENG 192—Technical Composition		3
AGR-Agricultural Elective		
Fourth Semester		
AGR 322—Greenhouse Production II		
AGR 314—Plant Propagation		
AGR 326—Nursery Management		
AGR 327—Advanced Landscape Design		3
AGR-Agriculture Elective		
BOTH THE THE PARTY OF THE PROPERTY OF THE PROP		68

# 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 landuse concepts, map drafting and report writing.

### Requirements and Suggested Course Sequence

First Semester	Sem. Hrs.
MATH 135—Mathematics for Technical Students	
GEOS 200—Coal Mine Geology	
IET 103—Technical Drawing I	9
MIN 101—Fundamentals of Mining and Safety Engineering	
MATH 110—Problem Solving Techniques	
ECON 101—Introduction to American Economy	
ECON 101—Introduction to American Economy	
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
decided decimal photogy	
Third Semester	16
RCL 301-Reclamation Laws and Regulations	3
IET 320—Supervisory Practices	3
RCL 302-Reclamation Management and System Planning I	
AGR 211—Soils	
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	
***************************************	64

Sem Hrs

## 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 instate 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.

Sem. Hrs.

# Requirements and Suggested Course Sequence FRESHMAN YEAR

FRESHMAN YEAR First Semester			Sem. Hrs.
ENG 101—Composition I			
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			
PE—Activity Course			
Second Semester			
ENG 102—Composition II	*****		3
CHEM 112—General Chemistry II			
CHEM 112A—General Chemistry II Lab			
HIS 132—Introduction to Civilization II			3
BIOL 209—Vertebrate Zoology			
PE—Activity Course			
SOPHOMORE YEAR First Semester			17
GOVT 141—Government of the U.S.			
MATH 141—Plane Trigonometry* BIOL 215—Botany or BIOL 150—Introduction	to		
Plant Science			4
CHEM 326, 326A-Organic Chemistry I and Lab	poratory	<i>,</i>	4
Humanities Elective			3
Second Semester		******	17
PHYS 201, 201A-Elementary Physics I and Lal	borator	y	4
CHEM 327, 327A-Organic Chemistry II and La			
BIOL 317—Principles of Microbiology			
HLTH 150—Personal Health			
Social Science Elective			3
JUNIOR YEAR			
First Semester			17
PHYS 202—Elementary Physics II			
AGR 304—Genetics. AGR 316—Feeds and Feeding			4
AGR-Electives**			4
Social Science or Humanities Elective			
Second Semester			
MATH 175—Analytic Geometry & Calculus I			4
ALH 302—Medical Terminology		*******	2
AGR 515—Animal Nutrition			3
AGR 231—Livestock Judging** 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	
CHEM 101A-General Chemistry I Laboratory	1
MATH 175—Analytic Geometry and Calculus I	4
PHED—Activity Course	1
General Elective	
Second Semester	
ENG 192—Technical Composition	
AGR 180—Elementary Field Crops	
CHEM 102—General Chemistry II	
CHEM 102—General Chemistry II CHEM 102A—General Chemistry II Laboratory	
MATH 353—Statistics	
PHED—Activity Course	
General Elective	
Third Semester	
SOC 170—Rural Sociology	3
PHYS 201, 201A-Elementary Physics I and Laboratory	4
BIOL 215—General Botany	
CON 102—Surveying I	3
PSY 154—Life-Oriented General Psychology	3
Fourth Semester	
HIS 141—Introduction to Early American History	
SPCH 110—Basic Speech	
ECON 201—Principles of Economics I	
AGR 211—Soils	
ENG-Literature Elective	
EMO Interactive	65
	00

# **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.

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 Dairying. (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 manufactur-

ing 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 conserva-

tion 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 identifica-

tion, 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 pountry 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

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 nutri-

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

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 manage-

ment 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

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

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 standing. Identification of problems and issues reflected in the current profes-

sional 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: con 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. Prereguisite: 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 pro-

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

# 1. Associate of Applied Science degree in Medical Assisting

The associate degree program for medical assistants prepares men and women for careers as medical assistants in physicians' offices, clinics, and hospitals. These persons will assist physicians and other health care providers with basic health care, secretarial duties, admissions, accounting, and office records. Students of any age, married or single, are eligible to apply.

Admission to the University does not give automatic admission to the medical assisting program. For additional information, contact the head of the Department of Allied

Health Sciences.

## Requirements and Suggested Course Sequence

	Sem. Hr	S.
FIRST SEMESTER	1	15
AHS 100—Orientation to Allied Health		
PSY 154—Introduction to Psychology		
BSED 212—Intermediate Typewriting		
BIOL 331—Human Anatomy	******	. 3
AHS 302—Medical Terminology ENG 101—Composition I		
SECOND SEMESTER		
MAT 205—Medical Assisting I		
AHS 202—Basic Pharmacology		
BIOL 332—Human Physiology		.3
BIOL 333—Human Physiology Lab	*******	1
BSED 332—Medical Assisting Administrative Procedures I		
ENG 102—Composition II PDI 100—Personal Development Institute		3
THIRD SEMESTER		
MAT 306—Medical Assisting II	*******	6
BSED 333—Medical Assisting Administrative Procedures II		3
HEC 320—Elements of Nutrition		
PSY 157—Psychology of Adjustment		
BIOL 218—Elementary Laboratory Microbiological Technique		
FOURTH SEMESTER.	1	7
MAT 308—Medical Assisting III		6
AHS 304—Medical Law and Ethics		2
BSED 290—Office Accounting		
HLTH 303—Community Health		
Elective		-
	6	64

## 2. Associate of Applied Science degree in Nursing

The associate degree program in nursing prepares men and women for a career in nursing at the registered nurse level. Students of any age, married or single, will be eligible to

Admission to the University does not give automatic admission to the nursing program. For additional information, contact the head of the Department of Allied Health

Sciences.

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

				Hr		
FIRST SEMESTER				1	18	
NUR 200-Fundamentals of Nursing						
PSY 154—Introduction to Psychology					3	
SOC 101—General Sociology	* : *				2	
PSY 156—Life-Span Developmental Psychology			* .	***	3	
BIOL 331—Human Anatomy					9	
SECOND SEMESTER			(X)+	1	18	
NUR 201—Maternity Nursing (9 weeks)					4	
NUR 202—Psychiatric Nursing (9 weeks)	. 7				4	
BIOL 332—Human Physiology		214	-		. 3	
CHEM 100, 100A—Basic Chemistry and Laboratory					4	
PSY 157—Psychology of Adjustment					3	
OR					-	
PSY 390—Psychology of Personality						
THIRD SEMESTER						
NUR 300—Child-Adult Nursing I		i (a)			7	
ENG 101—English Composition I			200		3	
HEC 320—Elements of Nutrition					3	
BIOL 217—Elementary Medical Microbiology					4	
그래요 마양이를 하면서 프로그램 요즘 아이들이 되면 하는 것이 되어야 하다면 하다 아이들이 아이를 하는데 하는데 그렇게 되었다고 있다.						

FOURTH SEMESTER	 		-	60					ú.				Ŷ			. 18	3
NUR 301-Child-Adult Nursing II	 					 110	*):	0.00		* :		×				. 10	)
NUR 310-Nursing Trends	 																2
ENG 102-English Composition II																	
General Elective																	
																7	1

# 3. 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

		-			 	
FIRST SEMESTER RAD 110—Radiographic Anatomy and Positioning I RAD 120—Radiologic Technology I	 4					.4
AHS 302—Medical Terminology MATH 135—Mathematics for Technical Students BIOL 331—Human Anatomy			1			. 3
SECOND SEMESTER RAD 130—Clinical Internship I RAD 131—Special Problems—Nursing Procedures						10
FIRST SUMMER SESSION RAD 210—Radiographic Anatomy and Positioning II ENG 101—Composition I						.3
SECOND SUMMER SESSION			. 4			. 3
THIRD SEMESTER  RAD 230—Clinical Internship II  RAD 231—Special Problems—Radiographic Quality						10
FOURTH SEMESTER.  RAD 240—Radiologic Technology II.  RAD 250—Radiation Physics and Electronics						. 3
RAD 260—Advanced Radiographic Procedures ENG 192—Technical Composition PSY 154—Introduction to Psychology	 				 	.3
AHS 304—Medical Law and Ethics FIRST SUMMER SESSION RAD 330—Clinical Internship III						.5
RAD 331—Seminar of Radiographic Pathology SECOND SUMMER SESSION RAD 340—Clinical Internship IV				1.3	 ×	. 4

# 4. Associate of Applied Science degree in Veterinary Technology

The veterinary technology program has been designed to reflect and complement the existing demand which the veterinary profession has for competent technical support personnel.

### Requirements and Suggested Course Sequence

	Sem.	
First Semester		17
VET 102—Introduction to Veterinary Technology		3
VET 104-Large and Small Animal Breeds		
VET 105—Physiology of Domestic Animals		3
VET 106—Animal Science for the Veterinary Technician		2
ENG 101—Composition I		
MATH 131—General Mathematics I		
Second Semester		17
VET 107—Laboratory Techniques I		
VET 206—Anatomy of Domestic Animals		
VET 209—Small Animal Clinic		
VET 214—Animal Restraint and First Aid		
VET 340—Radiology		
CHEM 100, 100 A - Basic Chemistry and Laboratory		

Summer Semester Veterinary Practice Preceptorship											4
Third Semester										. 1	8
VET 210-Parasitology and Entomology			47				 		4.		2
VET 208—Laboratory Techniques II							 				3
BIOL 317—Principles of Microbiology				 *			 				4
VET 339—Pharmacology for the Veterinary Technician				 -	ě.		 				3
ENG 192—Technical Composition								*			3
SPCH 110—Basic Speech				 *				*			3
Fourth Semester	6.	6	+							. 1	7
VET 309—Large Animal Clinic								4			2
VET 337—Surgical Nursing and Anesthesiology		. *	95	 de				×			2
VET 333—Small Animal Diseases			(40)			A					2
VET 338—Applied Nutrition			ě.								3
VET 342—Clinical Office Procedures				 à.		6		,			3
VET 346—Large Animal Diseases											
BSED 211—Beginning Typewriting						*. *					
										7	3

# **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 student 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.

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.

# MEDICAL ASSISTING

MAT 205. Medical Assisting I. (3-0-3); II. Corequisite: AHS 202. Designed to help the student develop an understanding of basic human needs as they relate to the medical assistant. A review of the history of the health occupation, the ethics of health care, and professional conduct. The student learns to assist the physician in examining and treatment of the patient, accident prevention, and basic clinical skills in the office.

MAT 306. Medical Assisting II. (3-12-6); I. Prerequisites: AHS 202, AHS 205, AHS 302, BIOL 331, BIOL 332, BIOL 333, BSED 212, and BSED 332. This course is designed to enable the student to provide an environment for the patient that is therapeutically conducive to health. Learning experience in sterilization, care of equipment and supplies, preparation of the patient for screening test, clinical skills, emergency procedures, dietary requirements, medications, and pharmacology. The application of knowledge skills and attitudes developed in liberal education, previous and concurrent medical assisting courses. Interaction with selected health services in the community.

MAT 308. Medical Assisting III. (3-12-6); II. Prerequisites: AHS 304, AHS 306, BIOL 218, and BSED 333. A continuation of MAT 306. Students continue to broaden their concepts and skills of therapeutic measures, managerial, secretarial/business aspects of medical assisting. The student builds on the knowledge, skills, and attitudes developed in liberal education and previous medical assisting courses. Students have clinical and administrative experiences in physicians' offices.

### NURSING

NUR 200. Fundamentals of Nursing. (4-6-6); 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. Com-

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. (4-9-7); 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 indepth assessments and more complex interventions. Increased clinical ex-

periences 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). 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

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 depart-

ment 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. (2-4-3); I. Prerequisite: acceptance in veterinary technology program. A course designed to acquaint the student with the profession of veterinary medicine, professional ethics, jurisprudence, medical terminology, job opportunities, and duties. VET 104. Large and Small Animal Breeds. (3-0-3); I. A course designed to ac-

quaint the student with the breeds of animals that serve man for the production of food, clothing, essential by-products, companionship, and health.

VET 105. Physiology of Domestic Animals. (2-3-3); I. Prerequisite: accep tance in veterinary technology program. A course designed to acquaint the student with basic normal life processes and functions of the animal body.

VET 106. Animal Science for the Veterinary Technician. (1-2-2); I. Prere quisite: acceptance in veterinary technology program. An introduction to animal husbandry for large animals as it relates to the practice of veterinary medicine, including practical nutrition, animal breeding, animal products, forage, animal shelter, animal waste and pollution control, genetics, inheritance, and conformation.

VET 107. Laboratory Techniques. I. (2-2-3); II. Prerequisites: VET 102 and VET 105. A study of the principles and practice of clinical pathology as they relate to the responsibilities of veterinary technicians.

VET 206. Anatomy of Domestic Animals. (2-2-3); II. Prerequisites: VET 102 and VET 105. A study of the normal anatomy of domestic animals by systems

using the domestic cat as the dissection specimen. VET 208. Laboratory Techniques II. (2-2-3); I. Prerequisites: VET 105, 107, and CHEM 100. To teach advanced laboratory procedures such as urinalysis, chemical tests (blood, urine, and feces), and a summary of clinical bacteriological procedures. Principles of complement fixation and serological testing are also studied.

VET 209. Small Animal Clinic. (1-3-2); II. Prerequisites: VET 102 and 105. Basic principles relating to small animals and laboratory animals, humane care, caging, nutrition, and husbandry practices, and tasks related to handling, care, treatment, and usage of the animal in a clinical situation or

laboratory animal colony will be covered in laboratory periods.

Sem. Hrs.

VET 210. Parasitology and Entomology. (2-0-2); I. Prerequisites: VET 107. A study of the common external and internal parasites of domestic animals as to classification, life cycles, pathology produced, and control. Control measures, sanitation measures, and control of intermediate hosts are emphasized. Laboratory diagnosis is covered in Laboratory Techniques I.

VET 214. Animal Restraint and First Aid. (2-0-2); II. Prerequisites: VET 102, 104, and 106. Study of the principles of restraint of animals. The study of the

principles of first aid for animals by species is also covered.

VET 309. Large Animal Clinic. (1-3-2); II. Prerequisites: VET 209 and 214. Basic principles relating to the maintenance of large animals, including humane care, nutrition, and husbandry practices. Essential tasks relating to handling, care, and treatment of the common species of farm animals, performance of autopsies on large animals, and principles of meat inspection are covered.

VET 333. Small Animal Diseases. (2-0-2); II. Prerequisite: VET 210. A study of the diseases of small animals (canine and feline) encountered in veterinary

medicine with emphasis on zoonosis.

VET 337. Surgical Nursing and Anesthesiology. (1-3-2); II. Prerequisites: VET 102, 105, 107, 206, 208, and 214. A course designed to acquaint the veterinary technician with normal surgery room procedures with emphasis on

the monitoring of anesthesia.

VET 338. Applied Nutrition. (3-0-3); II. Prerequisites: VET 105, 106, and CHEM 100. An introduction to the basic principles of nutrition applicable to all classes of domestic and research animals. The essential nutrients will be discussed in their physiologic role. Types, combinations, and preparation of feeds as they relate to various animal diets will be studied. Feeding of orphaned and convalescent animals and nutritional/metabolic diseases will be studied

VET 339. Pharmacology for the Veterinary Technician. (2-2-3); I. Prerequisites: VET 105, 106, and CHEM 100. The study of pharmacology designed to acquaint the student with the basics of drugs and other substances used in current veterinary medicine. Emphasis is on classification of drugs based on effect and therapeutic usage, source of drugs, standards and regulations, weights and measures, conversions, labeling, and pharmacy maintenance.

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 techniques is placed on the student learning to properly position patients, expose films, and process exposed radiographs of diagnostic value.

VET 342. Clinical Office Procedures. (3-0-3); II. Prequisites: VET 102, 209, and MATH 135. A survey of the areas of technician responsibility in

hospital/clinical business operations and management.
VET 346. Large Animal Diseases. (2-0-2); II. Prerequisites: VET 210 and 330. A study of the diseases of large animals with emphasis on disease control, prevention, treatment, and zoonosis. Included are equine, bovine, porcine, ovine, caprine, and exotic species.

# **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
- General Dietetics
- 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
- General home economics
- 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

Individuals preparing to enter careers in business or industry such as fashion merchandising, textile technology, or as designers of clothing and textiles may take curriculum of selected courses from home economics and related fields of study.

	Sem. rirs.
Required Courses in Home Economics	
HEC 240—Textiles	
HEC 141—Basic Clothing Construction	
HEC 241-Advanced Clothing Problems	
HEC 344—Historic Costume	
OR	7
HEC 480—Historic Textiles	
HEC 340—Textile Testing	
HEC 130—Elementary Foods	
HEC 453—Marriage and Family Living	
HEC 451—Home Furnishing	
HEC 341—Flat Pattern DesignOR	
HEC 545—Clothing Design in Draping	9
HEC 345—Clothing Design in Draping HEC 362—Consumer Education	
HEC 303—Health of the Family	
HEC 541—Tailoring	
HEC 471—Seminar	
HEC 542—Social-Psychological Aspects of Clothir	0
and Textiles	. 3
Approved Electives in Option	12
(See available options belo	w)
Additional Requirements	110
SCI—Science electives	
ART 291—Color and Design	2
CHEM 101—General Chemistry I	9
CHEM 101—General Chemistry I CHEM 101A—General Chemistry I Laboratory	1
BIOL 331—Human Anatomy	3
and the same of th	
Options	
(1) Design	
ART 101—Drawing I	
ART 202—Composition and Drawing	
ART 204—Figure Drawing I	
ART 216—Water Color I	
ART 241—Crafts I	
ART 365—Arts of the United States I	
ART 555—Advanced Art Problems HEC 251—Household Equipment	
HEC 343—Household Textiles	
HEC 346—Fashion Fundamentals	
HEC 351—Housing	
HEC 557—Interior Design	
IET 102—Graphic Arts	
IET 103—Technical Drawing I	3
IET 305—Housing	
(2) Fashion Merchandising	
MNGT 160—Introduction to Business	9
MKT 350—Salesmanship	3
MKT 451—Retail Merchandising	9
OADM 136—Business Calculations	3
OADM 211—Beginning Typewriting	
OADM 212—Intermediate Typewriting	
OADM 290—Office Accounting	
ECON 201—Principles of Economics I	
MKT 304—Marketing	
HEC 346—Fashion Fundamentals	9
HEC 343—Household Textiles	
MNGT 461—Business Law I	
MKT 450—Consumer Behavior	
OADM 221—Business Communications	

(3) Textile Technology	HEC 232—Food Sanitation and Safety
HEC 343—Household Textiles	HEC 329—Human Nutrition HEC 330—Quantity Food Purchasing
HEC 543—Advanced Textile Testing	HEC 331—Organization and Administration of Food Service I
HEC 544—Dyes and Finishes	HEC 334—Quantity Food Preparation
	HEC 335—Food Service Equipment
Suggested Course Sequence	HEC 336—Organization and Administration of Food Service II
FRESHMAN YEAR Sem. Hrs.	HEC 432—Current Problems in the Diet Therapy
First Semester	HEC 433—Diet Therapy
ENG 101—Composition I	HEC 529—Child Growth and Nutrition
ART 291—Color and Design	HEC 536—Advanced Nutrition
HEC 240—Textiles 3 BIOL 105—Introduction to Biological Science 3	HEC 139, 239, 339, or 439—Cooperative Education
Mathematics elective	Additional Requirements46
Second Semester	SOC 101—General Sociology ENG 192—Technical Composition
ENG 102—Composition II or	CHEM 101—General Chemistry I
ENG 192—Technical Composition	CHEM 101A—General Chemistry I Laboratory
HEC 141—Basic Clothing Construction	PSY 154—Life-Oriented General Psychology
Science elective	MATH 131—General Mathematics I OR
FNA 160—Appreciation of Fine Arts 3 PHED—Activity course 1	MATH 152—College Algebra
HLTH 150—Personal Health	ECON 101—Introduction to American Economy
SOPHOMORE YEAR	OR
First Semester	ECON 201—Principles of Economics I
CHEM 101—General Chemistry I	CHEM 102—General Chemistry II
CHEM 101A—General Chemistry I Laboratory	SPCH 110—Basic Speech
ENG 202—Introduction to Literature	BIOL 332—Human Physiology
ECON 101—Introduction to American Economy	CHEM 326, 326A—Organic Chemistry I and Laboratory
SPCH 110—Basic Speech	BIOL 217—Elementary Medical Microbiology
Second Semester	OR BIOL 317—Principles of Microbiology
HEC 344 Historic Costume	CHEM 595—Biochemistry I
OR	PSY 589—Psychology of Learning
HEC 480—Historic Textiles	SOC—Approved sociology elective
HEC 340—Textiles Testing	
Elective	
Humanities elective	
JUNIOR YEAR	
First Semester	0 10 0
HEC 453—Marriage and Family Living	Suggested Course Sequence
HEC 451—Home Furnishings 3 BIOL 331—Human Anatomy 3	FRESHMAN YEAR First Semester
HEC—Home Economics Option	SCI 103—Introduction to Physical Science
General elective	HEC 130—Elementary Foods.
Second Semester	HEC 232—Food Sanitation and Safety
HEC 341—Flat Pattern Design	ENG 101—Composition I SOC 101—General Sociology
OR	
HEC 545—Clothing Design in Draping         3           HEC 362—Consumer Education         3	Second Semester 16 HEC 231—Meal Management 5
Social science elective	ENG 192—Technical Composition
General electives	CHEM 101—General Chemistry I
SENIOR YEAR	CHEM 101A—General Chemistry I Laboratory
First Semester	BIOL 105—Introduction to Biological Science
HEC 303—Health of the Family	MATH 131—General Mathematics OR
HEC 541—Tailoring 3 HEC—Home Economics Option 6	MATH 152—College Algebra
General elective 6	SOPHOMORE YEAR
Second Semester	First Semester
HEC 471—Seminar	HEC 331—Organization and Administration of Food Service I
HEC 542—Social & Psychological Aspects of Clothing and Textiles 3	ECON 101—Introduction to American Economy
HEC—Home economics option	OR ECON 201—Principles of Economics I
General electives9	CHEM 102—General Chemistry II
120	CHEM 102A—General Chemistry II Laboratory
1.B. Bachelor of Science degree with an Area	SPCH 110—Basic Speech
of Concentration in General Dietetics	PSY 156—Life-Span Developmental Psychology
Students who complete the general dietetics area are eligi-	Second Semester
ble to apply for dietetic internship or traineeship in order to	HEC 329—Human Nutrition HEC 334—Quantity Food Preparation
complete their training to become Registered Dietitians.	BIOL 332—Human Physiology
Dietitians may work in hospitals, university food service,	SOC—Sociology elective
research, college teaching, or as consultants.	Social science elective
	JUNIOR YEAR
Sem. Hrs.	First Semester
Required Courses in Home Economics	HEC 337—Advanced Food Production Management CHEM 326, 326A—Organic Chemistry I and Laboratory
HEC 130—Elementary Foods	Humanities elective
HEC 231—Meal Management	General electives

Second Semester						100				. 1	6
HEC 336-Organization and Administration of Food S	Ser	vi	ce	I	I.			* 1			3
HEC 432-Current Problems in Diet Therapy											3
HEC 433-Diet Therapy											
BIOL 317—Principles of Microbiology								-			3
Electives											
SENIOR YEAR											
First Semester				2			135			. 1	6
HEC 330-Quantity Food Purchasing											3
Literature Elective											
HEC 536-Advanced Nutrition											3
CHEM 595—Biochemistry I											
General electives											
Second Semester							26			. 1	4
HEC 335—Food Service Equipment							 				3
HEC 529-Child Growth and Nutrition											
PSY 589—Psychology of Learning											
HLTH 150-Personal Health		0.0	7313				i di i				2
General elective											
PHED-Activity course											
HEC 139, 239, 339, or 439—Cooperative Education											
(Taken any summer semester)		* *			* *	*				12	
(Laken any summer semester)									-	. 4	, C

# 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 design studios, retail or office furnishings stores, architectural firms, industry, institutions, or self-owned studios.

	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 270-Materials, Techniques and Design	 2
HEC 280—Introduction to Interior Design	 3
HEC 343—Household Textiles	 3
HEC 350—Merchandise Display and Promotion	 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 252—Problems in Interior Design	 3
HEC 381—History of Interiors I	 3
HEC 382—History of Interiors II	3
HEC 460—Merchandise Display II	3
HEC 440—Interior Design Studio III,	
OR	
OB	
HEC 332—Field Experience in Home Economics	 3 or 4
HEC 445—Interior Design Studio IV	11.0112.00
OR.	
HEC 439—Cooperative Education,	
OB	
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	
ART 365-Arts of the United States	
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
0 . 10 0	
Suggested Course Sequence	
FRESHMAN YEAR	
First Semester	
HEC elective	 1
HEC 103—Interior Graphics I	 3
ART 291-Color and Design	 3
ENG 101—English Composition I	 3
ECON 101-Introduction to American Economy	 3
MATH 135-Mathematics for Technical Students	 3
Dhysical Education	1

Physical Education ....

Second Semester	3 3 3 3
SOPHOMORE YEAR First Semester . 1 HIS 132—Introduction to Civilization II BIOL 105—Introduction to Biological Sciences PHYS 250—Light, Color, Cameras and Perception HEC 351—Housing	333333
Second Semester  HEC 270—Materials, Techniques & Design  OADM 221—Business Communications  HEC 240—Textiles  HEC 280—Introduction to Interior Design  SCI 103—Introduction to Physical Sciences  HEC 252—Problems in Interior Design	3 3 3 3 3
JUNIOR YEAR First Semester	3333
Second Semester	53333
SENIOR YEAR  First Semester	63334
Elective  Second Semester  HEC 460—Merchandise Display II  PSY 555—Environmental Psychology  Literature elective  Science or math elective  HEC 445—Interior Design Studio IV or	333
439—Cooperative Education or 332—Field Experience in Home Economics	-

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

The area is designed and approved for students who wish to qualify to teach vocational home economics in high school. The broad-based program requires a balance in all phases of home economics and supporting courses in art, science, and other general education. In addition, the student must complete 1,000 hours of useful and gainful work experience in order to be vocationally certified.

							0	e	m	. 1	-11	rs.
Required Courses in Home Economics												
HEC 130—Elementary Foods	 	 						9				. 3
HEC 141-Basic Clothing Construction	 		 									. 3
HEC 240—Textiles												
HEC 329-Human Nutrition or equivalent	 	 	 	 		 						.3
HEC 351—Housing	 		 									. 3
HEC 355—Child Development	 		 ٠.									.3
HEC 356-Nursery School	 		 									. 3
HEC 362—Consumer Education												
HEC 451-Home Furnishings	 	 	 									. 3
HEC 453-Marriage and Family Living												
HEC 454-Supervised Home Management												
HEC Electives	 		 							434		14

Additional Requirements HEC 470—Methods of Teaching Home Economics HEC 573—Curriculum Development in Home Economics EDSE 209—Foundations of Secondary Education EDSE 310—Principles of Adolescent Development EDSE 477—Professional Semester* 1,000 Hours Work Experience *The professional semester will immediately follow HEC 470 and		0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 * 0 *			3
Suggested Course Sequence					
FRESHMAN YEAR First Semester	1.7	Se	m	. H	Irs. . 15
ENG 101—Composition I HEC 130—Elementary Foods Home economics elective			1 63		3
SCI 103—Introduction to Physical Sciences SPCH 110—Basic Speech					3
Second Semester ENG 102—Composition II				4	. 16
HEC 141—Basic Clothing Construction					3
HEC 240—Textiles Math elective		•	5.53	5.4	3
SCI 105—Introduction to Biological Sciences	9 4			50	3
PHED—Activity course	X 9	0000	100	70	1
SOPHOMORE YEAR First Semester		eroacro			. 15
PHIL 200—Introduction to Philosophy					3
HEC 303—Health of the Family					3
FNA 169—Fine Arts				040	3
PSY 154—Introduction to Psychology Second Semester					
EDSE 209—Foundations of Secondary Education					2
Home economics elective	0.00				6
Math or science elective  ENG 202—Introduction to Literature					
Social science electives					3
JUNIOR YEAR					177
First Semester HEC 355—Child Development			ce	000	3
EDSE 310—Principles of Adolescent Development		0.000		C#11	3
HEC 453—Marriage and Family Living HEC 362—Consumer Education					3
Home economics elective					2
General elective					
Second Semester HEC 329—Human Nutrition	368 700		5553	9.01 I	. 16
HEC 356-Nursery School					3
HEC 351—Housing HEC 454—Supervised Home Management Experiences					3
General elective		*			3
SENIOR YEAR					
First Semester HEC 451—Home Furnishings					
HEC 470-Methods in Teaching Vocational Home Economics		or.		000	3
HEC 573—Curriculum Development in Home Economics General elective					
Second Semester					
EDSE 477—Professional Semester				100	

# 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.

				irs	
Required Courses in Home Economics	 	w	 0.990	. 4	2
HEC 130—Elementary Foods	 				3
HEC 132—Introduction to Food Service				:	3
HEC 136-Introduction to Restaurant Management					
HEC 232-Food Sanitation and Safety					

HEC 320—Elements of Nutrition	
OR	•
HEC 329—Human Nutrition 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 HEC 139, 239, 339, or 439—Cooperative Education	5
Approved home economics electives	
Additional requirements	9
ENG 192—Technical Composition	
SPCH 110—Basic Speech	
ART 160—Appreciation of Fine Arts	5
Suggested Course Sequence	
FRESHMAN Sem Hrs	
First Semester	5
HEC 130—Elementary Foods	
HEC 132—Introduction to Food Service	
HEC 232—Food Sanitation and Safety ENG 101—Composition I	
PHED 150—Personal Health	
PHED—Activity course	
Second Semester	
ENG 192—Technical Composition	
HEC 136—Introduction to Restaurant Management	3
SCI—Physical Sciences elective	
MATH 135—Mathematics for Technical Students	
Minor elective	,
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
Minor elective	
ECON 101-Introduction to American Economy	1
Second Semester	,
HEC 336—Organization and Administration of Food Service II	
HEC 337—Advanced Food Production	
Minor elective 3 Social science elective 3	
HEC—Home economics elective	
JUNIOR YEAR	
First Semester	
HEC 330—Quantity Food Purchasing	
HEC—Home economics elective	
ART 160—Appreciation of Fine Arts	
SCI—Science/math elective	
Second Semester 16	
HEC 335—Food Service Equipment 3 BIOL—Biological Sciences elective 3	
ECON 201—Principles of Economics	
Minor elective	
General elective	
SENIOR YEAR	
First Semester	
HEC general elective	
ENG-Literature elective 3 Minor electives 6	
Social science elective 3	
General elective	
Second Semester	
HEC 329—Human Nutrition	
Humanities elective	
General elective	
HEC 139, 239, 339, or 449—Cooperative Education	
(Taken any summer or semester) 128	r

# 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		5
HEC 141—Basic Clothing Construction		3
HEC 251—Household Equipment or approved elective HEC 329—Human Nutrition or approved elective		9
HEC 335—Child Growth and Development		3
HEC 362—Consumer Education		
HEC 453—Marriage and Family Living		3
HEC 471—Seminar		
Approved home economics electives	8	3
Suggested Course Sequence		
FRESHMAN YEAR First Semester	16	5
ENG 101—Composition I		3
HEC 130—Elementary Foods		3
HEC 251—Household Equipment		3
Math elective		3
ECON 101-Introduction to American Economy		
Second Semester	16	3
ENG 102—Composition II		3
HEC 141-Basic Clothing Construction		3
Biological sciences elective		3
Social science elective		
General elective PHED—activity course		1
SOPHOMORE YEAR First Semester		
Literature elective		
HLTH 150—Personal Health		
Social science elective		
General elective		
Home economics elective		3
Second Semester	18	5
Humanities elective	8	3
General electives		
Science/math elective		
Home economics elective		3
JUNIOR YEAR First Semester		
First Semester		7
HEC 355—Child Growth and Development		3
SPCH 110—Basic Speech General elective		
Social science elective		
Home economics elective		
HEC 362—Consumer Education		
Second Semester	16	2
FNA 160—Appreciation of Fine Arts		3
General electives		7
Home economics elective	8	3
HEC 329—Human Nutrition		3
SENIOR YEAR		
First Semester		
HEC 453—Marriage and Family Living	8	3
General electives (300-500 level)		2
DATA 201—Introduction to Computers		
Second Semester		
HEC 471—Seminar		
General electives (300-500 level)		
	128	,

# 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-Introdduction to Restaurant Management		
HEC 232—Food Sanitation and Safety		
HEC 330-Quantity Food Purchasing		
HEC 331-Organization and Administration of Food Service I		
HEC 334—Quantity Food Preparation		
HEC 335—Food Service Equipment		
HEC 336—Organization and Administration of Food Service II		
HEC 337—Advanced Food Production Management		

# 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			
OR			
HEC 380—Clothing for Consumers	 		3
Approved home economics electives	 		6

# 3.C. Minor in Interior Design

A minor in interior design 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 Designation			
HEC 280-Introduction to Interior D	esign	 ** ***	 3
HEC 382-History of Interiors II			
HEC 370—Residential Interior Desig			

# 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

							n. 1		
First Semester						× (*			16
HEC 141—Basic Clothing Construction				CI K-AC	****	0.71.7	-		.3
HEC 240—Textiles						٠.			.3
ART 101-Drawing I									.3
ART 291—Color and Design									.3
ENG 101—Composition I									
PDI 100—Personal Development									.1
Second Semester									16
HEC 241—Advanced Clothing Problems							* *		3
OADM 221—Business Communications			* * *	0,4,6		280.8			3
ENG 102—Composition II									
SPCH 110—Basic Speech									
FNA 160—Appreciation of Fine Arts									
General elective									
Summer work experience (Cooperative Education)									. 4
Third Semester									
HEC 343—Household Textiles			* * *					0163	. 3
HEC 346-Fashion Fundamentals	e in co					000			. 3
MKT 350—Salesmanship									.3
JOUR 364—Feature Writing									
HEC 350—Merchandise Display and Promotion				000					. 3
Fourth Semester									15
HEC 344—Historic Costume									
JOUR 383—Principles of Advertising									
HEC 380—Clothing for Consumers									
HEC-Home economics elective									
FCON 901 Principles of Francisco	* 5000	505	5.83	100	* * *	513	95	525	. 0
ECON 201—Principles of Economics									

# 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

First Semester					
HEC 130—Elementary Foods				1	 3
HEC 132—Introduction to Food Service					
HEC 232—Food Sanitation and Safety					
ENG 101—Composition I  PSY 154—Life-Oriented General Psychology OR					
ECON 101—Introduction to American Economy					3
Second Semester		 			. 15
ENG 192—Technical Composition		1			3
MATH 131—General Mathematics					
HEC 136-Introduction to Restaurant Management					
HEC 231—Meal Management	* *	0)4	150	43	3
MNGT 311-Principles of Personnel Management		4.3			3
Summer Session					4
HEC 139, 239, 339, or 439—Cooperative Study					
Third Semester					. 15
SPCH 110—Basic Speech					
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					
HEC 335—Food Service Equipment					
HEC 336—Organization and Administration of Food Service II					
HEC 337—Advanced Food Production Management					
HLTH 150—Personal Health		×. 6		¥))*	2
					64

# 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.

### Requirements and Suggested Course Sequence

										S	e	m.	F	Ir	8.
First Semester				* (*)	260									. 1	6
HEC Elective															1
HEC 103—Interior Graphics I						. 5									3
ENG 101—English Composition I					411		4		4		14	v.	4		3
MATH 135-Mathematics for Technical Students		0 (0)													3
OADM 290—Office Accounting			1.0	7.7	(4)			4. X							3
ART 291—Color and Design							4				: 5				3
Second Semester															
HEC 104—Interior Graphics II															
ART 101—Drawing I															
ENG 192—Technical Composition															
OADM 221—Business Communication															
HEC 270—Materials, Techniques & Design															
HEC 280—Introduction to Interior Design															
Third Semester															
ECON 101-Introduction to American Economy .															
HEC 370—Residential Interior Design Studio I															3
HEC 351—Housing	١,							. ,	,						3
HEC 343—Household Textiles						0[2	VA.		i i	. 2					3
HEC 381-History of Interiors I				64											3
HEC 350-Merchandise Display and Promotion	404	000			90.0			*::4:							3

Fourth Semester	
General Electives	
HEC 252—Problems in Interior Design	
HEC 382—History of Interiors II	
HEC 240—Textiles	
BSAD 350—Salesmanship	
ART 365—Arts of the United States	
Summer School	
HEC 139—Cooperative Education	3 or 4
or 332—Field Experience in Home Economics	

# **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. (1-4-3); II. Prerequisite: HEC 104. 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.

ment. 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. 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. Taught alternate years.

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 iden-

tification 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); I. 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. (3-9-3); 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 prac-

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. Prerequisite: HEC 136 or 231. Principles and problems of organization and administration as related to quality food service. Taught alternate years.

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. Selection of equipment, layout, and design for quantity food service. Taught alternate years.

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

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). 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 parenthood education; supervised experiences in planning and guiding children's activities in a nursery school program.

HEC 362. Consumer Education. (3-0-3); I, II. 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 Resourcess. (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); I. 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

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 plan-

ning of diets for various problems. Taught alternate years

HEC 434. School Lunch Seminar. (1 hr.); on demand. Techniques and pro-

blems 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, presen-

ting, 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. Lec-

HEC 536. Advanced Nutrition. (3-0-3); I. Prerequisite: HEC 329. In-depth study of the nutrients in relation to normal nutrition; review of classical and current literature; practical application of findings. Taught alternate years.

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

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. Prerequisite: 6 hrs. in clothing and textiles. Social, psychological, and economic factors in the selection and use of clothing.

HEC 543. Advance. 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). Environmental factors favoring family life and family interaction; stages of family life and the changing role of members. Taught alternate years.

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 servicing 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. Mining Technology
  - Plastics Technology
  - K. Power and Fluids Technology
  - Welding Technology
  - M. 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
  - Mining Technology Plastics Technology I.

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

- 5. A two-year Associate of Applied Science degree in the following
  - A. Broadcast Technology
  - 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 23 semester hours of professional education courses.

	Sem. I	
Required Courses in Industrial Education		. 52
IET-Technical Drawing		
IET-Electricity-Electronics		6
IET-Graphic Arts		6
IET-Metals-Manufacturing		6
IET-Power and Fluids		6
IET-Woods-Construction		
IET-Seminar		
IET-Industrial Design		
IET—Approved industrial education electives		
IET—Supervised work experience		
Industrial Teacher Education Requirements		23
IET 390—Principles of Industrial Education		
IET 392—Technical Curriculum and Media Development		
IET 475—Teaching Methods in Industrial Education—	20.5 (15) 4 (20) 5 (5)	
Orientation and Exploration Levels		3
EDSE 310—Principles of Adolescent Development		
EDSE 410—Human Growth and Development		
IET 478—Supervised Teaching Practicum		
In Industrial Education—Orientation and Exploration Levels		Q
In Industrial Education—Orientation and Exploration Levels.		0
Suggested Course Sequence		
		_

IET 240-Basic Electricity

Suggested Course Sequence					
FRESHMAN YEAR First Semester ENG 101—Composition I IET 103—Technical Drawing I CON 101—Introduction to Construction Technology Math elective IET 111—Basic Woods Techniques	2 4 8 8 3				3 3 3 3
Second Semester ENG 192—Technical Composition IET 203—Technical Drawing II IET 211—Woods Techniques II SCI 105—Introduction to Biological Sciences HLTH 150—Personal Health PHED—activity course MATH 110—Problem-Solving Techniques	***	 		 	3 3 3 3 3 1
SOPHOMORE YEAR First Semester ENG 202—Introduction to Literature	**		 	10	6

DATA 201-Introduction to Data Processing

FN. SCI IET PSY IET	ond Semester       15         A 160—Appreciation of Fine Arts       3         103—Introduction to Physical Sciences       3         1286—General Metals II       3         / 154—Introduction to Psychology       3         '330—Industrial Design       3
First IET IET Soc IET	NIOR YEAR   15   15   15   16   17   17   18   18   19   19   19   19   19   19
ECC EDS SPC IET	ond Semester       15         DN 101—Introduction to American Economy       3         SE 310—Principles of Adolescent Development       3         CH 370—Business and Professional Speech       3         261—Power Mechanics       3         202—Graphics Arts II       3
Sun	nmer 398—Supervised Work Experience
SEI Firs IET App Soc	NIOR YEAR   17   17   18   19   19   19   19   19   19   19
1st IET O ED:	ond Semester
0 1	2496—Organization and Management of the Laboratory   2   8   8   2478—Supervised Teaching Practicum   2   8   8   2478—Supervised Teaching Practicum   8   128
	B. Bachelor of Science degree with an Area of Concentration in Industrial Education with an Option in the Preparation Level  This program is designed for those individuals who desire
to pre qui min tea	teach trade and industrial education subjects at the paration level. In addition to specified course re- rements, a work experience component consisting of a nimum of 2,000 hours supervised work experience in the chable industrial occupations or three years of occupanal experience in the occupation to be taught is required.
I.	Required Courses in Industrial Education       52         IET 100—World of Technology       3         IET 320—Supervisory Practices       3         IET 364—Career and Vocational Guidance       3         IET 391—Trade & Technical Analysis       2         IET 422—Industrial Safety Standards and Enforcement       3         IET 571—Seminar       1
II.	Technical Industrial Education courses in the specific occupational area to be taught
III.	
IV.	Industrial Teacher Education Courses         23           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 & Development         3           IET 394—Student Teaching in Vocational         3           Industrial Education or 401 Seminar         8
V.	Work Experience

tion component, or three years of occupational experience in the occupa-

tion to be taught.

Suggested Course Sequence	
Suggested Course Sequence FRESHMAN YEAR	Sem. Hrs.
First Semester ENG 101—Composition I	
IET 100—World of Technology Occupational Emphasis Elective	
MATH 135—Mathematics for Technical Students	3
PHED—activity course IET 103—Technical Drawing I	3
Second Semester	
ENG 192—Technical Composition Technical elective	4
Occupational emphasis elective PHYS 202—Elementary Physics II	
SOPHOMORE YEAR First Semester	16
ENG 202—Introduction to Literature	3
IET 390—Principles of Industrial Education BIOL 105—Introduction to Biological Sciences	3
Technical elective	5
Second Semester	
General elective HLTH 150—Personal Health	2
Occupational emphasis elective	3
SPCH 370—Business and Professional Speech Technical elective	3
IET 398—Supervised Work Experience	3
JUNIOR YEAR First Semester	14
IET 391—Trade and Technical Analysis IET 422—Industrial Safety	
FNA 160—Appreciation of Fine Arts Occupational emphasis elective	3
Second Semester	15
General elective IET 320—Supervisory Practices	
ECON 101-Introduction to American Economy	3
GOVT 141—Government of U.S. IET 398—Supervised Work Experience	
SENIOR YEAR	
First Semester ECON 201—Principles of Economics I	3
IET 571—Seminar PSY 154—Introduction to Psychology	
Technical elective IET 392—Technical Curriculum & Media Development	3
IET 364—Career & Vocational Guidance	3
Second Semester 1st 8 weeks	15
IET 393—Methods in Industrial Education Preparation Level EDSE 410—Human Growth & Development IET 395—Special Problems in Vocational Education	3
2nd 8 weeks	
IET 394—Supervised Teaching practicum or 401—Seminar in Industrial Education	8 ,
The state of the s	128

#### 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 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.

The state of the s	Sem. Hrs.
Required Courses in Industrial Technology	52
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

Sem. Hrs.

Approved electives in emphasis	15
(Approved electives in either science and math or in business an	d 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 electronics and an emphasis in science and math. It can be modified for any option and for an emphasis in business and economics.

phasis in business and economics.	
FRESHMAN YEAR First Semester	Sem Hre
First Semester	16
ENG 101—Composition I	2
MATH 110—Problem Solving Techniques	
MATH 152—College Algebra	
IET 102 Technical Descript I	
IET 103—Technical Drawing I	
IET 240—Basic Electricity	3
ECON 101-Introduction to American Economy	3
Second Semester	15
ENG 192—Technical Composition	3
MATH 141-Plane Trigonometry	3
IET 241—Basic Electronics	3
IET 243—Electric Power	
IET 244-Electrical Drafting and Design	
and and an	
SOPHOMORE YEAR	
First Semester	16
Math elective	
PSY 156—Life-Span Developmental Psychology	
IET 338—FCC License	
IET 341—Transistors and Semiconductors	
IET 342—Communications Electronics	
THEA 110-Introduction to Theatre	
Second Semester	17
PHYS 202—Elementary Physics II	4
IET 317—Time and Motion	2
IET 345—Television Electronics	4
IET 346—Transmitter Electronics	4
GOVT 141—Government of U.S.	
JUNIOR YEAR First Semester	
JUNIOR YEAR	
First Semester	16
ENG 202—Introduction to Literature	3
SCI 105—Introduction to Biological Sciences	3 ·
IET 440—Industrial Electronics	
IET 249—Residential Wiring	
IET 348—Motors and Generators	4
Second Semester	15
DATA 201—Introduction to Computers	
ECON 201—Principles of Economics I	
IET 330—Industrial Design	
RTV 250—Audio Production & Direction	
IET 441—Computer Electronics	
CENTOR VEAR	
SENIUR TEAR	
First Semester	
IET 319—Quality Control	
RTV 340-Video Production and Direction I	3
DATA 210—Computer Programming Fundamentals	3
HLTH 203-Safety and First Aid	3
IET 349—Industrial Wiring	4
Second Semester	17
PHYS 361—Fundamental of Electronics	
IET 320—Supervisory Practices	
SPCH 370—Business and Professional Speech	
IET 347—Power Transformers & Distribution	
IET 571—Seminar in Industrial Education	
IET 422-Industrial Safety Standards and Enforcement	
	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 IET—Technical Drawing IET—Electricity Electronics IET—Metals-Manufacturing IET—Power & Fluids IET—Woods-Construction IET—Seminar IET—Industrial Design IET—Graphic Arts Technical elective (Electives must be approved by the student's advisor with nine semester hours in any one technical field.) Industrial Teacher Education Requirements IET 390—Principles of Industrial Education IET 392—Technical Curriculum and Media Development IET 475—Teaching Methods in Industrial Education— Orientation/Exploration levels EDSE 310—Principles of Adolescent Development IET 478—Supervised Teaching Practicum in Industrial Education—Orientation and Exploration Levels	
Suggested Course Sequence	
FRESHMAN YEAR First Semester ENG 101—Composition I IET 103—Technical Drawing IET 160—Introduction to Power & Fluids Mechanics MATH 135—Mathematics for Technical Students IET 111—Basic Wood Techniques MATH 110—Problem Solving Techniques	3 3 3
Second Semester ENG 192—Technical Composition IET 203—Technical Drawing II IET 102—Graphic Arts SCI 105—Introduction to Biological Sciences HLTH 203—Safety and First Aid Elective	3 3 3 3 3
SOPHOMORE YEAR First Semester Technical elective ENG 203—Introduction to Literature IET 240—Basic Electricity CON 101—Introduction to Construction Technology Social science elective	3 3 3
Second Semester Minor SCI 103—Introduction to Physical Sciences FNA 160—Appreciation of Fine Arts IET 186—Manufacturing & Fabrication PSY 156—Life-Span Developmental Psychology	
JUNIOR YEAR First Semester IET 330—Industrial Design Minor IET 390—Principles of Industrial Education Social Science Elective IET 286—General Metals	
Second Semester ECON 101—Introduction to American Economy EDSE 310—Principles of Adolescent Development SPCH 370—Business and Professional Speech DATA 201—Introduction to Data Processing Minor	
Summer IET 398—Supervised Work Experience	3
SENIOR YEAR First Semester IET 571—Seminar in Industrial Education ECON 201—Principles of Economics Minor IET 392—Technical Curriculum & Media Development	

Second Semester				.16
1st 8 weeks				
IET 575—Teaching Methods in Industrial Education				
Orientation/Exploration level	200		 	 3
EDSE 410—Human Growth & Development		10.1	 	 3
IET 496—Organization and Management of Laboratory			 	 2
2nd 8 weeks				
IET 478—Supervised Teaching Practicum				
Orientation/Exploration			 1.4	 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

	Sem. Hrs.
Required Courses in Industrial Technology	30
IET 103—Technical Drawing I	
IET 317—Time and Motion	
IET 319—Quality Control	
IET 320—Supervisory Practices	
IET 330—Industrial Design	
IET 571—Seminar	
Approved electives in option	

(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

							em			
First Semester	2145	sin	1274	nam	200	u va			. 1	6
IET 103—Technical Drawing I										
IET 240—Basic Electricity										
R-TV 151—Introduction to Broadcast Techniques			. +					. (10)		0
R-1 V 151—Introduction to Broadcast Techniques								10		2
ENG 101—Composition I		٠.				. ,		, 5.		3
IET—Approved industrial technology elective	1		4	814	i.		4.1	1		2
R-TV 155—Broadcast Performance	45						10.50	cv.		3
Second Semester									1	7
IET 251—Basic Electronics										
MATH 110—Problem Solving Techniques										
IET 338—FCC License										1
R-TV 250-Audio Production and Direction										
Math elective	Ge (				006	+1.0	100	00		3
ENG 192—Technical Composition	O.K.	** 0**		100			0.000			3
Third Semester										
IET 440—Industrial Electronics										
IET 342—Communications Electronics										
Math elective		0.4	× ×	1070	i io	47.A	100	10		3
R-TV 340-Video Production and Direction I	(4)		3.5	***	i des		290		- 0	3
IET 341-Transistors and Semiconductors										3
IET 244—Electrical Drafting and Design										
Fourth Semester										
IET 346—Transmitter Electronics										
IET 345—Television Electronics										
PHYS 202—Elementary Physics II										4
IET 320—Supervisory Practices										
	78	100		832		F	76		6	34
									-	

#### 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

	S	er	n.	H	rs.
First Semester					16
CON 101—Introduction to Construction Technology ENG 101—Composition I					
ECON 101—Introduction to American Economy					
CON 201-Properties of Construction Materials					
MATH 135—Mathematics for Technical Students					
MATH 110—Problem Solving Techniques					
Second Semester					17
CON 102—Surveying I					
IET 103—Technical Drawing I			e (e )		.3
CON 103—Materials Testing			55		.3
IET 249—Residential Wiring					
CON 204—Codes, Contracts & Specifications	4				.3
Approved technical elective					. 2
Third Semester					16
IET 111-Basic Woods					
CON 203—Construction Methods & Equipment					
CON 104—Surveying II	1214	149			. 3
CON 202—Structural Design					. 3
IET 404—Architectural Drawing					. 3
Fourth Semester					15
CON 205—Estimating Construction Costs					
CON 206—Construction Management					
ENG 192—Technical Composition					
IET 320—Supervisory Practices					
SPCH 370—Business and Professional Speech					
					64

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

The drafting and design technology program prepares graduates to enter a wide range of jobs in the drafting and design industry. The program develops skills and knowledge in such areas as technical drawing, technical illustration, tool layout and design, industrial design, and machine drawing. The student can also select courses which will apply this skill and knowledge to such areas as electricity, plastics, metal working, or power and fluid mechanics.

#### Requirements and Suggested Course Sequence

	Q	am	Hrs.	
First Semester				
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 160-Introduction to Power and Fluid Mechanics				
Second Semester			17	
IET 203—Technical Drawing II				
IET 301—Tool Layout and Design			3	
IET 330—Industrial Design				
Math elective				
ENG 192—Technical Composition				
IET 186—Manufacturing Fabrication		24	3	
Third Semester				
IET 286—General Metals II				
IET 204—Descriptive Geometry				
IET 303—Technical Illustration				
IET 305—Housing				
IET 317—Time and Motion Study			2	
ECON 101 – Introduction to American Economy				

ourth Semester	8
ET 404—Architectural Drawing	3
ON 202—Structural Design	3
ET 319—Quality Control	3
ET 403—Machine Drawing and Design	3
ET 320—Supervisory Practices	3
ET 388—Machine Shop I	3
6	A

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

The electrical technology program is designed for the student interested in occupations dealing with industrial and commercial electrical components. The program emphasizes the use of electricity in residential, commercial, and manufacturing situations, including cooperative and utility companies.

#### Requirements and Suggested Course Sequence

								S	en	n.	H	rs.
First Semester						 27						15
IET 103—Technical Drawing I												
IET 240—Basic Electricity								2073				3
ENG 101-English Composition I												
Math elective												3
ECON 101—Introduction to American Economy												3
IET 241—Basic Electronics												
IET 243—Electric Power												
IET 244-Electrical Draft & Design												
IET 249—Residential Wiring												
Math elective												
ENG 192—Technical Composition	4.40				(6)							. 3
Third Semester												17
IET 341-Transistors & Semiconductors												. 3
DATA 201-Introduction to Computers												
IET 348-Motors and Generators												
IET 349—Industrial Wiring												
IET 447—Industrial Electronics	1											.3
Fourth Semester			-	100			0				n e	
Fourth Semester		419	* 1	* 1	3	 *		* *	* *			17
PHYS 202—Elementary Physics II				* >				3 2	4.4			. 4
IET 347—Power Transformers and Distribution												
IET 441—Computer Electronics												
IET 320—Supervisory Practices												
IET elective						 				*		
											1	67

#### 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. Graduates are usually employed at the technical or supervisory level in salaried positions.

#### Requirements and Suggested Course Sequence

			Sem.	Hrs.
First Semester				
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				
Second Semester		 		18
IET 241-Basic Electronics				3
IET 243-Electric Power		 		3
IET 244-Electrical Drafting and Design	600	 		3
ENG 192—Technical Composition		 		3
Math elective		 		3
IET 249—Residential Wiring		 		3

Third Semester
IET 342—Communications Electronics
IET 341—Transistors and Semiconductors
IET 440—Industrial Electronics
IET 319—Quality Control
DATA 201—Introduction to Computers
IET 338—FCC License
Fourth Semester
IET 317—Time and Motion Study
IET 345—Television Electronics
IET 346—Transmitter Electronics
IET 441—Computer Electronics
IET 320—Supervisory Practices
Approved general elective
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

								1	S	en	n.	H	Irs.	
First Semester	1		E.				-						15	į
IET 102-Graphic Arts I		95 V	1000		506	no s	ec e		30				. 3	ļ
IET 103—Technical Drawing I													3	ĺ
ENG 101-Composition I														
Math elective														
OADM 211—Beginning Typewriting					200							2	3	į
Second Semester														
IET 202-Graphic Arts II														
IET 317-Time and Motion Study			120			100							3	3
ART 291-Color and Design														
MATH 135-Mathematics for Technical Students .													3	j
DATA 201-Introduction to Computers														
ENG 192—Technical Composition														
The state of the s														
Third Semester				·					***				17	
IET 351-Graphic Duplication													.3	
IET 322-Photography														
IET 350-Machine Composition I							2071		900 400			90	3	
ECON 101-Introduction to American Economy													.3	
JOUR 305-Newspaper Typography and Design														
IET 320—Supervisory Practices														
and the per visory are control of the control of th			7:5										. •	
Fourth Semester							d						15	
IET 302—Offset Lithography														
IET 450—Machine Composition II											15		3	
IET 319—Quality Control														
SPCH 370—Business and Professional Speech		* *		×				*	*/ '		*.		3	
IET 398—Supervised Work Experience														
111 000 Super vised work Experience	* *	* *	* *				٠		* :		*		64	
													U*	

### 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

First Semester			15
IET 100—World of Technology			2
MATH 135—Mathematics for Technical Students			8
IET 103—Technical Drawing I			
ENG 101—Composition I	2/3/6/	3/1503	
ECON 101—Composition 1  ECON 101—Introduction to American Economy			
ECON 101—Introduction to American Economy		7.4.4	
Second Semester			15
ENG 192—Technical Composition	6 676		6
IET 186—Manufacturing and Fabrication	0 0		8
IET 240—Basic Electricity	40.00		
IET 160—Introduction to Power and Fluids		9 9 0	
CON 103—Materials Testing			8
Third Semester			12
IET 320—Supervisory Practices	m   e   e		
IET 319—Quality Control			
IET 327—Applied Industrial Management			6
CDCVI one D in a language ment	*:+: >:	+)	
SPCH 370—Business and Professional Speech	* * *:	* * *	
IET 317—Time and Motion Study	11.	* * *	
IET 388-Machine Shop I			6
Fourth Semester			
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
IET 499—Numerical Control			4
Technical elective			
			64

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

The machine tool technology program prepares individuals for entry into manufacturing occupational fields at the technician's or supervisor's level. This program includes work in drafting-design, electronics, plastics, quality control and time and motion.

#### Requirements and Suggested Course Sequence

		Sem. Hr
First Semester		1
MATH 110—Problem Solving Techniques		
ET 103—Technical Drawing I		
ET 106—Thermoplastic Processing		
ENG 101—Composition I		
MATH 135—Mathematics for Technical Students		
ET 186—Manufacturing and Fabrication	*******	
Second Semester		
ET 203—Technical Drawing II		
ET 286—General Metals II		
ENG 192—Technical Composition		
CON 103—Materials Testing		
ET 160—Power and Fluids Mechanics		
E 1 100—Fower and Fluids Mechanics		
hird Semester		1
ET 319—Quality Control		
ET 301—Tool Layout and Design		
ET 386—Welding		
ET 388—Machine Shop I		
ET 240—Basic Electricity		
CON 101—Introduction to American Economy		
CON 101—Introduction to American Economy		
ourth Semester		1
PCH 370—Business and Professional Speech		
TOTI 070—Business and Professional Speech		
ET 306—Plastics Mold Design and Construction		
ET 330—Industrial Design		
ET 486—Pattern Making and Foundry		
ET 488—Machine Shop II		
ET 320—Supervisory Practices		
pproved technical elective		
		6

#### 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

							S	em	1.	Hr	s.
First Semester											
IET 160-Introduction to Power and Fluids Mechani	0.72										
IET 262—Fluid Power I											
ENG 101—Composition I											
Math elective											
ECON 101-Introduction to American Economy						5 3	5.5	818	•		3
Second Semester										1	7
IET 261—Power Mechanics	* *					. 4		- 4		- 1	0
IET 362—Fluid Power II											
IET 103—Technical Drawing I	10 A 1	500					+ =				3
IET 317—Time and Motion Study		0.00			5.07		2.5		4		2
Elective											
ENG 192—Technical Composition											
Third Semester											
Third Semester									* *	- 1	0
IET 360—Internal Combustion Engines I		(0)						4. 4.			3
IET 365—Instrumentation	1.0		100	2			Y	Y. Y.			3
IET 240—Basic Electricity											3
IET 319—Quality Control											3
IET 320—Supervisory Practices	27216		100					-			3
General elective											
Fourth Semester	e (e )		000		r. 80					. 1	.6
IET 463-Heating, Ventilating, and Air Conditioning											3
IET 460-Internal Combustion Engines II											3
IET 186-Manufacturing and Fabrication											
IET 422—Industrial Safety											
General elective			7	3			0.00		* *		
										•	4

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

\*Beginning July 1, 1977, industrial arts and vocational trade and industry merged to become industrial education at the orientation/exploration and preparation levels. New certification requirements apply to students entering after July 1, 1977.

The individual completing this program and receiving the Associate of Applied Science degree must have four years of successful work experience (which can be validated) in the trade in which he or she proposes to teach or must earn 4,000 hours of approved and supervised work experience.

	Sem. Hrs.
I.	Required Industrial Education Courses
	IET 364—Career and Vocational Guidance
	IET 390—Principles of Industrial Education
	IET 392—Technical Curriculum & Media Development
	IET 393—Methods in Industrial Education at the
	Preparation Level
	IET 394—Student Teaching in Industrial Education
	OR
	IET 401—Seminar
	IET 497—Seminar
	EDSE 310—Principles of Adolescent Development
II.	Specialization Component
	Twenty-four semester hours of approved technical industrial education
	courses in the specific occupational area to be taught. Up to 18 hours pro-
	ficiency credit may be awarded through the NOCTI test with up to 9
	hours substituted toward the 24 hours speciality component.
III.	
	ENG 101—Composition I
	ENG 192—Technical Composition
	SPCH 370—Business and Professional Speech
	Approved math or science electives 8
	Economics elective 3
	Economics elective

#### Requirements and Suggested Course Sequence

First Semester		 (0)		6		Ċ,				1
IET 390—Principles of Industrial Education		 w.			***					2
IET 393—Methods in Industrial Education			117		*		-			. 3
ENG 101—Composition I										3
Math elective										3
Technical emphasis										6
Technical emphasis		 			****					-
Second Semester					0.1					17
IET 103—Technical Drawing I										
ECON 101-Introduction to American Economy										
IET 497—Seminar in Vocational Education										
Technical elective		 100						. ,	*	. 4
IET 364—Career and Vocational Guidance					+:0		+			. 3
ENG 192—Technical Composition		 100								. 3
Summer										
IET 398—Supervised Work Experience		 ×		*						4
m: 10										
Third Semester										11
IET 391—Trade and Technical Analysis	*			10					*	. 2
IET 320—Supervisory Practices					*		٧.			. 3
Approved general elective										. 3
Technical elective										
IET 392-Technical Curriculum and Media Development.										. 3
SPCH 110-Basic Speech		 3		15						. 3
Potenth Secretary										
Fourth Semester	*))				> )					11
EDSE 310-Principles of Adolescent Development										
IET 394—Student Teaching in Industrial Education	41	w.								. 4
OR										
IET 401—Seminar										
General elective										4
										34
										71.7

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

The welding technology program includes a study of oxyacetylene 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		
WEL 101—Oxyacetylene Welding		
WEL 101A—Oxyacetylene Welding Laboratory		9
IET 103—Technical Drawing I		
IET 186—Manufacturing and Fabrication		9
MATH 135—Mathematics for Technical Studen	***********	
MATH 135—Mathematics for Technical Studen	LS	
Second Semester		17
WEL 102—Arc Welding		
WEL 102A-Arc Welding Laboratory		
ENG 101—Composition I		9
ET 240—Basic Electricity		
ECON 101—Introduction to American Economy		
Approved technical elective		
Third Semester		
WEL 201-Inert Gas Welding		
WEL 201A-Inert Gas Welding Laboratory		
WEL 205—Welding Metallurgy		
ENG 192—Technical Composition	*********	
ET 319—Quality Control		
ET 319—Quanty Control		
ET 317—Time and Motion Study		
Fourth Semester		15
rourth Semester	THE RESERVE OF THE RE	
WEL 202-Weld Joint Design and Testing		
WEL 202A—Weld Joint Design and Testing Lal	boratory	
WEL 204—Welding Codes and Blueprint Reading		
SPCH 370—Business and Professional Speech		
IET 320—Supervisory Practices		8
		64

### **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. 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

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); II. Process charts, analysis of

methods, materials, tools, and equipment of industry for profit improvement. IET 319. Quality Control. (2-2-3); I. 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); II. 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 Mangagement. (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); II. Product design with emphasis upon modular systems, consumer relations, and manufacturing capabilities. Individual and group activities using interdisciplinary and systems design

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. (3-0-2); on demand. Study of the concept of career education and to explore the new emerging role of the guidance counselor in regard to problems that exist in our present educational system, innovative concept of career education, the counselor and classroom teacher's responsibility within the framework of career education, evaluation of career education, and exploring future implications for developing positive attitudes and values for work for all students, including the disadvantaged and handicapped.

IET 365. Instrumentation. (2-2-3); on demand. Techniques of properly instrumenting test calls with such devices as pilot tubes, manometers, and elec-

tronic 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 can-

didate is preparing to teach.)

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

IET 390. Principles of Industrial Education. (3-0-3); I. The history of industrial education, types of curriculum, types of schools, and level of industrial education programs are given emphasis as are vocational guidance

and competency based occupational preparation.

IET 391. Trade and Technical Analysis Techniques. (2-0-2); 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. 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 pro-

cedures 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 in-

dustrial 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); II. 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 pro-

duction 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 enforce ment 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 lecturediscussion, 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); 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 behavorial changes; industrial arts curricular patterns and trends; selection and organization of subject matter, problem selection, and the project method of teaching; instructional materials and teaching aids; testing and evaluation; and professional

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); II. 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 philosophocal positions underlying the development of industrical 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 commercial grades available and control standards and properties expected. Development of various joint and seam designs with applied testing.

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 24l. 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. Prequisite: 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

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); I. 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 procedures (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. (l-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 prac-

tices 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.

pounds are processed.

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

IET 268. 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. Foundry, 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 techiques 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

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 205A. Welding Metallurgy Laboratory. (0-4-2); I. Specimen prepara-tion with macro and micro inspection of welds. Physical strength characteristics of welds, including hardness, tensile, impace, and yield

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 nondestruc-

tive testing.

### Mining Technology Program

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 twoyear 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

						S	e	m.	. 1	Hrs	3,
First Semester	 									. 1	6
MIN 101-Introduction to Mining and Reclamation	 	 NA.			407		w				3
IET 103—Technical Drawing I											
ENG 101—Composition I	 201	 0.00	+ 1	. (+)	+07	*   x	+				3
MATH 135-Mathematics for Technical Students	 2.2	 35		- 19			ė				3
MATH 110—Problem Solving Techniques	 		00						18		1
HLTH 203-Safety and First Aid	 	 4	k is				×				3
Second Semester	 									. 10	6
MIN 103-Mine Drafting	 						4				3
MIN 104—Underground Mine Safety											
CON 102-Surveying I											
ENG 192—Technical Composition											

IET 240—Basic Electricity GEOS 100—Physical Geology		 ٠.		 		1
Third Semester				 	. 1	18
MIN 200—Mine Surveying						
MIN 201—Mine Equipment						
MIN 202-Mine Design, Ventilation, and Drainage						
MIN 301—Mine Electrical Systems						3
GEOS 200—Coal Mine Geology	- 1					3
Approved elective	(e; e	 		 		3
Fourth Semester						
MIN 302—Coal Analysis and Preparation						3.570
MIN 303—Mine Laws and Management						
MIN 304—Mine Systems Technology						
AGR 207—Land Conservation and Forest Management						
IET 320—Supervisory Practices	35.0	 	100		10	3
113 1 020 - Super visory 1 ractives				* *		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. (14-3); 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 interpreta-

tions 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

Accounting and Economics
AAB—Accounting
Information Sciences
AAB—Data Processing
AAB—Office Management
AAB—Secretarial Studies
Management and Marketing
AAB—Real Estate

#### ANTICANCESTED A

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	
Humanities electives	12
	15

SCIENCE AND MATHEMATICS MATH 160—Mathematics for Business and Economics MATH 354—Business Statistics	
Science and mathematics electives	5
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

### **Accounting and Economics**

The Department of Accounting and Economics offers the following:

 Two-year program leading to an Associate of Applied Business degree (AAB) in Accounting

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

#### AAB-Accounting

This program leads to technical proficiency in accounting for business and industrial accounting jobs at the introductory level. All courses in this program may apply to the BBA four-year degree program. Note that the four-year degree program requires additional lower division electives.

#### Course Requirements

- 10 [19] [10] - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1	Sem. Hrs
ACCT 281—Principles of Accounting I	
ACCT 282—Principles of Accounting II	
ACCT 384—Intermediate Accounting I	
ACCT 385—Intermediate Accounting II	
ACCT 387—Income Tax	
ACCT 390—Cost Accounting I	
Other required courses	
General electives	
Note: The contract of the cont	6
Suggested Course Sequence	
First Semester	
ACCT 281—Principles of Accounting I	
MNGT 160—Introduction to Business	
ENG 101—Composition I	
MATH 160—Mathematics for Business and Economics	
SPCH 210—Listening	
	1
Second Semester	
ACCT 282—Principles of Accounting II	
DATA 201—Introduction to Computers	
FIN 252—Mathematics of Finance	
ECON 201—Principles of Economics I	
ENG 102—Composition II	
OR	
ENG 192—Technical Writing	
	1
Third Semester	
ACCT 384—Intermediate Accounting I	log transmission A
ACCT 390—Cost Accounting I	
OADM 221—Business Communications	
ECON 202—Principles of Economics II	

	irth S													
ACCT 385—Intermediate Accoun	ting I	I	 	٠.				10.0						:
ACCT 387—Income Tax			 						166			, ,		
MNGT 301-Principles of Manage	ement		 		0270		-				10			
MNGT 461-Business Law I														
Elective			 				***			 100	 190			:
Elective														
														18

#### **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	
MNGT 461—Business Law I	
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

Som Hre

		Sem. Hrs.
BBA Core		
ACCT 384—Intermediate Accounting I		
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		
ENG 101—Composition I		3
MATH 160-Mathematics for Business and Econo	mics	4
SCI-Physical Science		3
The second secon		16
Second Semester		
ACCT 282-Principles of Accounting II		3
FIN 252-Mathematics of Finance		3
ENG 102—Composition I		
OR		
ENG 192—Technical Writing	. see ere erieee	3
PHED-Activity		1
SCI-Biological Science		
General education (Soc. or Psy.)		
		16
SOPHOMORE YEAR		
First Semester		
ACCT 384-Intermediate Accounting I		3
OADM 221—Business Communications		
ECON 201-Principles of Economics I		3
HLTH 150—Personal Health		
MNGT 301-Principles of Management		
General education (Hum. or Comm.)		
		17

Second Semester
ACCT 385—Intermediate Accounting II
ECON 202—Principles of Economics II
ENG-Literature elective
MATH 354—Business Statistics
General education (Govt. or Geog.)
1!
JUNIOR YEAR
First Semester
ACCT 387—Income Tax
ACCT 390—Cost Accounting I
FIN 360—Business Finance
ECON 350—Microeconomics
SPCH 370—Business and Professional Speech
15
Second Semester
Accounting elective
MNGT 306—Production Management
MKT 304—Marketing
Electives
22
SENIOR YEAR
First Semester
ACCT 483—Auditing
MNGT 461—Business Law I
Electives
11
Second Semester
Accounting elective
MNGT 472—Business Policies and Problems
MNGT 561—Business Law II
Electives
15
10

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

								Irs.
ACCT 281—Principles of Accounting I	 	000	200	- 4	85A	4.	 90	. 3
ACCT 282—Principles of Accounting II			* . *		YOU	 60	 100	3
ACCT 384—Intermediate Accounting I	 					 ***	 	. 3
ACCT 385—Intermediate Accounting II	 			84		43	 174	. 3
ACCT 390—Cost Accounting I								
Approved accounting electives								
								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 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.

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); II, III. Prerequisite: ACCT 282. Analysis of cost data; manufacturing and cost analysis, budgets, managerial decision-making analysis.

ACCT 384. Intermediate Accounting I. (3-0-3); I, II. Prerequisite: ACCT 282. Fundamental accounting procedures, the accounting procedures, the accounting procedures.

ting 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.

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 438. Accounting for Business Combinations. (3-0-3); I. Prerequisite or corequisite ACCT 385. Accounting for acquisitions, consolidations, and mergers; purchasing and pooling methods of business combination, parent and subsidiary accounting for consolidated balance sheets; income statements, statements of changes in financial position; special problems of consolidations; and international operations.

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); III. Prerequisite: ACCT 384. Special accounting problems; 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); I. 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 570. Research Problems in Accounting. (1 to 3 hrs); I, II, III. Prerequisite: graduate standing with minor equivalent, in accounting. Provides an opportunity and challenge for self-directed independent study of accounting problems. Student must present a written statement, prior to registration, of an approved research problem.

ACCT 575. Controllership. (3-0-3); I, III. 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.

grams, and the protection of assets.

ACCT 584. C.P.A. Problems. (3-0-3); II. 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.

#### 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	
ECON 302—Labor Economics FIN 342—Money & Banking	
ECON 541—Public Finance	
ECON 547—International Economics	
ECON 551-Macroeconomic Theory	
*Approved electives	
	54
Suggested Course Sequence	
FRESHMAN YEAR	
First Semester	
ECON 201—Principles of Economics I	
ENG 101—Composition I	
HLTH 150—Personal Health MATH 160—Mathematics for Business & Economics	4
PHED—Activity	
SCI-Physical Science	
	16
Second Semester DATA 201—Introduction to Computers	
DATA 201—Introduction to Computers	
ECON 202—Principles of Economics II	
ENG 102—Composition II SCI—Biological Sciences	3
General education (Soc. or Psy.)	
	15
SOPHOMORE YEAR First Semester	
First Semester	
ACCT 281—Principles of Accounting I	
FIN 252—Mathematics of Finance ECON 302—Labor Economics	3
General education (Hum. or Comm.)	
General education (Govt. or Geog.)	
Elective	
	16
Second Semester	
ACCT 282—Principles of Accounting II OADM 221—Business Communications	
ECON 350—Microeconomic Theory	
ENG 202—Introduction to Literature	
MATH 354—Business Statistics	
Elective	
WINDS VEAD	
JUNIOR YEAR First Semester	
MNGT 301—Principles of Management	
MKT 304—Marketing	
FIN 342—Money and Banking	
ECON 551—Macroeconomic Theory	
Electives	
Second Semester	18
FIN 360—Business Finance	
MNGT 472—Business Policies and Problems	
ECON 547—International Economics	
SPCH 370—Business and Professional Speech	
MNGT 306—Production Management	
SENIOR YEAR	15
SENIOR TEAR First Semester	
ECON 541—Public Finance	
MNGT 461—Business Law I	
Economics elective	
Electives	
Second Semester	15
Economics elective*	9
Electives	
	16
*Economics and finance electives are to be selected	from the list "Approved
Electives for Economic and Finance Programs" wit	

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	3.
BBA Core	3
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
5	4
the contract of the contract o	
Suggested Course Sequence	
FRESHMAN YEAR	
First Semester	
ENG 101—Composition I	3
HLTH 150—Personal Health	2
MATH 160-Mathematics for Business and Economics	
PHED-Activity	1
SCI-Physical Science	
General education (Soc. or Psy.)  Second Semester  DATA 201—Introduction to Computers	6
Second Semester	
DATA 201—Introduction to Computers	3
FIN 252—Mathematics of Finance	3
ENG 102—Composition II	3
SCI-Biological Science	
General education (Govt. or Geog.)	3
Supposed the second of the sec	5
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	
General education (Hum. or Comm.)	3
Elective	
10	5
Second Semester ACCT 282—Principles of Accounting II	
ACCT 282—Principles of Accounting II	5
MKT 304—Marketing ECON 202—Principles of Economics II	3
ECON 202—Principles of Economics II	3
Electives	
JUNIOR YEAR	,
Di a Calabaran da	
ACCT 384—Intermediate Accounting I	3
MNGT 301—Principles of Management	9
ECON 350—Microeconomic Theory	2
MATH 354—Business Statistics	3
Elective	
Process of the state of the sta	
Second Semester	55
ACCT 387—Income Tax	3
FIN 360—Business Finance	
SPCH 370—Business and Professional Speech	
MNGT 306—Production Management	3
Electives	
18	5
SENIOR YEAR	
First Semester	
MNGT 461-Business Law I	3
FIN 342—Money & Banking	3
FIN 343—Investments	
*Finance electives	3
Elective	3
II	
Second Semester	
MNGT 472—Business Policies and Problems	3
FIN 560—Financial Markets	3
*Finance elective	
Electives	3
The Wall of Wallington -	5

\*Economics and finance electives are to be selected from the list "Approved Electives for Economic and Finance Programs" with consent of faculty ad-

### **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

Honors Seminar in Economics. (3-0-3). Prerequisite: membership in University honors program. Analysis of contemporary economics problems and policy

alternatives. Topics discussed may vary semester to semester

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 201. Principles of Economics I. (3-0-3); I, II, III. Theories of income, employment, monetary policy, fiscal policy, the price level, and economic

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 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,

ECON 305. Comparative Economic Systems. (3-0-3). 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 350. Microeconomic Theory. (3-0-3); I, II, III. Prerequisites: 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 476. Special Problems. (1 to 3 hrs.) 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). 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); II. Prerequisites: ECON 201 and 202. Analysis of location patterns, land use, urban and regional structure and growth, and development strategies. Emphasis is placed on contem-

porary 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). Prerequisites: ECON 201 and 202. The origin and development of economic theories from the Mercan-

tilist through modern times.

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 & Public Policy. (3-0-3). Prerequisites: ECON 201 and 202 or ECON 600. 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). 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). Prerequisites: ECON 201 and 202 or ECON 600. 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). 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 570. Research Problems in Economics. (1 to 3 hrs.). Prerequisites: senior or graduate standing plus a minor in economics or equivalent. Provides an opportunity and challenge for self-directed independent study on economic problems. The student must present a written statement of the proposed study approved by the instructor prior to registration.

ECON 590. Economic Education for Teachers. (3-0-3); I, II, III. 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).

#### 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	 
ECON 551-Macroeconomic Theory	 3
Economics electives	 6
	21

\*Economics and finance electives are to be selected from the list "Approved Electives for Economics and Finance Programs" with consent of faculty ad-

Electives required for the programs in economics or finance may, with consent of faculty advisor, be selected from any of the following courses:

ECON 302—Labor Economics
ECON 305—Comparative Economic Systems
FIN 343—Investments
FIN 408—Risk Management
FIN 409—Life and Health Insurance
ECON 476—Special Problems
ECON 500—Mathematical Economics
ECON 503—Urban and Regional Economics
ECON 510—History of Economic Thought
ECON 541—Public Finance
ECON 545—Industrial Organization and Public Policy
ECON 547—International Economics
ECON 551—Macroeconomics
ECON 555—Economics Development and Growth
FIN 560—Financial Markets

#### FINANCE

FIN 252. Mathematics of Finance. (3-0-3); I, II. Interest annuities, amortization, sinking funds, bond valuation, depreciation, 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 342. Money and Banking. (3-0-3); I, II. 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 institu-

FIN 360. Business Finance. (3-0-3); I, II, III. Prerequisites: FIN 252, 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 408. Risk Management and Property and Casualty Insurance. (3-0-3); II. 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); I. 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 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 560. Financial Markets. (3-0-3); I, II. Prerequisite: FIN 360. Institutional and business factors that influence demand and supply of funds, effect on price movements, detailed analysis of money and capital markets.

### Information Sciences

The Department of Information Sciences offers the following:

- 1. One-year Certificate Programs
  - a. Clerical Studies
  - b. Secretarial Studies
- 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
- 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

A STATE OF THE STA	
OADM 136—Business Calculations	
OADM—Typewriting	
OADM 221—Business Communications	
OADM 290—Office Accounting 3	
OADM 337—Machine Transcription/Reprographics	
OADM 340—Simulated Office Education	
OR	
OADM 363—Office Management	
MNGT 160—Introduction to Business	
DATA 201—Introduction to Computers	
BNG 201—Introduction to Computers	
ENG 101—Composition I	
Approved electives	
32	
Suggested Course Sequence	
First Semester	
OADM 136—Business Calculations	
OADM—Typewriting	
DATA 201—Introduction to Computers	
ENG 101—Composition I	
OADM 221—Business Communications	
Approved elective	
16	
Second Semester	
OADM 290—Office Accounting	
OADM—Typewriting	
OADM-1ypewriting	
OADM 337—Machine Transcription/Reprographics	

OADM 340-Simulated Office Educati	on														
OR															
OADM 363-Office Management		120	1	ere:	210	 700	23		21		i.			 3	į
MNGT 160-Introduction to Business	KGC I	200										Sass		 9	,
Approved elective															
														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.

and transcription and related secretarial skills.
Course Requirements
OADM 136—Business Calculations
OADM—Typewriting
OADM—Shorthand 6
DATA 201—Introduction to Computers
OADM 221—Business Communications
OADM 290—Office Accounting
OADM 337—Machine Transcription/Reprographics
OADM 340—Simulated Office Education
OR .
OADM 363—Office Management
ENG 101—Composition I
33
Suggested Course Sequence
First Semester OADM 136—Business Calculations
OADM 136—Business Calculations
OADM—Typewriting
OADM—Shorthand
ENG 101—Composition I
DATA 201—Introduction to Computers
15
Second Semester
OADM—Typewriting
OADM—Shorthand 3
OADM 221—Business Communications
OADM 290—Office Accounting
OADM 337—Machine Transcription/Reprographics
OADM 340—Simulated Office Education

#### AAB—Data Processing

OADM 363-Office Management . . .

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.

	Sem. I	
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		
DATA 210—Computer Programming ASSEMBLER I		3
DATA 215—Computer Programming COBOL I		3
DATA 260—FORTRAN Programming I	Digital In the	3
DATA 315—Computer Programming COBOL II		. 3
DATA 320—Computerized Business Systems	NA ALCOHOLOGIC	. 9
DATA 405—Systems Analysis and Design		. 9
FIN 252—Mathematics of Finance		3
OADM 221—Business Communications		
ECON 201—Principles of Economics I		
ENG 101—Composition I		
ENG 102—Composition II		3
MATH 160—Mathematics for Business & Economics		4
SPCH 370—Business and Professional Speech		9
Approved electives		
Approved electives		64
6 16 6		04
Suggested Course Sequence		
First Semester		
MNGT 160—Introduction to Business		3
DATA 201—Introduction to Computers		
스크리 :	20 528 4 5 5 5	1256

DATA 202—Computer Programming BASIC	AAB—Secretarial Studies
ENG 101—Composition I	
MATH 160—Mathematics for Business & Economics	This program is designed to prepare graduates for posi-
Second Semester	tions as stenographers or secretaries in business, industry
Second Semester ACCT 281—Principles of Accounting	government, legal, or medical fields.
DATA 210—Computer Programming ASSEMBLER I	Course Requirements
DATA 260—FORTRAN Programming I	Sem. Hrs
OADM 221—Business Communications	OADM 136—Business Calculations
ENG 102—Composition II	OADM 212—Intermediate Typewriting
SPCH 370—Business and Professional Speech	OADM 213—Advanced Typewriting
Third Semester	OADM—Shorthand OADM 221—Business Communications
ACCT 282—Principles of Accounting II	OADM 221—Business Communications OADM 290—Office Accounting
DATA 215—Computer Programming COBOL I	OADM 340—Simulated Office Education
DATA 320—Computerized Business Systems	OADM 363—Office Management
ECON 201—Principles of Economics I	DATA 201-Introduction to Computers
Approved elective	ENG 101—Composition I
Fourth Semester	ENG 102 102—Composition II
FIN 252—Mathematics of Finance	SPCH 370—Business and Professional Speech *Approved electives 2
DATA 315—Computer Programming COBOL II	Approved electives
DATA 405—Systems Analysis & Design	*Electives may be applied for emphasis in specific areas as follows:
Approved electives	(1) General Secretary Electives
15	OADM 337—Machine Transcription/Reprographics
	OADM 350—Records Management
AAB-Office Management	ECON 201—Principles of Economics I
This program is designed to prepare graduates for posi-	Approved electives
tions as administrative assistants.	(2) Legal Secretary Electives
	OADM 334—Legal Office Procedures
Course Requirements	OADM 398—Supervised Field Experience
Sem. Hrs.	MNGT 461—Business Law I GOVT 141—American Government
OADM 136—Business Calculations	GOVT 380—American Courts and Civil Rights
OADM—Typewriting6	Approved electives
OADM 221—Business Communications	(3) Medical Secretary Electives
OADM 290—Office Accounting	OADM 332—Medical Assisting Administrative Procedures I
OADM 337—Machine Transcription/Reprographics 3 OADM 340—Simulated Office Education 3	OADM 333-Medical Assisting Administrative Procedures II
OADM 350—Records Management	AHS 302—Medical Terminology
OADM 363—Office Management	PSY 154—Introduction to Psychology
MNGT 160—Introduction to Business	Approved electives
DATA 201—Introduction to Computers	
MNGT 301—Principles of Management	Commented Comment Comment
ACCT 281—Principles of Accounting I	Suggested Course Sequence
ENG 101—Composition I	(1) General Secretary Emphasis First Semester
ENG 102—Composition II	OADM 136—Business Calculations
SPCH 370—Business and Professional Speech	OADM 212—Intermediate Typewriting
Approved electives	OADM—Shorthand
64	ENG 101—Composition I
Suggested Course Sequence	Electives
First Semester	2
OADM 136—Business Calculations	Second Semester OADM 290—Office Accounting
OADM—Typewriting	OADM 213—Advanced Typewriting
MNGT 160—Introduction to Business	OADM-Shorthand
ENG 101—Composition I	ENG 102—Composition II
Elective	Electives
16	16.
Second Semester	Third Semester
OADM 290—Office Accounting	OADM—Shorthand
OADM—Typewriting	OADM 337—Business Communications OADM 337—Mach. Trans./Reprographics
ENG 102—Composition II	OADM 350—Records Management
OADM 350—Records Management	Electives
lectives	16
Third Semester	Fourth Semester
ACCT 281—Principles of Accounting I	OADM 340—Simulated Office Education
OADM 337—Machine Transcription/Reprographics	OADM 363—Office Management
OADM 221—Business Communications	SPCH 370—Business and Professional Speech ECON 201—Principles of Economics I
MNGT 301—Principles of Management	DATA 201—Introduction to Computers
Electives	Elective1
Fourth Semester	16
DADM 340—Simulated Office Education	(2) Legal Secretary Emphasis
OADM 363—Office Management	First Samester
ECON 201—Principles of Economics I	OADM 136—Business Calculations
SPCH 370—Business and Professional Speech	OADM 212—Intermediate Typewriting
Electives	OADM—Shorthand
16	ENG 101—Composition I

GOVT 141—American Government
Elective
Second Semester
OADM 290—Office Accounting
OADM 213—Advanced Typewriting
OADM-Shorthand S
ENG 102—Composition II
GOVT 380—American Courts & Civil Rights
Elective
Elective
Third Semester
OADM—Shorthand
OADM 221—Business Communications
OADM 340—Simulated Office Education
OADM 334—Legal Office Procedures
MNGT 461—Business Law I
Elective
Liective
Fourth Semester
OADM 363—Office Management
DATA 201—Introduction to Computers
SPCH 370—Business and Professional Speech
BSED 398—Supervised Field Experience
Electives
16
(3) Medical Secretary Emphasis
First Semester
OADM 136—Business Calculations
OADM 212—Intermediate Typewriting
OADM-Shorthand
ENG 101—Composition I
AHS 302—Medical Terminology
Electives
Second Semester  OADM 290—Office Accounting
Second Semester
OADM 290—Office Accounting
OADM 213—Advanced Typewriting
OADM-Shorthand 3
ENG 102—Composition II
PSY 154—Introduction to Psychology
Elective
16
Third Semester
OADM-Shorthand
OADM 221—Business Communications
OADM 332—Medical Assisting Adm. Procedures I
DATA 201—Introduction to Computers
Electives
16
Fourth Semester
OADM 340—Simulated Office Education
OADM 363—Office Management 3
SPCH 370—Business and Professional Speech
OADM 333-Medical Assisting Adm. Procedures II
Electives
16
Developing of Diviliance Astrophylaticallian Asses
Rachelor of Rusiness 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

											9	Se	m.	F	Irs
	ACCT 281-Principles of Accounting I		 		1	. 4									?
	ACCT 282-Principles of Accounting II		 								 180				?
	DATA 201-Introduction to Computers		 							 *0					5
	MNGT 301-Principles of Management		 							 					5
	MKT 304—Marketing													w I	:
,	FIN 360-Business Finance			23				14	200	200				40	:
	MNGT 461-Business Law I														
	MNGT 472-Business Policies and Problem	8													5
	MNGT 506-Production Management		 						***						5
	OADM 221—Business Communications				6		100								. :
	ECON 350-Microeconomics					200				 23					5
											211				90

#### 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

BBA Core		Sem. Hrs.
DATA 210—Computer Programming OSDELI	BBA Core	
DATA 215—Computer Programming COBOL I   3   DATA 2406—FORTRAN Programming I   3   DATA 315—Computer Programming COBOL II   3   DATA 320—Computerized Business Systems   3   DATA 320—Computerized Business Systems   3   DATA 406—Systems Analysis and Design   54	DATA 202—Computer Programming BASIC	
DATA 260—FORTRAN Programming I   3   DATA 310—Computer Programming COBOL II   3   DATA 320—Computer Programming COBOL II   3   DATA 320—Computer Programming COBOL II   3   DATA 320—Computer Sequence   5   First Semester   5   Frest Semester   5   FRESHMAN YEAR   5   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   SEGOT OF GEOG elective   3   SEGOT OF GEOG elective   3   DATA 202—Composition II   3   HUM—Humanities elective   3   SCI—Biological Science   3   SCI—Biological Science   3   SCI—Biological Science   3   SOT   6   FIRST Semester   1   SOPHOMORE YEAR   1   SECON 201—Principles of Accounting I   3   SCI—Principles of Economics I   3   SCI—Biological Science   3   SCI—Biological Science   1   SOPHOMORE YEAR   1   SOPHOMOR	DATA 210—Computer Programming ASSEMBLER I	3
DATA 315—Computer Programming COBOL II	DATA 215—Computer Programming COBOL I	3
DATA 405—Systems Analysis and Design	DATA 260—FORTRAN Programming I	
DATA 405—Systems Analysis and Design		
Suggested Course Sequence	DATA 320—Computerized Business Systems	3
Suggested Course Sequence   First Semester	DATA 405—Systems Analysis and Design	
First Semester   FRESHMAN YEAR   DATA 201—Introduction to Computers   3   ENG 101—Composition I   3   3   3   3   3   3   3   3   3		54
First Semester   FRESHMAN YEAR   DATA 201—Introduction to Computers   3   ENG 101—Composition I   3   3   3   3   3   3   3   3   3		
First Semester   FRESHMAN YEAR   DATA 201—Introduction to Computers   3   ENG 101—Composition I   3   3   3   3   3   3   3   3   3	Suggested Course Sequence	
FRESHMAN YEAR		
DATA 201	FRESHMAN YEAR	
ENG 101—Composition I	DATA 201—Introduction to Computers	3
MATH 160—Mathematics for Business and Economics       4         SCI—Physical Science       3         GOVT or GEOG elective       3         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       30         SOC elective       1         PHED—activity elective       1         SOPHOMORE YEAR       1         First Semester       1         ACCT 281—Principles of Accounting I       3         DATA 210—Computer Programming ASSEMBLER I       3         BECON 201—Principles of Economics I       3         HLTH 150—Personal Health       2         Electives       3         BECON 202—Principles of Accounting II       3         ACT 282—Principles of Accounting II       3         ADAD 221—Business Communications       3         BECON 202—Principles of Economics II       3         SPCH 370—Business and Professional Speech       3         Electives       3         JUNIOR YEAR       First Semester         DATA 3	ENG 101—Composition I	
SCI	MATH 160-Mathematics for Business and Economics	4
Second Semester	SCI-Physical Science	
Second Semester		
DATA 202—Computer Programming BASIC 3 ENG 102—Composition I 1 3 HUM—Humanities elective 3 SCI—Biological Science 3 PSY 154—Introduction to Psychology 3 OR SOC elective PHED—activity elective 1 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 ECON 202—Principles of Accounting II 3 OADM 221—Business Communications 3 ECON 202—Principles of Economics II 3 SPCH 370—Business and Professional Speech 3 Electives 3  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  Second Semester MKT 304—Marketing 3 DATA 315—Computer Programming COBOL II 3 SECON 350—Business Statistics 3 Electives 4  SECON 350—Microeconomics II 3 SECON 350—Microeconomics 3 SECON 350—Microeconomics 3 SECON 350—Microeconomics 3 SECON 350—Production Management 3 SECON 350—SECON 3		16
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       30         SOC elective       1         PHED—activity elective       16         SOPHOMORE YEAR       16         SOPHOMORE YEAR       18         ACCT 281—Principles of Accounting I       3         BEON 201—Principles of Economics I       3         HLTH 150—Personal Health       2         Electives       3         BElectives       3         Second Semester       17         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         Electives       3         JUNIOR YEAR       First Semester         DATA 315—Computer Programming COBOL I       3         DATA 320—Computerized Business Systems       3         MNGT 301—Principles of Management       3         Electives       4         Second Semester <t< td=""><td>Second Semester</td><td></td></t<>	Second Semester	
ENG 102—Composition II	DATA 202—Computer Programming BASIC	
HUM-Humanities elective   3   SCI-Biological Science   3   SPI 154-Introduction to Psychology   3   3   3   3   3   3   3   3   3	ENG 102—Composition II	
SCI-Biological Science		
PSY 154—Introduction to Psychology       3         OR       SOC elective         PHED—activity elective       1         SOPHOMORE YEAR       16         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         Electives       3         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         Electives       3         JUNIOR YEAR       15         JUNIOR YEAR       First Semester         DATA 215—Computer Programming COBOL I       3         ANGT 301—Principles of Management       3         FIN 360—Business Finance       3         Electives       4         Second Semester         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7	SCI-Biological Science	
OR       SOC elective       1         PHED—activity elective       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         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         Electives       15         JUNIOR YEAR         First Semester         DATA 215—Computer Programming COBOL I       3         AMORT 301—Principles of Management       3         Electives       4         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3		
SOPHOMORE YEAR	OR	
SOPHOMORE YEAR	SOC elective	
SOPHOMORE YEAR	PHED—activity elective	
First Semester   ACCT 281 - Principles of Accounting I   3   3   ECON 201 - Principles of Economics I   3   3   ECON 201 - Principles of Economics I   3   3   ECON 201 - Principles of Economics I   3   3   ECON 201 - Principles of Economics I   3   4   ENG—literature elective   3   5   Electives   3   ECON 202 - Principles of Accounting II   3   3   SPCH 370 - Business Communications   3   3   SPCH 370 - Business and Professional Speech   3   5   Electives   3   Electives   3   Electives   3   Electives   3   Electives   3   Electives   4   Electives   4   Electives   4   Electives   4   Electives   4   Electives   5   Electives		16
ACCT 281—Principles of Accounting I 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  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 Electives 3 JUNIOR YEAR First Semester  DATA 215—Computer Programming COBOL I 3 DATA 320—Computerized Business Systems 3 FIN 360—Business Finance 2 Electives 4  Second Semester  MKT 304—Marketing DATA 315—Computer Programming COBOL II 3 MATH 354—Business Statistics 3 Electives 5 Electives 7  Second Semester  MKT 304—Marketing DATA 315—Computer Programming COBOL II 3 MATH 354—Business Statistics 3 Electives 7  Second Semester  MKT 304—Marketing DATA 315—Computer Programming COBOL II 3 MATH 354—Business Statistics 3 Electives 7  Second Semester  MNGT 461—Business Law I 5 ECON 350—Microeconomics 3 MNGT 506—Production Management 3 Electives 7  Second Semester  DATA 405—Systems Analysis and Design 3 MNGT 472—Business Policies and Problems 3 Electives 10		
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         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         Electives       3         JUNIOR YEAR       First Semester         DATA 215—Computer Programming COBOL I       3         DATA 320—Computerized Business Systems       3         MNGT 301—Principles of Management       3         Electives       4         Second Semester         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       First Semester         MNGT 461—Business Law I       3         ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Secon	First Semester	
ECON 201—Principles of Economics I       3         HLTH 150—Personal Health       2         ENG—literature elective       3         Electives       3         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         Electives       3         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         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       First Semester         MNGT 461—Business Law I       3         EOON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester       7         DATA 405—Systems Analysis and	ACCT 281—Principles of Accounting I	
HLTH 150-Personal Health	DATA 210—Computer Programming ASSEMBLER I	
ENG-literature elective	ECON 201—Principles of Economics I	
Second Semester		
Second Semester		
Second Semester   ACCT 282—Principles of Accounting II   3   3   OADM 221—Business Communications   3   ECON 202—Principles of Economics II   3   3   SPCH 370—Business and Professional Speech   3   SPCH 370—Computer Programming COBOL I   3   3   DATA 320—Computer Programming COBOL I   3   3   DATA 320—Computer Programming COBOL I   3   SPCH 370—Principles of Management   3   SPCH 370—Business Finance   4   SPCH 370—Business Finance   4   SPCH 370—Business Finance   3   SPCH 370—Business Finance   3   SPCH 370—Business Finance   3   SPCH 370—Business Statistics   3   SPCH 370—Business Law I   3   SPCH	Electives	
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         Electives       3         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         Second Semester         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       16         SENIOR YEAR       16         SENIOR YEAR       3         Electives       7         SEOND Stop—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester       16         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10	0 10	17
OADM 221—Business Communications       3         ECON 202—Principles of Economics II       3         SPCH 370—Business and Professional Speech       3         Electives       3         Electives       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         Second Semester         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       First Semester         MNGT 461—Business Law I       3         ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10	A COTT 000 Principles of Assessment II	
ECON 202-Principles of Economics II       3         SPCH 370-Business and Professional Speech       3         Electives       3         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         Second Semester         MKT 304-Marketing       3         DATA 315-Computer Programming COBOL II       3         MATH 354-Business Statistics       3         Electives       7         SENIOR YEAR       First Semester         MNGT 461-Business Law I       3         ECON 350-Microeconomics       3         MNGT 506-Production Management       3         Electives       7         Second Semester         DATA 405-Systems Analysis and Design       3         MNGT 472-Business Policies and Problems       3         Electives       10		
SPCH 370—Business and Professional Speech       3         Electives       3         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         Second Semester         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       First Semester         MNGT 461—Business Law I       3         ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10		
Electives	SPCH 270 Business and Professional Speech	
JUNIOR YEAR  First Semester  DATA 215—Computer Programming COBOL I  DATA 320—Computerized Business Systems  MNGT 301—Principles of Management  3 FIN 360—Business Finance  Electives  Second Semester  MKT 304—Marketing  DATA 315—Computer Programming COBOL II  3 MATH 354—Business Statistics  3 Electives  7  SENIOR YEAR  First Semester  MNGT 461—Business Law I  ECON 350—Microeconomics  MNGT 506—Production Management  Second Semester  DATA 405—Systems Analysis and Design  MNGT 472—Business Policies and Problems  3 Electives  3 Electives  3 Electives  10		
JUNIOR YEAR	Diectives	
First Semester   DATA 215—Computer Programming COBOL I   3   3   DATA 320—Computerized Business Systems   3   3   MNGT 301—Principles of Management   3   5   1N 360—Business Finance   4   4   5   5   5   5   5   5   5   5	JUNIOR VEAR	10
DATA 215—Computer Programming COBOL I       3         DATA 320—Computerized Business Systems       3         MNGT 301—Principles of Management       3         FIN 360—Business Finance       4         Electives       4         Second Semester         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       16         SENIOR YEAR       First Semester         MNGT 461—Business Law I       3         ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10		
DATA 320—Computerized Business Systems       3         MNGT 301—Principles of Management       3         FIN 360—Business Finance       4         Electives       4         Second Semester         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       16         SENIOR YEAR       First Semester         MNGT 461—Business Law I       3         ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       3	DATA 215—Computer Programming COBOL I	3
MNGT 301—Principles of Management       3         FIN 360—Business Finance       3         Electives       4         Second Semester         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       First Semester         MNGT 461—Business Law I       3         ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10	DATA 320—Computerized Business Systems	3
FIN 360—Business Finance       3         Electives       4         Second Semester         MKT 304—Marketing       3         DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       First Semester         MNGT 461—Business Law I       3         ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10		
Second Semester		
Second Semester   Second Semester		
Second Semester   MKT 304—Marketing   3     DATA 315—Computer Programming COBOL II   3     MATH 354—Business Statistics   3     Electives   7     SENIOR YEAR   First Semester   3     ECON 350—Microeconomics   3     MNGT 461—Business Law I   3     ECON 350—Microeconomics   3     MNGT 506—Production Management   3     Electives   7     Second Semester   16     DATA 405—Systems Analysis and Design   3     MNGT 472—Business Policies and Problems   3     Electives   3     Electives   10		
DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       16         SENIOR YEAR       First Semester         MNGT 461—Business Law I       3         ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10	Second Semester	
DATA 315—Computer Programming COBOL II       3         MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       16         SENIOR YEAR       First Semester         MNGT 461—Business Law I       3         ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10	MKT 304—Marketing	
MATH 354—Business Statistics       3         Electives       7         SENIOR YEAR       16         MNGT 461—Business Law I       3         ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10	DATA 315—Computer Programming COBOL II	
Electives	MATH 354—Business Statistics	
SENIOR YEAR           MNGT 461—Business Law I         3           ECON 350—Microeconomics         3           MNGT 506—Production Management         3           Electives         7           Second Semester           DATA 405—Systems Analysis and Design         3           MNGT 472—Business Policies and Problems         3           Electives         10	Electives	
First Semester   3   3   ECON 350—Microeconomics   3   3   3   3   3   5   5   5   5   5		16
MNGT 461—Business Law I         3           ECON 350—Microeconomics         3           MNGT 506—Production Management         3           Electives         7           Second Semester           DATA 405—Systems Analysis and Design         3           MNGT 472—Business Policies and Problems         3           Electives         10	SENIOR YEAR	
ECON 350—Microeconomics       3         MNGT 506—Production Management       3         Electives       7         Second Semester         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10	First Semester	
MNGT 506—Production Management       3         Electives       7         Second Semester         DATA 405—Systems Analysis and Design       3         MNGT 472—Business Policies and Problems       3         Electives       10		
Telectives		
Second Semester   DATA 405—Systems Analysis and Design   3		
Second Semester           DATA 405—Systems Analysis and Design         3           MNGT 472—Business Policies and Problems         3           Electives         10	Electives	
DATA 405—Systems Analysis and Design 3 MNGT 472—Business Policies and Problems 3 Electives 10		16
MNGT 472—Business Policies and Problems		44
Electives		
16	Electives	
		16

Core for Toucher Education Programs	SPCH 370—Business and Professional Speech
Core for Teacher Education Programs	MATH 354—Business Statistics
Sem. Hrs.	15
ACCT 281—Principles of Accounting I	Second Semester
ACCT 282—Principles of Accounting II	OADM 340—Simulated Office Education
DATA 201—Introduction to Computers	FIN 360—Business Finance
MNGT 301—Principles of Management 3 MKT 304—Marketing 3	ACCT—elective
FIN 360—Business Finance	ECON 202—Principles of Economics II
MNGT 461—Business Law I	BSED 375—Teaching Typewriting & Office Practice
OADM 136—Business Calculations	SENIOR YEAR
OADM 221—Business Communications	First Semester
27	MNGT 461-Business Law I
BBA—Basic Business—Option	BSED 475—Teaching Accounting & Basic Business
Students wishing to teach in the non-secretarial programs	HUM-Humanities elective
	PHIL 200—Introduction to Philosophy
in business on the secondary level should select the basic	Elective
business option. This curriculum will satisfy certification re-	14
quirements for teaching accounting and basic business	Second Semester
courses. In addition, an endorsement for teaching advanced	EDSE 477—Professional Semester
data processing may be added to a high school certificate	
upon completion of a total of 9 semester hours credit in data	BBA—Secretarial Studies—Option
	Students wishing to teach in the secretarial programs or
processing.	
Course Requirements	clerical programs on the secondary level should select the
Sem. Hrs.	secretarial studies option. This curriculum will satisfy cer-
BBA-Core	tification requirements for teaching typewriting, shorthand,
OADM 212—Intermediate Typewriting	and related secretarial and clerical courses.
OADM 290—Office Accounting	The state of the s
OADM 337—Machine Transcription/Reprographics	Course Requirements
OADM 340—Simulated Office Education	Sem. Hrs.
OADM 350—Records Management	BBA-Core
OADM 363—Office Management	OADM 212—Intermediate Typewriting
ACCT—elective 3 FIN 264—Personal Finance 3	OADM 213—Advanced Typewriting
BSED 375—Teaching Typewriting and Office Practice	OADM 232—Shorthand II
BSED 475—Teaching Accounting and Basic Bsuiness	OADM 331—Shorthand III
56	OADM 337—Machine Transcription/Reprographics
Suggested Course Sequence	OADM 340—Simulated Office Education
	OADM 350—Records Management 3 OADM 363—Office Management 3
FRESHMAN YEAR	BSED 375—Teaching Typewriting and Office Practice 3
First Semester OADM 136—Business Calculations	BSED 376—Teaching Shorthand and Transcription
OADM 212—Intermediate Typewriting	55
DATA 201—Introduction to Computers	
ENG 101—Composition I	Suggested Course Sequence
SCI-Biological Science	FRESHMAN YEAR
PHED—activity elective	First Semester
16	OADM 136—Business Calculations
Second Semester	OADM 212—Intermediate Typewriting
OADM 290—Office Accounting	ENG 101—Composition I
OADM 221—Business Communications	SCI-Biological Science 3
ENG 102—Composition II	OADM 232—Shorthand II
SCI—Physical Science 3	PHED—Activity elective
GOVT or GEOG elective	Second Semester
	ACCT 281—Principles of Accounting I
SOPHOMORE YEAR	OADM 221—Business Communications
	OADM 213—Advanced Typewriting
ACCT 281—Principles of Accounting I	OADM 331—Shorthand III
MATH 160—Math for Business and Economics	MATH 160—Mathematics for Business and Economics
EDSE 209—Foundations in Secondary Education	16
ENG-Literature elective	SOPHOMORE YEAR
FIN 264—Personal Finance	First Semester
Elective	ACCT 282—Principles of Accounting II
Second Semester	DATA 201—Introduction to Computers 3 OADM 337—Machine Transcription/Reprographics 3
Second Semester	PSY 154—Introduction to Psychology
MNGT 301—Principles of Management 3 ACCT 282—Principles of Accounting II 3	OR
OADM 350—Records Management	SOC elective
ECON 201—Principles of Economics I	EDSE 209—Foundations of Secondary Education
EDSE 310—Principles of Adolescent Development	ENG 102—Composition II
PSY 154—Introduction to Psychology	2 17
OR	Second Semester
SOC elective	MNGT 301—Principles of Management
Tank and the second sec	OADM 350—Records Management
JUNIOR YEAR	MATH 354—Business Statistics
First Semester	ENG-literature elective 3
MKT 304—Marketing	ECON 201—Principles of Economics 3
OADM 337—Machine Transcription/Reprographics	HLTH 150—Personal Health
OADM 363—Office Management	17

JUNIOR YEAR  First Semester  MKT 304—Marketing OADM 340—Simulated Office Education EDSE 310—Principles of Adolescent Development SPCH 370—Business and Professional Speech SCI—Physical Science elective Elective  Second Semester  FIN 360—Business Finance ECON 202—Principles of Economics II OADM 363—Office Management HUM—Humanities elective BSED 375—Teaching Typewriting & Office Practice  SENIOR YEAR  First Semester  MNGT 461—Business Law I BSED 376—Teaching Shorthand & Transcription PHIL 200—Introduction to Philosophy GOVT or GEOG elective Electives  Second Semester  EDSE 477—Professional Semester  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  DATA 201—Introduction to Computers DATA 202—Computer Programming BASIC OR DATA 200—Computer Programming ASSEMBLER I DATA 215—Computer Programming COBOL II DATA 315—Computer Programming COBOL II DATA 315—Computer Programming COBOL II DATA 320—Computer Programming COBOL II DATA 320—Systems Analysis and Design DATA 405—Systems Analysis and Design DATA 405—Sy
MKT 304—Marketing OADM 340—Simulated Office Education EDSE 310—Principles of Adolescent Development SPCH 370—Business and Professional Speech SCI—Physical Science elective Elective  Second Semester FIN 360—Business Finance ECON 202—Principles of Economics II OADM 363—Office Management HUM—Humanities elective BSED 375—Teaching Typewriting & Office Practice  SENIOR YEAR First Semester MNGT 461—Business Law I BSED 376—Teaching Shorthand & Transcription PHIL 200—Introduction to Philosophy GOVT or GEOG elective Electives  Second Semester  EDSE 477—Professional Semester  BS—Data Processing—Minor Students selecting a data processing minor should firs consult with advisors in their major areas. Departmental advisors in data processing are also available for assistance.  Course Requirements  DATA 201—Introduction to Computers DATA 202—Computer Programming BASIC OR DATA 260—FORTRAN Programming I. DATA 210—Computer Programming GOBOL II DATA 315—Computer Programming COBOL II DATA 325—Computer Programming COBOL II DATA 325—Comput
OADM 340—Simulated Office Education EDSE 310—Principles of Adolescent Development SPCH 370—Business and Professional Speech SCI—Physical Science elective Elective  Second Semester FIN 360—Business Finance ECON 202—Principles of Economics II OADM 363—Office Management HUM—Humanities elective BSED 375—Teaching Typewriting & Office Practice SENIOR YEAR First Semester MNGT 461—Business Law I BSED 376—Teaching Shorthand & Transcription PHIL 200—Introduction to Philosophy GOVT or GEOG elective Electives  Second Semester EDSE 477—Professional Semester  ISS—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 DATA 202—Computer Programming I DATA 210—Computer Programming SSEMBLER I DATA 215—Computer Programming COBOL I DATA 315—Computer Programming COBOL II DATA 320—Computer Prog
EDSE 310—Principles of Adolescent Development SPCH 370—Business and Professional Speech SCI—Physical Science elective  Second Semester FIN 360—Business Finance ECON 202—Principles of Economics II OADM 363—Office Management HUM—Humanities elective BSED 375—Teaching Typewriting & Office Practice  SENIOR YEAR First Semester MNGT 461—Business Law I BSED 376—Teaching Shorthand & Transcription PHIL 200—Introduction to Philosophy GOVT or GEOG elective Electives  Second Semester EDSE 477—Professional Semester  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  DATA 201—Introduction to Computers DATA 202—Computer Programming BASIC OR DATA 260—FORTRAN Programming I DATA 315—Computer Programming COBOL I DATA 315—Computer Programming COBOL II DATA 320—Computer Programming COBOL II DA
SPCH 370—Business and Professional Speech SCI—Physical Science elective Elective  Second Semester  FIN 360—Business Finance ECON 202—Principles of Economics II OADM 363—Office Management HUM—Humanities elective BSED 375—Teaching Typewriting & Office Practice  SENIOR YEAR First Semester MNGT 461—Business Law I BSED 376—Teaching Shorthand & Transcription PHIL 200—Introduction to Philosophy GOVT or GEOG elective Electives  Second Semester  EDSE 477—Professional Semester  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 DATA 202—Computer Programming I DATA 210—Computer Programming ASSEMBLER I DATA 215—Computer Programming COBOL II DATA 315—Computer Programming COBOL II DATA 320—Computer Pro
SCI—Physical Science elective  Elective  Second Semester  FIN 360—Business Finance ECON 202—Principles of Economics II. OADM 363—Office Management. HUM—Humanities elective BSED 375—Teaching Typewriting & Office Practice  SENIOR YEAR  First Semester  MNGT 461—Business Law I BSED 376—Teaching Shorthand & Transcription PHIL 200—Introduction to Philosophy GOVT or GEOG elective Electives.  Second Semester  EDSE 477—Professional Semester  EDSE 477—Professional Semester  I 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 DATA 202—Computer Programming BASIC OR DATA 260—FORTRAN Programming I DATA 215—Computer Programming ASSEMBLER I DATA 215—Computer Programming COBOL I DATA 315—Computer Programming COBOL II DATA 320—Computerized Business Systems DATA 405—Systems Analysis and Design DATA elective  2 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
Second Semester  FIN 360—Business Finance ECON 202—Principles of Economics II OADM 363—Office Management HUM—Humanities elective BSED 375—Teaching Typewriting & Office Practice  SENIOR YEAR  First Semester  MNGT 461—Business Law I BSED 376—Teaching Shorthand & Transcription PHIL 200—Introduction to Philosophy GOVT or GEOG elective Electives  Second Semester  EDSE 477—Professional Semester  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 DATA 202—Computer Programming I DATA 215—Computer Programming I DATA 215—Computer Programming COBOL I DATA 315—Computer Programming COBOL II DATA 405—Systems Analysis and Design DATA elective  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
Second Semester  FIN 360—Business Finance  ECON 202—Principles of Economics II OADM 363—Office Management HUM—Humanities elective  BSED 375—Teaching Typewriting & Office Practice  SENIOR YEAR  First Semester  MNGT 461—Business Law I BSED 376—Teaching Shorthand & Transcription PHIL 200—Introduction to Philosophy GOVT or GEOG elective Electives  Second Semester  EDSE 477—Professional Semester  EDSE 477—Professional Semester  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 DATA 202—Computer Programming BASIC OR DATA 260—FORTRAN Programming I. DATA 215—Computer Programming COBOL I DATA 315—Computer Programming COBOL I DATA 315—Computer Programming COBOL II DATA 315—Computer Programming COBOL II DATA 320—Computerized Business Systems DATA 405—Systems Analysis and Design DATA elective  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
Second Semester  FIN 360—Business Finance  ECON 202—Principles of Economics II  OADM 363—Office Management  HUM—Humanities elective  BSED 375—Teaching Typewriting & Office Practice  SENIOR YEAR  First Semester  MNGT 461—Business Law I  BSED 376—Teaching Shorthand & Transcription  PHIL 200—Introduction to Philosophy  GOVT or GEOG elective  Electives  Second Semester  EDSE 477—Professional Semester  ISS—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  DATA 202—Computer Programming I  DATA 215—Computer Programming ASSEMBLER I  DATA 215—Computer Programming COBOL I  DATA 315—Computer Programming COBOL II  DATA 315—Computer Programming COBOL II  DATA 320—Computer Programming COBOL II  DATA 320—Computer Programming COBOL II  DATA 320—Computer Programming COBOL II  DATA 315—Computer Programming COBOL II  DATA 320—Computerized Business Systems  DATA 405—Systems Analysis and Design  DATA elective  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
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OADM—Typewriting
OADM 221—Business Communications
OADM 290—Office Accounting
OADM 363—Office Management
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BS—Secretarial Studies—Minor
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### **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 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 corequisite: 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 202. 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 202. Fundamentals of programming in the PL/1 computer language. Practical business and scientific applications emphasized in the programming assignments.

DATA 260. FORTRAN Programming I. (3-0-3); 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/I Programming. (3-0-3); II. Prerequisite: DATA 216. Advanced computer programming using PL/I. 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: knowledge of one high-level computer language. Hardware and software specifications, operating systems, programming systems, information theory,

development, and use of computerized business applications.

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 515. Data Processing Field Project. (3-0-3); II. Prerequisites: DATA 202 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 215. Data base structures, creation, modification, processing, and physical representation.

#### 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 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 communica-

tion 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); I, 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, II. 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); I, II. Prerequisite: OADM 231 or equivalent. Mastery of principles of Greg Shorthand emphasizing speed and accuracy in reading, writing, vocabulary, punctuation, spelling, and mailability.

OADM 290. Office Accounting. (3-0-3); I, II, III. Accounting systems and financial records for professions, small business, and institutions. Practice

sets simulate accounting cycle.

OADM 331. Shorthand III. (3-0-3); I, II. 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.

tions.

OADM 337. Machine Transcription/Reprographics. (3-0-3); I, II. Prerequisite: OADM 212. Transcribing from voice-writing equipment of general office correspondence with an introduction to machine dictation; mastery of office duplicating and copying processes.

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, II. 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 the control of the

fects of environment as it relates to production in the office. Human relations, systems analysis, and implication of automated data processing.

OADM 431. Shorthand IV. (3-0-3); I. Prerequisite: OADM 331 or equivalent. Dictation and transcription of five-minute speed tests and mailable letters of increased difficulty. Office-style dictation and transcription.

#### **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. (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
  - a. Real Estate
  - b. Small Business Management
- 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

Course Requirements		
	Sem. I	
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		
REAL 205—Real Estate Law		3
REAL 331—Real Estate Finance		
REAL 400—Real Estate Brokerage		
FIN 252—Math of Finance		
FIN 408—Risk Management of Property & Casualty Insurance		
OADM 221—Business Communication		
ECON 201—Principles of Economics I		
ECON 202—Principles of Economics II		
ENG 101—Composition I		
ENG 101—Composition II		
SOC 101—General Sociology		
DATA 201—Introduction to Computers		0
Real Estate elective		
Approved electives		
		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		0
ENG 101—Composition I		
SOC 101—Composition 1 SOC 101—General Sociology		0
SOC 101—General Sociology		15
Second Semester		10
ACCT 282—Principles of Accounting II REAL 205—Real Estate Law	st to be	0
REAL 331—Real Estate Law REAL 331—Real Estate Finance		
		7
FIN 252—Mathematics of Finance		
ECON 202—Principles of Economics II		
m:10		15
Third Semester		
REAL 120—Real Estate Marketing		3
REAL 125—Appraisal of Residential Property		3
Real Estate elective		
Electives		
		17
Fourth Semester		
REAL 400—Real Estate Brokerage		3
FIN 408—Risk Management and Property and Casualty Insurance		
OADM 221—Business Communications		
Electives		
		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

						1	Se	m	1.	H	rs	3.
ACCT 281—Principles of Accounting I				125	0/0	14						3
ACCT 282—Principles of Accounting II			 	36								3
DATA 200-Introduction to Data Processing		0.00	 						100			3
FIN 252-Mathematics of Finance	e(10.7)	uzez	 ***	26.2		 0.00						3
MKT 304—Marketing			 									3
MKT 305-Purchasing												3
MNGT 310-Small Business Organization				60		 0.00	-0.					3
MNGT 311-Principles of Personnel Management			 				(*)					3
MNGT 461-Business Law I			 			 	-					3
OADM 136—Business Calculations			 									3
OADM 221—Business Communications												

ACCT 390-Cost Accounting

Approved electives .....

ACCT 300—Managerial Accounting 3
MNGT 311—Principles of Personnel Management 3
ECON 302—Labor Economics 3
Annual electrons 19

OADM 363—Office Management	Suggested Course Sequence
ECON 101—Introduction to American Economy	FRESHMAN YEAR
ENG 101—Composition I	First Semester ENG 101—Composition I
ENG 102—Composition II	ENG 101—Composition I
OR	MATH 160—Mathematics for Business & Economics
OR SPCH 370—Business & Professional Speech	SCI-Physical Science 3 Sociology or Psychology 3
Approved electives	Elective
64	16
Suggested Course Sequence	Second Semester
First Semester	DATA 201—Introduction to Computers
DATA 200—Introduction to Data Processing 3 ECON 101—Introduction to American Economy 3	ENG 102—Composition II
ENG 101—Composition I	Government or Geography
SPCH 110—Basic Speech	Elective
Elective4	CODUCACO VIDAD
Second Semester	SOPHOMORE YEAR First Semester
ACCT 281—Principles of Accounting I	ACCT 281—Principles of Accounting I
OADM 136—Business Calculations	OADM 221—Business Communications
OADM 221—Business Communications	ECON 201—Principles of Economics I
ENG 102—Composition II	Humanities elective
Elective	Elective
Third Semester	17
ACCT 282—Principles of Accounting	Second Semester
FIN 252—Mathematics of Finance	ACCT 282—Principles of Accounting II
MKT 304—Marketing	MKT 304—Marketing
MNGT 310—Small Business Organization 3 MNGT 461—Business Law I 3	Electives
Elective	PHED and/or Health
17	18
Fourth Semester	JUNIOR YEAR
MKT 305—Purchasing 3 MNGT 311—Personnel Management 3	First Semester ACCT 390—Cost Accounting I
OADM 363—Office Management	OR
Electives	ACCT 300—Managerial Accounting
15	MNGT 301—Principles of Management
Bachelor of Business Administration Core	ECON 302—Labor Economics
	Elective
The Bachelor of Business Administration includes a core	A 1-1 (16 )
of courses which are designed to provide the student in	Second Semester
business and economics with a base from which to pursue	FIN 360—Business Finance
course work in a special area of interest.	MNGT 306—Production Management 3
D 1 11 11 1 1 0	MAT 354—Business Statistics
Business Administration Core	Electives
Sem. Hrs.	CRIVION VIII I
ACCT 281—Principles of Accounting I	SENIOR YEAR First Semester
ACCT 282—Principles of Accounting II 3 DATA 201—Introduction to Computers 3	MNGT 311—Personnel Management
MNGT 301—Principles of Management 3	MNGT 461—Business Law I
MNGT 306—Production Management	Business elective 3
MKT 304—Marketing	SPCH 370—Business and Professional Speech
FIN 360-Business Finance 3 MNGT 461-Business Law I 3	Elective
MNGT 472—Business Policies and Problems 3	Second Semester
OADM 221—Business Communications	MNGT 472—Business Policies and Problems
ECON 350—Microeconomics	Business elective
33	Elective
BBA-Management-Option	. 10
	BBA-Marketing-Option
The management option is designed to prepare students	
for entrance into managerial careers in personnel, produc-	This option is arranged to prepare for entrance into marketing careers. The program is recommended for
tion, or general management. Since management of business	
firms involves both human and technical skills, students are	students who plan to work with sales departments of
provided with maximum breadth in a range of available elec-	establishments, advertising agencies, and agencies engaged
tive courses.	in marketing research. It is also recommended for in-
Course Requirements	dividuals who plan to work as specialty salesmen of con-
Sem. Hrs.	sumer and industrial goods and for those who plan to enter
DDA Come	MALKELINY MANAYEMENT.

Course Requirements

MKT 351—Sales Management

MKT 453—Marketing Policies
MKT 455—Advertising Principles and Procedures

BBA Core . .

**Business and Economics** 

MKT 552—Marketing Research and Analysis	Suggested Course Sequence
Approved electives	FRESHMAN YEAR
34	First Semester
Suggested Course Sequence	ENG 101—Composition I
EDECHMAN VEAD	Sociology or Psychology
First Semester	REAL 105—Real Estate Principles
ENG 101—Composition I	SCI—Physical Science
MATH 160—Mathematics for Business & Economics	Second Semester
HLTH and/or Physical Education	ENG 102—Composition II
SCI-Biological Sciences	REAL 205—Real Estate Law
Second Semester	Government or Geography
Second Semester ENG 102—Composition II	SCI-Biological Science
DATA 100—Introduction to Data Processing	15
Government or Geography	SOPHOMORE YEAR
FIN 252—Mathematics of Finance	Final Competer
SCI—Physical Science	Literature elective
15	ACCT 281—Principles of Accounting I
SOPHOMORE YEAR	OADM 221—Business Communications
First Semester	HLTH and/or Physical Education
Literature elective	REAL 120—Real Estate Marketing
ECON 201—Principles of Economics I	18
OADM 221—Business Communications	Second Semester ACCT 282—Principles of Accounting II
Humanities elective	ECON 202—Principles of Economics II
Elective	PHED-activity 1
Second Semester	Electives
ACCT 282—Principles of Accounting II	-16
ECON 202—Principles of Economics II	JUNIOR YEAR
MKT 351—Sales Management	First Semester MNGT 301—Principles of Management
Electives	Humanities elective
HINIOP VEAR	REAL 225—Real Estate Finance
JUNIOR YEAR First Semester	Electives
ECON 350—Microeconomics	S1 S16
MNGT 301—Principles of Management	Second Semester MATH 354—Business Statistics
FIN 360—Business Finance	FIN 360—Business Finance
MKT 304—Marketing	Real Estate elective
Electives	Electives
Second Semester	CENIOR VEAR
MATH 354—Business Statistics	SENIOR YEAR First Semester
SPCH 370—Business and Professional Speech	SPCH 370—Business and Professional Speech
Electives	MNGT 461—Business Law I
17	Electives
SENIOR YEAR	REAL 125—Appraisal of Residential Property
First Semester	Second Semester
MNGT 461—Business Law I	MNGT 472—Business Policies and Problems
MKT 552—Marketing Research and Analysis	Real Estate elective
Elective	Electives
Business elective	16
15 March 2011 28 Control 2011	BS—Business Administration—Minor
15   Second Semester     3   MKT 453—Marketing Policies     3	Students selecting programs with business administration
MNGT 472—Business Policies and Problems 3	minor should first consult with advisors in their major areas.
Business electives	Department advisors are available for assistance.
Electives	
16	Course Requirements
	Sem. Hrs.
BBA—Real Estate—Option	ACCT 281—Principles of Accounting I
	ACCT 282—Principles of Accounting II 3 DATA 201—Introduction to Computers 3
This option is designed to prepare students for careers as	MNGT 306—Production Management
real estate salespersons and brokers. The program will also	MNGT 301—Principles of Management
give students an educational background for positions in in-	FIN 360—Business Finance
dustry as specialists in real estate and land development.	MNGT 461—Business Law I
Course Requirements	MNGT 304—Marketing
BBA Core	In addition, students completing this minor are required to include ECON
REAL 105—Principles of Real Estate	201 and 202 as part of their general education courses.
REAL 120—Real Estate Marketing	The second secon
REAL 125—Appraisal of Residential Property	BS—Marketing—Minor
REAL 205—Real Estate Law	Students selecting programs with marketing minor should
Approved Real Estate electives	first consult with advisors in their major areas. Department
54	advisors are available for assistance.

**Business and Economics** 

#### Course Requirements

		Sem. nrs.
ACCT 281—Principles of Accounting I	 	3
DATA 200-Introduction to Data Processing	 	3
MKT 304-Marketing	 	3
MKT 453-Marketing Policies		
MKT 552-Marketing Research and Analysis	 	3
Nine hours of electives to be chosen from the fo		
MKT 305—Purchasing	 	3
MKT 350—Salesmanship		
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

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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.

#### MANAGEMENT

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 301. Principles of Management. (3-0-3); I, II, III. Prerequisites:

MNGT 301. Principles of Management. (3-0-3); 1, 11, 111. 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 461. Business Law I. (3-0-3); I, II, III. Designed to acquaint the stu-

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 476. Special Problems. (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 stnading 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). Prerequisite: graduate standing or consent of instructor. This course includes the fundamen-

tal 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). 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.)

in the School of Business and Economics or as an MBA elective.)

MNGT 506. Operations Analysis. (3-0-3). 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); II. 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 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: BSAD 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 570. Research Problems in Business Administration. (0-0-1 to 3); I, II, III. Prerequisites: senior or graduate standing with minor or equivalent in business administration. The student must present a written statement of the proposed project, approved by the department, at registration.

#### MARKETING

C--- II--

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.

of supply, legal aspects of purchasing, evaluating purchase performance.

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

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 450. Consumer Behavior. (3-0-3); II. Prerequisite: PSY 154 and SOC

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); I, II. Prerequisite: MKT 304.

MKT 451. Retail Merchandising. (3-0-3); I, II. 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 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.

#### 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 in-

clude license law, ethics, listing and purchase agreements, brokerage, deeds,

financing, appraisal, mortgages, and property management. REAL 107. Applied Real Estate Math. (3-0-1); II. Prerequisite: REAL 105 or permission of instructor. An examination and use of the various mathematical aspects of the real estate industry. Designed to aid the practitioner or student

considering challenging the state exam.

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

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, con-

veyances, 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 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, administrative 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 permis-

sion 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 345. Appraisal of Income Property. (3-0-3); II. Prerequisite: REAL 125. Introduction to the current theory and practice of income property ap-

praisal and appraisal techniques.

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.

### School of Education

### Departments

Curriculum and Instruction Health, Physical Education, and Recreation Leadership/Foundations Psychology University Breckinridge School

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, special education, library science, higher education, and adult and continuing education. Also, University Breckinridge School, Teacher In-Service, and several other service activities are located in the School.

#### 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 pro-

The following criteria must be met by all students for admission to teacher education:

- Thirty hours with a cumulative grade-point standing of 2.0 or higher on work completed at Morehead State
- Successful completion of California Achievement Test.
- 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.
- Complete pre-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

Professional Laboratory Experiences

Communication Arts Program

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 101, 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.

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.)

Successfully completed pre-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).

Have completed a minimum of 90 semester hours.

8. Present an unofficial copy of check sheet depicting an approved major for teacher certification

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.

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.

Must have the approval of the University Teacher Education Council.

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 University Reading Laboratory, 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.

#### 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 classsroom 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 at the University Breckinridge School, 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	
EDEL 210-Human Growth and Development I	
EDEL 321—Teaching of Arithmetic	
EDEL 322-Teaching Social Studies in Elementary School	ol

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         3           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         3           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
LIBRARY SCIENCE AND INSTRUCTIONAL MEDIA LSIM 227—Literature & Materials for Children
PSYCHOLOGY PSY 154—Life-oriented General Psychology
ART 121—School Art I
MUSIC MUS 100—Rudiments of Music
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

### **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. 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

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 comphrehension. (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

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 337, or the equivalent. 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 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,

II. 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 Camden Library. The course is especially designed for college freshmen.

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

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 librarie

LSIM 530. Creative Library Programs. (3-0-3); I, III. Designed for all teachers, public and school librarians, the course is a study of the oral tradition, literary types, and techniques for effective utilization of literature with children in the classroom or in the library. Emphasis is on principles of storytelling, selection of stories, program planning, and development of visuals to enrich the background and stimulate the interest of children in our cultural heritage. Also covered: special library services, community and school service projects, and library-class cooperative efforts.

LSIM 542. Selection and Evaluation of Media. (3-0-3); I, III. Selection and evaluation of both hardware (equipment) and software (materials) media. Consideration of the hardware will include study of details of writing specifications for purchase of equipment. Selection and evaluation of materials will take into consideration both curricular suitability and technical quality.

LSIM 547. Utilization of Educational Television. (3-0-3); I, II, III. Prere quisite: 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 intructional 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 555. Advanced Production. (3-0-3); II, III. Prerequisite: LSIM 583 or permission of instructor. Provides the student with the opportunity to refine and expand his or her skills in media production techniques. The student, in addition to study and experimentation, will produce, in cooperation with an actual school system, a major production for continuing use in the school

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LSIM 560. Resource Center Design. (3-0-3); II, III. Prerequisite: LSIM 301 or permission of instructor. The course will be conducted by the seminar method in which students will research and discuss the library environment, both interior and exterior, as it relates to the educational program

LSIM 575. School Library Practice. (3 to 4 hrs.); I, II, III. Prerequisite: all other library science courses required for certification except those taken at the same time as practice work. Practical application of procedures in modern school library. Reading guidance, story telling, book talks, and organization of teaching materials are stressed. (Application made through the Coordinator of Professional Laboratory Experiences.)

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 and is taken concurrently with that course in all but unusual cases. The two courses comprise 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 580. Learning Systems Design. (3-0-3); I, III. An introduction to the design of mediated instruction. The student shall become familiar with the systems approach to designing instruction and how this approach may be incorporated in making teaching more effective, efficient, and consistent. The student will actually design a course of instruction using the instructional development process.

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

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EDSE 209-Foundations of Secondary Education								
EDSE 310—Principles of Adolescent Development		*:=:						
EDSE 477-Professional Semester-Secondary								
EDSE 410-Human Growth and Development II					2.1			. :
EDSE 472-Fundamentals of Secondary Education								. 4
LSIM 412—Media Strategies	60	67.6				0.40	e e	
EDSE 475—Supervised Teaching Practicum							5.5	. 8
Total professional semester								17
							1	90

### **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. Prerquisite: 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. 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			9.1		214	. 0				1459	-	163	36
EDSP 230—Education of Exceptional Children						Sen	***		v.	. v S 9		* 3	. 3
EDSP 231—Field Experience		× 10			100	561	500	0.60			2.5	000	. 3
EDSP 320—Introduction to Corrective Speech.													
EDSP 435—Student Teaching													
EDSP 537—Educational Assessments of Except	tio	na	10	hi	ld	re	n			 	, i	-	.3

EDSP 550—Nature and Needs of Exceptional Children EDSP 551—Curriculum for Pre-School Exceptional Children EDSP 553—Curriculum for Secondary Exceptional Children EDSP 555—Teaching Children with Learning & Behavior Disorde	ers				.3
EDUCATIONAL EDEL 208—Foundation of Elementary Education EDEL 210—Human Growth & Development I EDEL 321—Teaching of Arithmetic EDEL 322—Teaching Social Studies in the Elem. School EDEL 323—Language Arts for the Elementary School EDEL 336—Reading in the Primary Grades EDEL 337—Reading in the Intermediate Grades EDEL 410—Human Growth & Development II EDEL 412—Media Strategies					3 3 3 3 2
HUMANITIES ENG-Composition ENG-Literature SPCH 320-Introduction to Corrective Speech ART 121-School Art ART 221-School Art II MUST 100-Rudiments of Music MUSE 221-Music for the Elementary Teacher					6 3 3 3 2
SCIENCE SCI—Physical Science elective SCI—Biological Science elective MATH 231—Math for the Elementary Teacher I MATH 232—Math for the Elementary Teacher II SCI 590—Science for the Elementary Teacher	• • •		• •	• •	3 3 3
SOCIAL SCIENCE A total of 12 hours from at least two of the following fields: 1. E Geography, 3. Government and Public Affairs, 4. History, 5. So	cor	non	mic	cs,	12
LIBRARY SCIENCE INSTRUCTIONAL MEDIA LSIM 227—Literature & Materials for Children				٠.	. 3
PSYCHOLOGY PSY 154—Life-Oriented General Psychology					3
HEALTH AND PHYSICAL EDUCATION HLTH 300—Health in the Elementary School PHED 300—Physical Education in the Elementary School PHED—Activity courses ELECTIVES					6 2 2 2 6
				1.	0

### Area of Concentration in Trainable Mentally Handicapped (includes both area and general education requirements)

Requirements           SPECIAL EDUCATION         3           EDSP 230—Education of Exceptional Children         EDSP 231—Field Experience           EDSP 436—Student Teaching         1           EDSP 547—The Trainable Mentally Handicapped         1           EDSP 550—Nature and Needs of Exceptional Children         1           EDSP 551—Curriculum for Pre-School Exceptional Children         1           EDSP 553—Curriculum for Secondary Exceptional Children         1           EDSP 556—Teaching the Mentally Handicapped         1           EDSP 557—Curriculum for Elementary Exceptional Children         1
EDUCATIONAL  EDEL 208—Foundations of Elementary Education  EDEL 210—Human Growth and Development I  EDEL 321—Teaching of Arithmetic  EDEL 322—Teaching Social Studies in the Elementary School  EDEL 323—Language Arts for the Elementary School  EDEL 336—Reading in the Primary Grades  EDEL 337—Reading in the Elementary Grades  EDEL 410—Human Growth and Development II  EDEL 412—Media Strategies
HUMANITIES 2 ENG—Composition ENG—Literature SPCH 320—Introduction to Corrective Speech ART 121—School Art I ART 221—School Art II MUST 100—Rudiments of Music MUSE 221—Music for the Elementary Teacher

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 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)

requirements for a major (non teaching)
Sem. Hrs.
EDSP 230—Education of Exceptional Children 3
EDSP 550-Nature & Needs of Exceptional Children
EDSP 537—Educational Assessment of Exceptional Children
EDSP 555—Teaching Children with Learning and Behavior Disorders 3
OR
EDSP 556—Teaching the Trainable Mentally Handicapped
EDEL 336—Foundations of Reading
EDEL 337—Reading Strategies for the Elementary Teacher
EDSP 320—Introduction to Corrective Speech
OR STATE OF THE ST
SPCH 320—Introduction to Corrective Speech
PSY 559—Behavior Modification
Electives (approved by advisor)
Laboratory Experience EDSP 435—Supervised Teaching
Practicum or EDSP 436—Supervised Teaching Practicum
34
Requirements for a Minor (non-teaching)
Sem. Hrs.
EDSP 230—Education of Exceptional Children
EDSP 550—Nature and Needs of Exceptional Children
EDSP 555—Teaching Children with Learning
and Behavior Disorders
OR
EDSP 556—Teaching the Trainable Mentally Handicapped
EDSP 556—Teaching the Trainable Mentally Handicapped EDSP 537—Educational Assessment of Exceptional Children
EDEL 336—Foundations of Reading
OR
EDEL 337—Reading Strategies for the Elementary Teacher
PSY 559—Behavior Modification
Electives(approved by advisor) 3
Laboratory Experience EDSP 435—Supervised Teaching
Practicum or EDSP 436—Supervised Teaching Practicum

### 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 and Exceptional Children. (3-0-3); I, II. Prerequisite: PSY 154. Procedures for the identification, education, and treatment of exceptional 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 Morehead; 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. Prerequisite: consent of instructor. 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

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 adaption of materials by teachers who are working with related children.

EDSP 556. Teaching the Trainable Mentally Handicapped. (2-2-3); II. Prere quisite: EDSP 547. 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 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	
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
T 16 1 11 11	
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	
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;

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); 1, 11. 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 or 155. 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

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

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

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
PHED 120—Basic Rhythms
PHED 131—Intermediate Swimming
PHED 132—Life Saving
PHED 150—Introduction to Physical Education 2
PHED 422—Coaching Inter-Scholastic Athletics
PHED 301-Evaluation in Health, Physical Education, and Recreation 3
PHED 302—Athletic Injuries 2
PHED 303—Physical Education in the Secondary School
PHED 401-Organization and Administration of Physical Education 3
PHED 402—Kinesiology 3
PHED 432—Physiology of Exercise
PHED 475—Adapted Physical Education
PHED 222or PHED 223—Individual Sports
PHED 309, 319, 409, or 419—Team Sports
5 activities approved by chairman
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           EDSE 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
PHED 302—Athletic Injuries
PHED 402-Kinesiology
PHED 420—Administration of School Athletic Programs
PHED 207—Training Room Modelities 2
PHED 208—Medical Aspects of Athletic Training
PHED 209—Training Room Practice
PHED 210—Diagnostic Techniques of Athletic Injuries
PHED 432—Physiology of Exercise
HLTH 320—Elements of Nutrition
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 techni-

ques 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 participaton.

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 soc-

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 constructive 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 expres-

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 tac-

tics 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

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 of-

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 in-

volved 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, ar-

chery, 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); 1, 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 efficient-

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 Exercies. (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				-			×	6.04								3
REC 209—Recreational Sports		 								,					 	2
REC 285—Community Recreation									-					 ÷		2
REC 286—Recreational Leadership					4.5											2
REC 288—Recreational Arts and Crafts	(00)	 										į.				2
REC 290—Field Experience I						118			,		 				 	1

C 305—Social Recreation
CC 310—Youth Organization
CC 375—Creative Dramatics
CC 388—Community Centers and Playgrounds
CC 390—Field Experience II
CC 471—Seminar
C 475—Therapeutic Recreation
C 477—Recreation Internship
C 580—Outdoor Interpretation
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 in-

stitutions 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/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, Adult Basic Education Program, and Center for School Study 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

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 sub-

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

#### ELEMENTARY EDUCATION FOUNDATIONS

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 continua-

tion 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.

#### 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 sub-

ject 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 sub-

ject areas.

EDGC 499. Workshop. (1 to 3 hrs.); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional sub-

ject 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 interpreta-

tion 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.

#### SECONDARY EDUCATION FOUNDATIONS

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 educational uses of computer are presented in a broad context. Instructional mode will be classroom presentation and "hands-on" experience with timesharing 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	
PSY 381—Experimental Psychology I	
PSY 585-Systems and Theories	
MATH 353—Statistics	
OR	
EDSP 581—Educational Statistics	
Selected from the following categories:	
Biopsychology	
PSY 521-Physiological Psychology	
OR	
PSY 583—Sensory Psychology	
PSY 156—Life-span Developmental Psych	oloms
	ology
OR	
PSY 557—Seminar in Developmental Rese	
Experimental	
PSY 554-Seminar in Social Psychology	
OR	
PSY 582-Experimental Psychology II	
OR	
PSY 548—Perception	
Learning and Motivation	
PSY 559—Behavior Modification	
OR	
PSY 586—Motivation	
OR	
PSY 589—Psychology of Learning	
Social and Personality	3
PSY 354-Introduction to Social Psycholo	
OR	ы
PSY 390—Psychology of Personality	
OR	
PSY 555—Environmental Psychology	
OR	
PSY 556—Introduction to Clinical Psychol	logy
OR	
PSY 590—Abnormal Psychology	
Elective (selected from courses not used as re	equired
courses, or from the following courses)	
PSY 157—Psychology of Adjustment	
PSY 199—Workshop	
PSY 276—Independent Study	
PSY 353—Industrial Psychology	
PSY 422—Comparative Psychology	
PSY 470-Research Problems	
PSY 558—Psychological Testing	9
PSY 575—Selected Topics	1-3
PSY 599—Workshop	
101 000 Horkshop	36
	36
Additionally, for teacher certification:	
EDSE 209-Foundations of Secondary Educa	tion
EDSE 310-Principles of Adolescent Develop	ment
EDSE 477—Professional Semester	

If teacher certification is desired, EDSE 209—Foundations of Secondary Education, 3 hours, and EDSE 310—Principles of Adolescent Development, 3 hours, should be taken during the sophomore year instead of minor requirements or electives. EDSE 477—Professional Semester, 17 hours, would be taken during the second semester of the senior year instead of minor requirements or electives.

#### Requirements for a Minor

PSY 154—Introduction to Psychology MATH 353—Statistics	 	 	***			3
OR EDSP 581—Educational Statistics	 	 	- 1 -		*10100	3
Psychology electives		 1000	gi Giran	200	200	. 18

### 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;

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

PSY 156. Life-span Developmental Psychology. (3-0-3); I, II. Prerequisite: PSY 154. 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, II. 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

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); I, 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 Personally. (3-0-3); I, II, III. 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

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 ar-

rangement.

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, III. 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); II, III. Prerequisite: PSY 154. The fundamental principles of learning, including acquisition, retention, forget-ting, 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 599. Workshop. (1 to3 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 and painting, oil painting, photography, printmaking, sculpture, and water color.

#### Requirements for an Area of Concentration\*

requirements for an irea 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 213—Oil Painting I	
ART 216—Water Color I	
ART 210—Water Color I	9
ART 245—Ceramics I	
ART 251—Printmaking I	
ART 283—Photographic Design I	
ART 291—Color and Design	
ART 294—Sculpture I	
ART 300—Elementary Materials and Methods	
ART 304—Figure Drawing II	3
ART 313—Oil Painting II	3
ART 316-Water Color II	3
ART 321-Materials and Methods for Secondary Art	3
ART 365-Arts of the United States I	
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	
ART 394—Sculpture II	3
	54
For a Major*	
ART 101—Drawing I	
ART 101—Drawing 1	
ART 103—Drawing II	
ART 202—Composition and Drawing	
ART 204—Figure Drawing I	
ART 213—Oil Painting I	
ART 216—Water Color I	
ART 300—Elementary Materials and Methods	3
ART 241—Crafts I	
OR	
ART 245—Ceramics I	3
ART 251—Printmaking I	
ART 365—Arts of the United States I	
OR	
ART 564—Modern and Contemporary Art	
OR	
957	
ART 565—Arts of the United States II	3

ART 291—Color and Design ART 321—Materials and Methods for Secondary Art	. 3
For a Minor*	36
ART 101—Drawing I	
ART 204—Figure Drawing I	
ART 213—Oil Painting I	. 3
ART 216—Water Color I	
ART 300—Elementary Materials and Methods	. 3
ART 241—Crafts I OR	
ART 245—Ceramics I	9
ART 291—Color and Design	. 3
ART 321—Materials and Methods for Secondary Art	.3
*Students wishing to have this certificate validated for service in the elementary grades must include EDEL 333—Fundamentals of Elementar Education, in their programs.  Special note: ART 263 and 264 must be taken by all art areas, majors, arminors to satisfy six hours of the general education requirements humanities.	he ry nd
C	
Suggested Program  The following program for freshman and sophomore years has been devise to help students in selecting their courses and making their schedules. Closedherence will aid the student in meeting requirements for graduation.	
Provisional High School Certificate	
with an Area of Concentration in Art	
FRESHMAN YEAR	
First Semester	
ENG 101—Composition I	S.
PHED—Activity Course	
SCI 103—Intro. to Physical Sci.	
ART 101—Drawing I	
ART 264-Medieval and Renaissance Art	3
HLTH 150—Personal Health	
Elective	2
Second Semester	17
ENG 102—Composition II	2
SCI 105—Intro. to Biological Sci.	
ART 103—Drawing II	
ART 263—Ancient Art	
ART 291—Color and Design	3
EDEL 208—Foundations of Elementary Education (elementary	
art education majors) OR	
ENSE 209—Foundations of Secondary Education (secondary	
art education majors)	2
	7
SOPHOMORE YEAR	
First Semester ENG-Literature elective	2
ART 202—Comp. and Draw.	-
ART 204—Figure Drawing	
Sci. or math elective	
Elective	3
	5
Second Semester EDSE 310—Principles of Adolescent Development	9
PHED—Activity course	1
ART 213—Oil Painting I	
ART 216—Water Color I	
ART 251—Printmaking I	
ART 294—Sculpture I	125
Suggested Schedule of Classes for Students	6
with a Commercial Art Option	
FRESHMAN YEAR First Semester	
Sem. Hrs	8.
ENG 101—Composition I	3
SCI 103—Intro. to Physical Sci.	3
ART 101—Drawing I	
ART 263—Ancient Art	
ART 291—Color and Design PHED—Activity course	
PHED—Activity course	

Second Semester			
ENC 109 Technical Commercial			
ENG 192—Technical Composition SCI 105—Intro. to Biological Sci.	7.3		3
ART 103—There, to Biological Sci.	4.9		3
ADT 004 Medievel and Densirons Aut	de la	965	0
ART 264—Medieval and Renaissance Art ART 292—Three Dimensional Design	9.0		3
DUED Astisity assessed		* :	3
PHED—Activity course			
			16
SOPHOMORE YEAR			
First Semester			
ART 104-Lettering, Layout and Design			3
ART 202—Comp. & Drawing			
ART 251—Printmaking I			
ART 283—Photographic Design I			
Math or science elective			
			15
Second Semester			
Second Semester ART 204—Figure Drawing I	v		. 3
ART 216—Water Color I			3
ART 284—Commercial Photography			.3
HLTH 150—Personal Health		J.	. 2
MATH-Elective			.3
Social science elective			.3
			17
JUNIOR YEAR			-
First Semester			
ART 203—Fashion Illustration			3
ART 290—Graphic Design I			
ART 303—Commercial Illustration			
ART 316—Water Color II			
SOC 101—General Sociology			9
SOC 101—General Sociology			
Second Semester			10
ART 304—Figure Drawing II			9
ART 351—Printmaking II			
ART 353—Commercial Layout & Design			.0
ART 355—Commercial Layout & Design	V: 4	* *	. 0
ART 365—Arts of the U.S.		100	. 3
JOUR 483—Advertising Copy Writing ENG 202—Intro. to Literature			
ENG 202—Intro. to Literature	*::		
SENIOR YEAR			17
DESTRUCTION A DESTRUCTION OF THE PROPERTY OF T			
First Semester			
ART 383—Photographic Design II	٠.		. 3
ART 551—Printmaking III			
ART 564—Modern and Contemporary			
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			
HUM—Elective (upper division)			
			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 subjec-

tive 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, III. 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, III. 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, III. 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 213. Oil Painting 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 216. Water Color I. (2-2-3); I, II, III. Prerequisite: ART 101, 103, 291, or permission of department. Methods and materials; arrangement of palette;

composing and painting, still life, figure, and abstracts.

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,

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, III. 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, III. 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 threedimensional designs with emphasis on perception and the fundamentals of visual organization.

ART 292. Three-Dimensional Design. (2-2-3); I, II, III. A study of three-

dimensional design with emphasis on product and package design.

ART 294. Sculpture I. (2-2-3); I, II, III. Creative experiences in the techniques, media, and tools of sculpture, work in stone, wood, metal, clay, and

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). 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 313. Oil Painting II. (2-2-3); I, II, III. Prerequisite: ART 101, 103, and 291. Painting from still life and landscape with emphasis on creative interpretation and expression.

ART 316. Water Color II.(2-2-3); I, II, III. Prerequisite: ART 216. Water color is used as a medium for visual interpretations of various subjects. Studio

and field work are included.

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 ex-

periments 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, III. 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

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, III. 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, III. Prerequisite: ART 283. Advanced work in the use of photographic design concepts and techniques.

ART 390. Graphic Design II. (2-2-3); I, II, III. 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, III. Prerequisite: ART 294. Studio prob-

lems involving the manipulation of various sculpture media.

ART 513. Oil Painting III. (2-2-3); I,II, III. Prerequisite: ART 213, 313. Experiences leading toward individual achievements in styles and techniques.

ART 516. Water Color III. (2-2-3); I, II, III. Prerequisite: ART 216, 316. Experiences leading toward individual interpretation.

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); 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, III. Prerequisites: ART 383 and permission of the department. Individual problems in photographic

ART 594. Sculpture III. (2-2-4); I, II, 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, 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)

		S	en	n.	H	rs.
JOUR 110-Intro. to Mass Communications	0000					.3
JOUR 201—News Writing & Reporting						
SPCH 100-Voice & Articulation						.3
SPCH 370—Business & Professional Speech	195		Tall is		is.	.3
R-TV 155—Broadcast Performance	(40)		140			.3
R-TV 240—Writing for Broadcast	OHO:		040			. 3
*THEA 100—Fundamentals of the Theatre			C.P.CT			. 3
THEA 200-Introduction to Dramatic Literature	40					3
						94

\*THEA 110 may be substituted for non-theatre emphasis students.

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Sem Hrs

# Specific Requirements—Emphasis in Journalism (teaching or non-teaching)

JOUR 204—Copyreading & Editing 3
JOUR 285—Intro. to Photojournalism
JOUR 301—Advanced News Writing and Reporting
OR
JOUR 310—History of Journalism
JOUR 364—Feature Writing
OR .
JOUR 383—Principles of Advertising
JOUR-Electives 8 COMM-Electives 4
COMM-Electives
C 'C' D ' F I '
Specific Requirements—Emphasis in
Radio-Television (non-teaching)
R-TV 250—Audio Production Direction
R-TV 340—Video Production & Direction I 3
R-TV 344—Broadcast News & Public Affairs
OR
R-TV 450—Broadcast Management
R-TV electives
COMM-Electives
24
Specific Requirements—Emphasis in Speech
(teaching or non-teaching)
SPCH 110—Basic Speech
SPCH 200—Oral Interpretation 3
SPCH 382—Argumentation and Debate
SPCH 383—Group Discussion
SPCH 385—Persuasion
*SPCH 595—Administering the Communications Program
SPCH electives
COMM electives
27
*Required of teaching areas only
Specific Requirements—Emphasis in Theatre
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(teaching or non-teaching)
SPCH 382—Argumentation and Debate
OR
**SPCH 595—Administering the Communications Program
THEA 210—Technical Production
THEA 284—Acting Techniques
THEA 320—Scenographic and Drawing Tech.
THEA 322—Scene Design
THEA 380—Play Directing 3 COMM electives 4
COMINI Electives

\*\*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**

Sem. Hrs.

#### 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 310—History of Journalism		3
JOUR 504*—School Publications		
COMM 347 or 447-Internship**		
OR		
COMM 139, 239, 339, 439, or 539—Cooperative Study**		1
JOUR electives		
*FOA		

\*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	
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

									2	CIL	4.	 100
JOUR 110-Intro. to Mass Communications						34.						 . 3
JOUR 201—News Writing and Reporting												 . 3
JOUR 204—Copyreading and Editing	0 6											 . 3
JOUR 285-Intro. to Photojournalism					 15.0							 . 3
JOUR 382-Principles of Public Relations												
JOUR 383—Principles of Advertising												
JOUR 482-Public Relations Practices												
JOUR 483-Advertising Design												
Electives to be chosen from a list below					9.0		100					 . 7
												30
JOUR 464-Magazine Writing and Editing	g											
IOUR 582 Advertising Conv. Propagation	,											

JOUR 404—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
BSED 221—Business Communications
BSAD 200—Intro. to Data Processing

#### For a Major, Photojournalism Emphasis

BSAD 304-Marketing

	Sem.	Hrs.
JOUR 110-Intro. to Mass Communications		3
JOUR 201-Newswriting and Reporting		3
JOUR 204—Copyreading and Editing		
JOUR 285-Intro. to Photojournalism		3
JOUR 305-Newspaper Typography and Design		3
JOUR 387-Photo Essay and Editing		2
JOUR 586-Advanced Photojournalism		
ART 283-Photographic Design I		2
COMM 347 or 447—Internship		
OR		
COMM 139, 239, 339, 439, or 539—Cooperative Study		1
JOUR electives		7
		30

For a Major, Community Newspaper Emphasis	Requirements for Associate of Applied Arts,
Sem. Hrs.	Journalism
JOUR 201 – Newswriting and Reporting	Sem. Hrs
JOUR 204—Copyreading and Editing	JOUR 110—Intro. to Mass Communications
JOUR 285—Introduction to Photojournalism 3 JOUR 301—Advanced Newswriting 3	JOUR 201—Newswriting and Reporting
JOUR 304—Newspaper Production 3	JOUR 285—Intro. to Photojournalism
JOUR 364—Newspaper Production 3	JOUR 204—Copyreading and Editing
JOUR 483—Advertising Design	JOUR 344—Broadcast News and Public Affairs
JOUR 506—Community Newspapering 3	JOUR 383—Principles of Advertising
COMM 347 or COMM 447, Internship. Minimum 1 hr. in each of	COMM 347 or 447—Internship
	OR
three of these areas: reporting, photography, advertising, newspaper production	COMM 139, 239, 339, 439, or 539—Cooperative Study
JOUR 368—Sports Writing	SPCH 370—Business and Professional Speech
OP Sports writing	Approved communications electives
OR JOUR 387—Advanced Photojournalism	ENG 101—Composition I
JOUR 465—Editorial Writing	ENG 102—Composition II
	OADM 211—Beginning Typing (or show proficiency)
OR JOUR 505—Law and Ethics of the Press	FNA 160—Appreciation of Fine Arts
	GEO 211—Economics Geography
HIST 142—Intro. to Recent American History	General electives
OR	6
MNGT 310—Small Business Management	Suggested Program
OR	The following program has been devised to help students in selecting
GOVT 242—State and Local Government	courses during their four-year program of study. These suggested schedule
36	need not be followed specifically, but substitutions should be made only after
	careful study of degree requirements has been made. Students should ask their
For a Minor, General Teaching and	academic advisors prior to their substituting courses in the program sug
Print-Media Emphasis	gested above.
	gesteu above.
JOUR 110—Intro. to Mass Communications	
JOUR 201—News Writing and Reporting	Journalism (with certification)
JOUR 204—Copyreading and Editing	FRESHMAN YEAR
JOUR 285—Intro. to Photojournalism	First Semester
COMM 347	First Semester Sem. Hrs
OR	Seni. III
COMM 447—Internship	ENG 101—Composition I  JOUR 110—Intro. to Mass Communications
OR	BSED—Typing elective
COMM 139, 239, 339, 439, or 539—Cooperative Study	GOVT elective
JOUR electives in 300 series	
21	Elective
*Students electing the teaching minor should take JOUR 504 as part of	PHED—activity
these hours.	Second Semester
	ENG 102—Composition II
For a Minor, Advertising-Public Relations Emphasis	LOUID 901 Newsonition and Beneating
	JOUR 201—Newswriting and Reporting
JOUR 110—Intro. to Mass Communications	FNA 160—Appreciation of Fine Arts SOC SCI elective
JOUR 201—News Writing and Reporting	
JOUR 285—Intro. to Photojournalism	PHYS SCI elective
JOUR 382—Principles of Public Relations	PHED—activity
JOUR 383—Principles of Advertising	1
JOUR 482—Public Relations Practices	SOPHOMORE YEAR
JOUR 483—Advertising Design	First Semester
COMM 347 or 447—Internship	JOUR 204—Copyreading and Editing
OR .	JOUR 285—Intro. to Photojournalism
COMM 139, 239, 339, 439, or 539—Cooperative Study	ENG-literature elective
21	HIST elective
Pour Miner Distriction Pour Loris	JOUR 382—Principles of Public Relations
For a Minor, Photojournalism Emphasis	HLTH 150—Personal Health
JOUR 110—Intro. to Mass Communication	1
JOUR 201—Newswriting and Reporting	Second Semester JOUR 383—Principles of Advertising
JOUR 285—Intro. to Photojournalism	JOUR 383—Principles of Advertising
JOUR 386—Photo Essay and Editing	SPCH 370—Business and Professional Speech
JOUR 387—Advanced Photojournalism	BIOL elective
COMM 347 or 447—Internship	EDSE 472—Foundations of Secondary Education
OR	COMM—Internship
COMM 139, 239, 339, 439, or 539—Cooperative Study	PHIL elective
JOUR-electives	Elective
21	The state of the s
For a Minor, Community Newspaper Emphasis	JUNIOR YEAR First Semester
Sem. Hrs.	JOUR 465—Editorial Writing
JOUR 201—News Writing and Reporting	JOUR electives
JOUR 204—Copyreading and Editing	Science or math elective
JOUR 285—Introduction to Photojournalism	SOC elective
JOUR 301—Advanced Newswriting	1
JOUR 304—Newspaper Production	Second Semester
JOUR 483—Advertising Design	JOUR 505—Law of Press
JOUR 506—Community Newspapering	SOC SCI elective
COMM 347 or 447—Internships—minimum 1 hr. each in	EDSE 310—Prin. of Adolescent Development
three of these areas: reporting, photography,	SOC SCI elective
advertising newspaper production	Elective
24	

SENIOR YEAR		
First Semest JOUR 504—School Publications	er	
JOUR 504-School Publications		3
Electives		12
Consul Compa		15
Professional Semester	ter	10
Professional Semester		17
Lournalism (without contificate		
Journalism (without certificate,		
FRESHMAN YEAR		
First Semest	The state of the s	
ENG 101—English Composition I	Sei	m. Hrs.
ENG 101—English Composition I		3
JOUR 110-Intro. to Mass Communications		
BSED—Typing elective		
GOVT elective		
MATH elective		
PHED-activity		
0 10	and the second	16
Second Semes	ter	
ENG 102—Composition II JOUR 201—Newswriting and Reporting FNA 160—Appreciation of Fine Arts		. 3
JOUR 201—Newswriting and Reporting		. 3
PHY COLLAR TO THE ARTS		3
PHY SCI elective		
SOC elective		
PHED-activity		
SOPHOMORE YEAR		16
First Semeste		
JOUR 204—Copyreading and Editing	sr .	
JOUR 285—Intro. to Photojournalism		
ENG-literature elective		
HIST elective		
HLTH 150—Personal Health		
Elective		
Diective		17
Second Semest	er	. 30
SPCH 370—Business & Professional Speech	,ei	3
JOUR 383—Principles of Advertising		3
BIO SCI elective		3
PHIL elective		
Electives		
		16
First Semeste	r	
First Semeste JOUR 382—Principles of Public Relations		2
Science or math elective		3
SOC SCI elective		3
COMM-Internship		1
Electives		6
		15
Second Semest	er	
JOUR elective		2
Science or math elective		3
Electives		11
		16
SENIOR YEAR		
First Semeste		1
JOUR elective		
Electives		
		16
Second Semest		
JOUR elective		
Electives		
		16

## **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.

#### 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 Newswriting 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. (2-0-2); 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 prin-

ciples 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

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 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 476. Special Problems in Journalism. (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.

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	SPCH 100-Voice and Articulation
Because typing is very important in broadcasting work,	ENG 101—Composition I
and because it is required in some courses, students in radio-	Second Semester
television are encouraged to develop typing skills before	R-TV 250—Audio Production and Direction
entering the program. Some may want to take a typing	IET 241—Basic Electronics
course during their first semester.	IET 243—Electric Power
	MATH 141—Plane Trigonometry
Requirements for a Major (non-teaching)	ENG 102—Composition II
Sem. Hrs.	SOPHOMORE YEAR
R-TV 150—Intro. to Broadcasting	First Semester
R-TV 151—Intro. to Broadcast Techniques	R-TV 240—Writing for Broadcast
R-TV 240—Writing for Broadcast 3 R-TV 250—Audio Production and Direction 4	R-TV 320—Broadcast Advertising/Sales
R-TV 338—FCC License	R-TV 459—Broadcast Law and Regulation IET 341—Transistors and Semiconductors
R-TV 340—Video Production and Direction I	IET 342—Communications Electronics
R-TV 344—Broadcast News and Public Affairs	IET 338—FCC License
OR	1
R-TV 450—Broadcast Management R-TV 459—Broadcast Law and Regulations	Second Semester
SPCH 100—Voice and Articulation	R-TV 344—Broadcast News and Public Affairs
Electives	R-TV 450—Broadcast Management R-TV 340—Video Production and Direction
36	IET 345—Television Electronics
For a Minor (non-teaching)	IET 346—Transmitter Electronics
R-TV 150—Intro. to Broadcasting	1
R-TV 151—Intro. to Broadcast Techniques	B 11 (T. 1 . 1 . 5
R-TV 240—Writing for Broadcast	Radio-Television Broadcasting (Bachelor's Degree)
SPCH 100—Voice and Articulation	Suggested Program
Electives	FRESHMAN YEAR
	First Semester
Associate of Applied Arts Radio and	Sem. Hrs
Television Broadcasting	R-TV 150—Intro. to Broadcasting
Suggested Program	R-TV 151—Intro. to Broadcast Techniques
FRESHMAN YEAR	ENG 101—Composition I OR
First Semester	ENG 103—Composition III
Sem Hrs	PHY SCI—100 or higher
SPCH 100—Voice and Articulation	HLTH 150—Personal Health
R-TV 150—Intro. to Broadcasting	HUM elective
R-TV 151—Broadcast Techniques	Second Semester
R-TV 240—Writing for Broadcast 3 R-TV 338—FCC License 1	R-TV 240—Writing for Broadcast
ENG 101—Composition I	SPCH 100—Voice and Articulation
15	ENG 102—Composition II
Second Semester	OR
R-TV 250—Audio Production and Direction	ENG 192—Technical Composition BIO SCI—105 or higher
R-TV 283—Photographic Design 3 JOUR 201—News Writing and Reporting 3	PHED-activity
Electives 7	Elective or minor
17	1
SOPHOMORE YEAR	SOPHOMORE YEAR
First Semester R-TV 340—Video Production and Direction I	First Semester R-TV 250—Audio Production and Direction
R-TV 344—Broadcast News and Public Affairs 3	ENG—Literature 202, 211, or 212
JOUR 382—Principles of Public Relations 2	MATH 123 or higher
Electives	SOC SCI elective
16	Elective or minor
Second Semester R-TV—Internship	Second Semester
R-TV 450—Broadcast Management 3	R-TV 340—Video Production & Direction I
R-TV 440—Video Production and Direction II 4	Math or science elective
OR	SOC SCI elective
R-TV 451*—Professional Audio Practices	R-TV 338—F.C.C. License
JOUR 383—Principles of Advertising	SPCH 110—Basic Speech OR
Electives	SPCH 370—Business and Professional Speech
64	Elective or minor
*Since R-TV 440 is a 4-hour course, those who elect to take 451 must take an	10
additional elective hour in R-TV.	JUNIOR YEAR
	First Semester R-TV 344—Broadcast News and Public Affairs
Associate of Applied Arts Broadcast Operations	R-TV 440—Video Production & Direction II
Suggested Program	SOC SCI elective
FRESHMAN YEAR	Electives or minor
First Semester	10
Sem. Hrs.	Second Semester
R-TV 150—Intro. to Broadcasting	R-TV 450—Broadcast Management R-TV 451—Professional Audio Practices
R-TV 151—Intro. to Broadcast Techniques	R-TV 476—Special Problems
IET 240—Basic Electricity 3 MATH 152—College Algebra 3	Electives or minor
MATTI TOE COMERCIA MEDIA	19

Second Semester	
R-TV 320—Broadcast Advertising/Sales	
R-TV 344—Broadcast News and Public Affairs	
SOC SCI elective	
Electives or minor	
CENIOR VEAR	
SENIOR YEAR First Semester	
R-TV 459—Broadcast Law and Regulation	
R-TV 550—Problems in Contemporary Broadcasting	
Internship or Cooperative Study 3	
Electives or minor	
Discurves of minior	
The state of the s	
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 se-	
quence, i.e., 100-level courses during the freshman year, 200-level courses dur-	
ing 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 condi-	
tions 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 broad-	
cast announcing, with special emphasis on vocal communication skills of enun-	
ciation, 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); III. Provides a foundation in	
both practical and theoretical aspects of broadcast adertising. 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 in-	
troduction 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 ap-	
plied 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. Ad-	
vanced 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 pro-

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 pro-

gramming, research, audience, sales, regulatory, and personnel concerns. Special attention is given to the purpose and basic idea of programs in relation

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 for television,

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

gram types and to serve on crews for such production.

to audience composition.

film, multi-media, and radio production.

from historical and socio-economic perspectives

from both theoretical and operational standpoints. R-TV 560. History of Broadcasting. (3-0-3). A historical study of radiotelevision as a communication service and its development in America. R-TV 580. Policy and the Communications Industry. (3-0-3); II. 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); I. An examination of the role and effects of major advances of communications technology on the course of American culture and society in the past, present, 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 110-Basic Speech .... SPCH 382-Argumentation and Debate OR SPCH 383-Group Discussion THEA 100—Fundamentals of the Theatre 3
THEA 200—Introduction to Dramatic Literature 3 THEA 210—Technical Production THEA 380-Play Directing (SPCH 597 is strongly recommended for all majors entering the field of education.) For a Major in Speech and Theatre (non-teaching) SPCH 110-Basic Speech . . . . SPCH 382-Argumentation and Debate SPCH 383-Group Discussion . . THEA 100—Fundamentals of the Theatre 3
THEA 200—Introduction to Dramatic Literature 3 For a Major in Speech (teaching) SPCH 110-Basic Speech SPCH 200-Oral Interpretation . . . . SPCH 382-Argumentation and Debate OR SPCH 385-Persuasion SPCH 595—Administering the Communications Program (SPCH 597 and THEA 300 are strongly recommended for all majors entering the field of education.) For a Major in Speech (non-teaching) OR SPCH 383—Group Discussion SPCH 385—Persuasion 

R-TV 476. Special Problems. (1 to 3 hrs.); I, II, III. Prerequisite: prior arrangement with the instructor. Research or an original project with appropriate written report, within a subject area. May be repeated. See restric-

R-TV 550. Problems in Contemporary Broadcasting. (3-0-3); I. Treatment of current problems within the broadcasting industry.

R-TV 558. Public Broadcasting. (3-0-3); II. Prerequisite: junior standing and consent of the instructor. A study of the development of public broadcasting

tions applying to all programs in communications.

(Nine hours of the elective credit can be selected from related areas within	ENG-literature
the Department of Communications. For those interested in college level	GOVT or GEO
teaching, SPCH 595, SPCH 597, and THEA 300 are strongly recommended.)	Elective or minor
	MATH
For a Minor in Speech	
SPCH 100-Voice and Articulation	Second Semester
SPCH 110—Basic Speech	SPCH 200—Oral Interpretation
SPCH 200—Oral Interpretation	OR SPCH 210—Listening
SPCH 382—Argumentation and Debate	Sociology or psychology
OR	Natural & mathematical elective
SPCH 383—Group Discussion	EDSE 209-Foundations of Secondary Education
Electives in speech, approved by the advisor 6-9	Elective or minor
21	Communication or humanities option
*Required only for the minors entering the field of education. (SPCH 597 is	
strongly recommended for all minors entering the field of education.)	JUNIOR YEAR
F 16 1 0 1 1 6 1 1	First Semester SPCH 382—Argumentation and Debate
For a Minor in Organization Communication	OR
Sem. Hrs.	SPCH 383—Group Discussion
SPCH 310—Interpersonal Communication	EDSE 310—Principles of Adolescent Development
SPCH 370—Business and Professional Speech	Elective or minor
SPCH 567—Organizational Communication	The second secon
ENG—option—one of the following courses:	Second Semester
ENG 591—Technical Writing I	SPCH 385—Persuasion
ENG 592—Technical Writing II	SPCH 595—Administering the Communication Arts Program
ENG 592—Technical Writing II Electives chosen from the following list 9	Advanced speech elective Elective or minor
21	Elective or minor
SPCH 220—Listening	SENIOR YEAR
SPCH 315—Verbal Survival	First Semester
SPCH 383—Group Discussion	SPCH 597-Administering and Supervising the Co-Curricular
SPCH 385—Persuasion	Communication Arts Program
SPCH 510—Advanced Public Speaking	SPCH—Advanced speech elective
SPCH 570—Parliamentary Procedure 3 SPCH 571—Interviewing 3	Elective or minor
BSED 221—Business Communications 3	Garand Garanter
OADM 345—Dictating Techniques 3	Second Semester Professional Semester 1
JOUR 364—Feature Writing	
ENG—technical writing courses not taken to meet	*Advanced placed students scheduled by Department of Languages an
the above requirements	Literature.
For a Major in Theater (non-torolina)	Bachelor of Arts with a Major in Speech
For a Major in Theatre (non-teaching)	Ducheior of Arts with a major in Speech
	il M. T. D D.
Sem. Hrs.	with Non-Teaching Degree
THEA 100—Fundamentals of the Theatre	FRESHMAN YEAR
THEA 100—Fundamentals of the Theatre 3 THEA 200—Introduction to Dramatic Literature 3	FRESHMAN YEAR First Semester
THEA 100—Fundamentals of the Theatre 3 THEA 200—Introduction to Dramatic Literature 3 THEA 210—Technical Production 3	FRESHMAN YEAR First Semester Sem. Hr
THEA 100—Fundamentals of the Theatre         3           THEA 200—Introduction to Dramatic Literature         3           THEA 210—Technical Production         3           THEA 284—Acting Techniques         3	FRESHMAN YEAR First Semester SPCH 100—Voice and Articulation
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	FRESHMAN YEAR  First Semester  SPCH 100—Voice and Articulation  *ENG 101 or 103
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	FRESHMAN YEAR  First Semester  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology
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	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective
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	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective
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	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester
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	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech
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	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology Health Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192
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	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology Health Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science
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         For a Minor in Theatre (teaching and non-teaching)	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics
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         For a Minor in Theatre (teaching and non-teaching)         Sem. Hrs.	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology Health Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science
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         For a Minor in Theatre (teaching and non-teaching)         Sem. Hrs.         THEA 100—Fundamentals of the Theatre	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR
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         SPCH 100—Voice and Articulation I       3         SPCH 100—Voice and Articulation I       3         Theatre electives       6         For a Minor in Theatre (teaching and non-teaching)         FIEA 100—Fundamentals of the Theatre         THEA 200—Introduction to Dramatic Literature       3	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester
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 384—Theatre History       3         THEA 380—Play Directing       3         SPCH 100—Voice and Articulation I       3         Theatre electives       6         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	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 200—Oral Interpretation
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         For a Minor in Theatre (teaching and non-teaching)         FHEA 100—Fundamentals of the Theatre       3         THEA 200—Introduction to Dramatic Literature       3         THEA 210—Technical Production       3         THEA 284—Acting Techniques       3	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 200—Oral Interpretation  SPCH 220—Introduction to Communication Theory
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         For a Minor in Theatre (teaching and non-teaching)         FIEA 100—Fundamentals of the Theatre       3         THEA 200—Introduction to Dramatic Literature       3         THEA 210—Technical Production       3         THEA 224—Acting Techniques       3         THEA 320—Scenographic and Drawing Techniques       3         THEA 322—Scene Design       3	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 200—Oral Interpretation  SPCH 220—Introduction to Communication Theory  ENG—Literature
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         SPCH 100—Voice and Articulation I       3         SPCH 100—Voice and Articulation I       3         Theatre electives       6         For a Minor in Theatre (teaching and non-teaching)         THEA 100—Fundamentals of the Theatre       3         THEA 200—Introduction to Dramatic Literature       3         THEA 210—Technical Production       3         THEA 241—Technical Production       3         THEA 254—Acting Techniques       3         THEA 320—Scenographic and Drawing Techniques       3	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 200—Oral Interpretation  SPCH 220—Introduction to Communication Theory  ENG—Literature  Government or geography
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 380—Play Directing       3         SPCH 100—Voice and Articulation I       3         Theatre electives       6         For a Minor in Theatre (teaching and non-teaching)         FHEA 100—Fundamentals of the Theatre       3         THEA 200—Introduction to Dramatic Literature       3         THEA 210—Technical Production       3         THEA 224—Acting Techniques       3         THEA 320—Scenographic and Drawing Techniques       3         THEA 322—Scene Design       3         THEA 380—Play Directing       3	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 200—Oral Interpretation  SPCH 220—Introduction to Communication Theory  ENG—Literature
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         For a Minor in Theatre (teaching and non-teaching)         FOR A Minor in Theatre (teaching and non-teaching)         THEA 100—Fundamentals of the Theatre       3         THEA 200—Introduction to Dramatic Literature       3         THEA 210—Technical Production       3         THEA 224—Acting Techniques       3         THEA 320—Scenographic and Drawing Techniques       3         THEA 322—Scene Design       3         THEA 380—Play Directing       3	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 200—Oral Interpretation  SPCH 220—Introduction to Communication Theory  ENG—Literature  Government or geography  Elective or minor  Math
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         For a Minor in Theatre (teaching and non-teaching)         FOR THEA 100—Fundamentals of the Theatre       3         THEA 210—Fundamentals of the Theatre       3         THEA 210—Technical Production       3         THEA 220—Introduction to Dramatic Literature       3         THEA 284—Acting Techniques       3         THEA 320—Scenographic and Drawing Techniques       3         THEA 322—Scene Design       3         THEA 380—Play Directing       3         Suggested Programs       21         Suggested Programs have been devised to help students in selecting their	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 200—Oral Interpretation  SPCH 220—Introduction to Communication Theory  ENG—Literature  Government or geography  Elective or minor  Math  Second Semester
THEA 100—Fundamentals of the Theatre       3         THEA 200—Introduction to Dramatic Literature       3         THEA 210—Technical Production       3         THEA 210—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         For a Minor in Theatre (teaching and non-teaching)         FHEA 100—Fundamentals of the Theatre       3         THEA 200—Introduction to Dramatic Literature       3         THEA 210—Technical Production       3         THEA 224—Acting Techniques       3         THEA 320—Scenographic and Drawing Techniques       3         THEA 322—Scene Design       3         THEA 380—Play Directing       3         Suggested Programs       3         The following programs have been devised to help students in selecting their courses and making their schedules during the freshman and sophomore	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 200—Oral Interpretation  SPCH 220—Introduction to Communication Theory  ENG—Literature  Government or geography  Elective or minor  Math  Second Semester  SPCH 210—Listening
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THEA 100—Fundamentals of the Theatre 3 THEA 200—Introduction to Dramatic Literature 3 THEA 210—Technical Production 3 THEA 210—Techniques 3 THEA 284—Acting Techniques 3 THEA 315—Stage Make-up 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 For a Minor in Theatre (teaching and non-teaching)  For a Minor in Theatre (teaching and non-teaching)  THEA 200—Introduction to Dramatic Literature 3 THEA 200—Introduction to Dramatic Literature 3 THEA 210—Technical Production 3 THEA 224—Acting Techniques 3 THEA 320—Scenographic and Drawing Techniques 3 THEA 320—Scenographic and Drawing Techniques 3 THEA 320—Sceno Design 3 THEA 380—Play Directing 3  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. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 200—Oral Interpretation  SPCH 220—Introduction to Communication Theory  ENG—Literature  Government or geography  Elective or minor  Math  Second Semester  SPCH 210—Listening  Sociology or psychology  Natural or mathematical elective  Elective or minor  JUNIOR YEAR  First Semester  SPCH 382—Argumentation and Debate  OR
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           For a Minor in Theatre (teaching and non-teaching)           FOR a Minor in Theatre (teaching and non-teaching)           THEA 100—Fundamentals of the Theatre         3           THEA 200—Introduction to Dramatic Literature         3           THEA 210—Technical Production         3           THEA 224—Acting Techniques         3           THEA 322—Scene Design         3           THEA 380—Play Directing         3           THEA 380—Play Directing         3           THEA 380—Play Directing         3           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,	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 220—Oral Interpretation  SPCH 220—Introduction to Communication Theory  ENG—Literature  Government or geography  Elective or minor  Math  Second Semester  SPCH 210—Listening  Sociology or psychology  Natural or mathematical elective  Elective or minor  JUNIOR YEAR  First Semester  SPCH 382—Argumentation and Debate  OR  SPCH 383—Group Discussion
THEA 100—Fundamentals of the Theatre  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 322—Scenic Design  3 THEA 380—Play Directing  3 SPCH 100—Voice and Articulation I  3 Theatre electives  6 For a Minor in Theatre (teaching and non-teaching)  For a Minor in Theatre (teaching and non-teaching)  THEA 200—Introduction to Dramatic Literature  3 THEA 210—Technical Production  3 THEA 22—Scene Design  3 THEA 322—Scene Design  3 THEA 322—Scene Design  3 THEA 320—Scene Design  3 THEA 380—Play Directing  3 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.	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology Health Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192 Physical Science History or Economics Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 200—Oral Interpretation SPCH 220—Introduction to Communication Theory ENG—Literature Government or geography Elective or minor  Math  Second Semester  SPCH 210—Listening Sociology or psychology Natural or mathematical elective Elective or minor  JUNIOR YEAR  First Semester  SPCH 382—Argumentation and Debate OR SPCH 383—Group Discussion Elective or minor
THEA 100—Fundamentals of the Theatre 3 THEA 200—Introduction to Dramatic Literature 3 THEA 210—Technical Production 3 THEA 210—Techniques 3 THEA 315—Stage Make-up 3 THEA 315—Stage Make-up 3 THEA 322—Scenic Design 3 THEA 325—Scenic Design 3 THEA 354—Theatre History 3 THEA 380—Play Directing 3 SPCH 100—Voice and Articulation I 3 Theatre electives 6 For a Minor in Theatre (teaching and non-teaching)  For a Minor in Theatre (teaching and non-teaching)  THEA 200—Introduction to Dramatic Literature 3 THEA 200—Introduction to Dramatic Literature 3 THEA 210—Technical Production 3 THEA 22—Scene Design 3 THEA 320—Scenographic and Drawing Techniques 3 THEA 320—Scenographic and Drawing Techniques 3 THEA 380—Play Directing 3 THEA 380—Play Directing 3 THEA 380—Play Directing 12  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	FRESHMAN YEAR  First Semester  Sem. Hr  SPCH 100—Voice and Articulation  *ENG 101 or 103  Biology  Health  Social or behavioral science elective  Second Semester  SPCH 110—Basic Speech  *ENG 102 or 192  Physical Science  History or Economics  Elective or minor  SOPHOMORE YEAR  First Semester  SPCH 220—Oral Interpretation  SPCH 220—Introduction to Communication Theory  ENG—Literature  Government or geography  Elective or minor  Math  Second Semester  SPCH 210—Listening  Sociology or psychology  Natural or mathematical elective  Elective or minor  JUNIOR YEAR  First Semester  SPCH 382—Argumentation and Debate  OR  SPCH 383—Group Discussion

Biology3	SENIOR YEAR
Health3	First Semester
Social & behavioral science	Electives
15	SPCH 595—Administering the Communications Program
Second Semester	15
SPCH 110—Basic Speech	Second Semester
*ENG 102 or 192	Professional Semester
Physical science	*Advanced placed students scheduled by Department of Languages and
History or economics	Literature.
Elective or minor	
15	Speech/Theatre (non-teaching)
SOPHOMORE YEAR	
First Semester	FRESHMAN YEAR
SPCH 200-Oral Interpretation	First Semester
	Sem. Hrs.
OR SPCH 210—Listening 3	*ENG 101 or 103
SPCH 220—Introduction to Communication Theory	Physical science
	Health
Second Semester	Elective
SPCH 385—Persuasion	SPCH 110—Basic Speech
SPCH—advanced speech elective	THEA 100—Fundamentals of the Theatre
Elective or minor9	18
15	Second Semester
SENIOR YEAR	ENG 102 or 192
First Semester	Biology
SPCH—advanced speech elective	Elective
Elective or minor	THEA 200—Introduction to Dramatic Literature 3
18	
Second Semester	History or economics
SPCH—advanced speech elective	15
Elective or minor	SOPHOMORE YEAR
Elective or minor	First Semester
*Advanced placed students scheduled by Department of Languages and	ENG-literature3
	Math
Literature.	Government or geography3
C 1/T1 1 (1 1:)	Elective or minor
Speech/Theatre (teaching)	15
FRESHMAN YEAR	Second Semester
First Semester	Sociology or psychology elective
Sem. Hrs.	Natural or mathematical elective
*ENG 101 or 103	SPCH 200—Oral Interpretation
Biology	Elective or minor
Health 3	16
Social or behavioral science elective	JUNIOR YEAR
SPCH 100—Voice & Articulation	First Semester
THEA 100—Fundamentals of the Theatre	SPCH 382—Argumentation and Debate
18	OR
Second Semester	SPCH 383—Group Discussion
*ENG 102 or 192	SPCH or THEA advanced electives
Physical science	Communication or humanities option
History or economics	Elective
SPCH 100—Basic Speech	15
THEA 210—Technical Production	Second Semester
15	SPCH or THEA advanced electives
SOPHOMORE YEAR	Elective or minor
First Semester	Social or behavioral elective
ENG-literature3	15
THEA 200—Introduction to Dramatic Literature 3	SENIOR YEAR
Government or geography	First Semester
Math	SPCH or THEA advanced electives
THEA 284—Acting Techniques 3	Elective or minor
THEA 204—Acting reciniques	Elective of infinor
Second Semester	Second Semester
EDSE 209—Foundations of Secondary Education	Elective or minor
SPCH 200—Oral Interpretation	*Advanced placed students scheduled by Department of Languages and
Sociology or psychology	Literature.
Natural or mathematical elective	
Elective6	
17	Bachelor of Arts with a Major in Theatre
JUNIOR YEAR	
First Semester	FRESHMAN YEAR
Communication or humanities option	First Semester
SPCH 382-Argumentation and Debate	
OR	Sem. Hrs.
SPCH 383—Group Discussion	THEA 100—Fundamentals of the Theatre
Elective or minor	SPCH 100-Voice and Articulation
Social or behavioral elective	*ENG 101 or 103
Social or behavioral elective	Biology
Second Semester	
EDSE 310—Principles of Adolescent Development	Health
THE A 200 Plant Direction	15
THEA 380—Play Directing	Second Semester
SPCH 597-Administering and Supervising the Co-Curricular	Second Semester THEA 200—Introduction to Dramatic Literature
Communication Arts Program	THEA 210—Technical Production 3
Elective or minor6	THEA 210—Technical Froduction
15	ENG 102 or 192

History or economics 3
SOPHOMORE YEAR
First Semester
THEA 320—Sceneographic and Drawing Techniques
THEA 284—Acting Techniques
ENG-literature
Government or geography
SPCH 110 or 370
Math3
18
Second Semester
THEA 315—Stage Make-up
THEA 322—Scene Design
Sociology or psychology
Natural or mathematical elective
Electives
18
JUNIOR YEAR
First Semester
THEA 354—Theatre History
Minor
Communication or humanities option
15
Second Semester
THEA 380—Play Directing
THEA-Advanced elective
Elective or minor
Social or behavioral elective
17
SENIOR YEAR
First Semester
THEA—advanced elective
Elective or minor
15
Second Semester
Electives or minor
*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.

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. (3-0-3); I, II, III. Competency-based in-

dividual voice production experiences and study with goals of increasing proficiency of student vocal production.

SPCH 102. Voice Production II. (1 to 3 hours); 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); I. 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); I, II. 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 interpreta-

tion of dramatic literature and radio scripts.

SPCH 305. Advanced Oral Interpretation. (3-0-3); II. 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); II. 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. Intructional Communication. (3-0-3); I, II. Study and practice of the oral communication skills required of an effective secondary school

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 ma-

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 476. Special Problems. (1 to 3 hrs.); I, II, III. Prerequisite: permission of the instructor. Research on an original project, with appropriate written report, within an approved subject area. May be repeated. See restrictions applying to all programs in communications

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 production with work in laboratory environment. A limit of four hours may be credited toward a degree program. Credit hours earned which exceed the limit may be applied to the minimum requirements for the A.B. degree.

THEA 200. Introduction to Dramatic Literature. (3-0-3); I. 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 constructon, 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

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

THEA 310. Stage Movement.(2-0-2); I. The study and practice of stage fighting and movement in various historical periods.

THEA 311. Theatre Practicum II. (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 scener;

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

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 develop-

ment 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 ac-

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

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 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	
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	
ENG 101—Composition I	
OR	
The state of the s	9
ENG 192—Technical Composition	
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At least one course in advanced composition At least one course in American literature	
THE TOMOS ONE COMISCO IN THIS COURT MATERIAL	0
ENG 435—Shakespeare	
ENG 505—Linguistics: Grammar	
No more than two literature courses at 300 level	
All remaining (two to six) electives at 400 and 500 level	36
	36

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For a Minor	
ENG 101—Composition I 3 ENG 102—Composition II 3	
OR ENG 192—Technical Composition	
At least one course in American literature	
ENG 505—Linguistics: Grammar	
All remaining (two to four) electives at 400 and 500 level	
*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	
ENG 101—Composition I	
PHED—activity course	
SCI 103—Intro. to Physical Science	
Social sciences elective	
Foreign language 3 HLTH 150—Personal Health 2	
Elective	
2 12	
Second Semester ENG 102—Composition II	
OR	
ENG 192—Technical Composition	
PHED—activity course	
*PSY 154—Life-Oriented General Psychology	
Foreign language	
*EDSE 209—Foundations of Secondary Ed	
16	
SOPHOMORE YEAR	
First Semester ENG elective	
SPCH 100—Voice and Articulation OR	
SPCH 110—Basic Speech	
EDSE 310—Prin. of Adolescent Development	
Social sciences elective (HIST 351)	
Electives	
2 12 17	
Second Semester ENG electives	
SPCH 200—Oral Interpretation	
JOUR 201—News Writing and Reporting	
Foreign language 3 Elective 2	
17	
Malanda Faultal	
Major in English	
FRESHMAN YEAR First Semester	
Sem. Hrs.	
ENG 101—Composition I	
PHED—activity course 1	
SCI 103—Intro. to Physical Science 3 Social sciences elective 3	
Foreign language	
HLTH 150—Personal Health	
Elective	

	Second Semester			
ENG 102-Composition II				3
OR				
ENG 192-Technical Comp	osition			3
SCI 105 Intro to Biologia	al Science			9
Sci 105—Intro. to Biologica	at Science	****		0
Foreign language			41.44	3
	Secondary Ed.			
Elective		2 1 2 7 7 2 2		1
				16
SOPHOMORE YEAR				
	First Semester			
ENG elective				3
*PSY 154_Life-Oriented G	eneral Psychology			3
	cherui i sychology			
Electives (HIST 351)			1.10.1	
				17
	Second Semester			
*EDSE 310—Prin. of Adole	scent Development			3
LAICCUIVE				17
				11

#### **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; IIspring; 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 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

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 represen-

tative 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); I, II, III. 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

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 Nabakov.

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, II, 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-Aristotellians, 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 Drams. (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); I, II, III. Practicum in sustained writing. Evaluation and marketing of manuscripts.

ENG 594. Fiction and Poetry Writing II. (3-0-3); I, 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 tagememics.

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

															Irs
FRN 101-Beginning French I	000	A.	 907	( je )				·					7.		
FRN 102-Beginning French II	n +		 00		150										1
FRN 201-Intermediate French			 						v					73	
FRN 202—Conversation and Composition	١,					. ,	40					19			
FRN 203—Introduction to France	F 4						s.			50	100				
FRN 435-Twentieth Century Literature	1000		 		 060					*:	0.90	*25	(a)		
Approved electives															15
															30

#### Requirements for a Minor in French

			S	en	n.	H	rs.
FRN 101-Beginning French I	cocce						.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		000					.6
**							

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 selec-

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

#### Requirements for a Major in German

GER 101—Beginning German I	. 3
GER 102—Beginning German II	
GER 201—Intermediate German I	
GER 202—Intermediate German II	
GER 301—Grammar and Conversation	3
GER 302—Composition and Conversation	2
Approved electives	30
Requirements for a Minor in German	
Sem. Hr	rs.
GER 101—Beginning German I	. 3
GER 102—Beginning German II	3
GER 201—Intermediate German I	3
GER 201—Intermediate German I AND GER 202—Intermediate German II OR	. 3
GER 201—Intermediate German I AND GER 202—Intermediate German II OR GER 203—Expository German	.3
GER 201—Intermediate German I AND GER 202—Intermediate German II OR GER 203—Expository German Approved electives	.3

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); 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

Sem. Hrs.

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, IIspring, 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.

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, transla-

tion, 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.

RUS 405. Linguistics and Language Teaching. (3-0-3). Prerequisite: minoring

RUS 405. Linguistics and Language Teaching. (3-0-3). Prerequisite: minoring in Russian. A seminar for majors or minors in various foreign languages requiring projects appropriate to the specialty of each.

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

SPA 101—Beginning Spanish I		1.36			F. A.	× 3	m., e						100
SPA 102—Beginning Spanish II				e i					. ,		×. ×		
SPA 201—Intermediate Spanish				61						,		20	1
SPA 202—Advanced Conversation		454					56.	-30			2.0	50	
SPA 301—Spanish Literature										na:			
SPA 302—Spanish American Literature							1000						
SPA 501-Advanced Grammar													
Approved electives													
													3
Requirements for a Minor in Sp	an	isi	ı										
													Hr
						4.1	40						
SPA 101—Beginning Spanish I													
SPA 101—Beginning Spanish I SPA 102—Beginning Spanish II								17					
SPA 101—Beginning Spanish I SPA 102—Beginning Spanish II SPA 201—Intermediate Spanish				e i									
SPA 101—Beginning Spanish I SPA 102—Beginning Spanish II SPA 201—Intermediate Spanish SPA 202—Advanced Conversation													
SPA 101—Beginning Spanish I SPA 102—Beginning Spanish II SPA 201—Intermediate Spanish SPA 202—Advanced Conversation SPA 301—Spanish Literature													
SPA 101—Beginning Spanish I SPA 102—Beginning Spanish II SPA 201—Intermediate Spanish SPA 202—Advanced Conversation SPA 301—Spanish Literature SPA 302—Spanish American Literature													
Requirements for a Minor in Sp SPA 101—Beginning Spanish I SPA 102—Beginning Spanish II SPA 201—Intermediate Spanish SPA 202—Advanced Conversation SPA 301—Spanish Literature SPA 302—Spanish American Literature Approved electives													

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

# **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 permisson 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, Mistica, Poesia 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 instruc-

tion 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

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.

Sem. Hrs.

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 programs of study which prepare students for careers in teaching and performing. The department also offers musical training and performance opportunities for students who are not planning musical careers. The offerings of the department include a Bachelor of Music Education degree for those who are planning to teach music; a Bachelor of Music degree for those who are planning for careers in performance; and a major or minor in music within the Bachelor of Arts curriculum.

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	****	(617) 51 (617) 617		14
Ensembles, at least two vocal				7-9
*Class Piano				4
Class voice and instruments				
2. *MUSIC THEORY		KESOKKS E		16
Music Theory I-IV				10
Music Reading I-III				6
3. MUSIC HISTORY AND LITER	ATUR	E		10
Music Literature I-II				
History of Music I-II	****	000000000000000	******	6

4. CONDUCTING 4	Class and/or Private Keyboard 6
Choral Conducting 2	Electives
Instrumental Conducting	Private Lessons in Major Instrument or Voice
5. MUSIC EDUCATION 7	7. JAZZ AND STUDIO MUSIC
Elementary Materials and Methods	Private Applied Music
Vocal or Instrumental Materials and Methods	Junior Recital 2
Seminar	Senior Recital 3 Jazz Keyboard 2
	Class Piano and/or Jazz Keyboard 4
*Exemption or advanced placement possible.	Jazz History and Literature
For the Bachelor of Music	Arranging for Jazz Ensembles 4
	Studio Improvisation
This program is designed for students who are planning for	Music electives
professional careers in music either as performers or as	80
private teachers. It does not meet the requirements for cer-	For a Major (Bachelor of Arts Degree-Teaching)
tification to teach in the public schools.	
The following courses are required for all Bachelor of	This program provides a basic background of preparation
Music degree students:	for either instrumental or vocal music at the secondary level.
Sem. Hrs.	It does not qualify the student for the twelve-grade cer-
1. MUSIC THEORY	tificate and is not recommended for the student who plans to
Music Theory I-IV	teach music exclusively.
Music Reading I-III 6	Program for Instrumental Majors
Form Analysis	
2. MUSIC HISTORY AND LITERATURE	Sem. Hrs.
Music Literature I-II	Applied Music
History of Music I-II 6	Private Lessons 7 Class Instruments and Voice 5
3. ENSEMBLES 8 4. CONDUCTING 4	Class Piano 4
4. CONDUCTING Choral Conducting 2	Ensembles 4
Instrumental Conducting	Music Theory
NOTE: Jazz and studio music students may take either instrumental or	Music Theory I-III
choral conducting. To complete their conducting requirement, they will take	Music Reading I-III 6
Rehearsal Techniques for Jazz Ensembles (MUS 473).	Music History and Literature 6
In addition to the above courses, each Bachelor of Music degree student	History of Music: I and II 6 Music Education and Conducting 4
must complete the requirements for one of the following specializations:	Instrumental Conducting 2
1. VOICE	Instrumental Materials and Methods 2
Private Voice	44
Class Voice	Program for Vocal Majors
Junior Recital	
Senior Recital 3	Applied Music
Class and/or Private Piano	Private Voice
in each of two languages) 9	Class or Private Piano 4
2. PIANO	Ensembles
Private Piano 19	Music Theory
Private Organ and/or Harpsichord	Music Theory I-III
Junior Recital	Music Reading I-III 6
Senior Recital	Music History and Literature
Class Voice	Music Literature I and II 4 History of Music I and II 6
Piano Pedagogy	Music Education and Conducting 4
Electives	Choral Conducting
3. ORGAN OR HARPSICHORD	Vocal Materials and Methods
Private Organ or Harpsichord	44
Class or Private Piano	
Junior Recital	For a Major (Bachelor of Arts Degree-Non-teaching)
Senior Recital	This program is designed for students who are planning for
Class Voice	careers in music which do not require certification. It does
Piano Pedagogy 2 Piano Literature 3	not meet the requirements for teaching music in the public
Electives	schools now does it prepare a student to control of the public
4. STRINGS	schools, nor does it prepare a student to enter graduate
Private Strings	study in music without further preparation at the
Class Piano and/or Private Piano	undergraduate level.
Junior Recital	Applied Music
Senior Recital	Private Lessons 8
Electives 8 Class Voice 1	Ensembles 4
5. WIND INSTRUMENTS	Music Theory
Private Lessons in Major Instrument	Music Theory I-III
Junior Recital	Music Reading I-III 6
Senior Recital	History of Music I and II
Class Piano and/or Private Piano	32
Class Voice	For a Minor (Non-teaching)
Arranging4	Applied Music
Music electives	Private Lessons
6. THEORY/COMPOSITION	Class or Private Piano 2
Composition	Music Theory 6
Counterpoint	Music Theory I and II
Recital of Original Composition	Music Literature I and II 4
	Music electives
	21

#### 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	

FRESHMAN TEAR	
First Semester	
ENG 101—Composition I	Sem. Hrs.
ENG 101—Composition I	
Physical science elective	
Social science elective	
MUST 131—Music Theory I	
MUST 133—Music Reading I	
MUSG 123-Class Piano I	
MUSP—major private applied	
MUSM-ensemble	
MUSM 200-Student Recital	0
	17
Second Semester	
ENG 102—Composition II	3
Biological science elective	3
PHED-activity course	
MUST 132—Music Theory II	
MUST 134—Music Reading II	
MUSG 124—Class Piano II	
MUSG—class instrument or voice	
MUSP—major private applied	
MUSM—ensemble	
MUSM 200—Student Recital	
MUSM 200—Student Recital	17
SOPHOMORE YEAR	17
First Semester	
Eng—literature elective	
MUST 231—Music Theory III	
MUST 233—Music Reading III	
MUSG 223-Class Piano III	
MUSG 161—Literature of Music I	
MUSG—class instrument or voice	
MUSP—major private applied	
MUSM-ensemble	
MUSM 200—Student Recital	
HLTH 150—Personal Health	2
	17
Second Semester	
MUST—Theory IV	2
MUSG 224-Class Piano IV	
MUSH 162-Literature of Music II	
MUSG-class instrument or voice	1
MUSP—major private applied	
MUSM-ensemble	
MUSM 200—Student Recital	
General education electives	
EDSE 209—Foundations of Sec. Ed.	
DESCRIPTION TO CONTRACT OF THE PROPERTY OF THE	17
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#### Bachelor of Music (Piano Specialization)

#### FRESHMAN YEAR

FRESHMAN YEAR																
	First S	Seme	ste													
			-										S	em	. 1	Hrs.
ENG 101—Composition I	25															3
Physical science elective																3
HLTH 150-Personal Health																
MUST 131-Music Theory I																
MUST 133-Music Reading I																
*MUSP 243-Private Piano																
*MUSM 187—Piano Ensemble	•	5.751	Be						715		0.0			200		1
MUSG 239-Class Voice		10000			(5)3)				50.5) 1077			3.0		515	itiit ana	1
MUSM 200—Student Recital																
in Com 200 Student Meenur													0.40			17
	Second	Sem	este	ar												
ENG 102-CompositionII																3
Biological science elective	1.1.55							23510	****			53			2.5	3
PHED—activity course																
MUST 132—Music Theory II																
MUST 134—Music Reading II																
*MUSP 243—Private Piano																
*MUSM 188—Piano Ensemble		* * * *			5.5	. 5							. Ca		* *	0
MUSM 200—Student Recital																
*MUSP-private organ or harp	psicnore	1	4 4 0			0.0	(0)		0.0	€0	•	(0.0)				1

#### SOPHOMORE YEAR

First Semester	
MUSH 161-Literature of Music I	
MUST 231-Music Theory III	
MUST 233-Music Reading III	
*MUSP 243—Private Piano	
*MUSP-private organ or harpsichord	
*MUSM—piano ensemble	
MUSM 200—Student Recital	
Electives	
Second Semester	
ENG-literature elective	
MUSH 162—Literature of Music II	
MUST-Theory IV	
*MUSP 243—Private Piano	
*MUSP—private organ or harpsichord	
*MUSM—piano ensemble	
MUSM 200—Student Recital	
Elective	
16	

<sup>\*</sup>Points at which substitutions should be made for other specializations.

#### Piano Proficiency

A student who expects to be certified to teach music upon graduation and whose major applied instrument is not piano must successfully complete four semesters of class piano or demonstrate piano proficiency by examination. The material for the examination will consist of the following:

- 1. Facility in scales, arpeggios, and cadences.
- Performance of compositions of approximately third grade difficulty from the works of Clementi, Bach, Mozart, Bartok, etc.
- Sight reading of easy piano music and instrumental and vocal accompaniments.
- 4. Playing of simple melodies by ear and improvising appropriate harmonizations.

#### Music Fees

One half-hour private lesson per week, per semester	 		.\$30.00
Each additional half-hour private lesson per week, per semeste			
Instrument rental fee			
Junior recital	 		. \$30.00
Senior recital (two hours credit)	 200		.\$30.00
Senior recital (three hours credit)	 		.\$60.00
Graduate recital			

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

Private instruction in applied music is offered in the following areas:

Flute		Horn		Percussion
Oboe		Trumpet		Organ
Bassoon		Trombone		Piano
Clarinet		Euphonium		Harpsichord
Saxophone		Tuba		Harp
	Violin		Guitar	
	Viola		Banjo	
	Cello		Conducti	ing
	Double Bass		Voice	

Each music student is required to designate a principal area of private music study and to enroll for credit in the principal area of private music study each semester except

Electric Bass

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.

Private instruction may be taken by students who are not following a music curriculum, in which case the requirements are different from those established for music students. The amount of credit in private applied music is variable. A maximum of four hours may be earned in a given area of private study within one semester.

In a given area of private study, the 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

Each Thursday afternoon at 3:00, music students and faculty present a recital. Music students are required to take this course 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 Music Department.

#### 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. The ensemble assignment is 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: MUSE 100, 101, 132, or 133. Music fundamentals and methods for teaching music to elementary school childern.

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 shools 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.

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.

ques.

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 224. Class Fland 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); I, II. 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, III. 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, III. The history of music in Western Europe, Russia, and America from the eighteenth century to the pre-

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 59l. 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); II, III. A survey of music for solo voice

ensemble, sixteenth through twentieth centuries; stylistic traits, types of composition, sources, and performance practices.

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). 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, 183. Jazz Ensemble. (0-2-1); I, II. Open to all students. Admission by audition.

MUSM 182, 283. 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 Enesemble. (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

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); I. II. 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. 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. Eligibility to enroll for graduate courses (500 level) will be determined by an audition.

MUSM 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 242, 442, 542. Frivate Organ.
MUSP 243, 443, 543. Private Piano.
MUSP 262, 462, 562. Private Composition.
MUSP 263, 463, 563. Private Conducting. With the consent of the instruc-

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.

MUSP Composition Recital. (1-0-2); I, II, III. Preparation and performance in recital of student's original compositions. With the approval of the music

#### 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 element of music (calligraphy, rhythm, meter, pitch, materials), emphasing 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 ex-

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 Eximina-tion. 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 134 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 231 or consent of the instructor. Study and practice of basic formal compositional

MUST 264. Elementary Composition II. (1-1-2); II. Prerequisite: MUST 231, 233. Continuation of MUST 263.

MUST 331. Counterpoint. (2-0-2); II. Prerequisite: MUST 132. Writing of sixteenth and eighteenth century strict and free counterpoint, cannon, invention, fugue. Some twentieth century techniques.

Sem. Hrs.

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

263. 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 231, 233. A study of the elements of musical design through aural and score analysis. MUST 531. Arranging. (2-0-2); on demand. Prerequisite: MUST 231, 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.

#### **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

	5	Sem. Hr	re
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 depart			
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			
PHIL 506—History of Philosophy II			
Additional credit in philosophy approved by the departs			
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		8	30
For a Minor in Religious Studies			
REL 221—World Religions I			3
REL 222—World Religions II			3
PHIL 200—Introduction to Philosophy			
PHIL 307—Philosophy of Religion			
Additional credit in religious studies approved by the			
Department of Philosophy			9
Minimum for a minor	Transfer in Free In	9	21
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	ses wnich may be se to complete the m				
following:					BELL
REL 321-Ear	ly and Medieval Chr	ristian Though	t		 3
REL 322-Mod	lern Christian Thou	ght		 0000	 3
REL 323-Twe	ntieth-Century Chr	istian Thought		 	 3
REL 476-Spe	cial Problems			 	 1-3

ENG 325—Religious Literature of the World ENG 367-Old Testament Literature ENG 368-New Testament Literature HIS 332—Christianity and Its World HIS 551-Religion in American History ....

#### 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

# Bachelor of Arts Degree with a Major in

#### Philosophy (without a teaching certificate) FRESHMAN YEAR First Semester

	Sem. rirs.
ENG 101—Composition I	
PHIL 200—Introduction to Philosophy	
Physical Science 103 or higher	
Social and behavioral sciences elective	3
Elective (foreign language recommended)	9
Elective (foreign language recommended)	
Elective	
	16
Second Semester	
ENG 102 or 192	
Philosophy elective	
Biological Science 105 or higher	
Social and behavioral sciences elective	3
Elective (foreign language recommended)	9
Elective	
**************************************	16
SOPHOMORE YEAR	
First Semester	
ENG 202, 211, or 212	
Philosophy elective	
Second major or elective	3
Social and behavioral sciences elective	9
Elective (foreign language recommended)	9
Elective (foreign language recommended)	
Elective	
	16
Second Semester	
PHIL 306—Logic	
Second major or elective	3
Math 131 or higher	
Speech 110 or 370	3
Elective (foreign language recommended)	3
Elective	
	16
D	
Provisional High School Certificate with	a Major
in Philosophy and a Major in a Teaching	Subject
• • •	Suojece
FRESHMAN YEAR	
First Semester	
	Sem. Hrs.
ENG 101—Composition I	3
PSY 154-Life-oriented General Psychology	3
Humanities elective	
Physical Science 103 or higher	9
Casial and behavioral asiance about a	
Social and behavioral sciences elective	
Elective	
	16
Second Semester	
ENG 102 or 192	
ENG 102 or 192 PHIL 200—Introduction to Philosophy	
Second major	3
Biological Science 105 or higher	9
Social and behavioral sciences elective	9
Elective	
**************************************	16
SOPHOMORE YEAR	16
SUPHOMORE TEAR	

First Semester

EDSE 209—Foundations of Secondary Education

ENG 202, 211, or 212

Philosophy elective	Second Semester
Second major	PHIL 306—Logic
Social and behavioral sciences elective	Philosophy elective
Health 150 of 205	Major
Second Semester	Math or science elective or Data Processing 201 Speech 110 or 370
PHIL 306—Logic	Elective
Elective in philosophy	10
Second major	D. H. L. C. H.
Math 131 or higher	Religious Studies
Elective	Bachelor of Arts Degree with a Major in
16	Religious Studies (without a teaching certificate)
Provisional High School Certificate with a Minor	FRESHMAN YEAR
in Philosophy and a Major in a Teaching Subject	First Semester Sem. Hrs
FRESHMAN YEAR	ENG 101—Composition I
First Semester	REL 221—World Religions I
Sem. Hrs.	Humanities elective
ENG 101—Composition I	Physical Science 103 or higher
PSY 154—Life-oriented General Psychology	Social and behavioral sciences elective
Physical Science 103 or higher	Elective
Social and behavioral sciences elective	Second Semester
Elective	ENG 102 or 192
16	REL 222—World Religions II
Second Semester	PHIL 200—Introduction to Philosophy
ENG 102 or 192	Biological Science 105 or higher
PHIL 200—Introduction to Philosophy	Social and behavioral sciences elective
Major	Diective
Biological Science 105 or higher	SOPHOMORE YEAR
Elective 1	First Semester
16	ENG 202, 211, or 212
SOPHOMORE YEAR	Religious studies elective
First Semester	Second major or elective
ENG 202, 211, or 212	Math 131 or higher
EDSE 209—Foundations of Secondary Education	Elective
Major	16
Speech 110 or 370	' Second Semester
Elective	PHIL 307—Philosophy of Religion
17	Second major or elective
Second Semester	Health 150 or 203 Social and behavioral sciences elective S
PHIL 306—Logic	Science or Mathematics elective
Philosophy elective 3 Major 3	Elective
Math 131 or higher	16
Social and behavioral sciences elective	D. C
Elective	Professional High School Certificate with a Major
16	in Religious Studies and a Major in a Teaching Subject
	FRESHMAN YEAR
Bachelor of Arts Degree with a Minor in	First Semester
Philosophy (without a teaching certificate)	Sem. Hrs.
	ENG 101—Composition I
FRESHMAN YEAR First Semester	REL 221—World Religions I 3 Second major 3
First Semester Sem. Hrs.	PSY 154—Life-oriented General Psychology
ENG 101—Composition I	Physical Science 103 or higher
Humanities elective	Elective
Physical Science 103 or higher	16
Social and behavioral sciences elective	Second Semester
Health 150 or 203	ENG 102 or 192 3 REL 222—World Religions II 3
16	Second major
Second Semester	PHIL 200—Introduction to Philosophy
ENG 102 or 192	Biological Science 105 or higher
PHIL 200—Introduction to Philosophy	Elective
Major	16
Biological Science 105 or higher	SOPHOMORE YEAR
Social and behavioral sciences elective	First Semester ENG 202, 211, or 212
Elective	Religious studies elective
SOPHOMORE YEAR	Second major
First Semester	EDSE 209—Foundations of Secondary Education
ENG 202, 211, or 212	Social and behavioral sciences elective
Philosophy elective	Health 150 or 203
Major3	Second Semester
MATH 131 or higher	Religious studies elective
Elective	Second major
16	Humanities elective

MAT	H 131 or higher	
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Roli	gious Studies and a Major in a Ted	aching Subject
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REL	221—World Religions I	
Major		
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Physi	cal Science 103 or higher	
Elect	ive	16
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ENG	102 or 192 222—World Religions II	3
Major	•	
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Biolo	gical Science 105 or higher	
Elect	ive	
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	Second Semester	3
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#### **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.

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 prac-

tical 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

PHIL 307. Philosophy of Religion. (3-0-3); I, II. Prerequisite: any one of the following courses: PHIL 200, 505, 506. 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 appealing 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 sym-

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. Prerequisite: anyone of the following courses: PHIL 200, 505, 506. An examination, interpretation, and evaluation of the philosophic ideas of leading representatives of twentiethcentury 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 pres-

#### 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 Zoroastranism. 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 Shin-

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:

- To develop in those who attain knowledge and skill, certain intangibles such as confidence, poise, personal appearance, and self-assurance.
- 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.
- To assist students in developing attractive voice quality, good speech habits, and the art of conversation.
- 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, III. 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 option (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.

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)

3
BIOL 206-Biological Etymology
BIOL 208—Invertebrate Zoology
BIOL 209-Vertebrate Zoology
BIOL 215—General Botany
BIOL 304—Genetics
BIOL 317—Principles of Microbiology
BIOL 337—Comparative Anatomy
OR
BIOL 555—Plant Morphology
BIOL 380—Cell Biology
BIOL 471—Seminar
Biology field course
Biology electives (see below)
Total hours for a biology major35

#### Biology Electives

Students majoring in biology must earn a minimum of 6 semester hours credit from the following:

semester hours credit from the following:	
BIOL 318-Local Flora	
BIOL 319—Immunology and Serology	
BIOL 320—Basic Microtechniques	
BIOL 334—Entomology	
BIOL 337—Comparative Anatomy	
BIOL 338-Vertebrate Embryology	
BIOL 350—Heredity and Society	
BIOL 355-Population, Resources, and Environment	
BIOL 356—Environmental Biology	
BIOL 357—Environmental Testing Methods	
BIOL 510—Limnology	
BIOL 513—Plant Physiology	
BIOL 514—Plant Pathology	
BIOL 515—Food Microbiology	
BIOL 518—Pathogenic Microbiology	
BIOL 519—Virology	
BIOL 520—Histology	
BIOL 525—Animal Physiology	
BIOL 530—Ichthyology 3	
BIUL 531—Herbetology 3	

BIOL 535—Mammalogy	
BIOL 537—Ornithology BIOL 540—General Parasitology	
BIOL 545—Medical Entomology	
BIOL 550—Plant Anatomy	
BIOL 551—Plant Natural History	3
BIOL 552—Animal Natural History	3
BIOL 553—Environmental Education	
BIOL 555—Plant Morphology	
BIOL 561—Ecology BIOL 575—Scanning Electron Microscopy	
BIOL 575—Scanning Electron Microscopy  BIOL 595—Biochemistry I	
BIOL 596—Biochemistry II	
*MSCI elective	
*Three hours of electives from the Gulf Coast Research Laborat	CINT PRINTS CONTROL
Ocean Springs, Mississippi, may be used to apply towards the bir For a complete selection of courses, see the listing outlined at the School of Sciences and Mathematics section. Additional crearranged with other departments and programs. For informat Morehead State University on-campus coordinator for GCRL or the department.	ology major. ne end of the dit may be- tion, see the
Supplemental Requirements (Major)	
CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	
CHEM 102 or 112—General Chemistry II	
CHEM 102A or 112A—General Chemistry II Lab	1
PHYS 201—Elementary Physics I	3
PHYS 201A—Elementary Physics I Lab	
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	
MATH 152—College Algebra	25
*Pre-medical, pre-dental, and other pre-professional students	
major in biology may substitute PHYS 350 (Nuclear Science) for	GEOS 410
Suggested Partial Curriculum (Biology Major)	
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester	Sem. Hrs.
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology	Sem. Hrs.
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I	Sem. Hrs.
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab BIOL 206—Biological Etymology	Sem. Hrs
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Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab BIOL 206—Biological Etymology	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab BIOL 206—Biological Etymology General education elective	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab BIOL 206—Biological Etymology General education elective MATH 141—Plane Trigonometry or equivalent	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR  First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101 or 111—General Chemistry I Lab BIOL 206—Biological Etymology General education elective MATH 141—Plane Trigonometry or equivalent  SOPHOMORE YEAR	Sem. Hrs
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Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab BIOL 206—Biological Etymology General education elective MATH 141—Plane Trigonometry or equivalent  SOPHOMORE YEAR First Semester BIOL 215—General Botany CHEM 102 or 112—General Chemistry II CHEM 102A or 112A—General Chemistry II Lab PHYS 201—Elementary Physics I PHYS 201A—Elementary Physics I Lab	Sem. Hrs
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR  First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab BIOL 206—Biological Etymology General education elective MATH 141—Plane Trigonometry or equivalent  SOPHOMORE YEAR  First Semester BIOL 215—General Botany CHEM 102 or 112—General Chemistry II CHEM 102A or 112A—General Chemistry II CHEM 102A or 112A—General Chemistry II Lab PHYS 201—Elementary Physics I PHYS 201A—Elementary Physics I Lab ENG—Literature 202, 211, or 212	Sem. Hrs.
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR  First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab BIOL 206—Biological Etymology General education elective MATH 141—Plane Trigonometry or equivalent  SOPHOMORE YEAR First Semester BIOL 215—General Botany CHEM 102 or 112—General Chemistry II CHEM 102A or 112A—General Ch	Sem. Hrs.
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab BIOL 206—Biological Etymology General education elective MATH 141—Plane Trigonometry or equivalent  SOPHOMORE YEAR First Semester BIOL 215—General Botany CHEM 102 or 112—General Chemistry II	Sem. Hrs.
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR  First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab BIOL 206—Biological Etymology General education elective MATH 141—Plane Trigonometry or equivalent  SOPHOMORE YEAR First Semester BIOL 215—General Botany CHEM 102 or 112—General Chemistry II CHEM 102A or 112A—General Ch	Sem. Hrs.
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101A or 111A—General Chemistry I CHEM 101A or 111A—General Chemistry I Lab BIOL 206—Biological Etymology General education elective MATH 141—Plane Trigonometry or equivalent  SOPHOMORE YEAR First Semester BIOL 215—General Botany CHEM 102 or 112—General Chemistry II	Sem. Hrs.
Suggested Partial Curriculum (Biology Major) FRESHMAN YEAR  First Semester BIOL 208—Invertebrate Zoology ENG 101—Composition I MATH 152—College Algebra or equivalent SPCH 110—Basic Speech PHED—activity course HLTH 150—Personal Health  Second Semester BIOL 209—Vertebrate Zoology ENG 102 or 192—Composition CHEM 101 or 111—General Chemistry I CHEM 101 Aor 111A—General Chemistry I Lab BIOL 206—Biological Etymology General education elective MATH 141—Plane Trigonometry or equivalent  SOPHOMORE YEAR First Semester BIOL 215—General Botany CHEM 102 or 112—General Chemistry II CHEM 102A or 112A—General Chemistry II CHEM 102A or 112A—General Chemistry II CHEM 102A or 112A—General Chemistry II Lab PHYS 201—Elementary Physics I PHYS 201—Elementary Physics I Lab ENG—Literature 202, 211, or 212  Second Semester PHYS 202—Elementary Physics II Lab General education elective	Sem. Hrs.

Requirements for a Minor in Biology

BIOL 206—Biological Etymology

BIOL 215—General Botany         4           Approved electives in biology         10           Minimum for a minor         22	ENG 192—Technical Composition         3           HLTH 150—Personal Health         2           Elective         3
Supplemental Requirements (Minor)	15
CHEM 101 or 111—General Chemistry I	SOPHOMORE YEAR
CHEM 101A or 111A—General Chemistry I Lab	First Semester
CHEM 102 or 112—General Chemistry II       3         CHEM 102A or 112A—General Chemistry II Lab       1         8       8	BIOL 215—General Botany       4         GEOS 376—Environmental Geology       3         ENG—Literature 202, 211, or 212       3         Minor       3
Environmental Science	GEN EDUC—elective
An environmental science major with four options is of-	16
fered. The four options are in ecology; geology; social	Second Semester
sciences and economics; and chemistry and physics. With	BIOL 355-Population, Resources, and Environment
careful planning between the student and the advisor, a	GEOS 240—Oceans
teaching certificate can be obtained in one of the option	PHIL 303—Social Ethics 3 Minor 3
fields. The major is primarily designed to produce profes-	GEN EDUC—electives 6
sionals in a variety of fields, depending upon the option	18
chosen. Private industry, governmental agencies,	
municipalities, public utilities, and ecological contracting	Requirements For a Major in Environmental
companies are primary sources of employment. Environmen-	Science with the Geology Option
tal science participates in the Cooperative Field Experiences	Environmental science core courses
and Area Health Education System Programs to give	GEOS 107—Introduction to Geoscience
students actual work experience before graduation. An en-	GEOS 100—Physical Geology
vironmental science minor is also offered.	GEOS 101—Historical Geology 3 GEOS 240—Oceans 3
Delining Control	GEOS—electives approved by advisor
Requirements for a Major in Environmental	Complemental Prominamenta
Science (all majors must take the environmental	Supplemental Requirements MATH 353—Statistics
science core)	MATH 353—Statistics
Sem. Hrs.	CHEM 101-101A (or 111-111A)—General Chemistry I
BIOL 355—Population, Resources, Environment	PHYS 201—Elementary Physics I
BIOL 356—Environmental Biology	PHYS 201A—Elementary Physics I Laboratory
GEOS 376—Environmental Geology	CHEM 102A (or 112A)—GeneralChemistry II Lab
ECON 501—Environmental Economics	OR
GEOG 505—Foliates of Ecology GEOG 505—Conservation of Natural Resources	PHYS 202—Elementary Physics II
19	FITTO 202A—Elementary Physics II Bao
All environmental science majors are also requested to take certain com- plementary general education courses to complete University requirements.	Suggested Partial Curriculum (Geology Option)
Requirements for a Major in Environmental	FRESHMAN YEAR First Semester Sem. Hrs.
Science with the Ecology Option	GEOS 107—Introduction to Geoscience 3
Environmental science core courses	GEOS 100—Physical Geology
BIOL 208—Invertebrate Zoology	CHEM 101—General Chemistry I         3           CHEM 101A—General Chemistry I Lab         1
BIOL 209—Vertebrate Zoology 3 BIOL 215—General Botany 4	ENG 101—Composition I 3
BIOL 357—Environmental Testing Methods	SPCH 110—Basic Speech
BIOL 510—Limnology	PHED—activity course
BIOL 561—Ecology 38, 334, 530, 531, 535, or 537 3	10
	Second Semester
Supplemental Requirements	GEOS 101—Historical Geology CHEM 102—General Chemistry I
CHEM 101 or 111—General Chemistry I	CHEM 102—General Chemistry I Lab
CHEM 101A or 111A—General Chemistry I Lab	OR
CHEM 102A or 112A—General Chemistry II Lab	PHYS 201—Elementary Physics I         3           PHYS 201A—Elementary Physics I Lab         1
GEOS 240—Oceans 3	ENG 192—Technical Composition 3
MATH 353—Statistics	HLTH 150—Personal Health 2
Suggested Partial Curriculum (Ecology Option)	GEOS 240—Oceans 3
FRESHMAN YEAR	GEN EDUC—elective 3
First Semester	10
BIOL 208—Invertebrate Zoology 3 CHEM 101—General Chemistry I 3	SOPHOMORE YEAR
CHEM 101—General Chemistry I  Lab  1	First Semester CHEM 102—General Chemistry II and
ENG 101—Composition I	CHEM 102A—General Chemistry Lab
SPCH 110—Basic Speech 3 PHED—Activity Course 1	OR
PHED—Activity Course	PHYS 202—Elementary Physics II         3           PHYS 202A—Elementary Physics II Lab         1
	GEOS 376—Environmental Geology
Second Semester	ENG-literature elective-202, 211, or 212
BIOL 209—Vertebrate Zoology 3	Minor
CHEM 102—General Chemistry II	GEN EDUC—elective 3

Second Semester	Suppleme
BIOL 355-Population, Resources, Environment	GEOS 240—
PHIL 303—Social Ethics 3	
GEOS-approved elective	MATH 353-
Minor 3	BIOL 357—I
GEN EDUC—elective 3	0
GEN EDOC—elective	Suggeste
15	Physics (
D	FRESHMAI
Requirements for a Major in Environmental	
Science with the Social Sciences and	
	CHEM 101-
Economics Option	CHEM 101A
Sem. Hrs.	ENG 101-C
Environmental science core courses	SPCH 110-
CECO11 E CONTROL CONTR	
GEO 211—Economic Geography	GEN EDUC
GEO 390—Weather and Climate	PHED-acti
ECON 201—Principles of Economics I	
ECON 541—Public Finance 3	
GOVT 370—Pressure Groups and Politics	
GOVT 540—Public Administration 3	CHEM 102-
Social Sciences and Economics electives approved by advisor	CHEM 102A
	ENG 192-T
Supplemental Requirements	HLTH 150-
GEOS 240—Oceans	Electives
GEOS 240—Oceans	Electives
BIOL 357—Environmental Testing Methods	
	SOPHOMOR
Suggested Partial Curriculum (Social Sciences	
	PHYS 201-
and Economics Option)	PHYS 201A
FRESHMAN YEAR	CHEM 223-
First Semester	ENG-Litera
ENG 101—Composition I 3	Minor
ENG 101—Composition 1	
ECON 201—Principles of Economics I 3	GEN EDUC
GEN EDUC—elective	
MATH-elective	
HLTH 150—Personal Health 2	
PHED—activity course	PHYS 202-
15	PHYS 202A
	GEOS 240-
Second Semester	PHIL 303—5
ENG 192—Technical Composition 3	BIOL 355—I
CEO 011 Ferroris Composition	Minor
GEO 211—Economic Geography	Willor
GEOS 240—Oceans	
SPCH 110-Basic Speech	D
GEN EDUC—elective	Requiren
15	Science
SOPHOMORE YEAR	GEOS 240—
First Semester	GEOS 376-
GEOS 376—Environmental Geology 3	BIOL 355-I
ENC 1 iterature 909 911 or 919	BIOL 472-5
ENG—Literature 202, 211, or 212	BIOL 356-H
GEN EDUC—elective	GOVT 505-
Minor	Electives fro
Elective	
15	and BIOL
	two listed)
Second Semester	
BIOL 355—Population, Resources, Environment	7/ 11 1
GEO 390—Weather and Climate 3	Medical
GEN EDUC—elective	Medical
Minor	growing
Elective	medical
18	analytical
	mation pr
Requirements for a Major in Environmental	diagnosin
	in counsel
Science with the Chemistry and Physics Option	
Environmental science core courses	Persona
CHEM 101—General Chemistry I	include ar
CHEM 101A—General Chemistry I Lab	
	dability,
CHEM 102—General Chemistry II	work well
CHEM 102A—General Chemistry II Lab	Approx
CHEM 223—Quantitative Analysis	
CHEM 460—Instrumental Analysis	employed
PHYS 201—Elementary Physics I	in physic
PHYS 201A—Elementary Physics I Lab	
PHYS 202—Elementary Physics II	forces, cit
PHYS 202A—Elementary Physics II Lab	laboratori
DILVO 250 Musless Calones	private r
PHYS 350—Nuclear Science 4 PHYS 361—Fundamentals of Electronics 3	specific di
PHYS 361 - Bundamentals of Electronics	

Supplemental Requirements
GEOS 240—Oceans         3           MATH 353—Statistics         3           BIOL 357—Environmental Testing Methods         3
one-was entirely the second responsibility and the second
Suggested Partial Curriculum (Chemistry and Physics Option)
FRESHMAN YEAR
First Semster
Sem. Hrs.
CHEM 101—General Chemistry I         3           CHEM 101A—General Chemistry I Lab         1           ENG 101—Composition I         3           SPCH 110—Basic Speech         3           GEN EDUC—elective         3           PHED—activity course         1           14
Company Company
Second Semester
CHEM 102—General Chemistry II       3         CHEM 102A—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
Second Semester   PHYS 202—Elementary Physics II   3   3   PHYS 202—Elementary Physics II Lab   1   GEOS 240—Oceans   3   3   PHIL 303—Social Ethics   3   BIOL 355—Population, Resources, Environment   3   3   Minor   3   16
Danien ante Espa Minor in Environmental
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       3         and BIOL 553 (only one course may be chosen from the last two listed)       6
Medical Technology

technology is one of the newest and fastestprofessions associated with modern advances in science. The medical technologist performs tests on body fluids, cells, and products. The inforrovided by test results is used by the physician in g disease, selecting and monitoring treatment, and ling for prevention of disease.

al attributes necessary for success in this profession otitude for physical and biological sciences, depena strong sense of responsibility, and capacity to under stress.

imately two-thirds of all medical technologists are in hospital laboratories. Most others are employed ians' offices, private laboratories, clinics, armed ty, state, and federal agencies, industrial medical es, pharmaceutical houses, and in public and 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:

- Beckley Appalachian Regional Hospital Beckley, West Virginia
- St. Elizabeth Hospital Covington, Kentucky
- 3. Mobile Infirmary Mobile, Alabama
- 4. St. Joseph Hospital Lexington, Kentucky
- 5. Providence Hospital Cincinnati, Ohio
- Cumberland School of Medical Technology Cookeville, Tennessee
- 7. Pikeville Methodist Hospital 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

First Semester	0 11
ENG 101-Composition I	Sem. Hrs.
BIOL 208—Invertebrate Zoology	3
CHEM 101—General Chemistry I	
OR	
CHEM 111—General Chemistry I	3
CHEM 101A—General Chemistry I Lab	
OR CHEM 111A—General Chemistry I Lab	100
CHEM 111A—General Chemistry I Lab	
MATH 152—College Algebra	
OR Equivalent	3
HLTH 150—Personal Health	2
PHED—activity course	
	16
Second Semester	
ENG 102—Composition II	
OR ENG 192—Technical Composition	9
BIOL 331—Human Anatomy	
CHEM 102—General Chemistry II	
OR	
CHEM 112—General Chemistry II	3
CHEM 102A—General Chemistry II Lab	
OR	
OR CHEM 112A—General Chemistry II Lab	1
MATH 123—Introduction to Statistics	
OR	
Equivalent	3
BIOL 206—Biological Etymology	15
	To the same of
SOPHOMORE YEAR	
First Semester	
BIOL 332—Human Physiology	3
BIOL 333—Human Physiology Lab	1
CHEM 326—Organic Chemistry I	
CHEM 326A—Organic Chemistry I Lab	
PSY 154—General Psychology	3
ENG-Literature 202, 211, or 212 GEN EDUC-elective	
GEN EDUC—elective	17
Second Semester	
PHYS 202—Elementary Physics II	3
PHYS 202A—Elementary Physics II Lab	
BIOL 317—Principles of Microbiology	4
CHEM 223—Quantitative Analysis	4
GEN EDUC—electives	18
	10
JUNIOR YEAR	
First Semester	
BIOL 319—Immunology and Serology	3
BIOL 518—Pathogenic Microbiology	3
CHEM 460—Instrumental Analysis	4
GEN EDUC-electives	
	16
Second Semester	
BIOL 304—Genetics	3
BIOL 380—Cell Biology	
BIOL 540—General Parasitology	
GEN EDUC—electives	
	15
n	
Recommended electives related to program: BIOL 520—Histology	
BIOL 520—Histology BIOL 595—Biochemistry	3
DATA 202—Computer Programming BASIC	9
CHEM 327—Organic Chemistry II	
CHEM 327A—Organic Chemistry II Lab	1
SENIOR YEAR (Clinical)	
All students attending an accredited school of medical tec	hnology during

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.

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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 com-pleted (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 lecturelaboratory 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 analysis 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, literature, 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 and trigonometry. These specific courses and the successful completion of three years of undergraduate study 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 between medical schools, it is essential that the student investigate the requirements of the school of his or her choice during the first two years of the preparatory program.

#### Pre-Medical and Pre-Dental Suggested Curriculum

#### FRESHMAN VEAR

FRESHMAN IEAR	
First Semester	
	Sem. Hrs.
BIOL 208-Invertebrate Zoology	3
ENG 101 or 103—Composition I (placement)	
EDEL 110—Developmental Reading	2
MATH—(placement)	3-4
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	
CHEW ITTA—General Chemistry I Lab	15-16
	10-10
Second Semester	
BIOL 209—Vertebrate Zoology	3
ENG 102 or 192—Composition	3
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
BIOL 206—Biological Etymology	
PHED-activity	
MATH-elective	16-17
	10-17
CODUCTOR VE 1 D	
SOPHOMORE YEAR	
First Semester	- 2
BIOL 215—General Botany	
CHEM 326—Organic Chemistry I	
CHEM 326A—Organic Chemistry I Lab	1
HLTH 150—Personal Health	
PHYS 201—Elementary Physics I	3
PHYS 201A—Elementary Physics I Lab	
ENG-Literature 202, 211, or 212	3

Sem. Hrs.

1.11일은 BLOKE (1.20 J.), BLOKE (1.20 J.)
Second Semester   Second Semester   Second Semester   Second Semester   Second Semester   Second Semester   Semester   Second Semester   Seme
JUNIOR YEAR
First Semester   BIOL 338—Vertebrate Embryology
OR         MATH 353—Statistics         3-4           SPCH 110 or 310—Basic Speech         3
15-16
Second Semester BIOL 317—Principles of Microbiology 4 BIOL 380—Cell Biology 3 CHEM 223—Quantitative Analysis
OR         4           CHEM 460—Instrumental Analysis         4           PHYS 350—Nuclear Science         4           15
SENIOR YEAR
First Semester   4
Second Semester   BIOL 471—Seminar in the Biological Sciences   1   HUM—elective   3   Electives   6-7   Approved advanced science electives   6-7   Pre-Pharmacy Program   Frank
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 must be obtained after completion of the two-year pre-pharmacy program. Three ad- ditional years are required to complete pharmacy school.
Suggested Curriculum
FRESHMAN YEAR First Semester
Sem. Hrs.   Sem. Hrs.   CHEM 101 or 111—General Chemistry I   3   3   CHEM 101A or 111A—General Chemistry I Lab   1   BIOL 208—Invertebrate Zoology   3   ENG 101—Composition I   3   GEN EDUC—electives   6   6   6   6   6   6   6   6   6
Second Semester
BIOL 209—Vertebrate Zoology       3         ENG 102 or 192—Composition 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
SOPHOMORE YEAR
First Semester BIOL 317—Principles of Microbiology 4
BIOL 206—Biological Etymology

PHYS 201A-Elementary Physics I Lab.....

HEM 326—Organic Chemistry I
HEM 326A—Organic Chemistry I Lab
CON 201—Principles of Economics
1'
Second Semester
HYS 202—Elementary Physics II
HYS 202A—Elementary Physics II Lab
HEM 327—Organic Chemistry II
HEM 327A—Organic Chemistry II Lab
EN EDUC—electives
1

#### 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 prephysical therapy program.

The schedule below is a suggested curriculum and may be

First Semester

varied according to individual preferences.

# Suggested Curriculum: FRESHMAN YEAR

ENG 101—Composition I
PSY 154—General Psychology
CHEM 101 or 111—General Chemistry I
CHEM 101A or 111A—General Chemistry I Lab
MATH 152—College Algebra
BIOL 208—Invertebrate Zoology
16
Second Semester
ENG 102 or 192—Composition II or Technical Composition
PSY 155—General Psychology
CHEM 102 or 112—General Chemistry II
CHEM 102A or 112A—General Chemistry II Lab
BIOL 209—Vertebrate Zoology
MATH 152—Plane Trigonometry OR elective
16
그리아 병이 그리고 되는 사람이 많아 없는 것이 없는 것이 없는 것이 없다.
SOPHOMORE YEAR
First Semester
BIOL 331—Human Anatomy
PHYS 201—Elementary Physics I
PHYS 201A—Elementary Physics I Lab 1
*Electives
13-16
Second Semester
BIOL 337—Comparative Anatomy
PHYS 202—Elementary Physics II
PHYS 202A—Elementary Physics II Lab
Electives*
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 the resolution (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

FRESHMAN TEAR
First Semester
Sem. Hrs.
ENG 101—Composition I 3
CHEM 101 or 111—General Chemistry I
CHEM 101A or 111A—General Chemistry I Lab
BIOL 208—Invertebrate Zoology
MATH 152—College Algebra 3
PHED—activity course
HLTH 150—Personal Health 2
16
Second Semester
ENG 102 or 192—Composition II OR Technical Composition
CHEM 102 or 112—General Chemistry II
CHEM 102A or 112A—General Chemistry II Lab
BIOL 209-Vertebrate Zoology
MATH 141—Plane Trigonometry 3
GEN EDUC-elective
16
10
SOPHOMORE YEAR
First Compater
First Semester
ENG-Literature 202, 211, or 212
PHYS 201—Elementary Physics I
PHYS 201A—Elementary Physics I Lab 1
PSY 154—General Psychology
ECON 201—Principles of Economics
HIS 131—Introduction to Civilization I
Elective
18
Second Semester
GEN EDUC—elective
PHYS 202—Elementary Physics II
PHYS 202A—Elementary Physics II Lab 1
PSY 590—Abnormal Psychology 3
SOC 101—General Sociology
GOVT 141—Government of United States 3
Elective
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, II. 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.); I, II, III, on demand.

BIOL 199. Selected Workshop Topics. (1 to 4 hrs.); I, II, III, 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 in-

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. 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; fermenta-

tion 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); I. 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.

student abilities in serological techniques.

BIOL 320. Basic Microtechniques. (0-4-2); I, II—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. 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.

BIOL 332. Human Physiology. (3-0-3); I, II, III. Prerequisite: BIOL 331. 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). Included experiments will stress first-hand knowledge of fundamental physiological principles of the human body. Correct laboratory technique and equipment usage are also emphasized. 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, II. Prerequisite: BIOL 209. Vertebrate structure based on the recognition of morphological deviation in body plants

BIOL 338. Vertebrate Embrology. (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. 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.); I, II, III—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.

the student's advisor.

BIOL 413. Medical Technology Hospital Internship. (4); III. See Medical Technology Curriculum.

BIOL 414. Medical Technology Hospital Internship. (4); III. See Medical Technology Curriculum.

BIOL 415. Medical Technology Hospital Internship. (14); I. See Medical Technology Curriculum.

BIOL 416. Medical Technology Hospital Internship. (14); II. See Medical Technology Curriculum.

BIOL 471. Seminar in the Biological Sciences. (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 Sciences. (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—on demand\*. 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); I on demand. Prerequisites: CHEM 112 and 112-A or equivalent. Diffusion, osmosis, cell wall, and membrane structure, mineral nutrition, photosynthesis, respiration, macro-molecules, photoperiodism, and other aspects of plant growth and development.

BIOL 514. Plant Pathology. (1-4-3); I 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); I. 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); II 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; 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 of 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 reptiles found in eastern North America.

BIOL 535. Mammalogy. (1-4-3); I; on demand.\* 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 pf diseases with special emphasis on insects of medical importance. Anatomy, physiology, identification, ecology, and con-

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: permission of the 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.); I, II, III—on demand. Prerequisite: variable. These courses are always innovative, perhaps nontraditional, 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. Prerequisite: CHEM 327 or consent of instructor. Carbohydrates, lipids, and proteins, intermediary metabolism, protein synthesis, enzymology, blood chemistry, bioenergetics, fluid electrolyte balance, 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.); I, II, II—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.

Com Une

#### Requirements for a Major in Mathematics

Selli. Ars.
MATH 175—Analytic Geometry and Calculus I
MATH 275—Analytic Geometry and Calculus II
MATH 471—Seminar
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
30
DATA 202—Computer Programming BASIC

#### 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.

EDECUMAN VEAD

FRESHMAN YEAR		
	First Semester	
		Sem. Hrs.
ENG 101-Composition I (OF	R ENG 103)	
MATH 175-Analytic Geome	try and Calculus I	
DATA 202-Computer Progra	amming BASIC	
PHED-activity course		
HLTH 150-Personal Health		
Biological Science elective		16
	Second Semester	.53
ENG 102-Composition II (O	R ENG 192)	3
MATH 275 Analytic Geome	try and Calculus II	4
DUED activity course	stry and Calculus II	1
THED—activity course		9
Disciplification of 142		9
Minor		
CONTOUCHE VELD		16
SOPHOMORE YEAR		
	First Semester	
MATH 276—Analytic Geome	etry and Calculus III	
OR		
MATH elective		
MATH 304—Math Logic and	Set Theory	,
HUM-literature elective (EN	IG 202, 211, or 212)	
SOC 101, 170, 203, or PSY 15	4	
Minor		
		15-16
	Second Semester	
SPCH 110 or 370		
GOVT 141, 242, or 310		
Minor		
General electives		
General electrons		16
Description of the second	Minan in Mathamatic	
	Minor in Mathematic	
MATH 175-Analytic Geome	etry and Calculus I	
MATH 275-Analytic Geome	etry and Calculus II	4
Electives in math above 170 e	xcept MATH 231, 232, 252, ar	nd 260
Flortives in moth shove 300	as approved by the head of the	he
Department of Mathematic	al Sciences	
DATA 202—Computer Progr	amming BASIC	
Difficult competer and	•	21
Enn a Minon in Stati	ation	
For a Minor in Stati	(지원장의 #	
A student should consult	the head of the Department	t of Mathematical
Sciences for approval of one	of the following:	
	OPTION I	
MATH 123-Introduction to	Statistics	
MATH 132-General Mathen	natics II	
MATH 260-Fortran Program	mming	
MATH 301-Elementary Lin	ear Algebra	3
MATH 353_Statistics		3
MATH 552 Statistical Math	nods	3
MATH 555 Nonperemetric	Statistics	3
MATH 555—Nonparametric	Statistics	21
	OPTION II	
MATH 301-Elementery Lin	ear Algebra	3
MATH 319 Numerical Anal	ysis	3
MATH 252 Statistics	ysis	3
	tatistics	
MATH 555—Statistical Meth	ods	
MATH 555—Nonparametric	Statistics	
		21
Description of C	OURCOS	

#### **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 specialities 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, II. Sets of logic; relations and functions; number systems through the reals; systems of equations.

MATH 174. Pre-Calculus Mathematics II. (3-0-3); I, II. Exponential,

MATH 174. Pre-Calculus Mathematics II. (3-0-3); I, II. 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. A course for students in electronics.

simplification techniques, circuit design. A course for students in electronics.

MATH 260. FORTRAN Programming. (3-0-3); II. Prerequisites: DATA 200 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

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.

Som Hre

Sem Hrs

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. Principals 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

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 descendents 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 in-

tegrals; 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)

									5	Se	m	. I	Irs.
CHEM 111-General Chemistry I		 	 	TECH	0.0			 * 2	000				3
CHEM 111A-General Chemistry I	Lab	 		1									1
CHEM 112-General Chemistry II		 1 10						252					3
CHEM 112A-General Chemistry II													
CHEM 223—Quantitative Analysis		 						 			J.		4
CHEM 326—Organic Chemistry I		 		273		104							3
CHEM 326A-Organic Chemistry I	Lab	 		V 4	341		4			+ 4			1
CHEM 327A-Organic Chemistry II													
CHEM 328-Organic Chemistry III													
CHEM 328A-Organic Chemistry II													
CHEM 350-Inorganic Chemistry													
CHEM 441-Physical Chemistry I													
CHEM 442-Physical Chemistry II													
CHEM 450-Qualitative Organic Ar													
CHEM 460-Instrumental Analysis													4
SCI 471—Seminar													
		 	 	0.00	-	1000				- 100		5050	44
Supplemental Requirements													

					De	ш.	III.	5.
MATH 175-Analytic Geometry & Calculus I	* *			4.90		3.3		4
MATH 275—Analytic Geometry & Calculus II		r 515						4
MATH 276-Analytic Geometry & Calculus III						4.4		4
PHYS 231—Engineering Physics I								
PHYS 231A—Engineering Physics I Lab	63	a 200	× × ×	0.30	0.00	0.00		1
PHYS 232—Engineering Physics II	191190	0. 100		e eo	cen			4
PHYS 232A—Engineering Physics II Lab		4 171						1
GER 101-Beginning German I								
GER 102—Beginning German II				4 40				3
DATA 202—Computer Programming BASIC								

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

#### For a Minor in Chemistry

21 hrs. in chemistry approved by department head. including CHEM 223 (or 460), 326, and 326A

#### 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. rirs.
ENG 101—Composition I	
GER 101-Beginning German	
CHEM 111 Committee Chamist	
CHEM 111—General Chemistr	y I
CHEM 111A—General Chemis	try I Lab
MATH 175-Analytic Geometr	y and Calculus I
PHED-activity course	i
THED activity course	
	15
	Second Semester
ENG 102—Composition II	
	I
CHEM 112 Conord Chamister	.TT
CHEM 112—General Chemistr	y II
CHEM 112A—General Chemist	ry II Lab
MATH 275—Analytic Geometr	v and Calculus II 4
HLTH 150-Personal Health	
ALLE A LOS A COLONIAL ALCANON .	16
CODUCTOR IN . D	10
SOPHOMORE YEAR	
	First Semester
CHEM 223—Quantitative Anal	ysis4
MATH 276-Analytic Geometr	y and Calculus III
DILYCOOL E DI	y and Calculus III
PH 18 231—Engineering Physic	cs I
PHYS 231A—Engineering Physical	sics I Lab
SPCH 110-Basic Speech	
	16
	10

#### Second Semester ENG-literature elective. CHEM-chemistry elective CHEM 350—Inorganic Chemistry I PHYS 232-Engineering Physics II PHYS 232A—Engineering Physics II Lab Social Science elective \*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. Kinectics, 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

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; ther-

modynamics, 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

		em		
GEOS 100—Physical Geology				.1
GEOS 101—Historical Geology				. 3
GEOS 107—Introduction to Geoscience				. 3
GEOS 262-Mineralogy				
GEOS 300—Petrology				
GEOS 315—Stratigraphy and Sedimentation				. 4
GEOS 325—Structural Geology		00		. 5
GEOS 379—Paleontology				
GEOS 400-Field Methods (or Summer Geology Field Camp)				. 3
GEOS-electives approved by advisor				. 3
SCI 471—Seminar				.1
				32

#### Supplemental Requirements

			Se	m.	H	rs.
BIOL 208-Invertebrate Zoology				9741		. 3
CHEM 111—General Chemistry I						.3
CHEM 111A—General Chemistry I Lab	 		19.0			. 1
CHEM 112—General Chemistry II	 					.3
CHEM 112A—General Chemistry II Lab						.1
PHYS 201—Elementary Physics I						
PHYS 201A—Elementary Physics I Lab	 		(0)			. 1
PHYS 202—Elementary Physics II	- 4	+ 10				.3
PHYS 202A—Elementary Physics II Lab	 					.1
MATH-electives approved by advisor						

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
GEOS 107—Introduction to Geoscience
GEOS 250-Minerals & Rocks (OR GEOS 262-Mineralogy)
GEOS 400—Field Methods 3
GEOS 410—Geological History of Plants and Animals
GEOS—electives approved by department head
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

	5	Se	n	1.	F	I	8
ENG 101—Composition I		20					
HLTH 150—Personal Health							5
GEOS 100—Physical Geology							1
GEOS 107—Introduction to Geoscience	100						-
GEOS 107—Introduction to Geoscience MATH 152—College Algebra				100			
Social Science elective	ciel						
PHED—activity course	(10)						1
TIED—activity course	(6)	9.14		*			1
						. ]	16

First Semester

Second Semester	
ENG 102—Composition II	3
GEOS 101—Historical Geology	3
MATH 141—Plane Trigonometry	3
Humanities elective	3
Social Sciences elective	
	15
SOPHOMORE YEAR First Semester	
CHEM 111—General Chemistry I	3
CHEM 111—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
Second Semester	-
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	
GEOS 325—Structural Geology	3
Minor elective Social Science elective	
Social Science elective	16
	10
For a Major in Earth Science	
Requirements	
Requirements	C II
GROS 100 Physical Coulom	Sem. Hrs.
GEOS 100—Physical Geology GEOS 101—Historical Geology	
GEOS 107—Introduction to Geoscience	3
GEOS 250—Minerals and Rocks (OR GEOS 262—Mineralogy)	
GEOS 400—Field Methods (or Summer Geology Field Camp)	
GEOS 410—Geological History of Plants & Animals	
SCI 200—Descriptive Astronomy	3
SCI 471—Seminar	
AGR 211-Soils	3
GEO 390—Weather and Climate	
GEOS—electives approved by advisor	5-6
St. 1 1 . 6	32
Students can also follow the above program to gain teacher co	
	misture and
However, supplemental course work in biology, mathematics, che	mistry, and
However, supplemental course work in biology, mathematics, cher physics is required for certification. Please consult your advisor.	mistry, and
physics is required for certification. Please consult your advisor.	mistry, and
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science	mistry, and
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science	
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements	Sam Hrs
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100-Physical Geology	Sem. Hrs.
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100-Physical Geology GEOS 101-Historical Geology	Sem. Hrs
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100-Physical Geology GEOS 101-Historical Geology GEOS 107-Introduction to Geoscience	Sem. Hrs
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100-Physical Geology GEOS 101-Historical Geology GEOS 107-Introduction to Geoscience GEOS 400-Field Methods (or Summer Geology Field Camp)	Sem. Hrs
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy	Sem. Hrs
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate	Sem. Hrs.
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy	Sem. Hrs.
physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor	Sem. Hrs
Physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program	Sem. Hrs
Physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in	Sem. Hrs
Physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting required.	Sem. Hrs
Physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.	Sem. Hrs
Physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting required.	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major*	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR First Semester	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology	Sem. Hrs
Physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I MATH 152—College Algebra	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I MATH 152—College Algebra PHYS 201—Elementary Physics I	Sem. Hrs
Physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I MATH 152—College Algebra PHYS 201—Elementary Physics I PHYS 201—Elementary Physics I Lab	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I MATH 152—College Algebra PHYS 201—Elementary Physics I	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I MATH 152—College Algebra PHYS 201—Elementary Physics I PHYS 201A—Elementary Physics I Lab Social Sciences elective	Sem. Hrs
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I MATH 152—College Algebra PHYS 201—Elementary Physics I PHYS 201A—Elementary Physics I Lab Social Sciences elective	Sem. Hrs
Physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I MATH 152—College Algebra PHYS 201—Elementary Physics I PHYS 201—Elementary Physics I Lab Social Sciences elective  Second Semester  GEOS 101—Historical Geology ENG 102—Composition II	Sem. Hrs.
Physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I MATH 152—College Algebra PHYS 201—Elementary Physics I PHYS 201A—Elementary Physics I Lab Social Sciences elective  Second Semester  GEOS 101—Historical Geology ENG 102—Composition II MATH 141—Plane Trigonometry	Sem. Hrs.
For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I MATH 152—College Algebra PHYS 201—Elementary Physics I PHYS 201—Elementary Physics I PHYS 201A—Elementary Physics I Lab Social Sciences elective  Second Semester  GEOS 101—Historical Geology ENG 102—Composition II MATH 141—Plane Trigonometry HLTH 150—Personal Health	Sem. Hrs.
Physics is required for certification. Please consult your advisor.  For a Minor in Earth Science Requirements  GEOS 100—Physical Geology GEOS 101—Historical Geology GEOS 107—Introduction to Geoscience GEOS 400—Field Methods (or Summer Geology Field Camp) SCI 200—Descriptive Astronomy GEO 390—Weather & Climate Electives approved by advisor  Suggested Program The following program outline is intended to help students in their course schedules. Close adherence will assist in meeting requigraduation.  Earth Science Major* FRESHMAN YEAR  First Semester  GEOS 100—Physical Geology GEOS 107—Introduction to Geoscience ENG 101—Composition I MATH 152—College Algebra PHYS 201—Elementary Physics I PHYS 201A—Elementary Physics I Lab Social Sciences elective  Second Semester  GEOS 101—Historical Geology ENG 102—Composition II MATH 141—Plane Trigonometry	Sem. Hrs

First Semester	
GEOS 262-Mineralogy	4
SCI 200—Descriptive Astronomy	3
BIOL 208—Invertebrate Zoology	
SPCH 100-Basic Speech	3
Minor elective	3
	16
Second Semester	
AGR 211—Soils	3
Literature elective	

\*If teacher certification is desired, consult your advisor.

### Description of Courses

Minor electives

SOPHOMORE YEAR

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 acies 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 astrogeological setting, its fluid portion, its solid part, its active pro-

cesses, 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 occurence.

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

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, clevage, igneous

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.

16

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

	5	Se	m.	. ]	Hr	S.
PHYS 231—Engineering Physics I						4
PHYS 231A—Engineering Physics I Lab	. *		c.v.			1
PHYS 232—Engineering Physics II						4
PHYS 232A—Engineering Physics II Lab						1
PHYS 332—Electricity and Magnetism	Ċ.					4
PHYS 340—Experimental Physics						3
PHYS 352—Modern Physics						3
PHYS 391—Dynamics			1600			3
PHYS 391—Dynamics PHYS 493—Quantum Mechanics		110				3
PHYS-elective, 400 level, approved by advisor						5
SCI 471—Seminar						
				2.75		12
Complemental Description						-
Supplemental Requirements						
			m.			
CHEM 111—General Chemistry I						3
CHEM 111A—General Chemistry I Lab						1
CHEM 112—General Chemistry II					4.4	3
CHEM 112A—General Chemistry II Lab	*					1
MATH 175-Analytic Geometry and Calculus I	900					4
MATH 275—Analytic Geometry and Calculus II						4
MATH 276—Analytic Geometry and Calculus III	N.					4
MATH-elective, 300-400 level, approved by advisor						3
BIOL-elective approved by advisor						

The above program can be modified for students desiring teacher certification. Please consult your advisor.

### For a Minor in Physics Requirements

			S	en	n.	Н	rs.
PHYS 231—Engineering Physics I*	SW	560					.4
PHYS 231A-Engineering Physics I Laboratory	ev.	000			40		.1
PHYS 232—Engineering Physics II*							.4
PHYS 232A-Engineering Physics II Laboratory							
PHYS-electives, 300-400 level, approved by advisor							
							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					
					Hrs.
CHEM 111-General Chemistry I				 	3
CHEM 111A-General Chemistry I Lab	DE KOKOKOKO			 	1
MATH 175-Analytic Geometry and Calculus I .					
ENG 101—Composition I					
PHED-activity course					. 1
Social Sciences elective					
Social Sciences Sicolary					15
Second Semester					
CHEM 112-General Chemistry II				 	3
CHEM 112A-General Chemistry II Lab					
MATH 275-Analytic Geometry and Calculus II					
ENG 192—Technical Composition					
SCI 105—Introduction to Biological Science				37.7	3
Social Sciences elective					
Doctar Octoboos Glocure				 	17
SOPHOMORE YEAR					
First Semester					
PHYS 231-Engineering Physics I				 	4
PHYS 231A-Engineering Physics I Lab				 	1
MATH 276-Analytic Geometry and Calculus II	I			 	4
Literature elective				 	3
SPCH 110-Basic Speech					
or other participation of the state of the s					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					
PHIL 300-Philosophy of Science					
Social Sciences elective					
AND ASSESSED MARKET CONTRACTOR AND ASSESSED ASSESSED.	1000000	5,5 (5,5)	- (*)		16

First Comeste

### \*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 specialities 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.

First Semester

## Suggested Program for Option I

That Demoster
Sem. Hr
ENG 101—Composition I
MATH 175—Analytic Geometry and Calculus I
CHEM 111—General Chemistry I
CHEM 111A—General Chemistry I Lab
IET 103—Technical Drawing I
HLTH 203-Safety and First Aid
1
Second Semester
ENG 192—Technical Composition
MATH 275—Analytic Geometry and Calculus II
CHEM 112—General Chemistry II
CHEM 112A—General Chemistry II Lab
HIS 141-Introduction to Early American History
1115 111 111110000010110 2013 1111101013
SECOND YEAR
First Semester
MATH 276—Analytic Geometry and Calculus III
HIS 142—Intro. to Recent American History
PHYS 231—Engineering Physics I
PHYS 231A—Engineering Physics I Lab
ECON 201—Principles of Economics I
ECON 201—Frinciples of Economics 1
Second Semester
MATH 363—Differential Equations
PHYS 232—Engineering Physics II
PHYS 232A—Engineering Physics II Lab
ECON 202—Principles of Economics II
PHIL-Introduction to Philosophy
PHIL 303—Social Ethics
MINIMUM TOTAL

Suggested programs of study for Options II and III can be secured from the faculty advisor.

### 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			
CHEM 111—General Chemistry I			
CHEM 111A—General Chemistry I Lab			
MATH 141-Plane Trigonometry			
BIOL 208—Invertebrate Zoology			
PSY 152—General Psychology	20131		
		-	1

Second Semester
ENG 102—Composition II
CHEM 112—General Chemistry II
CHEM 112A—General Chemistry II Lab
MATH 152—College Algebra
BIOL 209—Vertebrate Zoology
BIOL 206—Biological Etymology
HLTH 203—Safety and First Aid
HLTH 205—Safety and First Aid
SECOND YEAR
First Semester
First Semester
SPCH 110—Basic Speech
PHYS 201—Elementary Physics I
PHYS 201A—Elementary Physics I Lab
MATH 175—Analytic Geometry and Calculus I
CHEM 326—Organic Chemistry I
CHEM 326A—Organic Chemistry I Lab
15
Second Semester
PHYS 202—Elementary Physics II
PHYS 202A—Elementary Physics II Lab
MATH 275—Analytic Geometry and Calculus II
CHEM 327—Organic Chemistry II
CHEM 327A—Organic Chemistry II Lab
BIOL 317—Principles of Microbiology
BIOL 317—Frinciples of Microbiology

### **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. (3-2-4); 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. (3-2-4); 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); 1.\* 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. (4-2-5); 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. (4-2-5); 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.

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 preveterinary 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 interfac-

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.

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, Lengendre polynominals, 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; Hermanitan operators and angular momentum; Schrodinger's equation, barriers, wells, harmonics, oscillators, and the hydrogen atom.

#### Science Education

Many science and non-science majors enrolled at the University have not had ample opportunity to develop an 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)	
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 eduaction 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 astrogeological 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

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

I. 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 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)

BIOL 206-Biological Etymology ....

BIOL 317—Principles of Microbiology

BIOL 304-Genetics

١.	The Core (55-55 semester nours)	
	Biology	
	BIOL 208—Invertebrate Zoology	
	BIOL 215—Botany 4	
	Chemistry	
	CHEM 101 or 111—General Chemistry I	
	CHEM 101A or 111A—General Chemistry I Lab	
	CHEM 102 or 112—General Chemistry II	
	CHEM 102A or 112A—General Chemistry II Lab	
	Earth Science	
	GEOS 100-Physical Geology	
	GEOS 107—Introduction to Geoscience	
	GEOS 101—Historical Geology	
	OR	
	GEOS 410-Geological History of Plants & Animals	
	Physics	
	PHYS 201—Elementary Physics I	
	PHYS 201A—Elementary Physics I Lab	
	OR	
	PHYS 231—Engineering Physics I	
	PHYS 231A—Engineering Physics I Lab	
	PHYS 202-Elementary Physics II	
	PHYS 202A—Elementary Physics II Lab	
	OR	
	PHYS 232—Engineering Physics II	
	PHYS 232A—Engineering Physics II Lab	
	Science	
	SCI 592—Science for the Secondary Teacher	
	33-35	
	Choice of Emphasis	
•		
	Biology (31 sem. hrs.)	

BIOL 380—Cell Biology

C.

BIOL 471—Seminar in Biological Sciences
BIOL 561—Ecology
Biology electives (300 level or above)
Elect one of the following:
BIOL 337—Comparative Anatomy
BIOL 338-Vertebrate Embryology
BIOL 550—Plant Anatomy
BIOL 555—Plant Morphology
Elect one of the following:
BIOL 513—Plant Physiology
BIOL 525—Animal Physiology
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).
Mathematics
Students who seek certification with an area of con-
centration in science will be required to complete the
following mathematics requirement:

One course from the following:
MATH 152—College Algebra
MATH 173-Pre-Calculus I
MATH 175—Analytic Geometry and Calculus I
Also one course from the following:
MATH 141—Plane Trigonometry
MATH 174—Pre-Calculus II
MATH 275-Analytic Geometry and Calculus II
MATH 353-Statistics

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
BIOL 208—Invertebrate Zoology
BIOL 209-Vertebrate Zoology
BIOL 215—General Botany
BIOL 304—Genetics
BIOL 317—Principles of Microbiology
BIOL 337—Comparative Anatomy
OR
BIOL 555—Plant Morphology
BIOL 380—Cell Biology
BIOL 471—Seminar in Biological Sciences
Biology field course
Approved biology electives
38
To addition considerated accounts to the state of the state of

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
GEOS 101—Historical Geology
GEOS 107—Introduction to Geoscience
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
SCI 200—Descriptive Astronomy
SCI 471—Seminar
AGR 211—Soils
GEO 390—Weather and Climate
GEOS—electives approved by advisor
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
MATH 275-Analytic Geometry and Calculus II
MATH 471—Seminar
Electives in mathematics above 170,
except Math 231, 232, 252, and 260
Electives in mathematics above 300 as approved by the head of the
Dept. of Mathematical Sciences
DATA 202—Computer Programming BASIC
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	
PHYS 231A—Engineering Physics I Lab.	
PHYS 232—Engineering Physics II	
PHYS 232A—Engineering Physics II Lab	
PHYS 332—Electricity and Magnetism	
PHYS 340—Experimental Physics	
PHYS 352—Modern Physics	
PHYS 391—Dynamics	
PHYS 493—Quantum Mechanics	
SCI 471—Seminar	
Physics electives, 400 level, approved by advisor	
32	

Students who seek certification in physics are also required to complete supplemental courses in mathematics. 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.

MSCI 220. Introduction to Marine Zoology (Zoology 141). (4 hours); III. Prerequisites: eight semester hours of biology, to include general zoology. A general introduction to the marine environment with emphasis on local fauna.

MSCI 322. Marine Botany (Botany 341). (4 hours); III. Prerequisites: 10 hours of biology, including introductory botany. A survey based upon local examples of the principal groups of marine alga and maritime flowering plants, treating structure, reproduction, distribution, identification, and ecology.

treating structure, reproduction, distribution, identification, and ecology.

MSCI 330. Physical Marine Geology (Geology 331). (3 hours); III. Prerequisites: physical and historical geology. Geological processes, sedimentary environments, and geomorphological features of marine coastal, intertidal,

and near-shore zones to be studied.

MSCI 334. Chemical Marine Geol

MSCI 334. Chemical Marine Geology (Geology 332). (3 hours); III. Prerequisites: physical geology, historical geology, mineralogy, analytical chemistry, or permission of instructor. Supervised research on the chemistry of coastal water of Mississippi and chemical aspects of certain shallow and deep water sediments.

MSCI 341. Marine Invertebrate Zoology (Zoology 361). (6 hours); III. Prerequisites: 16 semester hours of zoology. A study of the free-living marine invertebrates, especially those of the Mississippi Sound region. Emphasis is placed on the structure, classification, phylogenetic relationships, and func-

MSCI 342. Marine Vertebrate Zoology and Ichthyology (Zoology 326). (6 hours); III. Prerequisites: 16 semester hours of zoology, including comparative anatomy. A general study of the marine Chordata, including lower groups and

the mammals and birds, with most emphasis on the fishes

MSCI 462. Marine Chemistry (Chemistry 461). (6 hours); III. Prerequisites: 16 hours of chemistry, three to six hours of biology and geology, and consent of instructor. A study of the chemical aspects of the oceans and the interactions of chemistry, biology, and geology in the marine environment.

MSCI 464. Introduction to Physical and Chemical Oceanography (Oceanography 451). (5 hours); III. Prerequisites: algebra and general chemistry. An introductory course covering the fundamental concepts of both

physical and chemical oceanography

MSCI 521. Problems in Advanced Histology (Zoology 401). (3 to 6 hrs.); III. Prerequisites: histology, histologic techniques, and comparative anatomy of invertebrate zoology. Specific research on the histology of marine forms.

MSCI 562. Salt Marsh Plant Ecology (Botany 441). (4 hours); III. Prerequisites: general botany, plant taxonomy, plant physiology, and general ecology, or, preferably, terrestrial plant ecology, or consent of instructor. A course covering the plant ecology of salt marshes, including autecology, synecology, and productivity. Physical, biological, and developmental characteristics of the plant habitat are examined in detail.

MSCI 563. Marine Fisheries Management (Zoology 442). (4 hours); III. Prerequisite: consent of instructor. A general course in fisheries management designed to acquaint students with the philosophy, objectives, problems, and

principles involved in management decisions.

MSCI 564. Introduction to the Behavior and Neurobiology of Marine Animals (Zoology 443). (4 hours); III. Prerequisites: 16 semester hours of zoology and/or psychology and consent of instructor. Survey of the 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 hours); III. Prerequisites: general botany, invertebrate zoology, analytical chemistry. A consideration of the relationships of marine organisms to their environment. The effects of

temperature, salinity, light, nutrient concentration, currents, and food on the abundance and distribution of marine organisms are considered.

MSCI 566. Marine Microbiology (Microbiology 452). (5 hours); III. Prerequisites: general microbiology and consent of instructor. A general course designed to introduce the student to the role of microorganisms in the overall ecology of the oceans and estuaries

MSCI 567. Parasites of Marine Animals (Zoology 461). (6 hours); III. Prerequisites: general parasitology or consent of instructor. A study of parasites of marine invertebrates, fishes, mammals, and birds, with emphasis on mor-

phology, taxonomy, life histories, and host-parasite relationships.

MSCI 568. Marine Aquaculture (Zoology 464). (6 hours); III. Prerequisites: general zoology or invertebrate and vertebrate zoology or permission of in-structor. 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 53l). (3 hours); III. Prerequisite: Zoology 530. Continuation of Zoology 530; includes a study of special techniques and the operation and maintenance of an electron

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 Empl	nasis
Sociology-Minor	
Corrections—Area of Concentration	
Corrections—Minor	
Associate Degree Programs	
Social Work	
Corrections	
Requirements for an Area of Concentry	ation
in the Social Sciences	
A. A minimum of 18 hrs. in history	
B. 12 hours each field in any three:	
B. 12 hours each field in any three: Economics	
B. 12 hours each field in any three:  Economics Geography	
B. 12 hours each field in any three:  Economics Geography Government and Public Affairs Sociology	3
B. 12 hours each field in any three:  Economics Geography Government and Public Affairs Sociology	3
B. 12 hours each field in any three:  Economics Geography Government and Public Affairs	
B. 12 hours each field in any three: Economics Geography Government and Public Affairs Sociology C. 6 hrs. in the fourth field	
B. 12 hours each field in any three:	
B. 12 hours each field in any three:	36 Sem, Hrs
B. 12 hours each field in any three:	Sem, Hrs
B. 12 hours each field in any three:	Sem, Hrs
B. 12 hours each field in any three:	66 Sem, Hrs
B. 12 hours each field in any three:	66 Sem, Hrs
B. 12 hours each field in any three:	Sem, Hrs
B. 12 hours each field in any three:	Sem, Hrs
B. 12 hours each field in any three:	66 Sem, Hrs
B. 12 hours each field in any three:	Sem, Hrs
B. 12 hours each field in any three:	66 Sem, Hrs
B. 12 hours each field in any three:	Sem, Hrs
B. 12 hours each field in any three:	Sem, Hrs
B. 12 hours each field in any three:	Sem, Hrs
B. 12 hours each field in any three:	66 Sem, Hrs
B. 12 hours each field in any three:	66 Sem, Hrs
B. 12 hours each field in any three:	66 Sem, Hrs
B. 12 hours each field in any three:	66 Sem, Hrs

## 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

							s.
GEO 100—Fundamentals of Geography	01	×					3
GEO 101—Physical Geography	65.6	U+:			900		3
GEO 211-Economic Geography							3
GEO 241—Anglo-America							3
GEO—electives in systematic geography		į,	4	1	NO.		9
GEO-electives in regional geography		c	591	e e	1800		9
Minimum for a major			9	. +		. 5	30

### Requirements for a Minor in Geography

	n. 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

OEO 100—Fundamentals of Geography			100		1		Ψ. 0	
ENG-composition				- i	 			
PHED—activity course								
SCI—Physical Science elective								
HIS-general education requirement								
Minor-elective	374			2 2				
								16
Second Semester								
GEO 101-Physical Geography					 			
ENG-composition								
General education requirement								
SCI-biological science								
HLTH 150—Personal Health								
Minor—elective								
Minor—elective			9.9		 100	101		1'
CODUCTORE VE AD								1
SOPHOMORE YEAR								
First Semester								
GEO 211-Economic Geography								
ENG-literature elective								
MATH-general education requirement								
Minor-elective	411		100		 160			
Sociology general education requirement			0.0				* *	
**Electives					 			
								1'
Second Semester								
GEO 241-Anglo-America	9.5				 			
General education requirements								(
Minor-elective								
**Electives								
210001700			0.0					16
JUNIOR YEAR								
First Semester								
GEO-*Elective in regional geography								
GEO-*Elective in systematic geography								
Minor—elective								
**Electives			. 6		10	. 3		
								16
Second Semester								
GEO-*elective in regional geography							4. A	
GEO-*elective in systematic geography								
Minor-elective								;
**Electives								
								10
SENIOR YEAR								
First Semester								
GEO-*advanced elective in systematic geography								
Minor—elective								
**Electives								
Diectives		1000	***			. 4	P . W	10
Conned Comparter								
Second Semester GEO-*advanced elective in regional geography								
GEO-radvanced elective in regional geography	10				+			
**Electives							7.3	
								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 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

Sem. Hrs.

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

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, III. 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, III. 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 set-

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

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); I. 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

GEO 344. Kentucky. (3-0-3); 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); I, 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); II. 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); I. 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); on demand. Natural resources basic to human welfare; emphasis on lands, water, minerals, forests,

Sem. Hrs.

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 considera-

tion 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); II. 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 workstudy 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	
GOVT 242—State and Local Government	
GOVT 330—Parliamentary Democracies	
OR	
GOVT 450—International Relations	
GOVT—elective in international field	
Approved electives in government	
Minimum for a major	30
For a Minor in Government	
	Sem. Hrs.
GOVT 141-Government of the United States	
GOVT 242—State and Local Government	
GOVT 330—Parliamentary Democracies	
OR	1913 1914 1917 1917 1918
GOVT 450—International Relations	
GOVT—elective in international field	
Approved electives in government	9
Minimum for a minor	21
Major in Public Affairs	

### 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

				Hrs.
GOVT 141—Government of the United States				3
GOVT 242—State and Local Government		 		3
GOVT 300—Municipal Government	4.4		13	3
GOVT 540—Public Administration				3
GOVT 541-Public Finance				3
GOVT 546—Public Personnel Administration				3
				18
Electives				18
				36

#### Suggested Electives

ACCT 528-Government Accounting GEO 349-Cartography I GEO 510-Urban Geography GOVT 555-Internship in Public Affairs REC 388-Community Centers and Playgrounds SOC 323-Urban Sociology

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

	oem. mo.
GOVT 141-Government of the United States	3
ENG 101—Composition I	
SCI 103—Intro. to Physical Science	3
HLTH 150—Personal Health	9
DITED	1
PHED-activity	
SOC 101—General Sociology	3
	15
Second Semester	
GOVT 242-State and Local Government	3
ENG 102—Composition II	
SCI 105—Intro. to Biological Sciences	
MATH 152—College Algebra	
ECON 101-Intro. to the American Economy	
FNA 160—Appreciation of the Fine Arts	3
The second of the same second of the second	18
SOPHOMORE YEAR	10
First Semester	
GOVT 330—Parliamentary Democracies	
GOVT—elective	
ENG 202—Intro. to Literature	
Minor	
History elective	
History elective	
	15
Second Semester	
GOVT 343—American Political Parties	3
GOVT 344—Kentucky Government	
Minor	
Minor	
Minor	
- M	15
JUNIOR YEAR	
First Semester	
GOVT 300—Municipal Government	3
Minor	
Minor	
SCI 355-Population, Resources, and Environment	
SPCH 370—Business and Professional Speech	
History elective	
	18
Second Semester	10
GOVT 380—American Courts and Civil Rights	
Minor	
GOVT 348—The Legislative Process	3
PHIL 200—Intro. to Philosophy	3
	William William Control of the Contr

PSY 154—Intro. to Psychology											
Geography elective		 									
											18
SENIOR YEAR											
First Semester											
GOVT 450—International Relations	 30			, 5	0.00				907		. 3
Minor											
GOVT 540-Public Administration		 									. 3
ENG 598-Logical Reasoning for Stand. Tests											
HUM-elective											
Elective											
100	 	 		•		 					18
Second Semester										-	
GOVT 444—The American Constitution											9
Minor											
GOVT 546—Public Personnel Administration		 	•			 ٠	-	* *	* .		. 3
HUM—elective		 						 			. 3
Elective							6.				. 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 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 at-

titudes, 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 develop-

ment, 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

GOVT 335. The Game of Politics. (3-0-3). A practical approach to the understanding of American government.

GOVT 340. Public Opinion and Propagands. (3-0-3); II. The nature, forma-tion, and role of public opinion, techniques, strategies, and effects of propagan-

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

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 435. Modern Asian Governments. (3-0-3); II. Background, development, ideologies, and structure of Asian governments, including Japan, China,

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

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 environmen-

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 ad-

ministration; 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 govern-

### 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

									rs.
HIS 131-Intro. to Civilization I	 	Gen.	 			40	 		 . 3
HIS 132-Intro. to Civilization II	 				 				 . 3
HIS 141-Intro. to Early American History	 		 		 				 . 3
HIS 142-Intro. to Recent American History									
Advanced credit in history									
Minimum for a major									

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

						concentration			
me	ended th	at HIS 3	75 b	e take	en i	the semester	prio	r to	the pro-
fes	sional s	emester.							

#### For a Minor

						S	ei	m.	H	Irs.
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	
HIS 141-Introduction to Early American History	
SOC SCI—elective	
ENG—composition	
General education requirement	
SCI—physical science	
Elective	
	18
Second Semester HIS 132—Introduction to Civilization II	fer a .
OR	
HIS 142-Introduction to Recent American History	
SOC SCI—elective	
ENG—composition	
PHED—activity course	
SCI-biological science	
HLTH 150—Personal Health	
General education requirement	
	18
SOPHOMORE YEAR	
First Semester	
HIS 141—Introduction to Early American History	
HIS 131—Introduction to Civilization I	
Minor	
ENG-literature elective	
MATH-elective	8
EDSE—Foundations of Secondary Education	
Elective	
	17
Second Semester	
HIS 142—Introduction to Recent American HistoryOR	8
HIS 132—Introduction to Civilization II	
HIS—elective	
Minor	3
General education requirement	3
Electives	6
	18
JUNIOR YEAR	
First Semester	
Advanced credit in history	
Minor	6
Electives	
	18
Second Semester	
Principles of Adolescent Development for Secondary Teachers	3
Advanced credit in history	
Minor	
Elective	
CENIOD VEAD	18
SENIOR YEAR	
First Semester The Teaching of Social Studies	
Advanced credit in history	6
Minor	3

Elective	
	18
Second Semester	
Professional semester (student teaching)	
OR	
Electives (if teaching certificate is not desired)	1'

### **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 econoic 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 charateristics.

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 American rustory. (3-0-3); 1. 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). 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. 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); I, II, III. 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. 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 over-

throw 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. 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); I. 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

reenings.

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. Providing 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 chair-

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.

\*6 to 8 credit hours from the following MS courses denoted by an asterisk (\*).

### Requirements for a Military Science Minor

#MS 101—Intro. to Military Science

\*MS 102—U.S. Army

\*MS 111—Basic Rifle Marksmanship

\*MS 201—Leadership Principles and Techniques

\*MS 202—Unstructional Techniques and Survey of Army Career Fields

\*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.

A cumulative grade-point average of 2.3 or higher.

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: (3-24) 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. Study of instructional process with practical experience enabling the student to effectively increase leadership ability; 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, communications, and operations in preparation for Advanced Camp.

MS 302. Advanced Military Science. (2-2-2); II. Application of leadership and management skills to military command and staff responsibilities; preparation for Advanced Camp.

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 understanding and awareness of military operations, their geo-political impact, and the role of the officer/leader in unit administration and readiness.

MS 402. Advanced Military Science. (2-2-2); II. Development of cadet awareness of the United States' position in the contemporary world scene and the Army's role in support of this position, as well as preparation of the cadet for entry on active duty as a commissioned officer.

NS 100. National Security. (1 hr. credit); I. Structured around a series of guest lectures whose subjects concern the establishment and maintenance of our nation's security.

### 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

SOC 101—General Sociology	3
Color Celletal Doctology	
SOC 305—Cultural Anthropology	
SOC 405—Sociological Theory	9
SOC 405—Sociological Theory	
SOC 450—Research Methodology	3
SOC-electives of which 12 sem, hrs. must be on the	
300 level or above	18
	30
	30
Requirements for a Minor in Sociology	
	Sem. Hrs.
SOC 101—General Sociology	9
SOC 203—Contemporary Social Problems	
SOC 405—Sociological Theory	3
COC 450 D	
SOC 450—Research Methodology	3
SOC-electives 300 level or above	9
The state of the s	
	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
ENG 101—Composition I	
SCI 103-Introduction to Physical Sciences	
General education requirement	
*HIS, GEO or GOV general education requirement	
PHED-activity course	16
Second Semester	
SOC 203—Contemporary Social Problems	
ENG 102—Composition II	3
BIOL 105—Introduction to Biological Sciences	
General education requirement	
HIST general education requirement	
	15
SOPHOMORE YEAR	
First Semester	
	Sem. Hrs.
SOC—elective	
SOC—elective HLTH 150—Personal Health	
SOC—elective HLTH 150—Personal Health ENG—literature	
SOC—elective HLTH 150—Personal Health ENG—literature GEO or GOVT general education requirement	
SOC—elective HLTH 150—Personal Health ENG—literature GEO or GOVT general education requirement Minor requirement	
SOC—elective HLTH 150—Personal Health ENG—literature GEO or GOVT general education requirement	
SOC—elective HLTH 150—Personal Health ENG—literature GEO or GOVT general education requirement Minor requirement	
SOC—elective HLTH 150—Personal Health ENG—literature GEO or GOVT general education requirement Minor requirement General elective Second Semester	
SOC—elective HLTH 150—Personal Health ENG—literature GEO or GOVT general education requirement Minor requirement General elective  Second Semester SOC 305—Cultural Anthropology	
SOC—elective HLTH 150—Personal Health ENG—literature GEO or GOVT general education requirement Minor requirement General elective  Second Semester SOC 305—Cultural Anthropology	
SOC—elective HLTH 150—Personal Health ENG—literature GEO or GOVT general education requirement Minor requirement General elective  Second Semester SOC 305—Cultural Anthropology SOC—elective General education requirement	
SOC—elective HLTH 150—Personal Health ENG—literature GEO or GOVT general education requirement Minor requirement General elective  Second Semester SOC 305—Cultural Anthropology SOC—elective General education requirement MATH general education requirement	
SOC—elective HLTH 150—Personal Health ENG—literature GEO or GOVT general education requirement Minor requirement General elective  Second Semester SOC 305—Cultural Anthropology SOC—elective General education requirement	

JUNIOR IEAR				
First Seme	ester			
SOC—elective		 		3
Minor requirements		 		6
Electives		 		7
				16
Second Sem	nester			
SOC-elective		 		3
Minor requirements		 		6
Elective		 		7
				16
SENIOR YEAR				
First Seme	ester			
SOC 405—Sociological Theory		 	220 47474	3
SOC-elective				
Minor requirements and electives		 		.10
				16
Second Sem	postor			

\*Students seeking teacher certification should consult their advisors.

### Requirements for a Major in Sociology with an Emphasis in Corrections

SOC 450-Research Methodology

Minor requirements and electives .

Sem. Hrs.

	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		
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

HINIOD VEAD

THEOTIMAN TEAM	
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	
PHED-activity course	
	16
Second Semester	10
SOC 203—Contemporary Social Problems	0
ENG 102—Composition II	
BIOL 105-Introduction to Biological Sciences	
General education requirement	3
GEO or GOVT general education requirement	
General elective	1
	16
SOPHOMORE YEAR	
First Semester	
COR 201-Sociology of Corrections	3
ENG-literature elective	
HLTH 150—Personal Health	
General education requirement	
Minor requirement	
General elective	
General elective	
0 10	16
Second Semester	
SOC 354—The Individual and Society General education requirements	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	
Second and the second s	

General electives and minor requirements	General education requirement
Second Semester	PHIL 200—Introduction to Philosophy SCI 103—Introduction to Physical Sciences
COR—elective	General elective
General electives and minor requirements	
16	Second Semester
SENIOR YEAR	SWK 322—Human Behavior in the Social Environment
First Semester	GOVT 242—State and Local Government
SOC 405—Sociological Theory	SOC 305—Cultural Anthropology
General electives and minor requirements	SPCH 110—Basic Speech General elective
Second Semester	General elective
COR 420—Seminar in Criminal Behavior	JUNIOR YEAR
COR 590—Practicum in Corrections	First Semester
SOC 450—Research Methodology	SWK 325—Social Work Practice I
General electives and minor requirements	SOC 374—American Minority Relations
16	PSY 390—Psychology of Personality
Social Work	OR PSY 590—Abnormal Psychology
Social work is a helping people profession. At MSU, the	SWK—elective
social work program is a professional training program that	General elective
prepares students for entry level professional social work	
practice. The program has baccalaureate level professional	Second Semester
education accreditation in the Council on Social Work Educa-	SWK 425—Social Work Practice II
tion.	SOC 354—The Individual and Society
Maria de la compacta del compacta de la compacta de la compacta del compacta de la compacta del la compacta del la compacta de la compacta del la compacta de la compacta d	SOC 405—Sociological Theory GOVT 380—American Courts and Civil Rights
Requirements for the Bachelor of Social Work	SWK 450—Research Methodology
Sem. Hrs.	General elective
SWK 210—Orientation to Social Welfare	18
SWK 230—Social Work Values and Policy	SENIOR YEAR
SWK 322—Human Behavior in the Social Environment	First Semester
SWK 325—Social Work Practice I	SWK 525—Social Work Practice III
SWK 450—Research Methodology	SWK 510—Practicum in Social Work SWK 530—Social Policy and Planning
SWK 490—Research Methodology SWK 490—Senior Seminar	General electives
SWK 510—Practicum in Social Work	16
SWK 525—Social Work Practice III	Second Semester
SWK 530—Social Policy and Planning	SWK 510—Practicum in Social Work
SWK-electives	SWK 490—Senior Seminar
SOC 101—General Sociology	ENG 591 or 592—Technical Writing
SOC 203—Contemporary Social Problems	SWK-electives
SOC 305—Cultural Anthropology	General electives
SOC 374—American Minority Relations	
SOC 405—Sociological Theory	Requirements for the Associate of Applied Arts
ENG 591 or 592—Technical Writing	in Social Work
ECON 101—Introduction to the American Economy	Sem. Hrs
GOVT 380—American Courts and Civil Rights	SWK 210—Orientation to Social Welfare
PHIL 200—Introduction to Philosophy 3 PSY 154—Life-Oriented General Psychology 3	SWK 230—Social Work Values and Policy
PSY 390—Psychology of Personality	SWK 310—Field Experience in Social Work
OR	SWK 315—Child Welfare Services
PSY 590—Abnormal Psychology	SWK 322—Human Behavior in the Social Environment SWK 325—Social Work Practice I
General education requirements and electives	SOC 101—General Sociology
128	SOC 203—Contemporary Social Problems
Suggested Sequence of Courses for a BSW Degree	SOC 354—The Individual and Society
The following program has been devised to help students in selecting	ECON 101—Introduction to the American Economy
courses and arranging their schedules. Close adherence to it will aid the stu-	ENG 101—Composition I
dent in meeting requirements for graduation.	ENG 102—Composition
FRESHMAN YEAR	OR
First Semester	ENG 192—Technical Composition
Sem. Hrs.	GOVT 242—State and Local Government
SOC 101—General Sociology	PSY 154—Life-Oriented General Psychology
ENG 101—Composition I	HLTH 150—Personal Health
BIOL 105—Introduction to Biological Sciences 3 PSY 154—Life-Oriented General Psychology 3	MATH—elective
HLTH 150—Personal Health 2	Approved electives
PHED—activity course	65
15	Corrections
Second Semester	Corrections is a field providing challenging opportunities
SWK 210—Orientation to Social Welfare4	for those desiring a career focused upon the treatment and
SOC 203—Contemporary Social Problems	rehabilitation of criminal offenders. The corrections program
ENG 102—Composition II	at Morehead State University is designed to provide well-
ECON 101—Introduction to the American Economy 3 General elective 3	
General elective	trained, highly skilled personnel to fill new positions and to
SOPHOMORE YEAR	provide retraining and in-service training for existing correc-
First Semester	tional personnel.
SWK 230—Social Work Values and Policy	The program of study combines the liberal arts, social
ENG 202—Introduction to Literature 3	sciences, and corrections philosophies and principles of prac-

tice.	In	addition	to p	articipati	ng in	traditional	classroom
learn	ing	situation	is, st	udents ar	e requ	nired to work	k in correc-
tiona	l se	ettings so	that	they may	acqu	ire practical	experience
in th	e pi	rofession.					

### Requirements for an Area of Concentration in Corrections

							S	em	. H	rs
COR 201-Sociology of Corrections		600								
COR 320-Probation and Parole										
COR 420-Seminar in Criminal Behavior										
COR 450-Research Methodology		180	10.0	1075	200	-	2.0	200		
COR 510-Law of Corrections										
COR 515—Correctional Counseling Services										
COR 590—Practicum in Corrections										
COR—advanced electives										
SOC 101—General Sociology										
SOC 203—Contemporary Social Problems				*	*		0.00	4 4		. 1
SOC 205—Contemporary Social Problems	1 200	9.00	2. 7	***	1	•	900		***	
SOC 354—The Individual and Society										
SOC 374—American Minority Relations										
SOC 405—Sociological Theory										
SOC—advanced electives										
GOVT 540—Public Administration	1010		1.1		1		10		53.5	ાં
SWK 535—Group Dynamics										
ENG 591 or 592—Technical Writing		4.2			16		22			. :
PSY 154—Life-Oriented General Psychology										
OR										
PSY 155—Science-Oriented General Psychology										. 1
PSY 590—Abnormal Psychology					(6)	200				. :
General requirements and electives					100					56
										28
Suggested Program										
Suggested Frogram										

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

First Semester		
Sem		
SOC 101—General Sociology		3
ENG 101—Composition I		
SCI 103—Introduction to Physical Science		
General education requirement		
HIS general education requirement		
PHED—activity course		
THE WORTH COMISC.	1	
Second Semester		v
Second Semester COR 201—Sociology of Corrections		0
SOC 203—Contemporary Social Problems		0
ENG 102—Composition II		
BYOY 107 John John Dieler 107	exert!	o
BIOL 105—Introduction to Biological Science	1023	3
GEO or GOVT general education requirement		
	1	5
SOPHOMORE YEAR		
First Semester		
SOC 354—The Individual and Society		3
PSY 154—Life-Oriented Psychology		
OR		
PSY 155—Science-Oriented Psychology	5050 A	3
ENG 202—Introduction to Literature	eva i	3
General education requirement		6
Second Semester	1	5
Second Semester		
COR 320—Probation and Parole	9	3
SOC 374—American Minority Relations	2 7 2 1	3
Corrections elective		
Sociology elective		
General education requirement		
Deneral education requirement	1	
JUNIOR YEAR	1.	U
First Semester Corrections elective		0
Jorrections elective		3
Sociology elective		
General education requirements		
General elective	ere d	3
Property of the second	1	5
Second Semester		
OR 510—Law of Corrections		3
SOC 405—Sociological Theory		3
GOVT 540—Public Administration	1	3

And the second s	
Corrections elective	
General education requirement	
	18
SENIOR YEAR	
First Semester	
COR 450—Research Methodology	
COR 515—Correctional Counseling Services	
SWK 535—Group Dynamics	
ENG 591 or 592—Technical Writing	to control
Consolidation and in the control of	
General education requirements	18
0 10	18
Second Semester	7/1
COR 420—Seminar in Criminal Behavior	
COR 590—Practicum in Corrections	(
PSY 590—Abnormal Psychology	
Corrections elective	
Social Science elective	
	18
T 16: 1 C .:	
For a Minor in Corrections  COR 201—Sociology of Corrections	
Se	m. Hrs
COR 201—Sociology of Corrections	8
COR 320—Probation and Parole	
COR 420—Seminar in Criminal Behavior	
	4.0
Advanced electives in corrections	
Advanced electives in corrections	
	21
Requirements for an Associate of Applied Arts	
Requirements for an Associate of Applied Arts	
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program	21
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program	m. Hrs
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Second 201—Sociology of Corrections	21 m. Hrs
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  COR 201—Sociology of Corrections COR 320—Probation and Parole	m. Hrs
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Second 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections	m. Hrs
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Second 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior	21 m. Hrs
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secon 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives	m. Hrs
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secon 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology	21 m. Hrs 
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secon 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems	21 m. Hrs 
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secon 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology	21 m. Hrs 
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secon 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems	21 m. Hrs 3 3 3 9
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Second 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations	21 m. Hrs 3 3 3 9 3
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secord 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations SWK 210—Orientation to Social Welfare	21 om. Hrs 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secord 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations SWK 210—Orientation to Social Welfare SWK 315—Child Welfare Services	21 m. Hrs 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secord 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations SWK 210—Orientation to Social Welfare SWK 315—Child Welfare Services GOVT 380—American Courts and Civil Rights	21 m. Hrs 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secord 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations SWK 210—Orientation to Social Welfare SWK 315—Child Welfare Services GOVT 380—American Courts and Civil Rights PSY 154—Life-Oriented Psychology	21 m. Hrs 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secord 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations SWK 210—Orientation to Social Welfare SWK 315—Child Welfare Services GOVT 380—American Courts and Civil Rights PSY 154—Life-Oriented Psychology OR	21 m. Hrs 3 3 3 3 3 3 3 4 4 3
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secord 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations SWK 210—Orientation to Social Welfare SWK 315—Child Welfare Services GOVT 380—American Courts and Civil Rights PSY 154—Life-Oriented Psychology OR PSY 155—Science-Oriented Psychology	21 m. Hrs 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secord 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations SWK 210—Orientation to Social Welfare SWK 315—Child Welfare Services GOVT 380—American Courts and Civil Rights PSY 154—Life-Oriented Psychology OR PSY 155—Science-Oriented Psychology ENG 101—Composition I	21 em. Hrs 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Secord 201—Sociology of Corrections COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations SWK 210—Orientation to Social Welfare SWK 315—Child Welfare Services GOVT 380—American Courts and Civil Rights PSY 154—Life-Oriented Psychology OR PSY 155—Science-Oriented Psychology ENG 101—Composition I ENG 102—Composition II	21 em. Hrs 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Second 201—Sociology of Corrections COR 320—Probation and Parole COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations SWK 210—Orientation to Social Welfare SWK 315—Child Welfare Services GOVT 380—American Courts and Civil Rights PSY 154—Life-Oriented Psychology OR PSY 155—Science-Oriented Psychology ENG 101—Composition I ENG 102—Composition II ENG 192—Technical Composition	21 mm. Hrss 3 8 8 9 9 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9
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Requirements for an Associate of Applied Arts in Corrections—Two-Year Program  Second 201—Sociology of Corrections COR 320—Probation and Parole COR 320—Probation and Parole COR 390—Field Experience in Corrections COR 420—Seminar in Criminal Behavior Advanced corrections electives SOC 101—General Sociology SOC 203—Contemporary Social Problems SOC 354—The Individual and Society SOC 374—American Minority Relations SWK 210—Orientation to Social Welfare SWK 315—Child Welfare Services GOVT 380—American Courts and Civil Rights PSY 154—Life-Oriented Psychology OR PSY 155—Science-Oriented Psychology ENG 101—Composition I ENG 102—Composition II ENG 192—Technical Composition	21 mm. Hrss 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

### **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. An introduction with

special emphasis on man's biological and cultural development.

SOC 306. Juvenile Delinquency. (3-0-3); I, II. The extent, ecological distribution, and theories of delinquency in contemporary American socitey, including a critical examination of trends and methods of treatment of delinquency.

SOC 310. The Sociology of Deviance. (3-0-3); II. Designed to introduce the student to the sociological perspective with respect to the definition, courses,

and social consequences of deviance.

SOC 312. Sociology of Sports. (3-0-3); II. 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

SOC 354. The Individual and Society. (3-0-3); I, II. The influence of group processes on individual behavior. Topics covered include personality forma-

tion 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, II. (See HIS 375.)(Does

not count in the major or minor.)

SOC 376. Industrial Sociology.(3-0-3); on demand Modern industrialization as social behavor. 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); I. 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. Arranged with the depart-

ment 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 perpective 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, II,. 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; the planned and unplanned social change.

SOC 540. Gerontology. (3-0-3); I. (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 infuence 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, III. 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 sup-

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. 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, III. 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

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 process that affect the development and functioning of all types of groups.

SWK 540. Gerontology. (3-0-3); I 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, and 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); I, II. (See SOC 306.) COR 310. The Sociology of Deviance. (3-0-3); II. (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); I. (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. Arranged with the department to study some particular aspect of the field of corrections.

COR 510. Law of Corrections. (3-0-3); II. 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 Services.(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 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 Polytophia Institute and State II. institute and State II.

technic Institute and State University Daniel Kirkland, associate professor (1980), Ph.D., Auburn University

Damiel Kirkland, associate professor (1980), Ph.D., Auburn University James C. Martin, associate professor (1975), Ph.D., University of Missouri Martha Norris, assistant professor (1976), Ed.S., Morehead State University

Judith Willard, assistant 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 Sheryl Luchtefeld, instructor (1980), B.S.N., Southern Illinois University Betty M. Porter, assistant professor (1971), Ed.S., Morehead State University

Pauline Ramey, assistant professor (1973), M.H.E., Morehead State University

Rosemary Stokes, instructor (1976), R.N., Mercy Hospital School of Nursing

Elizabeth Tapp, assistant professor (1972), M.A.C.E., Morehead State University

Pamela Thompson, assistant professor (1975), M.S.N., Medical College of Georgia

Department of Home Economics

Eena J. Adams, R.D., assistant professor (1976), M.S., Kansas State University

Charlotte M. Bennett, professor (1974), Ed.D., Indiana University Feledra Dixon, assistant professor (1977), M.S., Eastern Kentucky University

Nancy Graham, R.D., assistant professor (1975), M.S., University of Kentucky

Floy R. Patton, assistant professor (1967), M.S., University of Kentucky Marcia R. Shields, assistant professor (1973), M.A., Morehead State University

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

Jerry E. Bell, instructor (1980), M.A., Appalachian State University 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, adjunct 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

Russell S. Shelton, instructor (1978), M.S., Morehead State University Ronald Sutliff, instructor (1978), M.S., University of Michigan Ronald Tucker, associate 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 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 Adrianne Slaymaker, assistant professor (1980), M.B.A., Indiana University

Larry Stephenson, assistant professor (1967), M.A., Morehead State University

Gary L. Van Meter, assistant 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 Ernest E. Hinson, associate professor (1967), A.M., George Peabody College

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), 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 Bernard Davis, professor (1978), Ph.D., University of Kentucky Michael Hartford, chairholder and assistant professor of Real Estate (1981), J.D., Wake Forest University

Daniel Lockhart, assistant professor (1981), M.B.A., West Virginia University

Kathy Lockhart, assistant professor (1981), M.A., Radford 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, assistant professor (1979), Ph.D., University of North Dakota

William 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

Sherman Arnett, assistant professor (1972), M.A., Morehead State University

Diane Cox, instructor (1978), Ed.S., Morehead State University Gretta Duncan, assistant professor (1968), A.M., Morehead State

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

William Hampton, professor (1959), Ed.D., University of Kentucky Katherine Herzog, assistant professor (1979), Ed.D., Florida State Noah Logan, associate professor (1966), Ed.D., University of Missouri 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, instructor (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

Mary Morehead State 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 George E. Troutt, Jr., professor (1976), Ph.D., University of Connecticut Patricia Watts, adjunct professor (1970), M.H.E., Morehead State University

Randall Wells, professor (1968), Ph.D., Union Graduate School 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

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

Robert M. Wells, assistant professor (1966), M.A., Morehead State University

Larry Wilson, adjunct professor (1968), M.A., Morehead State University

Steven C. Loney, head football coach (1979), M.A., Iowa State University Wayne Martin, head basketball coach (1978), M.A., Morehead State University

### Department of Leadership/Foundations

Reedus Back, professor (1962), Ed.D., University of Kentucky C.J. Bailey, visiting instructor (1971), M.A.C.E., Morehead State University

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

Richard Daniel, associate professor (1976), Ed.D., North Carolina State University

J. Michael Davis, professor (1979), Ed.D., University of Miami Paul F. Davis, professor (1966), Ed.D., Indiana University 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 Gerald L. Noblitt, associate professor (1980), Ph.D., Purdue University Morris L. Norfleet, professor (1962), Ph.D., Purdue University Dean Owen, assistant 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 David C. Rand, associate professor (1980), Ph.D., Purdue University 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 Michael Politano, assistant professor (1980), Ph.D., Indiana 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

Sharon V. Wolf, assistant professor (1980), Ph.D., Duke University

#### University Breckinridge School

Suzanne Bauer, instructor (1978), M.A., Central Community State College Shirley Blair, assistant professor (1970), A.M., Morehead State University Margaret K. Burdette, instructor (1980), M.A., Marshall University Larry Dales, assistant professor (1967), A.M., Brigham Young University Dienzel Dennis, assistant professor (1966), A.M., Eastern Kentucky

Joy Dennis, assistant professor (1966), A.M., Morehead State University Matthew Dillon, instructor (1979), B.S., Morehead State University Kay Freeland, instructor (1977), M.S., University of Wisconsin Karen Hammons, instructor (1972), M.A.C.E., Morehead State University Coleene Hampton, instructor (1973), A.M., Morehead State University Bernice Howell, instructor (1972), A.M., Morehead State University Lois Huang, assistant professor (1969), A.M., University of Michigan Dan Lindsey, instructor (1978), A.M., Morehead State University Jessie Mangrum, assistant professor (1968), A.M., Morehead State University

Hazel Martin, instructor (1965), M.A., Miami University Dreama Price, assistant professor (1974), M.A., Morehead State University James D. Reeder, assistant professor (1968), A.M., Morehead State University

Gail Russell, assistant instructor (1978), B.S., Morehead State University Joyce Saxon, assistant professor (1964), A.M., Morehead State University Sue Wells, assistant professor (1968), A.M., Morehead State University Charles B. Whitfield, assistant professor (1980), Ed.D., Texas Tech University

### **School of Humanities**

### Department of Art

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#### Department of Military Science

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Margaret Stone, librarian IV (1965), M.S.L.S., University of Kentucky
Molly Templeton, librarian III (1971), M.A., Morehead State University
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Office of Instructional Systems

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Woodrow W. Barber, associate professor of biology
Thelma Bell, professor of home economics
M. Adele Berrian, professor of psychology Patti V. Bolin, associate professor of home economics Leonard Burkett, professor of education Thelma Caudill, associate professor of education 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

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## Abbreviations (Course Prefixes)

ACCT AGR Accounting Agriculture ART Art Biology BSED **Business Education** COMM Communications COR Corrections DATA ECON Data Processing **Economics** EDAC Adult and Continuing Education EDAD **Education Administration** EDEC Early Childhood Education EDEL Elementary Education **EDGC** Guidance and Counseling EDHE Higher Education EDSE Secondary Education EDSP Special Education EDUC Professional Education English ENG FIN Finance Fine Arts FNA FRN French GEO Geography GOVT HEC Government and Public Affairs Home Economics HIS History HLTH Health Industrial Education Technology IET **JOUR** LSIM Library Science and Instructional Media MATH Mathematics MKT Marketing MNGT Management MSCI Marine Science Marine Science
Music Conducting
Music Education
Class Applied Music
Music History & Literature
Private Applied Music
Music Theory
Music Research
Philosophy
Physical Education
Psychology
Recreation MUSC MUSE MUSG MUSH MUSP MUST MUSW PHIL PHED PSY Recreation Radio-Television REC R-TV SCI Science SOC Sociology SPA Spanish SPCH Speech SWK Social Work THEA Theatre

Vocational Education

VOC

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# Academic Calendar

1981		Fall Semester
		Registration
August		Classes begin at 8 a.m. on MWF schedule.
August		Last day to register for a full load.
September		Labor Day holiday (no classes or office hours.)
September		Class work resumes at 8 a.m. Last day to register for credit.
October		Mid-term grade reports due in Registrar's Office.
November	9	Students who drop courses after this date will automatically receive a
		mark of "E" in the courses dropped.
November 16		Pre-registration for spring 1982.
November		Thanksgiving holiday begins at 11:20 a.m.
November		Class work resumes at 8 a.m.
December 14	177.00	Examinations.
December	19	First semester closes at noon.
1982		Spring Semester
January 11	-13	Registration.
January	14	Classes begin at 8 a.m. on MWF schedule.
January		Last day to register for a full load.
January	25	Last day to register for credit.
February		Washington's Birthday holiday (no classes or office hours).
February		Class work resumes at 8 a.m.
March	5	Mid-term grade reports due in Registrar's Office.
March 6		Spring vacation (no classes or office hours).
March		Class work resumes at 8 a.m. on MWF schedule.
March		Founders Day (10:20 and 11:30 classes dismissed).
March		Students who drop courses after this date will automatically receive a
A		mark of "E" in the courses dropped.
April		Good Friday holiday (no classes or office hours).
April		Class work resumes at 8 a.m.
No. of the second		Pre-registration for fall 1982.
7.05.4		Examinations.
May		Spring commencement.
May	15	Second semester closes at noon.
1000		
1982		Summer Session I
June		Registration of all students.
June		Classes begin at 8 a.m.
June		Last day to register for classes beginning June 2.
June	9	Last day to drop classes. Students who drop classes after this date automatically receive grades of "E" in classes dropped.
June	30	Summer Session I ends. All grades due in the Registrar's Office.
1982		Summer Session II
July	6	Registration of all students.
July		Classes begin at 8 a.m.
July		Last day to register for classes beginning July 6.
July		Last day to drop classes. Students who drop classes after this date
	1 4 X &	automatically receive grades of "E" in classes dropped.
August	6	Summer commencement. Summer Session II ends.
August		All grades due in the Registrar's Office.

