



Undergraduate
Catalog 1978-79

MOREHEAD STATE UNIVERSITY

MSU ARCHIVES

MOREHEAD STATE UNIVERSITY

**Undergraduate Catalog
1978-79**

**Morehead State University
Morehead, Kentucky 40351
UNDERGRADUATE CATALOG
1978-79**

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**Volume 43
August, 1978**

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.

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.

It is the policy of Morehead State University not to 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.

This catalog was prepared by Morehead State University and printed with state funds KRS 57.375.

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ABBREVIATIONS (Course Prefixes)

ACCT	Accounting
AGR	Agriculture
ALH	Allied Health
ART	Art
BIOL	Biology
BSAD	Business Administration
BSED	Business Education
CON	Construction Technology
CHEM	Chemistry
COMM	Communications
COR	Corrections
ECON	Economics
EDAC	Adult and Continuing Education
EDEC	Early Childhood Education
EDEL	Elementary Education
EDGC	Guidance and Counseling
EDHE	Higher Education
EDSE	Secondary Education
EDSP	Special Education
ENG	English
FNA	Fine Arts
FRN	French
GEO	Geography
GEOS	Geoscience
GER	German
GOVT	Government and Public Affairs
HEC	Home Economics
HIS	History
HLTH	Health
HUM	Humanities
IET	Industrial Education Technology
JOUR	Journalism
LAT	Latin
LSIM	Library Science and Instructional Media
MATH	Mathematics
MIN	Mining Technology
MUS	Music
NUR	Nursing
PHED	Physical Education
PHIL	Philosophy
PHYS	Physics
PSY	Psychology
RAD	Radiologic Technology
RCL	Reclamation Technology
REC	Recreation
REL	Religion
R-TV	Radio-Television
RUS	Russian
SCI	Science
SOC	Sociology
SPA	Spanish
SPCH	Speech
SWK	Social Work
THEA	Theatre
VOC	Vocational Education
WEL	Welding Technology

ACADEMIC CALENDAR 1978-79

Fall Semester

August 21	Freshman and transfer student orientation Registration of seniors and graduate students Registration of juniors and sophomores
August 22	Registration of juniors and sophomores Registration of freshmen
August 23	Registration of freshmen
August 24	Classes begin at 8:00 a.m.
August 25	MWF classes meet
August 25-28	Registration (late)
September 4	Labor Day (Holiday) (No classes or office hours)
September 5	Class work resumes at 8:00 a.m. Last day to register for a full load
September 8	Last day to register for credit
October 23	Mid-term grade reports due in Registrar's Office Second 9 weeks classes begin
October 30	Students who drop courses after this date will automatically receive a mark of "E" in the courses dropped.
November 22	Thanksgiving (Holiday) begins at 11:20 a.m.
November 27	Class work resumes at 8:00 a.m.
December 16	Fall semester closes at noon

Spring Semester

January 8	Freshman and transfer student orientation Registration of seniors and graduate students Registration of juniors and sophomores
January 9	Registration of juniors and sophomores Registration of freshmen
January 10	Registration of freshmen
January 11	Classes begin at 8:00 a.m.
January 12	MWF classes meet
January 22	Last day to register for a full load
January 26	Last day to register for credit
February 19	Washington's Birthday (Holiday) (No classes or office hours)
January 20	Class work resumes at 8:00 a.m.
March 9	Mid-term grade reports due in Registrar's Office
March 10-18	Spring Vacation begins at noon
March 19	Class work resumes at 8:00 a.m. MWF classes meet Second 9 weeks classes begin
March 27	Students who drop courses after this date will automatically receive a mark of "E" in the courses dropped
April 13	Good Friday Holiday begins with the close of classes on Thursday, April 12
April 16	Class work resumes at 8:00 a.m.
May 11	Commencement
May 12	Second semester closes at noon

Intersession—1979

May 14	Registration 8:00 a.m.-noon Classes begin at 12:40 p.m. Late registration 6:00 p.m.-8:00 p.m. (Registration will be held in the Multi-Purpose Room of the Laughlin Health Building)
May 25	Intersession ends. All grades due in the Registrar's Office.

1979 Summer Session I

May 29	Registration of all students according to the schedule. (Registration will be held in the Multi-Purpose Room of the Laughlin Health Building.)
May 30	Classes* begin at 8:00 a.m.
June 1	Last day to register for classes beginning on May 30.
June 13	Last day to drop classes. Students who drop classes after this date automatically receive grades of "E" in classes dropped.
June 29	Summer Session I ends. All grades due in the Registrar's Office.

1979 Summer Session II

July 2	Registration of all students according to the schedule. (Registration will be held in the Multi-Purpose Room of the Laughlin Health Building.)
July 3	Classes* begin at 8:00 a.m.
July 4	Independence Day (Holiday) (No classes and all offices closed)
July 9	Last day to register for classes beginning on July 3.
July 17	Last day to drop classes. Students who drop classes after this date automatically receive grades of "E" in classes dropped.
August 3	Summer commencement Summer Session II ends
August 6	All grades due in the Registrar's Office

**All summer session I and summer session II classes will meet one hour and fifty minutes unless otherwise indicated.*

GENERAL INFORMATION

Purposes

We believe that the University must structure a community of students, teachers, and administrators in which all elements function for the sake of scholarship and in which no one element serves only itself.

We believe that the University must develop an environment in which knowledge may be discovered and integrated for civic, regional, national, and international concerns of social significance — or even for no reason at all except the excitement of free inquiry.

We believe that the University must provide opportunity for the individual student to recognize his potentialities and to acquire self-discipline necessary for their realization.

We believe that the interaction of students committed to meaningful learning with a faculty committed to excellence of teaching promote an atmosphere in which the student will be challenged to encounter the values, ideas, and tangible aspects of the universe. We believe that the University has a special obligation to serve the people of Eastern Kentucky and a general obligation to serve all citizens of the Commonwealth.

We believe that to achieve its purposes, the University must respond flexibly to the needs of the present without spurning the achievements and values of the past or overlooking the promises 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
Teacher Aide

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
Laboratory Technology

Bachelor of Arts

Bachelor of Business Administration Degree

Bachelor of Music Degree

Bachelor of Music Education Degree

Bachelor of Science Degree

Bachelor of Social Work

Bachelor of University Studies

Bachelor's Degree Requirements

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

I. Communications and Humanities 18 hours

- A. A total of 9 hours in composition and literature
- B. A total of 9 hours to be selected from at least 2 of the following 6 fields. (This means that no more than 6 hours in any one field will apply to the general education requirements)

(1) Communication Arts

- (a) Journalism
- (b) R-TV
- (c) Speech
- (d) Theatre

(2) Fine Arts

- (a) Art
- (b) Fine Arts
- (c) Music

(3) Foreign Languages

(4) Literature (limited to 3 hours)

(5) Philosophy

(6) Religious Studies

II. Sciences and Mathematics 12 hours

- A. 3 hours in Physical Science (Chemistry, Geosciences, Physics, or related courses)
- B. 3 hours in a Biological Science (Biology or related courses)
- C. 3 hours in Mathematics
- D. 3 hours of elective credit from Science or Mathematics

III. Social Sciences and Economics 12 hours

A total of 12 hours from at least 2 of the following departments. (This means that no more than 6 hours in any one department will apply to the General Education requirement.)

- (1) Economics
- (2) Geography
- (3) History
- (4) Government and Public Affairs
- (5) Sociology, Social Work, and Corrections

IV. Health and Physical Education 4 hours

- A. 2 hours in Health
- B. 2 hours in Physical Education activity courses

Bachelor's Degree General Requirements:

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

Bachelor of Science Degree Specific Requirements:

To qualify for the Bachelor of Science degree the student must earn credit for a minimum of 60 semester hours in a combination of the following areas: agriculture, biology, business, chemistry, economics, geoscience, home economics, industrial education, library science, mathematics, military science, and physics.

Bachelor of University Studies Degree

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

Specific Requirements:

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

Associate Degree Requirements:

1. Successful completion of a prescribed program.
2. An average standing of "C" or higher on all work completed at Morehead.
3. A minimum of 64 hours with 16 hours of credit earned in residence at Morehead including one semester immediately preceding graduation at this institution.

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.

REQUIREMENTS

The student will select courses from the following general areas:

Math and Sciences	6 hours
Humanities (3 hours must be in English Composition)	9 hours
Social Sciences	6 hours
Health, Physical Education and Recreation	2 hours
TOTAL	23 hours

The remaining 41 hours needed to complete the Associate of Arts Degree in University Studies are selected by the student in consultation with his academic adviser.

One-Year Certificate Requirements:

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

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

Academic Regulations

Check Sheets

A student's official check sheet is his 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. Student secures an unofficial transcript of his record from the Registrar's Office.
2. Student presents this transcript to his adviser with the request that official area/major/minor forms be prepared for him. 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 the student and forward copies to him and to his school dean.
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's requirements for this degree. Students transferring to Morehead 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. The student should also present an official transcript of the credits he wishes to transfer, an official catalog or bulletin from the institution from which he wishes to transfer credits, and any additional information or materials which may aid in the validation of his 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 on 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 that a full-time student may carry each semester is 12 hours; the maximum amount is 17 semester hours except as follows:

A student may schedule a maximum of 18 semester hours with the permission of the Vice President for Academic Affairs; a student who has earned a quality-point standing of 3.25 during the previous term may schedule not to exceed 19 semester hours with the permission of the Vice President for Academic

Affairs; a student who has earned a quality-point standing of 3.35 during the previous term may schedule not to exceed 20 semester hours with the permission of the Vice President for Academic Affairs; and a student who has earned a quality-point standing of 3.5 with no mark below B during the previous year may schedule not to exceed 21 semester hours with the permission of the Vice President for Academic Affairs.

An exception may be made to the regulations stated in the preceding paragraph when, in the senior year, a student needs not more than three semester hours in excess of his regular load to graduate. In this case, the student may be permitted to take, during the year, not to exceed three semester hours more than his standing would normally permit, provided that the total load is not greater than 21 semester hours during any one semester.

All students may register for a maximum of four semester hours during the Intercession and 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 he has 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 thirty 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 filing out an application in the office of the dean of their first major. The purpose of the system is to broaden their education by undertaking intellectual exploration in elective courses outside their area of specialization without having to engage in grade competition with students specializing in those courses.

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

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

For further information concerning the pass-fail grading system and how to make application for this system, please contact the dean of your school or the Vice-President for Academic Affairs.

Auditing courses

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

A student may change his 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.

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. The fee for undergraduate extension courses is \$20 for each semester hour of credit. The fee for graduate extension courses is \$31 for each semester hour of credit.

Correspondence Courses

Morehead State University also offers undergraduate courses by correspondence. The fee for this work is \$20 a semester hour. Enrollment regulations and materials may be secured by writing the Correspondence Section, Bureau of Academic Affairs.

Scholarship Points

The mark of "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 Public Affairs.

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 standing of 3.4 for the term involved.

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

If a student finds himself with problems concerning academic difficulties including dropping courses, excuses from classes, class grades, personal appearance, personal conduct in class, a complaint against a faculty member, etc., he should consult individuals involved in the following order:

1. Professor of the class; in the event the problem cannot be resolved or the student feels it is not practical to contact the professor, he should consult the
2. Chairperson of the department involved; the student should state his complaint or specific problem. He should present information regarding his academic record and class performance. If the complaint or problem is not solved, the student is free to go to the

3. Dean of the School involved; if he is still not satisfied he should report to the
4. Vice President for Academic Affairs; and finally to the
5. President of the University.

Scholastic probation

Any student making a standing of 1.5 or lower on a semester's work is placed on probation for the next semester in residence and his parents will be notified of his unsatisfactory work. The student will be dropped from school if he makes less than a 1.7 grade-point average during his next semester in residence.

An exception may be made to this general rule if the student is placed on probation at the close of the first semester and fails to make a standing of 1.7 the following semester. In this instance, he may apply for permission to attend the following summer term. If this permission is granted, the student's schedule of classes for the summer term must include those courses in which he made low marks during the academic year. If the student's total standing on work taken during the academic year and the summer term is 1.7 or better, he will be removed from probation. If the student's total standing on work taken during the academic year and the summer term is less than 1.7, he will be dropped from school.

A student who is placed on probation at the end of the spring semester may remove himself from probation by earning a 2.0 grade-point average as a full-time student in the following regular summer session.

A student who has been dropped for poor scholarship may apply for readmission after the lapse of one semester. Should the student be readmitted, he shall be readmitted on probationary status and be required to earn a 2.0 grade-point average as a full-time student during the semester in which he enrolls. If dropped for poor scholarship a second time, he is not eligible for readmission.

Exceptions for Freshmen

A freshman who makes a standing of 1.5 or lower on his first semester's work is placed on probation for the next semester in residence. During this second semester the student is required to include in his schedule of classes those general education courses in which he made low marks during the first semester. If at the end of the second semester the student has earned a standing of 1.7 or above on the work of the semester he will be removed from probation.

If at the end of the second semester the student has not earned a standing of 1.7 or above on the work of the semester and has not accumulated a total of 27 hours of credit during the academic year, he may apply for permission to attend the following summer term. If this permission is granted, the student's schedule of classes for the summer term must be made up of those courses in which he has made low marks during the academic year. At the end of the summer term, if the student's total standing on the work of the academic year and the summer term is 1.7 or better, he will be removed from probation. If at the end of the summer term his standing is not 1.7 but the student has accumulated 27 hours of credit, he may be given a third semester. If a minimum standing of 1.7 is not earned on the work of this third semester the student will be dropped.

Withdrawals

Students withdrawing from school during any semester or term must arrange for their withdrawal with the Dean of Students and the Vice President for Academic Affairs. No refunds will be made unless the withdrawal is made through the proper channels.

Absences

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

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

Every student is expected to file an application for degree with the Registrar's Office at least one semester prior to the semester in which he plans to complete his 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 he has filed an application.

A student must file an application for degree no later than three weeks prior to the end of the term in which he 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 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 either the intersession or 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 Vice President for Academic Affairs for approval at least two weeks prior to graduation.

Academic Advisement Program

The specific purposes of Morehead State University's Academic Advisement Program are:

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

Academic advising includes the following:

1. When freshmen and transfer students arrive on campus for registration, they are given information concerning academic advising sessions.
2. During the student's first semester on campus, a permanent academic adviser is assigned and both the student and adviser are so notified.

Through the student's academic career, there are specified times for adviser-advisee contact; however, the student may initiate a meeting with his adviser whenever the need arises.

Specific adviser-advisee contacts should include:

1. Meetings for two purposes each semester:
 - a. *Grade distribution periods* - mid-term and final grades for all students.
 - b. *Pre-registration conferences* with advisers are required each semester for freshmen, sophomores and transfer students in order to discuss the student's academic progress and to plan a trial schedule for the next registration period.
2. A conference 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 one semester of work if their classification when first enrolled at Morehead State University is above the sophomore level.

In addition, the students may initiate meetings for other purposes including

1. Change of program (major, minor, area.)
2. Changes of class schedule involving the drop/add procedure (for advising purposes only).
3. Information concerning vocations, counseling, financial aid, etc. The adviser will serve as a referral source for the student.

Once students attain junior standing and have filed an official check sheet of their program of study with the Registrar of the University, they may elect to participate in academic advising on a voluntary basis at Morehead State University.

Trio Program

The Trio Program offers the following services to all students without charge:

1. Academic advising—assistance in selection of majors and minors and preparation of class schedules
2. Personal counseling
3. Tutoring in many academic areas
4. Career information and counseling
5. A writing laboratory for assistance in composition classes and theme writing
6. Referrals to other agencies (both on and off campus) for related services

Helping students solve academic, vocational, and personal problems is the primary function of Trio's staff of professional counselors. Counseling 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 counselors are of course confidential.

Each semester Trio offers the following college credit courses to aid students in the development of educational and personal skills: EDGC 102, Study Skills; EDGC 105, Career Planning; and EDEL 110, Developmental Reading.

Open on weekdays from 8 a.m. to 4:30 p.m., the Trio Program is located in room 220 of Allie Young Hall.

The Testing Center

The Testing 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 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 students 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 requirements 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.

Students eligible for membership and seeking admission should contact the Honors Program Director, UPO Box 697, Morehead State University.

Field Career Experiences

The Field Career Experiences Program at Morehead State University is a unique plan of educational development designed to enhance self-realization and direction by integrating classroom study with planned and supervised experience in educational, vocational, and cultural environment.

It is based on the premise that well-educated individuals can be developed 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 is considered a degree requirement in certain fields and that the institution assumes responsibility for integrating it into the educational process through the efforts of professional academic staff.

The Office of Field Career Experiences assumes a positive coordinative role in the administration of all off-campus field study courses and programs at the undergraduate and graduate 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 off-campus non-traditional academic experiences.

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

Students may earn as many as five separate cooperative study courses within any four-year program with each work experience having a four semester hour credit base. Those students enrolled in two-year programs may enroll for three separate cooperative study courses with a maximum of 12 semester hours credited to their respective program. Students selecting cooperative study must receive approval from their respective academic department prior to enrollment in cooperative study through the Office of Field Career Experiences.

Students who elect a Cooperative Education option are provided the opportunity to alternate periods of on-campus academic semesters with periods of full-time salaried employment in related occupational fields.

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 below:

139 Cooperative Study I. Four Hours, I, II, III.

One semester of full-time work experience in a field relevant to student's career objectives.

239 Cooperative Study II. Four Hours, I, II, III.

One semester of full-time work experience with an extension of exposure gained in 139.

339 Cooperative Study III. Four Hours, I, II, III.

One semester of full-time work experience with a continuation of in-depth exposure representative of student's academic level and experience.

439 Cooperative Study IV. Four Hours, I, II, III.

One semester of full-time work experience with a continuation of in-depth exposure representative of student's academic level and experience.

539 Cooperative Study V. Four Hours, I, II, III.

One semester of full-time 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 printed (*Cooperative Education Program Handbook* and *Cooperative Education Program Policy Manual* available through the Office of Field Career Experiences.

Admissions

Admission to the Freshman Class

Without Examination. Graduates of high schools accredited by the Kentucky State Board of Education are considered for admission without examination.

An out-of-state student who is a graduate of an accredited high school may be granted admission to Morehead State University if his high school transcript shows that he 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.

Marginal students often may be requested to schedule an interview in the Office of Admissions to discuss their program with admission counselors of Morehead State University prior to registration.

By High School Equivalency. A Kentucky resident who has not graduated from high school may be admitted to the freshman class of Morehead State University by presenting a High School Equivalency Diploma. Local boards of education issue such diplomas on the basis of General Educational Development Tests to service personnel, veterans, and nonveteran adults. Additional information may be obtained by contacting the local board of education, the State Department of Education, or the Office of Admissions.

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

Admission as a Special Student

Kentucky residents who do not meet 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.

NOTE: The following programs of study require additional admission procedures: Nursing, veterinary technology, medical office assisting, and radiologic technology.

Admission as a Transfer Student

Students entering Morehead from other institutions must present a statement of honorable dismissal from the college or university attended previously and must satisfy the entrance requirements here. Official transcripts of college and high school credits must be on file in the Office of Admissions prior to the time of registration. Students who have attempted work at the college level must declare that work. Classes taken at the college level must be used in the admissions evaluation.

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.

Admission of International Students

A person who is a citizen or permanent resident of a country other than the United States is classified for educational purposes as an International Student. His admission procedure is essentially the same as that for entering freshmen or graduate students.

All applicants who are not citizens of the United States are required to submit acceptable scores on the Test of English as a Foreign Language (TOEFL).

Physical Examination

Each student entering Morehead State for the first time is required to have a medical examination by his local or family physician prior to admission. Each student sends the report of this examination, on a form supplied by the University, to the Director of Admissions prior to entrance.

Residency for Fee Assessment Purposes

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

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

Any student or prospective student in doubt concerning his 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 circumstance 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 student 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 of the decision regarding his/her residency status by the Director of Admissions.

(2) If the student wishes to appeal the decision of the Director of Admissions and/or the Admissions Committee, he 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 his case be submitted by the Director of

Admissions to the Executive Director of the Council on Public Higher Education for referral to the State Board of Review.

Project Ahead

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

Student Financial Aid

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

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

Approximately fifty 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 Parents' 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 determines an expected contribution for educational expenses from the student and parents or guardian.

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

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

Contact the Division of Student Financial Aid for further information.

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 twenty-five 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 \$1.00 will be assessed for each additional official transcript issued to the student after he has received the initial free one. A

student will be eligible for a second official transcript of his undergraduate record at no charge after he has completed a baccalaureate degree at Morehead State University. A student will be eligible for one official transcript of his graduate record at no charge upon completion of requirements for a master's degree at the University.

Students' Rights in Access to Records

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

Definitions:

1. "Eligible student" means a student who has attained 18 years of age, or is attending an institution of post-secondary education.
2. "Institutions of postsecondary 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 secondary education is provided, as determined under state law.

I. Students' Rights to Inspection of Records and Review Thereof:

1. Any student or former student of Morehead State University has the right to inspect and review any and all "official records, files, and data directly related to" the student. The terms "official records, files, and data" are defined as including, but not limited to:
 - A. Identifying data
 - B. Academic work completed
 - C. Level of achievement (grades, standardized achievement test scores)
 - D. Attendance data
 - E. Scores on standardized intelligence, aptitude, and psychological tests
 - F. Interest inventory results
 - G. Family background information
 - H. Teacher or counselor ratings and observations
 - I. Verified reports of serious or recurrent behavior problems
 - J. Cumulative record folder
2. The institution is not required to make available to students confidential letters of recommendation placed in their files before January 1, 1975.
3. Students do not have the right of access to records maintained by the University's law enforcement officials.
4. Students do not have direct access to medical, psychiatric, or similar records which are used solely in connection with treatment purposes. Students are allowed the right to have a doctor or other qualified professional of their choice inspect their medical records.
5. Procedures have been established by the University for granting the required access to the records within a reasonable time, not to exceed 45 days from the date of the request.
6. The University shall provide students an opportunity for a hearing to challenge the content of their records to insure that the records are not inaccurate, misleading,

or otherwise in violation of the privacy or other rights of the student.

- A. *Informal Proceedings:* Morehead State University may attempt to settle a dispute with the parent of a student or the eligible student regarding the content of the student's education records through informal meetings and discussions with the parent or eligible student.
- B. *Formal Proceedings:* Upon the request of either party (the educational institution, the parent, or eligible student), the right to a hearing is required. If a student, parent, or educational institution requests a hearing, the Vice President for Student Affairs shall make the necessary arrangements. The hearings will be established according to the procedures delineated by the University.

II. Restrictions on the Release of Student Records

1. Morehead State University will not release records without written consent of the students except:
 - A. To other local educational officials, including teachers or local educational agencies who have legitimate educational interest;
 - B. To officials of other schools or school systems in which the student intends to enroll, upon the condition that the student be notified of the transfer and receive a copy of the record desired, and have an opportunity to challenge the contents of the records;
 - C. 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; or
 - D. To parents of dependent students.
2. Morehead State University will not furnish personal school records to anyone other than the described above unless:
 - A. Written consent of the student is secured, specifying the records to be released, the reasons for the release, identifying the recipient of the records, and furnishing copies of the materials to be released to the student; or
 - B. The information is furnished in compliance with a judicial order or pursuant to a subpoena, upon condition that the student is notified of all such orders or subpoenas in advance of compliance therewith.

III. 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.

Johnson Camden Library

The library is a service agency for the academic community. It has an open stack policy so that anyone may browse and select his own 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.

As of June, 1978, the new five-story Julian M. Carroll Library Tower will have 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:

I. SPECIAL COLLECTIONS

1. Kentucky Collection
2. Appalachian Regional Collection
3. Rare Book Room — Old and valuable resources
4. University Archives — History of Morehead State University
5. Moonlight Schoolhouse — Educational Museum

II. MEDIA SERVICES

1. Dial Access Center — Audio information resources
2. Microtext Department — Materials and equipment for reading and printing
3. Learning Resources Center — Audio-visual resources
4. Audio-visual Equipment — Projectors, record players, tape recorders

III. GRAPHIC ARTS

1. Photocopying — Coin-operated machines
2. Transparencies — Black and white transparencies produced
3. Typewriters — Available without charge
4. Lettering — Materials for making signs

IV. INTERLIBRARY LOAN

1. Teletype Machine — Connected to other libraries
2. KENCLIP — Service to Public Libraries throughout Eastern Kentucky

V. EXHIBITS

1. Art — Student and faculty shows
2. Music — Special choral group performance
3. Crafts — Demonstration of various crafts

VI. LIBRARY INSTRUCTION

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

VII. LIBRARY SCIENCE

Books and materials for training librarians and teachers

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

Department of Agriculture
Department of Home Economics
Department of Industrial Education and Technology
Department of Nursing and Allied Health

Baccalaureate degree programs

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 Supervision and Management Technology
Machine Tool Technology
Mining Technology
Power and Fluids Technology
Radiologic Technology
Reclamation Technology
Industrial Education (Vocational Trade and Industrial Education)
Welding Technology
Medical Assisting
Nursing

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.

Agriculture

The Department of Agriculture offers the following programs:

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

Requirements and Suggested
Course Sequence

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

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

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

Options

A. Agriculture Business

Students who select this option must complete the required courses in the area of concentration in agriculture, ACT 281 Principles of Ac-

counting I (three semester hours), and 28 semester hours in agriculture and business, including a minimum of nine hours in business. Electives must be selected from at least three of the following groups:

Group I	Sem. Hrs.
AGR 302—Agriculture Finance	3
BSAD 252—Mathematics of Finance	3
BSAD 323—Financial Markets	3
BSAD 360—Business Finance	3
BSAD 364—Personal Finance	3

Group II	Sem. Hrs.
BSAD 363—Office Management	3
BSAD 301—Principles of Management	3
BSAD 311—Personnel Management	3

Group III	Sem. Hrs.
BSAD 350—Salesmanship	3
BSAD 450—Consumer Behavior	3
BSAD 451—Retail Merchandising	3
BSAD 455—Advertising	3

Group IV	Sem. Hrs.
BSAD 461—Business Law I	3
BSAD 561—Business Law II	3

Group V	Sem. Hrs.
AGR 303—Land Economics	3
BSAD 282—Principles of Accounting II	3
BSAD 408—Risk Management	3
ACCT 387—Income Tax	3

B. Agriculture Economics

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

Required Courses	Sem. Hrs.
ECON 202—Principles of Economics II	3
ECON 350—Microeconomics Theory	3
ECON 351—Macroeconomics Theory	3
Approved Electives	Sem. Hrs.
AGR 302—Agriculture Finance	3
AGR 303—Land Economics	3
AGR 503—Agricultural Policy	3
ECON 301—History of Economic Thought	3
ECON 342—Money and Banking	3
ECON 343—Investments	3
ECON 547—International Economics	3
MATH 354—Business Statistics	3

C. Agronomy

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

	Sem. Hrs.
AGR 205—Farm Records.....	2
AGR 303—Land Economics.....	3
AGR 308—Weed Control.....	3
AGR 311—Soil Conservation.....	3
AGR 312—Soil Fertility and Fertilizers.....	3
AGR 334—Entomology.....	3
AGR 384—Forage Crops.....	3
BIOL 215—General Botany.....	4
BIOL 513—Plant Physiology.....	3
BIOL 514—Plant Pathology.....	3
BIOL 550—Plant Anatomy.....	3

D. Animal Science

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

	Sem. Hrs.
AGR 109—Elementary Horsemanship.....	1
AGR 119—Intermediate Horsemanship.....	1
AGR 121—Equitation	3
AGR 136—Principles of Dairying.....	3
AGR 231—Livestock Judging.....	3
AGR 237—Poultry Production.....	3

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

E. General Agriculture

Students who select this option must complete the required courses in the area of concentration in agriculture and complete the minimum number of hours in the fields listed below:

	Sem. Hrs.
(1)—Agricultural Economics.....	9
AGR 203—Agricultural Economics.....	3
AGR 205—Farm Records.....	2
AGR 301—Farm Management.....	3
AGR 302—Agriculture Finance.....	3
AGR 303—Land Economics.....	3
AGR 305—Marketing of Farm Products.....	3
AGR 503—Agricultural Policy.....	3
(2)—Agricultural Mechanics.....	6
AGR 251—Introduction to Agriculture Mechanics.....	3
AGR 350—Farm Power and Machinery Management.....	3
(3)—Animal Science.....	12
AGR 133—Farm Livestock Production.....	3
AGR 136—Principles of Dairying.....	3
AGR 231—Livestock Judging.....	3
AGR 237—Poultry Production.....	3
AGR 242—Light Horse Husbandry.....	3
AGR 244—Horse Production.....	3
AGR 316—Feeds and Feeding.....	3
AGR 331—Advanced Livestock Judging.....	3
AGR 336—Dairy Cattle Feeding, Breeding and Management.....	3
AGR 343—Beef Production.....	3
AGR 344—Swine Production.....	3
AGR 515—Animal Nutrition.....	3
(4)—Plant Science.....	9
AGR 180—Elementary Field Crops.....	3
AGR 212—Landscape Plants.....	3
AGR 213—Landscape Gardening.....	3
AGR 215—Horticulture.....	3
AGR 216—Floriculture.....	2
AGR 308—Weed Control.....	3
AGR 314—Plant Propagation.....	3
AGR 315—Fruit Production.....	3
AGR 320—Principles of Vegetable Production.....	3
AGR 321—Greenhouse Production I.....	3
AGR 322—Greenhouse Production II.....	3
AGR 325—Turf Management.....	3
AGR 326—Nursery Management.....	3
AGR 327—Advanced Landscape Design.....	3
AGR 384—Forage Crops.....	3
(5)—Soil Science.....	6
AGR 211—Soils.....	3
AGR 311—Soil Conservation.....	3
AGR 312—Soil Fertility and Fertilizers.....	3

F. Horticulture

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

	Sem. Hrs.
AGR 212—Landscape Plants.....	3
AGR 213—Landscape Gardening.....	3
AGR 216—Floriculture.....	2
AGR 304—Genetics.....	3
AGR 308—Weed Control.....	3
AGR 312—Soil Fertility and Fertilizers.....	3
AGR 314—Plant Propagation.....	3

AGR 315—Fruit Production	3
AGR 320—Principles of Vegetable Production	3
AGR 321—Greenhouse Production I	3
AGR 322—Greenhouse Production II	3
AGR 325—Turf Management	3
AGR 326—Nursery Management	3
AGR 327—Advanced Landscape Design	3
AGR 334—Entomology	3
BIOL 215—General Botany	4
BIOL 318—Local Flora	3
BIOL 513—Plant Physiology	3
BIOL 514—Plant Pathology	3
BIOL 550—Plant Anatomy	3
BIOL 551—Plant Morphology	3
CHEM 326—Organic Chemistry I	4
CHEM 327—Organic Chemistry II	4
IET 103—Technical Drawing I	1

Suggested Course Sequence

	Sem. Hrs.
FRESHMAN YEAR	
First Semester	16
ENG 101—Composition I	3
BIOL 150—Introductory Plant Science	3
AGR 101—General Agriculture	1
AGR 133—Farm Livestock Production	3
PHED—Activity Course	1
AGR 251—Introduction to Agriculture Mechanics	3
HLTH 150—Personal Health	2
Second Semester	16
MATH 131—General Mathematics	3
ENG 102—Composition II	3
AGR 180—Elementary Field Crops	3
ECON 201—Principles of Economics I	3
PHED—Activity Course	1
AGR—Agriculture Elective	3
SOPHOMORE YEAR	
First Semester	16
AGR 203—Agricultural Economics	3
AGR 215—Horticulture	3
SOC 170—Rural Sociology	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
AGR—Agriculture Elective	3
Second Semester	16
ENG—Literature Elective	3
SPAN 110—Basic Speech	3
AGR 211—Soils	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
AGR—Agriculture Elective	3
JUNIOR YEAR	
First Semester	16
AGR—Agriculture Electives	6
Humanities Elective	6
Social Science Elective	3
General Elective	1
AGR 301—Farm Management	3
Second Semester	16
AGR 316—Feeds and Feeding	3
Social Science Elective	3
AGR—Agriculture Electives	6
General Electives	4
SENIOR YEAR	
First Semester	16
AGR 471—Seminar	1
AGR—Agriculture Electives	6
General Electives	9
Second Semester	16
AGR—Agriculture Electives	6
General Electives	10
Total	128

Agriculture electives must be grouped for an option in agricul-

ture 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 48 semester hours in the area of agriculture with a minimum of six 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.

	Sem. Hrs.
Required Courses in Agriculture	18
AGR 580—Methods of Teaching Vocational Agriculture	4
AGR 582—Adult and Young Farmer Education	3
AGR 584—Teaching Vocational Agriculture	8
AGR 586—Planning Programs in Vocational Agriculture	3
Approved Agriculture Electives	30
AGR—Agricultural Economics Electives	6
AGR—Agricultural Mechanics Electives	6
AGR—Animal Science Electives	6
AGR—Horticultural and Plant Science Electives	6
AGR—Soil Science Electives	6
Additional Requirements	5
EDSE 209—Foundations of Secondary Education	2
EDSE 310—Principles of Adolescent Development	3

Admission to Teacher Education Program

A student must have an overall standing of 2.50 in the area of concentration courses before he will be permitted to take agricultural education courses.

The student must be approved by the agricultural staff and recommended for certification.

Suggested Course Sequence

	Sem. Hrs.
FRESHMAN YEAR	
First Semester	14
ENG 101—Composition I	3
AGR 101—General Agriculture	1
BIOL 150—Introduction to Plant Science	3
AGR 133—Farm Livestock Production	3
MATH 131—General Math I	3
PHED—Activity Course	1
Second Semester	16
Economics I	3
AGR—Agriculture Elective	3
Humanities or Comm. Elective	3
AGR 180—Elementary Field Crops	3
PHED—Activity Course	1
Social Science Electives	3
SOPHOMORE YEAR	
First Semester	16
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
AGR 251—Introduction to Agriculture Mechanics	3
SOC 170—Rural Sociology	3
ENG—Literature Elective	3
AGR 215—Horticulture	3
Second Semester	16
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
AGR 203—Agriculture Economics	3
EDSE 209—Foundations of Secondary Education	2
AGR 316—Feeds and Feeding	3
HLTH 150—Personal Health	2
General Elective	2
JUNIOR YEAR	
First Semester	15
AGR 211—Soils	3
AGR 350—Farm Power and Machinery Management	3
SPCH 110—Basic Speech	3

Social Science Elective.....	3
EDSE 310—Principles of Adolescent Development.....	3
Second Semester.....	16
AGR 301—Farm Management.....	3
AGR 312—Soil Fertility and Fertilizers.....	3
AGR—Agriculture Electives.....	7
Humanities or Comm. Elective.....	3
SENIOR YEAR	
First Semester.....	17
GOVT 141—Government of United States.....	3
AGR 471—Seminar.....	1
AGR—Agriculture Electives.....	8
General Electives.....	5
Second Semester.....	18
AGR 580—Methods of Teaching Vocational Agriculture.....	4
AGR 582—Adult and Young Farmer Education.....	3
AGR 584—Teaching Vocational Agriculture.....	8
AGR 586—Planning Programs in Vocational Agriculture.....	3
Total.....	128

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

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

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs. 17
First Semester.....	
ENG 101—Composition I.....	3
BIOL 150—Introductory Plant Science.....	3
AGR 101—General Agriculture.....	1
AGR 133—Farm Livestock Production.....	3
General Electives.....	6
PHED—Activity Course.....	1
Second Semester.....	16
ENG 102—Composition II.....	3
AGR 203—Agricultural Economics.....	3
AGR—Agriculture Elective.....	3
AGR 180—Elementary Field Crops.....	3
MATH 131—General Mathematics I.....	3
PHED—Activity Course.....	1

SOPHOMORE YEAR

First Semester.....	15
SOC 170—Rural Sociology.....	3
AGR 215—Horticulture.....	3
CHEM 101—General Chemistry I.....	3
CHEM 101A—General Chemistry I Laboratory.....	1
HLTH 150—Personal Health.....	2
Social Science Elective.....	3
Second Semester.....	17
ENG—Literature Elective.....	3
AGR 211—Soils.....	3
CHEM 102—General Chemistry II.....	3
CHEM 102A—General Chemistry II Laboratory.....	1
SPCH 110—Basic Speech.....	3
General Elective.....	3
PHED—Activity Course.....	1

JUNIOR YEAR

First Semester.....	16
Social Science Elective.....	3

AGR 251—Introduction to Agriculture Mechanics.....	3
AGR 316—Feeds and Feeding.....	3
MATH 141—Plane Trigonometry.....	3
General Electives.....	4
AGR 301—Farm Management.....	3
Social Science Elective.....	3
General Electives.....	6

SENIOR YEAR

First Semester.....	15
Social Science Elective.....	3
AGR 471—Seminar.....	1
Humanities or Comm. Elective.....	3
General Electives.....	8
Second Semester.....	17
General Electives.....	14
AGR—Agriculture Elective.....	3
Total.....	128

General electives may be taken in agriculture or a related area by students wishing greater depth in the field.

4. A. A Minor in Agriculture:

Required Courses in Agriculture.....	Sem. Hrs. 17
AGR 101—General Agriculture.....	1
AGR 133—Farm Livestock Production.....	3
AGR 180—Elementary Field Crops.....	3
AGR 203—Agricultural Economics.....	3
AGR 211—Soils.....	3
AGR 215—Horticulture.....	3
AGR 471—Seminar.....	1
Approved Agriculture Electives.....	4
Additional Requirements.....	4
CHEM 101—General Chemistry I.....	3
CHEM 101A—General Chemistry I Laboratory.....	1

B. A Minor in Horsemanship:

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

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

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

Required Courses.....	Sem. Hrs. 50
AGR 133—Farm Livestock Production.....	3
AGR 180—Elementary Field Crops.....	3
AGR 203—Agricultural Economics.....	3
AGR 302—Agriculture Finance.....	3
AGR 305—Marketing of Farm Products.....	3
AGR 251—Introduction to Agriculture Mechanics.....	3
BSAD 136—Business Calculations.....	4
BSAD 211—Beginning Typewriting.....	3
BSAD 200—Introduction to Data Processing.....	3
BSAD 252—Mathematics of Finance.....	3
BSAD 350—Salesmanship.....	3
ACCT 281—Principles of Accounting I.....	3
ENG 101—Composition I.....	3
CHEM 101—General Chemistry I.....	3
CHEM 101A—General Chemistry I Laboratory.....	1
SPCH 110—Basic Speech.....	3
BIOL 150—Introduction to Plant Science.....	3
Approved Electives in Option.....	14
(see available options below)	

Options

(1) Animal Science

AGR 211—Soils.....	3
AGR 237—Poultry Production.....	3

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

(2) Crop Science

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

(3) Horticulture

AGR 212—Landscape Plants.....	3
AGR 213—Landscape Gardening.....	3
AGR 215—Horticulture.....	3
AGR 314—Plant Propagation.....	3
AGR 315—Fruit Production.....	3
AGR 320—Principles of Vegetable Production.....	3
AGR 321—Greenhouse Production I.....	3

(4) Agriculture Management

AGR 203—Agricultural Economics.....	3
AGR 207—Land Conservation and Forest Management.....	3
AGR 301—Farm Management.....	3
AGR 302—Agriculture Finance.....	3
AGR 303—Land Economics.....	3

Suggested Course Sequence

	Sem. Hrs.
First Semester	16
BIOL 150—Introduction to Plant Science.....	3
AGR 133—Farm Livestock Production.....	3
BE 136—Business Calculations.....	4
ENG 101—Composition I.....	3
AGR 251—Introduction to Agriculture Mechanics.....	3
Second Semester	16
AGR 180—Elementary Field Crops.....	3
AGR 203—Agricultural Economics.....	3
CHEM 101—General Chemistry I.....	3
CHEM 101A—General Chemistry I Laboratory.....	1
SPCH 110—Basic Speech.....	3
BE 211—Beginning Typewriting.....	3
Third Semester	17
AGR—Option Elective.....	5
AGR 302—Agriculture Finance.....	3
AGR 305—Marketing of Farm Products.....	3
BSAD 200—Introduction to Data Processing.....	3
ACCT 281—Principles of Accounting I.....	3
Fourth Semester	15
AGR—Option Elective.....	9
BSAD 350—Salesmanship.....	3
BSAD 252—Mathematics of Finance.....	3
Total	64

5. B. An Associate of Applied Science degree in Farm Production Technology:

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

	Sem. Hrs.
Required Courses	32
AGR 101—General Agriculture.....	1
AGR 133—Farm Livestock Production.....	3
AGR 180—Elementary Field Crops.....	3
AGR 203—Agricultural Economics.....	3
AGR 211—Soils.....	3
AGR 215—Horticulture.....	3
AGR 316—Feeds and Feeding.....	3
ENG 101—Composition I.....	3
SPCH 110—Basic Speech.....	3
CHEM 101—General Chemistry I.....	3
CHEM 101A—General Chemistry I Laboratory.....	1

BIOL 150—Introduction to Plant Science.....	3
Approved Electives in Option.....	32
(see available options below)	

Options

Sem. Hrs.

(1) Animal Science

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

(2) Agriculture Management

AGR 205—Farm Records.....	2
AGR 301—Farm Management.....	3
AGR 302—Agriculture Finance.....	3
AGR 303—Land Economics.....	3
AGR 305—Marketing of Farm Products.....	3
AGR 503—Agricultural Policy.....	3
ACCT 281—Principles of Accounting I.....	3
ACCT 282—Principles of Accounting II.....	3
BSAD 252—Mathematics of Finance.....	3
BSAD 350—Salesmanship.....	3
BSAD 364—Personal Finance.....	3
ECON 201—Principles of Economics I.....	3
ECON 202—Principles of Economics II.....	3

(3) Crop Science

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

(4) Horticulture

AGR 212—Landscape Plants.....	3
AGR 213—Landscape Gardening.....	3
AGR 312—Soil Fertility and Fertilizers.....	3
AGR 314—Plant Propagation.....	3
AGR 315—Fruit Production.....	3
AGR 320—Principles of Vegetable Production.....	3
AGR 321—Greenhouse Production I.....	3
AGR 322—Greenhouse Production II.....	3
AGR 325—Turf Management.....	3
AGR 326—Nursery Management.....	3
AGR 327—Advanced Landscape Design.....	3
AGR 334—Entomology.....	3
AGR 341—Apiculture.....	3
AGR 350—Farm Power and Machinery Management.....	3

Suggested Course Sequence

First Semester	16
AGR 101—General Agriculture.....	1
BIOL 150—Introduction to Plant Science.....	3
ENG 101—Composition I.....	3
AGR 133—Farm Livestock Production.....	3
AGR 203—Agricultural Economics.....	3
SPCH 110—Basic Speech.....	3
Second Semester	16
AGR 180—Elementary Field Crops.....	3
AGR 215—Horticulture.....	3
CHEM 101—General Chemistry I.....	3
CHEM 101A—General Chemistry I Laboratory.....	1
AGR 211—Soils.....	3
AGR—Option Elective.....	3

Third Semester	16
AGR 316—Feeds and Feeding	3
AGR—Option Electives	13
Fourth Semester	16
AGR—Option Electives	16

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

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

Requirements and Suggested Course Sequence

First Semester	16	Sem. Hrs.
BIOL 150—Introduction to Plant Science	3	
ENG 101—Composition I	3	
AGR 101—General Agriculture	1	
AGR 212—Landscape Plants	3	
IET 103—Technical Drawing I	3	
AGR 350—Farm Power and Machinery Management	3	
Second Semester	17	
AGR 213—Landscape Gardening	3	
BSED 136—Business Calculations	4	
AGR 215—Horticulture	3	
CHEM 101—General Chemistry I	3	
CHEM 101A—General Chemistry I Lab	1	
AGR—Agriculture Elective	3	
Summer School	6	
AGR 235—Supervised Work Experience	6	
Third Semester	14	
AGR 205—Farm Records	2	
AGR 325—Turf Management	3	
AGR 321—Greenhouse Production I	3	
AGR 211—Soils	3	
SOC 170—Rural Sociology	3	
Fourth Semester	15	
AGR 322—Greenhouse Production II	3	
AGR 314—Plant Propagation	3	
AGR 326—Nursery Management	3	
AGR 327—Advanced Landscape Design	3	
AGR—Agriculture Elective	3	
Total 68		

5. D. An 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

First Semester	17	Sem. Hrs.
AGR 102—Introduction to Veterinary Technology	3	
AGR 104—Large and Small Animal Breeds	3	
AGR 105—Physiology of Domestic Animals	3	
AGR 106—Animal Science for the Veterinary Technician	2	
ENG 101—Composition I	3	
MATH 131—General Mathematics I	3	
Second Semester	17	
AGR 107—Laboratory Techniques I	3	
AGR 206—Anatomy of Domestic Animals	3	
AGR 209—Small Animal Clinic	2	
AGR 214—Animal Restraint and First Aid	2	
AGR 340—Radiology	3	
CHEM 100—Basic Chemistry	4	
Summer Semester	4	
Veterinary Practice Preceptorship	4	
Third Semester	17	
AGR 210—Parasitology and Entomology	2	
AGR 208—Laboratory Techniques II	3	
AGR 330—Clinical Bacteriology	3	
AGR 339—Pharmacology for the Veterinary Technician	3	

ENG 192—Technical Composition	3
SPCH 110—Basic Speech	3
Fourth Semester	17
AGR 309—Large Animal Clinic	2
AGR 337—Surgical Nursing and Anesthesiology	2
AGR 333—Small Animal Diseases	2
AGR 338—Applied Nutrition	3
AGR 342—Clinical Office Procedures	3
AGR 346—Large Animal Diseases	2
BSED 211—Beginning Typewriting	3
Total	72

6. A Pre-Veterinary Curriculum:

The state of Kentucky is a participating member in the Southern Regional Education Board's plan under which legal Kentucky residents may attend the Auburn University School of Veterinary Medicine. 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. Each year Auburn University accepts 25 students from Kentucky. Kentucky has an agreement with the State of Ohio whereby six Kentucky students may enter the Ohio State University College of Veterinary Medicine each year. Kentucky students may apply to the Tuskegee Institute School of Veterinary Medicine where two legal Kentucky residents are accepted each year. In all the programs above, the students accepted to these universities are exempt from out-of-state tuition and would pay only the in-state tuition of that university.

A total of 80 semester hours with an average grade point of 2.50 is required by Auburn University. In order to apply to the Ohio State University, a student must have an overall standing of 3.0. A student must have completed all required courses before being allowed to submit an application for admission to either of the universities. A grade of "D" in required courses will not be accepted by either of the universities. Selection of all Kentucky students is based on requirements completed as well as grades, with the final selection being made by a committee composed of faculty members from the schools of veterinary medicine.

The following curriculum is designed for Auburn and Ohio State universities and requires a minimum of three years for completion. It is highly recommended that students work very closely with their adviser in making schedules to assure that all required courses are completed in the minimal time required.

Requirements and Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	16
ENG 101—Composition I	3
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Laboratory	1
AGR 133—Farm Livestock Production	3
BIOL 208—Invertebrate Zoology	3
ALH 302—Medical Terminology*	2
PHED—Activity Course	1
Second Semester	17
ENG 102—Composition II	3
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Laboratory	1
MATH 152—College Algebra**	3
BIOL 209—Vertebrate Zoology	3
AGR 231—Livestock Judging**	3
PHED—Activity Course	1
SOPHOMORE YEAR	
First Semester	17
PHYS 201—Elementary Physics I	4
HIS 131—Introduction to Civilization I	3
BIOL 317—Microbiology	4
MATH 141—Plane Trigonometry**	3
AGR 316—Feeds and Feeding	3

Second Semester	16
PHYS 202—Elementary Physics II	4
HIS 132—Introduction to Civilization II	3
GOVT 141—Government of U.S.	3
Social Science Elective	3
AGR 304—Genetics	3

JUNIOR YEAR

First Semester	17
CHEM 326—Organic Chemistry I	4
AGR 237—Poultry Production***	3
AGR 343—Beef Production***	3
MATH 175—Analytic Geometry and Calculus I	4
Humanities Elective	3
Second Semester	16
AGR 336—Dairy Cattle, Feeding, Breeding, and Management**	3
AGR 344—Swine Production***	3
CHEM 327—Organic Chemistry II	4
AGR 515—Animal Nutrition	3
Social Science or Humanities Elective	3
Total	99

* Six semester hours of modern language may be substituted for medical vocabulary.

** Students may by-pass Math 141 and 152 through the mathematics placement examination. A course in bio-chemistry is recommended for Ohio State University.

***These courses are not required in the pre-veterinary curriculum but are highly recommended for those students who plan to get a Bachelor of Science Degree from the Department of Agriculture.

7. A Pre-Forestry Curriculum:

Students interested in a career in forestry may take their first two years of course work at Morehead State University and then complete their studies at the University of Kentucky. If, at the end of two years, a student does not secure admission to the forestry program at the University of Kentucky or at some other university, most of the credits may be applied toward a degree at Morehead State University. The program may be modified to meet entrance requirements at any institution offering a forestry program.

Requirements and suggested Course Sequence

	Sem. Hrs.
First Semester	17
ENG 101—Composition I	3
BIOL 150—Introduction to Plant Science	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
MATH 175—Analytic Geometry and Calculus I	4
PHED—Activity Course	1
General Elective	2
Second Semester	16
ENG 192—Technical Composition	3
AGR 180—Elementary Field Crops	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
MATH 353—Statistics	3
PHED—Activity Course	1
General Elective	2
Third Semester	17
SOC 170—Rural Sociology	3
PHYS 201—Elementary Physics I	4
BIOL 215—General Botany	4
CON 102—Surveying I	3
PSY 154—Life-Oriented General Psychology	3
Fourth Semester	15
HIS 141—Introduction to Early American History	3
SPCH 110—Basic Speech	3
ECON 201—Principles of Economics I	3
AGR 211—Soils	3
ENG—Literature Elective	3
Total	65

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 102. Introduction to Veterinary Technology. (2-4-3); I. A course designed to acquaint the student with the profession of veterinary medicine, professional ethics, jurisprudence, medical terminology, job opportunities, and duties.

AGR 104. Large and Small Animal Breeds. (3-0-3); I. A course designed to acquaint the student with the breeds of animals that serve man for the production of food, clothing, essential by-products, companionship, and health.

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

AGR 106. Animal Science for the Veterinary Technician. (1-2-2); I. 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.

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

AGR 109. Elementary Horsemanship. (0-2-1); I, II. Includes riding basics such as leading a horse; checking saddle and bridle; mounting and dismounting; stopping, starting, turning, and backing the horse; riding the horse at different gaits; horsemanship safety and ring etiquette; and general overall knowledge of horses.

AGR 119. Intermediate Horsemanship. (0-2-1); I, II. Prerequisite: Agriculture 109 or equivalent. Includes review of elementary horsemanship techniques; handling horse properly from ground; grooming; tacking-up horse using different bridles and saddles; mounting and dismounting at various gaits; diagonals, leads and figure eights; detailed study of breeds, gaits, equipment and dress; trail riding; showing horses; and preparing horse for transportation.

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, II. General survey of breeds; selection, feeds, and care of dairy cattle; testing; composition, quality, feed value, and consumption of dairy products; principles of processing and manufacturing dairy products; marketing.

AGR 180. Elementary Field Crops. (2-2-3), I, II. Prerequisite: Biology 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. (2-0-2); 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 206. Anatomy of Domestic Animals (2-2-3); II. A study of the normal anatomy of domestic animals by systems using the domestic cat as the dissection specimen.

AGR 207. Land Conservation and Forest Management. (2-2-3); II. Principles of land resource conservation. Special emphasis on land and water conservation by reforestation of areas denuded by strip mining.

AGR 208. Laboratory Techniques II. (2-3-3); I. 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.

AGR 209. Small Animal Clinic. (2-3-3); II. 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 animals in a clinical situation or laboratory animal colony will be covered in laboratory periods.

AGR 210. Parasitology and Entomology. (2-0-2); I. 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.

AGR 211. Soils. (2-2-3); I, II. Prerequisite: Chemistry 101 and 101A. Study of origin, formation, composition, and classification of soils; the physical, chemical, and biological properties of the soil in relation to plant growth; the principles of soil management, conservation, and land use.

AGR 212. Landscape Plants. (2-2-3); I. A study of ornamental trees, shrubs, and vines commonly used in landscaping. Emphasis is placed on identification, characteristics, adaptability, and maintenance.

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

AGR 214. Animal Restraint and First Aid. (2-0-2); II. Study of the principles of restraint of animals. The study of the principles of first aid for animals by species is also covered.

AGR 215. Horticulture. (2-2-3); I, II. Prerequisite: Biology 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); I. 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. (1-6 hrs.); I, II. 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); I. Principles of poultry production, including breeds and development, incubation, breeding, and genetics; management practices, housing, feeding, and nutrition; diseases, their prevention and control.

AGR 242. Light Horse Husbandry. (2-2-3); I. 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); II. Prerequisite: Agriculture 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); II. Prerequisite: Agriculture 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. (2-2-3); II. Prerequisites: Agriculture 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: Biology 209 or 215. (See Biology 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); II. Prerequisites: Agriculture 180, 211, Chemistry 112, and Chemistry 112A. Identification and classification of weedy species, methods of reproduction and growth characteristics. Effects on crop and livestock yield.

AGR 309. Large Animal Clinic. (1-3-2); II. 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.

AGR 311. Soil Conservation. (2-2-3); I. Prerequisite: Agriculture 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: Agriculture 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: Agriculture 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); I. Prerequisite: Agriculture 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, III. Prerequisites: Chemistry 102, 102A and Agriculture 133. Feeds and formulation of rations; fats, carbohydrates, proteins, and their digestion; the role of minerals, vitamins, and feed additives in nutrition.

AGR 320. Principles of Vegetable Production. (2-2-3); II. Prerequisite: Agriculture 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: Agriculture 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. Prerequisites: Agriculture 215 and 321 or consent of the 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: Biology 150 and Agriculture 215, or consent of the 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); I. Prerequisite: Agriculture 215, 314, or consent of instructor. Selection, systems of culture harvesting and management of ornamental trees, shrubs and vines.

AGR 327. Advanced Landscape Design. (1-4-3); II. Prerequisite: Agriculture 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 330. Clinical Bacteriology. (2-4-3); I. The course is designed to emphasize those various groups of bacteria, viruses, and fungi most commonly encountered in veterinary medicine, with supportive laboratory sessions emphasizing isolation, culture, and sensitivity testing of these organisms.

AGR 331. Advanced Livestock Judging. (2-2-3); II. Continuation of Agriculture 231. Primarily for judging team candidates. Open only to those students who have a good standing in the prerequisite course, Agriculture 231.

AGR 332. Advanced Horsemanship. (2-2-3); I, II. Prerequisite: Agriculture 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 333. Small Animal Diseases. (2-0-2); II. A study of the diseases of small animals (canine and feline) encountered in veterinary medicine with emphasis on zoonosis.

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

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

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

AGR 337. Surgical Nursing and Anesthesiology. (1-3-2); II. A course designed to acquaint the veterinary technician with normal surgery room procedures with emphasis on the monitoring of anesthesia.

AGR 338. Applied Nutrition. (3-0-3); II. 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.

AGR 339. Pharmacology for the Veterinary Technician. (2-2-3); I. 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.

AGR 340. Radiology. (2-3-3); II. 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.

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

AGR 342. Clinical Office Procedures. (3-0-3); II. A survey of the areas of technician responsibility in hospital/clinical business operations and management.

AGR 343. Beef Production. (2-2-3); I. Prerequisites: Agriculture 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); II. Prerequisites: Agriculture 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: Agriculture 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 346. Large Animal Diseases. (2-0-2); II. A study of the diseases of large animals with emphasis on disease control, prevention, treatment, and zoonosis. Included are the equine, bovine, porcine, ovine, caprine, and exotic species.

AGR 350. Farm Power and Machinery Management. (2-2-3); I. Selection, operation, maintenance and servicing of agriculture power and machinery units.

AGR 384. Forage Crops. (2-2-3); II. Prerequisites: Agriculture 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 471. Seminar. (1-0-1); I, II. Prerequisite: second semester junior

standing. Identification of problems and issues reflected in the current professional agricultural literature.

AGR 476. Special Problems. (One to three hours); 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 adviser prior to registration.

AGR 503. Agricultural Policy. (3-3-3); I. Prerequisite: Agriculture 203. A history of agricultural policy and policy makers; defining the problems and their setting; government participation in supply of and demand for agricultural products.

AGR 512. Conservation Workshop. (2-2-3); on demand. Prerequisite: consent of instructor. Development of the conservation movement with broad treatment of the basic natural resources including land, water, air, minerals, forests, and wildlife.

AGR 515. Animal Nutrition. (2-2-3); II. Prerequisite: Agriculture 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); I, 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); I, II. The principles and techniques needed in organizing and program planning in post high school vocational agriculture and conducting young farmer and adult farmer classes.

AGR 584. Teaching Vocational Agriculture. (8-0-8); I, II. Supervised teaching in centers selected by the State Agricultural Education Staff and members of the teaching staff. Teacher experience with in-school and out-of-school groups.

AGR 586. Planning Programs in Vocational Agriculture. (3-0-3); I, II. Organization and analysis of the program of vocational agriculture. Departmental program of activities, summer programs, advisory committees, and Future Farmers of America activities.

AGR 588. Curriculum Development and Content Selections. (3-0-3); I, III. Each student prepares the content for a four-year program in vocational agriculture.

AGR 592. Supervision in Agriculture. (3-0-3); I, II. The principles and techniques needed in individual and group supervision of vocational agricultural programs.

Home Economics

The Department of Home Economics offers the following programs:

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

- A. Clothing and textiles, with options in:
 - (1) Design
 - (2) Fashion merchandising
 - (3) Textile technology
- B. General Dietics
- C. Interior Design
- D. Vocational Home Economics Education

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

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

3. A minor in the following:

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

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. 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. Hrs.
Required Courses in Home Economics	38
HEC 240—Textiles	3
HEC 141—Basic Clothing Construction	3
HEC 241—Advanced Clothing Problems	3
HEC 344—Historic Costume or	
HEC 480—Historic Textiles	3
HEC 340—Textile Testing	2
HEC 130—Elementary Foods	3
HEC 453—Marriage and Family Living	3
HEC 451—Home Furnishings	3
HEC 341—Flat Pattern Design	2
or	
HEC 545—Clothing Design in Draping	3
HEC 362—Consumer Education	3
HEC 303—Health of the Family	3
HEC 541—Tailoring	3
HEC 471—Seminar	1
HEC 542—Social-Psychological Aspects of Clothing	
and Textiles	3
Approved Electives in Option	12
(See Available Options Below)	

Additional Requirements	15
SCI—Science Electives	5
ART 291—Color and Design	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
BIOL 331—Human Anatomy	3

Options

(1) Design	
ART 101—Drawing I	3
ART 202—Composition and Drawing	3
ART 204—Figure Drawing I	3
ART 216—Water Color I	3
ART 241—Crafts I	3

ART 565—Arts of the United States II	3
ART 545—Independent Studio	2-4
HEC 251—Household Equipment	3
HEC 346—Fashion Fundamentals	3
HEC 351—Housing	3
HEC 557—Interior Design	3
IET 102—Graphic Arts	3
IET 103—Technical Drawing I	3
IET 305—Housing	3
HEC 343—Household Textiles	3

(2) Fashion Merchandising

BSAD 160—Introduction to Business	3
BSAD 350—Salesmanship	3
BSAD 451—Retail Merchandising	3
BSED 136—Business Calculations	4
BSED 211—Beginning Typewriting	3
BSED 212—Intermediate Typewriting	3
BSED 290—Office Accounting	3
ECON 201—Principles of Economics I	3
BSAD 304—Marketing	3
HEC 346—Fashion Fundamentals	3
HEC 343—Household Textiles	3
BSAD 461—Business Law I	3
BSAD 450—Consumer Behavior	3
BSED 221—Business Communications	3

(3) Textile Technology

HEC 343—Household Textiles	3
HEC 543—Advanced Textile Testing	3
HEC 544—Dyes and Finishes	3
Approved Science Electives	3

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	16
ENG 101—Composition I	3
ART 291—Color and Design	3
HEC 240—Textiles	3
SCI 105—Introduction to Biological Science	3
PHED—Activity Course	1
MATH—Mathematics Elective	3

Second Semester	15
ENG 102—Composition II	3
HEC 141—Basic Clothing Construction	3
Social Science Elective	3
General Electives	5
PHED—Activity Course	1

SOPHOMORE YEAR

First Semester	16
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
ENG 202—Introduction to Literature	3
HEC 241—Advanced Clothing Problems	3
Social Science Elective	3
Humanities Elective	3

Second Semester	16
HEC 344—Historic Costume	or
HEC 408—Historic Textiles	3
HEC 340—Textiles Testing	3
HEC 130—Elementary Foods	3
Science Electives	5
Humanities Elective	2

JUNIOR YEAR

First Semester	17
HEC 453—Marriage and Family Living	3
HEC 451—Home Furnishings	3
BIOL 331—Human Anatomy	3
Humanities Elective	2
HEC—Home Economics Option	3
General Elective	3

Second Semester	15
HEC 341—Flat Pattern Design	or
HEC 545—Clothing Design in Draping	3
HEC 362—Consumer Education	3
Social Science Elective	3
General Electives	6

SENIOR YEAR	Sem. Hrs.
First Semester	17
HEC 303—Health of the Family	3
HEC 541—Tailoring	3
HEC—Home Economics Option	6
Social Sciences Elective	3
General Elective	2
Second Semester	16
HEC 471—Seminar	1
HEC 542—Social & Psychological Aspects of Clothing and Textiles	3
HEC—Home Economics Option	3
General Electives	9
Total	128

1. B. A Bachelor of Science degree with an Area of Concentration in General Dietetics:

Students who complete the general dietetics area are eligible to apply for dietetic internship or traineeship in order to complete their training to become Registered Dietitians. Dietitians may work in hospitals, university food service, research, college teaching, or as consultants.

Required Courses in Home Economics	Sem. Hrs.
HEC 120—Food for Man	3
HEC 130—Elementary Foods	3
HEC 232—Food Sanitation and Safety	3
HEC 231—Meal Management	3
HEC 331—Organization and Administration of Food Service I	3
HEC 329—Human Nutrition	3
HEC 334—Quantity Food Preparation	3
HEC 337—Advanced Food Production Management	3
HEC 470—Methods in Teaching Vocational Home Economics or	3
HEC 476—Special Problems	3
HEC 336—Organization and Administration of Food Service II	3
HEC 432—Current Problems in Diet Therapy	3
HEC 433—Diet Therapy	3
HEC 330—Quantity Food Purchasing	3
HEC 536—Advanced Nutrition	3
HEC 335—Food Service Equipment	3
HEC 529—Child Growth and Nutrition	3
HEC 139, 239, 339, or 439—Cooperative Education	4
Additional Requirements	50
SOC 101—General Sociology	3
LSM 101—Library Skills	1
ENG 192—Technical Composition	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
PSY 154—Life-Oriented General Psychology	3
MATH 131—General Mathematics I . . . or	3
MATH 152—College Algebra	3
ECON 101—Introduction to American Economy . . . or	3
ECON 201—Principles of Economics I	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
SPCH 110—Basic Speech	3
BIOL 332—Human Physiology	3
CHEM 326—Organic Chemistry I	4
BSAD 301—Principles of Management	3
BIOL 317—Principles of Microbiology	3
CHEM 595—Biochemistry I	4
PSY 589—Psychology of Learning	3
SOC—Approved Sociology Elective	3

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	16
HEC 120—Food for Man	3
HEC 130—Elementary Foods	3
HEC 232—Food Sanitation and Safety	3
ENG 101—Composition I	3
SOC 101—General Sociology	3
LSM 101—Library Skills	1
Second Semester	16
HEC 231—Meal Management	3
ENG 192—Technical Composition	3

CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Laboratory	1
PSY 154—Life-Oriented General Psychology	3
MATH 131—General Mathematics . . . or	3
MATH 152—College Algebra	3

SOPHOMORE YEAR

First Semester	16
HEC 331—Organization and Administration of Food Service I	3
ECON 101—Introduction to American Economy . . . or	3
ECON 201—Principles of Economics I	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Laboratory	1
SPCH 110—Basic Speech	3
ENG—Literature Elective	3
Second Semester	16
HEC 329—Human Nutrition	3
HEC 334—Quantity Food Preparation	3
BIOL 332—Human Physiology	3
SOC—Sociology Elective	3
PHED—Activity Course	1
Social Science Elective	3

HEC 329—Human Nutrition	3
HEC 334—Quantity Food Preparation	3
BIOL 332—Human Physiology	3
SOC—Sociology Elective	3
PHED—Activity Course	1
Social Science Elective	3

JUNIOR YEAR

First Semester	16
HEC 337—Advanced Food Production Management	3
HEC 470—Methods in Teaching Vocational Home Economics . . . or	3
HEC 476—Special Problems	3
CHEM 326—Organic Chemistry I	4
BSAD 301—Principles of Management	3
Humanities Elective	3
Second Semester	16
HEC 336—Organization and Administration of Food Service II	3
HEC 432—Current Problems in Diet Therapy	3
HEC 433—Diet Therapy	3
BIOL 317—Principles of Microbiology	3
PHED—Activity Course	1
Humanities Elective	3

HEC 336—Organization and Administration of Food Service II	3
HEC 432—Current Problems in Diet Therapy	3
HEC 433—Diet Therapy	3
BIOL 317—Principles of Microbiology	3
PHED—Activity Course	1
Humanities Elective	3

SENIOR YEAR

First Semester	16
HEC 330—Quantity Food Purchasing	3
HEC 536—Advanced Nutrition	3
CHEM 595—Biochemistry I	4
General Electives	6
Second Semester	13
HEC 335—Food Service Equipment	3
HEC 529—Child Growth and Nutrition	3
PSY 589—Psychology of Learning	3
HLTH—Health Elective	3
General Elective	1
HEC 139, 239, 339, or 439—Cooperative Education	4
(Taken any summer semester)	
Total	128

HEC 335—Food Service Equipment	3
HEC 529—Child Growth and Nutrition	3
PSY 589—Psychology of Learning	3
HLTH—Health Elective	3
General Elective	1
HEC 139, 239, 339, or 439—Cooperative Education	4
(Taken any summer semester)	
Total	128

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

Graduates of the interior design area are prepared for positions as interior designers, home furnishings consultant or coordinator, and home furnishings department store manager. Some prefer free-lance assignments or self-owned businesses.

Required Courses in Home Economics	Sem. Hrs.
HEC 240—Textiles	3
HEC 351—Housing	3
HEC 362—Consumer Education	3
HEC 451—Home Furnishings	3
HEC 481—History of Furnishings	3
HEC 350—Merchandise Display and Promotion	3
HEC 352—Problems in Interior Design	3
HEC 343—Household Textiles	3
HEC 480—Historic Textiles	3
Approved Home Economics Electives	10
Additional Requirements	33
ART 291—Color and Design	3
IET 103—Technical Drawing I	3
MATH 135—Mathematics for Technical Students	3

ART 101—Drawing I.....	3
IET 203—Technical Drawing II.....	3
ART 264—Medieval and Renaissance.....	3
BSED 290—Office Accounting.....	3
BSED 221—Business Communications.....	3
BSAD 350—Salesmanship.....	3
ART 564—Modern and Contemporary Art.....	3
ART 565—Arts of the United States II.....	3

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester.....	16
ENG 101—Composition I.....	3
ART 291—Color and Design.....	3
HEC 240—Textiles.....	3
IET 103—Technical Drawing I.....	3
MATH 135—Mathematics for Technical Students.....	3
PHED—Activity Course.....	1
Second Semester.....	16
ENG 102—Composition II.....	3
ART 101—Drawing I.....	3
Social Science Elective.....	3
IET 203—Technical Drawing II.....	3
PHED—Activity Course.....	1
Science or Math Elective.....	3

SOPHOMORE YEAR

First Semester.....	17
ENG 202—Introduction to Literature.....	3
HEC 451—Home Furnishings.....	3
HEC 362—Consumer Education.....	3
ART 264—Medieval and Renaissance.....	3
BSED 290—Office Accounting.....	3
HLTH—Health Elective.....	2
Second Semester.....	15
HEC 351—Housing.....	3
HEC 481—History of Furnishings.....	3
BE 221—Business Communications.....	3
Humanities Elective.....	3
SCI—Science Elective.....	3

JUNIOR YEAR

First Semester.....	17
HEC 350—Merchandise Display and Promotion.....	3
BSAD 350—Salesmanship.....	3
ART—Modern and Contemporary Art.....	3
HEC—Home Economics Electives.....	3
General Elective.....	2
SCI—Science Elective.....	3
Second Semester.....	15
HEC 352—Problems in Interior Design.....	3
HEC 343—Household Textiles.....	3
Social Science Electives.....	6
HEC 480—Historic Textiles.....	3

SENIOR YEAR

First Semester.....	17
ART 565—Arts of the United States II.....	3
HEC—Home Economics Elective.....	3
Social Science Elective.....	3
General Elective.....	8
Second Semester.....	15
HEC 557—Interior Design.....	3
HEC—Home Economics Electives.....	4
SCI—Science Elective.....	3
General Electives.....	5
Total.....	128

1. D. A 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 1000

hours of useful and gainful work experience in order to be vocationally certified.

Required Courses in Home Economics.....	Sem. Hrs.
HEC 130—Elementary Foods.....	3
HEC 141—Basic Clothing Construction.....	3
HEC 231—Meal Management.....	3
HEC 240—Textiles.....	3
HEC 251—Household Equipment.....	3
HEC 329—Human Nutrition.....	3
HEC 351—Housing.....	3
HEC 355—Child Development.....	3
HEC 356—Nursery School.....	3
HEC 362—Consumer Education.....	3
HEC 363—Management of Consumer Resources.....	2
HEC 451—Home Furnishings.....	3
HEC 453—Marriage and Family Living.....	3
HEC 454—Supervised Home Management Experiences.....	4
HEC 470—Methods of Teaching Vocational Home Economics*.....	3
HEC 573—Curriculum Development in Home Economics*.....	3
HEC—Clothing Elective.....	3

Additional Requirements.....	22
EDSE 209—Foundations of Secondary Education.....	2
EDSE 310—Principles of Adolescent Development.....	3
EDSE 477—Professional Semester*.....	17

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

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester.....	15
ENG 101—Composition I.....	3
HEC 130—Elementary Foods.....	3
HEC 251—Household Equipment.....	3
Physical Science Elective.....	3
Human Elective.....	2
PHED—Activity Course.....	1

Second Semester.....	16
ENG 102—Composition II.....	3
HEC 141—Basic Clothing Construction.....	3
HEC 240—Textiles.....	3
MATH—Math Elective.....	3
Biological Science Elective.....	3
PHED—Activity Course.....	1

SOPHOMORE YEAR

First Semester.....	16
General Elective.....	2
HEC 303—Health of the Family.....	3
HEC 362—Consumer Education.....	3
Social Science or Economics Elective.....	3
ENG 201—Introduction to Literature.....	3
Humanities Elective.....	2

Second Semester.....	16
EDSE 209—Foundations of Secondary Education.....	2
HEC 231—Meal Management.....	3
HEC 363—Management of Consumer Resources.....	2
Math or Science Elective.....	3
Communications or Humanities Elective.....	3
Social Science Electives.....	3

JUNIOR YEAR

First Semester.....	17
HEC 355—Child Development.....	3
EDSE 310—Principles of Adolescent Development.....	3
HEC 453—Marriage and Family Living.....	3
Social Science or Economics Elective.....	3
HEC—Clothing Elective.....	3
Humanities Elective.....	2

Second Semester.....	16
HEC 329—Human Nutrition.....	3
HEC 356—Nursery School.....	3
HEC 351—Housing.....	3
HEC 454—Supervised Home Management Experiences.....	4
Social Science or Economics Elective.....	3

SENIOR YEAR	Sem. Hrs.
First Semester	15
HEC 451—Home Furnishings	3
HEC 470—Methods in Teaching Vocational Home Economics	3
HEC 573—Curriculum Development in Home Economics	3
General Elective	6
Second Semester	17
EDSE 477—Professional Semester	17
Total	128

2. A. 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 aspect of business is an excellent complement for this major.

Required Courses in Home Economics	Sem. Hrs.
HEC 130—Elementary Foods	3
HEC 132—Introduction to Food Service	3
HEC 136—Introduction to Restaurant Management	3
HEC 232—Food Sanitation and Safety	3
HEC 320—Elements of Nutrition	or
HEC 329—Human Nutrition	3
HEC 330—Quantity Food Purchasing	3
HEC 331—Organization and Administration of Food Service I	3
HEC 334—Quantity Food Preparation	3
HEC 335—Food Service Equipment	3
HEC 336—Organization and Administration of Food Service II	3
HEC 337—Advanced Food Production Management	3
HEC 139, 239, 339, or 439—Cooperative Education	4
Approved Home Economics Electives	9
Additional Requirements	10
ENG 192—Technical Composition	3
SPCH 110—Basic Speech	3
ART 160—Appreciation of Fine Arts	3
LSIM 101—Use of Books and Materials	1

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	15
HEC 130—Elementary Foods	3
HEC 132—Introduction to Food Service	3
HEC 232—Food Sanitation and Safety	3
ENG 101—Composition I	3
PHED—Health Elective	2
LSIM 101—Use of Books and Materials	1
Second Semester	16
ENG 192—Technical Composition	3
HEC 136—Introduction to Restaurant Management	3
SCI—Physical Science Elective	3
MATH—Math Elective	3
PHED—Activity Course	1
Minor Elective	3
SOPHOMORE YEAR	
First Semester	16
HEC 331—Organization and Administration of Food Service I	3
HEC 334—Quantity Food Preparation	3
SPCH 110—Basic Speech	3
PHED—Activity Course	1
Minor Elective	3
Social Science Elective	3
Second Semester	15
HEC 336—Organization and Administration of Food Service II	3
HEC 337—Advanced Food Production	3
Minor Elective	3
Social Science Elective	3
HEC—Home Economics Elective	3
JUNIOR YEAR	
First Semester	15
HEC 330—Quantity Food Purchasing	3
HEC—Home Economics Elective	3
ART 160—Appreciation of Fine Arts	3
SCI—Science/Math Elective	3
Minor Elective	3

Second Semester	16
HEC 335—Food Service Equipment	3
BIOL—Biological Science Elective	3
ECON—Social Science Elective	3
Minor Elective	3
General Elective	4

SENIOR YEAR	Sem. Hrs.
First Semester	15
HEC—Home Economics Elective	3
ENG—Literature Elective	3
Minor Electives	6
Social Science Elective	3

Second Semester	17
HEC 329—Human Nutrition	3
Humanities Elective	3
General Electives	11
HEC 139, 239, 339, or 449—Cooperative Education	4
(Taken any summer/semester)	
Total	128

2. B. A 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.

Required Courses	Sem. Hrs.
HEC 130—Elementary Foods	3
HEC 141—Basic Clothing Construction	3
HEC 251—Household Equipment	3
HEC 329—Human Nutrition	3
HEC 355—Child Growth and Development	3
HEC 362—Consumer Education	3
HEC 453—Marriage and Family Living	3
HEC 471—Seminar	1
Approved Home Economics Electives	8

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	16
ENG 101—Composition I	3
HEC 130—Elementary Foods	3
HEC 251—Household Equipment	3
MATH—Math Elective	3
Social Science Elective	3
PHED—Activity Course	1
Second Semester	16
ENG 102—Composition II	3
HEC 141—Basic Clothing Construction	3
Biological Science Elective	3
Social Science Elective	3
General Elective	3
PHE—Activity Course	1
SOPHOMORE YEAR	
First Semester	17
ENG—Literature Elective	3
HLTH—Health Elective	2
Social Science Elective	3
General Elective	3
HEC—Home Economics Elective	3
Second Semester	16
Humanities Electives	4
General Electives	6
Science/Math Elective	3
HEC—Home Economics Elective	3
JUNIOR YEAR	
First Semester	15
HEC 355—Child Growth and Development	3
Humanities Elective	3
General Elective	3

Social Science Elective.....	3
HEC—Home Economics Elective.....	3
HEC 362—Consumer Education.....	3
Second Semester.....	6
Humanities Elective.....	2
General Electives.....	6
HEC—Home Economics Elective.....	3
HEC 329—Human Nutrition.....	3
SENIOR YEAR	
First Semester.....	16
HEC 453—Marriage and Family Living.....	3
General Electives (300-500 Level).....	13
Second Semester.....	15
HEC 471—Seminar.....	1
General Electives (300-500 Level).....	14
Total.....	128

3. A. Minor in Food Service Administration:

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

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

3. B. A 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.

Required Courses.....	Sem. Hrs.
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
HEC—Approved Home Economics Electives.....	6

3. C. A 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.

Required Courses.....	Sem. Hrs.
IET 103—Technical Drawing I.....	3
HEC 240—Textiles.....	3
HEC 351—Housing.....	3
HEC 352—Problems in Interior Design.....	3
HEC 451—Home Furnishings.....	3
HEC 481—History of Furnishings.....	3
HEC 557—Interior Design.....	3

4. A. An 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 con-

sultant, comparison shopper, and fashion consultant. Many prefer to operate self-owned businesses.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	16
HEC 141—Basic Clothing Construction.....	3
HEC 240—Textiles.....	3
ART 101—Drawing.....	3
ART 291—Color and Design.....	3
ENG 101—Composition I.....	3
PDI 100—Personal Development.....	1
Second Semester	17
HEC 241—Advanced Clothing Problems.....	3
BSAD 221—Business Communications.....	3
ECON 201—Principles of Economics I.....	3
SPCH 110—Basic Speech.....	3
FNA—Appreciation of Fine Arts.....	3
General Elective.....	2
Summer Work Experience.....	4
Third Semester	15
HEC 343—Household Textiles.....	3
HEC 346—Fashion Fundamentals.....	3
BSAD 350—Salesmanship.....	3
JOUR 364—Feature Writing.....	3
HEC 350—Merchandise Display and Promotion.....	3
Fourth Semester	14
HEC 344—Historic Costume.....	3
JOUR 383—Principles of Advertising.....	3
HEC 380—Clothing for Consumers.....	3
HEC—Home Economics Elective.....	3
General Elective.....	2
Total.....	66

4. B. An Associate of Applied Science degree in Food Service Technology:

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

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	15
HEC 130—Elementary Foods.....	3
HEC 132—Introduction to Food Service.....	3
HEC 232—Food Sanitation and Safety.....	3
ENG 101—Composition I.....	3
PSY 154—Life-Oriented General Psychology OR	
SOC 101—General Sociology.....	3
Second Semester	15
SPCH 110—Basic Speech.....	3
MATH 131—General Mathematics or	
ACCT 281—Principles of Accounting.....	3
HEC 136—Introduction to Restaurant Management.....	3
HEC 231—Meal Management.....	3
BSAD 311—Principles of Personnel Management.....	3
Summer Session.....	4
HEC 139, 239, 339, or 439—Cooperative Study.....	4
Third Semester	15
General Elective.....	3
HEC 330—Quantity Food Purchasing.....	3
HEC 331—Organization and Administration of Food Service I.....	3
HEC 334—Quantity Food Preparation.....	3
HEC 320—Elements of Nutrition.....	3
Fourth Semester	15
General Electives.....	6
HEC 335—Food Service Equipment.....	3

HEC 336—Organization and Administration of Food Service II	3
HEC 337—Advanced Food Production Management.....	3
Total.....	64

4. C. An Associate of Applied Science degree in Interior Decoration.

The two-year associate degree program in interior decoration prepares students for employment as interior decorators or assistant interior decorators, as consultants to consumers in furniture, drapery, and houseware departments in retail stores, as consultants to manufacturers of home furnishings products or to be self-employed.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	16
HEC 240—Textiles	3
ART 291—Color and Design	3
ENG 101—Composition I	3
IET 103—Technical Drawing I	3
MATH 135—Mathematics for Technical Students	3
PDI 100—Personal Development.....	1
Second Semester	18
ART 245—Ceramics I.....	3
ART 264—Medieval and Renaissance	3
BSAD 221—Business Communications	3
IET 203—Technical Drawing II	3
JOUR 383—Principles of Advertising	3
SPCH 110—Basic Speech	3
Third Semester	17
HEC 343—Household Textiles	3
HEC 350—Merchandise Display and Promotion	3
HEC 451—Home Furnishings	3
JOUR 364—Feature Writing.....	3
BSAD 350—Salesmanship.....	3
General Elective	2
Fourth Semester	15
HEC 351—Housing	3
HEC 480—Historic Textiles	3
ART 465—Modern and Contemporary Art.....	3
HEC 352—Problems in Interior Design.....	3
IET 303—Technical Illustration.....	or
HEC 551—Interior Design	3
Total	66

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.

HEC 120. Food for Man. (3-0-3); I, II, III. 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 preparation 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 resident hall, cafeteria, restaurant, industrial unit, and food vending operations for which students may be responsible. Observation of various facilities will supplement laboratory work.

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

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

HEC 220. Nutrition for Nurses. (3-0-3); I, II. Dynamic approach to basic nutrition; food choices for meeting the needs of individuals throughout the life cycle under varying economic, social, and cultural situations; nutrition prob-

lems 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: Home Economics 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.

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

HEC 241. Advanced Clothing Problems. (1-4-3); I, II. Prerequisite: Home Economics 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. Principles of planning an efficient kitchen.

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

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

HEC 329. Human Nutrition. (3-0-3); II. Scientific 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); I. 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: Home Economics 136 or 231. Principles and problems of organization and administration as related to quality food service.

HEC 332. Field Experience in Food Service. (One to four hours); III. Field training in institutional food services 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: Home Economics 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.

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

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

HEC 340. Textile Testing. (0-4-2). Prerequisites: Home Economics 240, Chemistry 102 and Chemistry 102A. Study of textile fiber and fabric testing procedures. Individual research. Taught alternate years.

HEC 341. Flat Pattern Design. (0-4-2). Prerequisites: Home Economics 241 or consent of instructor. Costume design applied to pattern making and sitting using original designs by the students. Taught alternate years.

HEC 343. Household Textiles. (2-2-3); I. Prerequisite: Home Economics 250. Selection, cost, care, standards, and testing of textiles used in the home.

HEC 344. Historic Costume. (3-0-3); II. 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. (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 (1-4-3); II. Historic development of housing in the United States. Implications for housing from social and economic changes. Trends in the field of housing.

HEC 352. Problems in Interior Design. (2-2-3); II. Involves the study and practical experience in selection, arrangement and presentation of colors, fabrics, furnishings and cost estimates for a client. Lecture, laboratory, field trips.

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: Home Economics 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. (Also Business Education 362 — A separate section for business and non-home economics majors is organized to meet special needs.) Appraisal of all segments of consumer goods and services; use of credit; legislation and controls affecting all phases of living. Consumer's role in changing patterns of consumption and the economy. Guidelines for decision making concerning consumer goods and services in family money management.

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

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

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

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

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

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. (Four hours); I, II, III. Prerequisites: Home Economics 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 experiences and group activities. Arrangements for residence must be made in advance.

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. (One-three hours); 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 481. History of Furnishings. (3-0-3); II. In-depth study of the history of furnishings from antiquity to the present. Historical influence on current styles is emphasized.

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); I, III. The study of the application of basic principles of education applied to the teaching of nutrition. Lecture.

HEC 536. Advanced Nutrition. (3-0-3); I. Prerequisite: Home Economics 329 and Biology 332. 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. Prerequisites: Home Economics 130, Chemistry 101 and Chemistry 101A, or consent of instructor. Review and evaluation of published research; experimental methods applied to food research through individual and class investigation.

HEC 541. Tailoring. (1-4-3); I. Prerequisites: Home Economics 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: Six hours in clothing and textiles. Social, psychological, and economic factors in the selection and use of clothing.

HEC 543. Advanced Textile Testing. (1-4-3). Prerequisite: Home Economics 240. Advanced study of textile fibers and fabrics with emphasis on trends in wear and end-use testing. Taught alternate years.

HEC 544. Dyes and Finishes. (2-2-3). Prerequisite: Home Economics 340. Types of dyes and finishes used currently on fibers and fabrics as they affect wear, care, and storage. Taught alternate years.

HEC 545. Clothing Design in Draping. (0-6-3); II. Prerequisite: Home Economics 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 Design. (1-4-3); I, II. Prerequisite: Home Economics 451 or equivalent. Principles and elements of design related to selection and arrangement of furniture; use of fabrics, accessories, and other media used in furnishing a home. A study of periods in furnishings.

HEC 573. Curriculum Development in Home Economics. (3-0-3); I. Prerequisite: Home Economics 470. New development in the secondary and post-secondary programs; consideration of the consumer and home-making 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, III. A course designed for the study and preparation of gourmet foods. Emphasis on foods from different cultural backgrounds and from the geographical regions of the country.

HEC 592. Foods for Special Occasions. (1-4-3); II. Prerequisite: permission of instructor and/or one food preparation course. A lecture-laboratory course with emphasis on planning, preparing and serving foods for special occasions. Including special diets, meal service, special equipment, and various budget levels.

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*
(Trade and Industry)

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
- J. Plastics Technology
- K. Power and Fluids Technology
- L. Radiologic Technology
- M. Reclamation Technology
- N. Welding Technology
- O. Woods Technology

3. A Bachelor of Science degree with a major in industrial education (industrial arts).*

4. A Bachelor of Science degree with a major in industrial technology, with options in:

- A. Broadcast Technology
- B. Construction Technology
- C. Drafting and Design Technology
- D. Electrical Technology
- E. Electronics Technology
- F. Graphic Arts Technology
- G. Industrial Supervision and Management Technology
- H. Machine Tool Technology
- I. Mining Technology
- J. Plastics Technology
- K. Power and Fluids Technology
- L. Radiologic Technology
- M. Reclamation Technology
- N. Welding Technology
- O. Woods Technology

5. A minor in reclamation technology.

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

- A. Broadcast Technology

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

- 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
- J. Power and Fluids Technology
- K. Radiologic Technology
- L. Reclamation Technology
- M. Industrial Education (Vocational Trade and Education)
- N. Welding Technology

Requirements and Suggested Course Sequence

1. A. 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 22 semester hours of professional education courses.

	Sem. Hrs.
Required Courses in Industrial Education.....	45
IET 300—General Shop Organization	3
IET 330—Industrial Design.....	2
IET 475—Teaching Industrial Arts.....	3
IET—Seminar.....	1
IET—Technical Drawing.....	6
IET—Electricity and Electronics.....	6
IET—Graphic Arts.....	6
IET—Metals—Manufacturing	6
IET—Power and Fluids.....	6
IET—Woods—Construction	6
Approved Industrial Education Electives.....	7
Additional Requirements	22
EDSE 209—Foundations of Secondary Education.....	2
EDSE 310—Principles of Adolescent Development.....	3
EDSE 477—Professional Semester	17

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	16
ENG 101—Composition I	3
IET 103—Technical Drawing I	3
IET 100—World of Technology.....	3
MATH 152—College Algebra	3
IET 111—Basic Wood Technics	3
MATH 110—Problem Solving Techniques	1

Second Semester	16
ENG 102—Composition II	3
IET 203—Technical Drawing II	3
IET 211—Wood Technics II.....	3
SCI 105—Introduction to Biological Science.....	3
HLTH 150—Personal Health	2
PHED—Activity Course.....	1
Approved Technical Elective	1

SOPHOMORE YEAR	Sem. Hrs.
First Semester	16
ENG 192—Technical Composition	3
IET 240—Basic Electricity	3
MATH 141—Plane Trigonometry.....	3
IET 186—Manufacturing and Fabrication	3
Social Science Elective.....	3
PHED—Activity Course.....	1

	Sem. Hrs.
Second Semester	17
EDSE 209—Foundations of Secondary Education	2
PHYS 202—Elementary Physics II	4
IET 286—General Metals II	3
SPCH 110—Basic Speech	3
History Elective	3
IET 330—Industrial Design	2
JUNIOR YEAR	
First Semester	15
IET 102—Graphic Arts I	3
IET 160—Introduction to Power and Fluids	3
Humanities Elective	3
Social Science Elective	3
IET 241—Basic Electronics	3
Second Semester	16
IET 300—General Shop Organization	3
EDSE 310—Principles of Adolescent Development	3
SPCH 370—Business and Professional Speech	3
IET 261—Power Mechanics	3
IET 202—Graphic Arts II	3
IET 471—Seminar	1
SENIOR YEAR	
First Semester	15
IET 475—Teaching Industrial Arts	3
Economic Elective	3
HIS 385—Technology and America	3
Approved Technical Electives	6
Second Semester	17
ED 477—Professional Semester	17
Total	128

1. B. A 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 have no technical competency or who have technical backgrounds and desire the bachelor's degree and wish to become teachers of vocational industrial education. In addition to other course requirements one must also meet one of the following work experience requirements: 1. Must have three years of successful work experience (which can be validated) in the trade in which he proposes to teach; 2. or a supervised work experience component of preparation consisting of a minimum of 2,000 hours in the teachable industrial occupation.

	Sem. Hrs.
Required Courses in Industrial Education	21
IET 320—Supervisory Practices	3
IET 390—Principles of Trade and Industrial Education	2
IET 391—Trade and Technical Analysis	2
IET 392—Instructional Materials	2
IET 393—Methods in Vocational Industrial Education	3
IET 394—Student Teaching in Vocational Educational	8
IET—Seminar	1
Approved Industrial Educational Electives	48

(Electives must be approved by the student's adviser and must be technical laboratory courses in the area in which the individual proposes to teach. A maximum of 18 semester hours of this requirement may be met by a proficiency examination. A maximum of nine semester hours may be allowed for supervised work experience.)

Suggested Course Sequence

	Sem. Hrs.
FRESHMAN YEAR	
First Semester	16
ENG 101—Composition I	3
IET 100—World of Technology	3
Technical Emphasis	6
MATH—Science/Math Elective	3
PHED—Activity Course	1

Second Semester	16
ENG 192—Technical Composition	3
IET 103—Technical Drawing I	3
Approved Emphasis Electives	6
Physical Science Elective	3
PHED—Activity Course	1
Summer Session	3
Supervised Work Experience	3

SOPHOMORE YEAR

First Semester	16
ENG 591—Technical Writing	3
IET 390—Principles of Trade and Industrial Education	2
BIOL—Biological Science Elective	3
Technical Electives	5
Social Science Elective	3
Second Semester	16
IET 393—Methods in Vocational Industrial Education	3
IET—Seminar in Vocational Education	1
Approved Emphasis Electives	3
SPCH 110—Basic Speech	3
Technical Elective	3
Science/Math Elective	3
Summer Session	3
Supervised Work Experience	3

JUNIOR YEAR

First Semester	16
IET 391—Trade and Technical Analysis	2
Industrial Safety	3
Social Science Elective	3
Technical Emphasis	8

Second Semester	16
IET 392—Instructional Materials	2
Approved Emphasis Elective	3
Social Science Elective	3
Humanities Elective	3
Technical Electives	5
Summer Session	3
Supervised Work Experience	3

SENIOR YEAR

First Semester	15
IET 320—Supervisory Practices	3
Approved Emphasis Elective	4
Social Science Elective	3
Humanities Elective	3
HLTH 150—Personal Health	2

Second Semester	8
IET 394—Student Teaching in Vocational Education	8
Total	128

2. A 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.

	Sem. Hrs.
Required Courses in Industrial Technology	16
IET 103—Technical Drawing I	3
IET 317—Time and Motion	2
IET 319—Quality Control	3
IET 320—Supervisory Practices	3
IET 330—Industrial Design	2
IET 472—Industrial Practicum	2
IET—Seminar	1
Approved Electives in Emphasis	15
(Approved electives in either science and math, or in business and economics.)	
Approved Electives in Option	21

(Electives must be approved by the student's adviser 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, reclamation technology, welding technology, or woods technology.)

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	16
ENG 101—Composition I	3
IET 103—Technical Drawing I	3
IET 100—World of Technology	3
MATH 152—College Algebra	3
MATH 110—Problem Solving Techniques	1
IET 240—Basic Electricity	3
Second Semester	15
ENG 102—Composition II	3
MATH 141—Plane Trigonometry	3
Technical Elective	3
IET 241—Basic Electronics	3
IET 243—Electric Power	3
SOPHOMORE YEAR	
First Semester	16
HLTH 150—Personal Health	2
PHED—Activity Course	1
ENG 192—Technical Composition	3
IET 244—Electrical Drafting and Design	3
Social Science Elective	3
Technical Elective	4
Second Semester	16
SPCH 110—Basic Speech	3
History Elective	3
Social Science Elective	3
SCI 105—Introduction to Biological Science	3
Technical Elective	4
JUNIOR YEAR	
First Semester	16
Social Science Elective	3
IET 319—Quality Control	3
SPCH 370—Business and Professional Speech	3
IET 338—FCC License	1
Technical Electives	6
Second Semester	17
IET 330—Industrial Design	2
IET 317—Time and Motion	2
IET 341—Transistors and Semi-conductors	3
Math/Science Elective	3
Technical Electives	7
SENIOR YEAR	
First Semester	16
IET 320—Supervisory Practices	3
Economics Elective	3
PHYS 202—Elementary Physics II	4
Technical Electives	6
Second Semester	16
IET 472—Industrial Practicum	2
HIS 385—Technology and America	3
IET 473—Seminar	1
Humanities Elective	3
Technical Electives	7
Total	128

The preceding 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.

3. A Bachelor of Science degree with a Major in Industrial Education:

Required Courses in Industrial Education	Sem. Hrs.
IET—Seminar	1
IET 300—General Shop Organization	3
IET 475—Teaching Industrial Arts	3
IET—Technical Drawing	6
IET—Metals-Manufacturing	6
Woods-Construction	6
Approved Electives	11

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

Additional Requirements	22
EDSE 209—Foundations of Secondary Education	2
EDSE 310—Principles of Adolescent Development	3
EDSE 477—Professional Semester	17

Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Semester	16
ENG 101—Composition I	3
IET 103—Technical Drawing	3
IET 100—World of Technology	3
MATH 152—College Algebra	3
IET 111—Basic Wood Technics	3
MATH 110—Problem Solving Techniques	1
Second Semester	16
ENG 102—Composition II	3
IET 203—Technical Drawing II	3
IET 211—Wood Technics II	3
SCI 105—Introduction to Biological Science	3
HLTH 150—Personal Health	2
PHED—Activity Course	1
General Elective	1
SOPHOMORE YEAR	
First Semester	15
Approved Electives	3
ENG 192—Technical Composition	3
IET 240—Basic Electricity	3
MATH 141—Trigonometry	3
Social Science Elective	3
PHED—Activity Course	1
Second Semester	17
EDSE 209—Foundations of Secondary Education	2
PHYS 202—Elementary Physics II	4
IET 288—General Metals II	3
SPCH 110—Basic Speech	3
History Elective	2
General Elective	3
JUNIOR YEAR	
First Semester	15
IET 102—Graphic Arts I	3
Approved Electives	6
Humanities Elective	3
Social Science Elective	3
Second Semester	16
IET 300—General Shop Organization	3
EDSE 310—Principles of Adolescent Development	3
SPCH 370—Business and Professional Speech	3
HIS 385—Technology and America	3
Approved Electives	4
SENIOR YEAR	
First Semester	16
IET 475—Teaching Industrial Arts	3
IET 471—Seminar for Industrial Arts	1
Economics Elective	3
General Electives	9
Second Semester	17
EDSE 477—Professional Semester	17
Total	128

General electives may also be taken in industrial education or a related area by students wishing greater depth in the field.

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

	Sem. Hrs.
Required Courses in Industrial Technology	14
IET 103—Technical Drawing I	3
IET 317—Time and Motion	2
IET 319—Quality Control	3
IET 320—Supervisory Practices	3
IET 330—Industrial Design	2
IET—Seminar	1
Approved Electives in Option	16

(Electives must be approved by the student's adviser 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, reclamation technology, welding technology, or woods technology.)

5. A Minor in Reclamation Technology:

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

6. A. An 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

	Sem. Hrs.
First Semester	16
IET 103—Technical Drawing I	3
IET 240—Basic Electricity	3
R-TV 151—Introduction to Broadcast Techniques	2
ENG 101—Composition I	3
IET—Approved Industrial Technology Elective	2
R-TV 155—Broadcast Performance	3
Second Semester	17
IET 241—Basic Electronics	3
IET 341—Transistors and Semi-conductors	3
IET 338—FCC License	1
R-TV 250—Audio Production and Direction	4
MATH 152—College Algebra	3
ENG 192—Technical Composition	3
Third Semester	16
IET 440—Industrial Electronics	3
IET 342—Communications Electronics	3
MATH 141—Plane Trigonometry	3
R-TV 340—Video Production and Direction I	3
MATH 110—Problem Solving Techniques	1
IET 244—Electrical Drafting and Design	3
Fourth Semester	15
IET 346—Transmitter Electronics	4
IET 345—Television Electronics	4
PHYS 202—Elementary Physics II	4
IET 320—Supervisory Practices	3
Total	64

6. B. An Associate of Applied Science degree in Construction Technology

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

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	16
CON 101—Introduction to Construction Technology	3
CON 201—Properties of Construction Materials	3
ENG 101—Composition I	3
MATH 135—Mathematics for Technical Students	3
MATH 110—Problem Solving Techniques	1
CON 203—Construction Methods and Equipment	3
Second Semester	15
CON 103—Materials Testing	3
CON 102—Surveying I	3
IET 103—Technical Drawing I	3
IET 344—Residential Wiring	2
Approved Technical Elective	4
Third Semester	16
CON 104—Surveying II	3
CON 202—Structural Design	3
CON 204—Codes, Contracts and Specifications	3
IET 349—Industrial Wiring	4
IET 305—Housing	3
Fourth Semester	17
ENG 192—Technical Composition	3
CON 205—Estimating and Construction Costs	3
CON 206—Construction Management	3
IET 111—Basic Wood Technics	3
Approved Technical Elective	2
IET 320—Supervisory Practices	3
Total	64

6. C. An 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

	Sem. Hrs.
First Semester	16
IET 103—Technical Drawing I	3
IET 111—Basic Wood Technics	3
ENG 101—Composition I	3
MATH 152—College Algebra	3
MATH 110—Problem Solving Techniques	1
IET 160—Introduction to Power and Fluid Mechanics	3
Second Semester	17
IET 203—Technical Drawing II	3
IET 286—General Metals II	3
IET 317—Time and Motion Study	2
MATH 141—Plane Trigonometry	3
ENG 192—Technical Composition	3
IET 186—Manufacturing Fabrication	3
Third Semester	15
IET 319—Quality Control	3
IET 204—Descriptive Geometry	3
IET 301—Tool Layout and Design	3
IET 305—Housing	3
CON 202—Structural Design	3

Fourth Semester	16
IET 404—Architectural Drawing	3
IET 330—Industrial Design	2
IET 303—Technical Illustration	3
General Elective	2
IET 403—Machine Drawing and Design	3
IET 320—Supervisory Practices	3
Total	64

6. D. An 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

First Semester	Sem. Hrs. 16
MATH 110—Problem Solving Techniques	1
IET 103—Technical Drawing I	3
IET 240—Basic Electricity	3
ENG 101—Composition I	3
MATH 152—College Algebra	3
Approved Technical Elective	3
Second Semester	16
IET 241—Basic Electronics	3
IET 243—Electric Power	3
MATH 141—Plane Trigonometry	3
ENG 192—Technical Composition	3
IET 344—Residential Wiring	2
Approved Technical Elective	2
Third Semester	16
IET 244—Electrical Drafting and Design	3
IET 348—Motors and Generators	4
IET 349—Industrial Wiring	4
PHYS 202—Elementary Physics II	4
Approved Technical Elective	1
Fourth Semester	16
IET 340—Motor Control Devices	4
IET 347—Power Transformers and Distribution	4
IET 472—Basic Industries Practicum	2
Approved Technical Electives	6
Total	64

6. E. An 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 electronics. Graduates are usually employed at the technical or supervisory level in salaried positions.

Requirements and Suggested Course Sequence

First Semester	Sem. Hrs. 16
MATH 110—Problem Solving Techniques	1
IET 240—Basic Electricity	3
IET 103—Technical Drawing I	3
ENG 101—Composition I	3
MATH 152—College Algebra	3
Approved Technical Elective	3
Second Semester	16
IET 241—Basic Electronics	3
IET 243—Electric Power	3
IET 341—Transistors and Semi-conductors	3
IET 338—FCC License	1
ENG 192—Technical Composition	3
MATH 141—Plane Trigonometry	3
Third Semester	17
IET 342—Communications Electronics	3

IET 440—Industrial Electronics	3
IET 319—Quality Control	3
IET 244—Electrical Drafting and Design	3
IET 320—Supervisory Practices	3
IET 344—Residential Wiring	2
Fourth Semester	15
IET 345—Television Electronics	4
IET 346—Transmitter Electronics	4
IET 317—Time and Motion Study	2
PHYS 202—Elementary Physics II	4
Approved General Elective	1
Total	64

6. F. An 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

First Semester	Sem. Hrs. 16
IET 102—Graphic Arts I	3
IET 103—Technical Drawing I	3
ENG 101—Composition I	3
JOUR 101—Introduction to Mass Communications	3
Approved Technical Elective	3
MATH 110—Problem Solving Techniques	1
Second Semester	17
IET 202—Graphic Arts II	3
IET 302—Offset Lithography	3
ART 101—Drawing	2
MATH 135—Mathematics for Technical Students	3
JOUR 305—Newspaper Typography and Design	3
ENG 192—Technical Composition	3
Third Semester	16
IET 319—Quality Control	3
IET 322—Photography	2
IET 350—Machine Composition I	3
BSAD 160—Introduction to Business	3
Approved Technical Elective	2
IET 320—Supervisory Practices	3
Fourth Semester	15
IET 351—Graphic Duplication	2
IET 450—Machine Composition II	3
ART 291—Color and Design	3
BSAD 350—Salesmanship	3
Approved Technical Elective	2
IET 317—Time and Motion Study	2
Total	64

6. G. An 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. Graduates are well prepared in communications and supervisory management skills.

Requirements and Suggested Course Sequence

First Semester	Sem. Hrs. 16
IET 100—World of Technology	3
MATH 135—Technical Math	3

IET 103—Technical Drawing I	3
ENG 101—Composition I	3
MATH 110—Problem Solving Techniques	1
Approved Technical Elective	3
Second Semester	15
ENG 192—Technical Composition	3
IET 186—Manufacturing and Fabrication	3
IET 240—Basic Electricity	3
BSAD 160—Introduction to Business	3
CON 103—Materials Testing	3
Third Semester	17
IET 320—Supervisory Practices	3
IET 319—Quality Control	3
IET 327—Applied Industrial Management	3
SPCH 370—Business and Professional Speech	3
Approved Technical Electives	5
Fourth Semester	16
IET 422—Industrial Safety Standards and Enforcement	3
PSY 353—Industrial Psychology	3
IET 317—Time and Motion Study	2
HIS 385—Technology in America	2
IET 499—Numerical Control	4
General Elective	1
Total	64

6. H. An 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 levels. This program includes work in drafting-design, electronics, plastics, quality control and time and motion.

Requirements and Suggested Course Sequence

First Semester	16
MATH 110—Problem Solving Techniques	1
IET 103—Technical Drawing I	3
IET 160—Introduction to Power and Fluid Mechanics	3
ENG 101—Composition I	3
MATH 135—Mathematics for Technical Students	3
IET 186—Manufacturing Fabrication	3
Second Semester	16
IET 203—Technical Drawing II	3
IET 204—Descriptive Geometry	3
IET 286—General Metals II	3
MATH 152—College Algebra	3
IET 240—Basic Electricity	3
Approved Technical Elective	1
Third Semester	16
IET 319—Quality Control	3
IET 301—Tool Layout and Design	3
IET 386—Welding	3
IET 388—Machine Shop I	3
ENG 192—Technical Composition	3
Approved Technical Elective	1
Fourth Semester	16
IET 303—Technical Illustration	3
IET 306—Plastics Mold Design and Construction	3
IET 330—Industrial Design	2
IET 486—Pattern Making and Foundry	2
IET 488—Machine Shop II	3
IET 320—Supervisory Practices	3
Total	64

6. I. An Associate of Applied Science degree in Mining Technology:

The mining technology program is designed to produce a technician for entry-level management positions with compe-

tencies in surveying, mine hydraulics, safety and accident prevention, roof and rib control, ventilation, electricity, safety codes, the use of mine machinery, and the handling of explosives.

Requirements and Suggested Course Sequence

First Semester	16
MIN 101—Fundamentals of Mining Safety Engineering	3
IET 103—Technical Drawing I	3
ENG 101—Composition I	3
MATH 135—Mathematics for Technical Students	3
MATH 110—Problem Solving Techniques	1
IET 160—Introduction to Power and Fluids Mechanics	3
Second Semester	17
CON 102—Surveying I	3
MIN 103—Mining Drafting	3
IET 240—Basic Electricity	3
ENG 102—Technical Composition	3
IET 386—Welding	3
MIN 199—Mine Safety Practices I	2
Third Semester	15
MIN 201—Mining Equipment, Controls and Application	3
MIN 202—Mine Design, Ventilation and Drainage	3
MIN 203—Mine Electrical Systems and Installation	3
MIN 102—Mining Surveying	3
GEOS 200—Coal Mine Geology	3
Fourth Semester	16
MIN 204—Coal Preparation and Waste Disposal	3
MIN 205—Mining Laws and Management	3
MIN 206—Mine Systems Technology	3
AGR 207—Land Conservation and Forest Management	3
IET 320—Supervisory Practices	3
Approved Technical Elective	1
Total	64

6. J. An 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

First Semester	16
IET 160—Introduction to Power and Fluids Mechanics	3
IET 262—Fluid Power I	3
ENG 101—Composition I	3
MATH 152—College Algebra	3
Approved Technical Elective	4
Second Semester	16
IET 261—Power Mechanics	3
IET 362—Fluid Power II	3
IET 103—Technical Drawing I	3
IET 317—Time and Motion Study	2
MATH 110—Problem Solving Techniques	1
Approved Technical Elective	4
Third Semester	16
IET 360—Internal Combustion Engines I	3
IET 365—Instrumentation	3
IET 240—Basic Electricity	3
IET 319—Quality Control	3
IET 320—Supervisory Practices	3
General Elective	1
Fourth Semester	16
IET 463—Heating Ventilating and Air Conditioning	3
IET 460—Internal Combustion Engines II	3
ENG 192—Technical Composition	3
PHYS 201—Elementary Physics I	4
General Elective	3
Total	64

6. K. 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 fifty percent of the time gaining clinical experience in an affiliated hospital.

Requirements and Suggested Course Sequence

FRESHMAN YEAR	Sem. Hrs.
First Summer Session	4
ENG 101—Composition I	3
RAD 101—Orientation to Radiologic Technology	1
Second Summer Session	4
RAD 102—Introduction to Clinical Practice	3
RAD 103—Seminar of Medical Terminology	1
Fall Semester (First 9 Weeks)	9
RAD 104—Radiographic Anatomy and Positioning I	3
RAD 105—Radiographic Technique	3
MATH 135—Mathematics for Technical Students	3
Fall Semester (Second 9 Weeks)	5
RAD 110—Clinical Internship I	4
RAD 111—Seminar of Nursing Procedures	1
Spring Semester (First 9 Weeks)	9
RAD 201—Radiographic Anatomy and Positioning II	3
RAD 202—Radiographic Technique II	3
RAD 203—Radiation Electronics	3
Spring Semester (Second 9 Weeks)	5
RAD 204—Clinical Internship II	4
RAD 205—Seminar of Film Critique I	1
SOPHOMORE YEAR	Sem Hrs.
Interession	3
ENG 102—Composition II or	
ENG 192—Technical Composition	3
First Summer Session	5
RAD 210—Clinical Internship III	4
RAD 211—Seminar of Film Critique II	1
Second Summer Session	3
RAD 212—Radiation Safety	3
Fall Semester (First 9 Weeks)	5
RAD 301—Clinical Internship IV	4
RAD 302—Seminar of Film Critique III	1
Fall Semester (Second 9 Weeks)	8
RAD 303—Advanced Radiographic Procedures	3
RAD 304—Radiation Physics	3
General Elective	2
Spring Semester (First 9 Weeks)	5
RAD 305—Clinical Internship V	4
RAD 310—Seminar of Radiographic Pathology	1
Spring Semester (Second 9 Weeks)	9
RAD 311—Comprehensive Practice of Radiologic Technology	3
RAD 312—Departmental Administration	3
PSY—Psychology Elective	3
Total	74

6. L. An 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 posi-

tions where land environmental protection is a major consideration. Students develop an understanding of legal aspects of reclamation, federal and state health and safety requirements, surface mining methods, proper land-use concepts, map drafting and report writing, as well as environmental testing procedures.

Requirements and Suggested Course Sequence

	Sem. Hrs.
First Semester	16
MATH 135—Mathematics for Technical Students	3
GEOS 200—Coal Mine Geology	3
IET 103—Technical Drawing I	3
MIN 101—Fundamentals of Mining and Safety Engineering	3
MATH 110—Problem Solving Techniques	1
Approved Technical Elective	3
Second Semester	16
CHEM 101—General Chemistry I	3
CON 102—Survey I	3
MIN 103—Mining Drafting (Cartography)	3
ENG 101—Composition I	3
GEOS 350—Geomorphology	3
CHEM 101A—General Chemistry I Laboratory	1
Third Semester	16
RCL 301—Reclamation Laws and Regulations	3
IET 320—Supervisory Practices	3
RCL 302—Reclamation Management and Systems Planning I	4
AGR 211—Soils	3
CON 104—Surveying II	3
Fourth Semester	16
MIN 205—Mining Laws and Management	3
ENG 192—Technical Composition	3
RCL 303—Reclamation Management and Systems Planning II	4
AGR 207—Land Conservation and Forest Management	3
Approved Technical Elective	3
Total	64

6. M. An 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 proposes to teach or must earn 4,000 hours of approved and supervised work experience.

	Sem. Hrs.
Required Industrial Education Courses	17
IET 320—Supervisory Practices	3
IET 390—Principles of Trade and Industrial Education	2
IET 391—Trade and Technical Analysis Techniques	2
IET 392—Instructional Materials	2
IET 393—Methods in Vocational Industrial Education	3
IET 394—Student Teaching in Vocational Industrial Education	4
IET—Seminar	1
Approved Industrial Education Electives	4
Approved Technical Education Electives	18
(Technical laboratory courses in the area in which the individual proposes to teach. A maximum of nine hours of this requirement may be met by a proficiency examination.)	
Additional Requirements	25
ENG—Electives	6
ENG 101—Composition I	3
English or Speech Elective	3
Approved Math or Science Electives	6
Social Science or Humanities Elective	3
Approved General Elective	4

6. N. An 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	16
WEL 101—Oxyacetylene Welding	3
WEL 101A—Oxyacetylene Welding Laboratory	3
IET 103—Technical Drawing I	3
IET 186—Manufacturing and Fabrication	3
MATH 135—Mathematics for Technical Students	3
MATH 110—Problem Solving Techniques	1
Second Semester	16
WEL 102—Arc Welding	3
WEL 102A—Arc Welding Laboratory	3
ENG 101—Composition I	3
IET 240—Basic Electricity	3
IET 317—Time and Motion Study	2
Approved Technical Elective	2
Third Semester	17
WEL 201—Inert Gas Welding	3
WEL 201A—Inert Gas Welding Laboratory	3
WEL 205—Welding Metallurgy	3
WEL 205A—Welding Metallurgy Laboratory	1
ENG 101—Composition I	3
IET 319—Quality Control	3
Approved Technical Elective	1
Fourth Semester	15
WEL 202—Weld Joint Design and Testing	3
WEL 202A—Weld Joint Design and Testing Laboratory	3
WEL 204—Welding Codes and Blueprint Reading	3
ENG 192—Technical Composition	3
IET 320—Supervisory Practices	3
Total	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.

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 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 includes 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 106. Thermoplastic Processing. (2-2-3); I. Prerequisite: Industrial Education 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: Industrial Education 103. Study is made as to the various ways in which thermosetting plastic compounds are processed.

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, exhaust emissions are studied.

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

IET 202. Graphic Arts II. (1-4-3); II. Prerequisite: Industrial Education

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 (letterpress 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: Industrial Education 103 and sophomore standing. Breadth and depth is derived from the background of principles and techniques developed previously in technical drawing.

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

IET 211. Advanced Wood Technics. (2-2-3); I, II. Prerequisite: Industrial Education 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. (1-2-2-2); I, II. 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 240. Basic Electricity. (2-2-3); I, II, III. Ohms Law, series and parallel circuits, Kirchoffs Laws, magnetism, electrical measuring instruments, transformers, inductance, capacitance, introduction to electronics.

IET 241. Basic Electronics. (2-2-3); I, II. Prerequisite: Industrial Education 240 or consent of the instructor. Impedance, Resonance, Vectors, introduction to semi-conductors, elementary radio.

IET 243. Electric Power. (2-2-3); II. Prerequisite: Industrial Education 241 or consent of the instructor. 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); I. Prerequisites: Industrial Education 240, 241, and 243 or consent of the instructor. Electrical drafting and design related to the industrial wiring of motors, generators, controls, lighting, transformers, and power distribution.

IET 261. Power Mechanics. (2-2-3); I. Control mechanisms are studied along with rocket engines, various forms of jet engines and advanced power systems.

IET 262. Fluid Power I. (2-2-3); II. Beginning construction in the area of power transfer devices utilizing fluid techniques. Primary emphasis is given to hydraulic and pneumatic systems.

IET 286. General Metals II. (2-2-3); II. Prerequisite: Industrial Education 186 or consent of instructor. Various metal forming and machining experiences, emphasis on exact tolerances and precise dimensions. Foundry, lathe, mill, shaper and grinder experiences.

IET 300. General Shop Organization. (2-2-3); II. Prerequisite: Second semester junior or first semester senior standing and admission to teacher education program. Students will be introduced to concepts of organization and administration of the general shop and identification and understanding of major concepts in industry which may be taught by integrating tools, materials, and processes.

IET 301. Tool Layout and Design. (2-2-3); I. Prerequisite: Industrial Education 203. The layout and design of machine tool jigs and fixtures; simple blanking, forming, and piercing dies; and plastics processing dies.

IET 302. Offset Lithography. (1-4-3); II. Prerequisite: Industrial Education 202. The study of the history and fundamentals of photo offset lithography in the graphic arts industry. Experience is achieved in copy preparation (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: Industrial Education 203. A study of the principles, practices and techniques used in industry to describe complex mechanisms.

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

IET 306. Mold Design and Construction. (2-2-3); II. Prerequisites: Consent of the instructor. (Recommended courses 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 311. Design and Construction. (1-4-3); II. Prerequisite: Industrial Education 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. Prerequisite: Upper divi-

sion standing. Process charts, analysis of methods, materials, tools and equipment of industry for profit improvement.

IET 319. Quality Control. (2-2-3); I. Prerequisite: Upper division standing. 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 322. Photography. (1-2-2); I. An 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 327. Applied Industrial Management. (3-0-3); I, II. A study of basic industrial management practices and procedures. Designed to serve the technician, first-line supervisor or lay management individual to provide an awareness rather than to prepare a practitioner of management. Students will visit regional industries.

IET 330. Industrial Design. (1-2-2); II. Prerequisite: Upper division students of industrial education. Product design with emphasis upon modular systems, consumer reactions, and manufacturing capabilities. Individual and group activities using interdisciplinary and systems design techniques.

IET 338. FCC License. (1-0-1); I, II. Theory and practice to aid students in obtaining a Federal Communications Commission Third Class Radio Telephone License with Broadcast Endorsement.

IET 340. Motor Control Devices. (3-2-4); II. Prerequisites: Industrial Education 240, 241, and 243 or consent of instructor. The study of both magnetic and static motor control circuits and devices with practice in practical applications and trouble-shooting.

IET 341. Transistors and Semi-conductors. (2-2-3); II. Prerequisite: Industrial Education 241 or consent of the instructor. Diodes, transistors, power supplies, audio-amplifier design.

IET 342. Communications Electronics. (2-2-3); I. Prerequisite: Industrial Education 241 or consent of the instructor. Theory of radio and T.V. receivers and transmitters. Radio and T.V. receiver servicing. Vacuum tube theory and practice.

IET 344. Residential Wiring. (1-2-2); I, II. Theory and practice of wiring new and old houses or farm buildings according to the National Electric Code.

IET 345. Television Electronics. (3-2-4); II. Prerequisites: Industrial Education 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: Industrial Education 342 or consent of instructor. Preparing for passing the First Class Radio-Telephone 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: Industrial Education 240, 241, 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: Industrial Education 240, 241, 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: Industrial Education 240, 344, 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 350. Machine Composition I. (1-4-3); I. Prerequisite: Industrial Education 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, Industrial Education 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 360. Internal Combustion Engines I. (2-2-3); I, II. Study of operating cycle and maintenance procedures on spark ignition, diesel, and wankel engines.

IET 362. Fluid Power II. (2-2-3); II. Prerequisite: Fluid Power I. 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). 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); I. Techniques of properly instrumenting test calls with such devices as pitot tubes, manometers and electronic devices.

IET 381. Related Science, Mathematics, and Technology in Occupations—offered only through written examination. (0-0-6); I, II, III. 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); I, II, III. 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 383. Knowledge of related subjects in occupations—offered only through oral examinations. (0-0-6); I, II, III. 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 386. Welding. (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 non-destructive testing.

IET 388. Machine Shop I. (2-2-3); I. Prerequisite: Industrial Education 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 390. Principles of Trade and Industrial Education. (2-0-2); II. The history of vocational education, educational implications, types of curriculums, types of schools, occupational preparations, and vocational guidance.

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 a course outline.

IET 392. Instructional Materials. (2-0-2); II. Prerequisite: Industrial Education 391. This course aids the prospective instructor in visualizing the overview of the subject or trade he is to teach and how to organize the teaching material into a concise and logical arrangement for the most effective teaching.

IET 393. Methods in Vocational Industrial Education. (3-0-3); I. Basic principles of teaching and learning with practical applications and procedures used in industrial education programs.

IET 394. Student Teaching in Vocational Industrial Education. (Four to eight hours); I, II, III. Prerequisite: Industrial Education 393. Directed observations and supervised teaching in an 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 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. (One to three hours); I, II, III. Prerequisite: permission of the instructor. Individual problems dealing with specific areas in the teaching field of the student. Opportunity of pursuing a technical problem in a laboratory orientation is provided. Conferences with the instructor are scheduled as needed.

IET 398. Supervised Work Experience. (One to nine hours); I, II, III. Prerequisite: 20 hours in major department and consent of the department head. 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 major department. Credit will be commensurate with the amount of time worked. The student will be supervised by faculty from his

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 403. Machine Drawing and Design. (2-2-3); II. Prerequisite: Industrial Education 301. Mathematical and graphic solutions of problems involving the principles of machine elements. A study of motions of linkages, velocities and accelerations 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: Industrial Education 305. A technical course covering the fundamental principles, techniques and practices of residential and selected commercial architecture.

IET 411. Wood Technics. (2-2-3); II. Prerequisite: Industrial Education 111, 211. A study of the problems and processes of the major wood industries in the United States. Various industrial processes, application and testing are utilized in mass production and individual projects.

IET 422. Industrial Safety Standards and Enforcement. (3-0-3); I, II. A study of industrial safety codes, standards, regulations, and enforcement procedures. Explanations of worker safety as related to attitude and production. Review of current laws regulating safety and those agencies related to enforcement and training.

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

IET 450. Machine Composition II. (1-4-3); II. Prerequisite: Industrial Education 350. A follow-up course to Machine Composition I, (IET 350) 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.

IET 460. Internal Combustion Engines II. (2-2-3); I, II. Prerequisite: Internal Combustion Engines I. Detailed study of exhaust emissions and the gas turbine engine.

IET 463. Heating, Ventilation and Air Conditioning. (2-2-3); I, II. A study of the ventilating and heating techniques in modern industrial applications. Also includes industrial air conditioning and refrigeration.

IET 471. Seminar for Industrial Arts. (1-0-1); I, II. Prerequisite: Second semester junior or senior standing. Through informal discussions, participants will be expected to develop a further understanding of the underlying concepts of the industry and education.

IET 472. Basic Industries Practicum. (1-2-2); II. Prerequisite: Upper division standing in Industrial Education. A study of basic industry through lecture-discussion, reports, and field trips. Emphasis will be placed on direct contact with local industry through a minimum of seven field trips.

IET 473. Seminar for Industrial Technology. (1-0-1); I, II. Prerequisite: Senior industrial technology major. Each student assumes the responsibility for one or more programs followed by an informal discussion. Faculty presentations enrich the experience by raising real problems and issues confronting the industrial technology graduate.

IET 475. Teaching Industrial Arts. (3-0-3); I, II. Prerequisite: Second semester junior or senior standing. (Should be taken just prior to professional semester.) Must be admitted to teacher education program. A study of the objectives of industrial arts and related behavioral changes; industrial arts curricular patterns and trends; selection and organization of subject matter; problem selection and the project method of teaching; instructional materials and teaching aids; testing and evaluation; and professional growth.

IET 476. Special Problems. (One to three hours); I, II, III. Prerequisite: Upper division standing. 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 486. Patternmaking and Foundry. (1-2-2); II. Casting of hot metals with activities in pattern development, sand testing, and mold design.

IET 448. Machine Shop II. (1-4-3); II. Prerequisite: Industrial Education 388. Advanced tool and machining theory, use of carbides with emphasis on production machining. Turret and progressive tooling design.

IET 496. Organization and Management of the Laboratory. (2-0-2); III. Prerequisite: Industrial Education 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 industrial education.

IET 520. Industrial Arts for the Elementary Teacher. (2-2-3); III. 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); II. Study of the philosophical positions underlying the development of industrial education; leaders, their influence and contributions; contemporary educational theories affecting the current programs of industrial education.

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

IET 590. Supervised Internship. (One to six hours); I, II, III. 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 a secondary, post-secondary or higher education institution or for the State Bureau of Vocational Education in an administrative capacity approved by his adviser.

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

Construction Technology

CON 101. Introduction to Construction Technology. (3-0-3); I. Discussions 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 standards 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.

Mining Technology

MIN 101. Fundamentals of Mining and Safety Engineering. (3-0-3); I, II. An overview course of the basic first aid techniques as well as the technical and safety problems inherent in the production of coal.

MIN 102. Mining Surveying. (1-4-3); II. The use of transit in above ground and underground surveying. Techniques related to location of benchmarks, plotting of shafts and passageways, and the safety precautions used in mine surveying.

MIN 103. Mining Drafting. (1-4-3); II. 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 skills used.

MIN 201. Mining Equipment, Controls, and Applications. (3-0-3); I. 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. Analysis of approaches to mine design, methods and purposes of ventilation and drainage. Safety factors in design, ventilation and drainage are stressed throughout.

MIN 203. Mine Electrical Systems and Installation. (3-0-3); I. Analysis and function of mine electrical systems. The design and installation of safe systems, preventative maintenance, and inspection as safety measures.

MIN 204. Coal Preparation and Waste Disposal. (3-0-3); II. A study of the process of cleaning, sizing, and mixing coal. Analysis of methods of safe disposal of wastes and by-products from the preparation of coal.

MIN 205. Mining Laws and Management. (3-0-3); II. A study of mining laws and their relationship to mine management and operation. Analysis of state and federal safety codes, their interpretations, and applications.

MIN 206. Mine Systems Technology. (3-0-3); II. A basic study of the engineering approach to mine systems design and operation. Course is designed to enable the mine technician to work with and understand the mine engineer in the planning, development, and installation of safe, effective, and efficient mine systems.

Radiologic Technology

RAD 101. Orientation to Radiologic Technology. (1-0-1); III. **Prerequisite:** Acceptance into the radiologic technology program or permission of instructor. Overview of radiologic technology and its contribution to the health delivery system.

RAD 102. Introduction to Clinical Practice. (3-0-3); III. **Prerequisite:** Acceptance into radiologic technology program. Field trips will be taken to the hospitals affiliated with the radiologic technology program. The methodology of each radiology department will be observed and discussed. The student will meet with the radiology personnel to discuss the radiologic technology profession.

RAD 103. Radiographic Terminology. (1-0-1); III. **Prerequisite:** Acceptance into radiologic technology program and must be taken concurrently with Radiologic Technology 102. This course is a study of the medical radiographic terminology common to all departments in the hospital and that terminology that is unique to the radiology department.

RAD 104. Radiographic Anatomy and Positioning I. (2-2-3); I. **Prerequisites:** Radiologic Technology 102 and 103 or permission of instructor. Basic terminology relating to the structures of the human body. The human skeleton is studied emphasizing the anatomy and articulations of the human skeleton. Radiographic appearance and topographic anatomy are integrated with routine positions for both appendicular and axial sections.

RAD 105. Radiologic Techniques I. (2-2-3); I. **Prerequisites:** Radiologic Technology 101, 102, and 103, or permission of instructor. Introduction to the production and control of ionizing radiation used in medical diagnosis with main emphasis placed upon x-ray tube. Study of techniques used to process x-ray film.

RAD 110. Clinical Internship I. (0-40-4); I. **Prerequisites:** Radiologic Technology 104 and 105 or permission of instructor. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist.

RAD 111. Seminar of Nursing Procedures. (1-0-1); I. **Prerequisite:** Taken concurrently with Radiologic Technology 110 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 201. Radiographic Anatomy and Positioning II. (2-2-3); II. **Prerequisite:** Radiologic Technology 104 or permission of instructor. Continuation of Radiologic Technology 104, emphasizing the digestive, urinary, respiratory, circulatory, muscular, nervous, reproductive, and endocrine systems. Routine positions demonstrating the various visceral structure will be emphasized.

RAD 202. Radiographic Technique II. (2-2-3); II. **Prerequisite:** Radiologic Technology 105 or permission of instructor. Continuation of the factors which control x-radiation and radiographic quality.

RAD 203. Radiation Electronics. (2-2-3); II. **Prerequisite:** Permission of instructor. This course will teach the student basic concepts of electricity and circuitry necessary for an understanding of the function of an x-ray machine in the production of x-radiation.

RAD 204. Clinical Internship II. (0-40-4); II. **Prerequisites:** Radiologic Technology 201 and 202 or permission of instructor. Continuation of Radiologic Technology 110.

RAD 205. Seminar of Film Critique I. (1-0-1); II. **Prerequisites:** Radiologic Technology 202 and must be taken concurrently with Radiologic Technology 204. Radiographic examinations that have been performed by the students and staff will be discussed and evaluated. This evaluation will include technical quality and pathologic processes.

RAD 210. Clinical Internship III. (0-40-4); III. **Prerequisite:** Radiologic Technology 204 or permission of instructor. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist.

RAD 211. Seminar of Film Critique II. (1-0-1); III. **Prerequisites:** Radiologic Technology 205 and must be taken concurrently with Radiologic Technology 210. Radiographic examinations that have been performed by the students and staff will be discussed and evaluated. This evaluation will include technical quality and pathologic processes.

RAD 212. Radiation Safety. (3-0-3); III. **Prerequisites:** Radiologic Technology 202 and 203 or permission of instructor. This course will teach: (1) dose units used to quantify radiation exposure, (2) mechanism of biological damage, and (3) methods of reducing exposure to patient and radiation worker.

RAD 301. Clinical Internship IV. (0-40-4); I. **Prerequisite:** Radiologic Technology 210 or permission of instructor. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist.

RAD 302. Seminar of Film Critique III. (1-0-1); I. **Prerequisites:** Acceptance into radiologic technology program and must be taken concurrently with Radiologic Technology 301. Radiographic examinations that have been performed by the students and staff will be discussed and evaluated. This evaluation will include technical quality and pathologic processes.

RAD 303. Advanced Radiographic Procedures. (2-2-3); I. **Prerequisite:** Radiologic Technology 301 or permission of instructor. Material in this course will include all those radiographic examinations termed "special procedures or non-routine" examinations.

RAD 304. Radiation Physics. (Three hours); I. **Prerequisite:** Radiologic Technology 203 or permission of instructor. This course will deal with the production and control of ionizing radiations, including all physical phenomena involved.

RAD 305. Clinical Internship V. (0-40-4); II. **Prerequisite:** Radiologic Technology 301 or permission of instructor. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist.

RAD 310. Seminar of Radiographic Pathology. (1-0-1); II. **Prerequisite:** must be taken concurrently with Radiologic Technology 305 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 311. Comprehensive Practice of Radiologic Technology. (3-0-3); II. **Prerequisite:** all radiologic technology courses or permission of instructor. A thorough survey and review of all the major areas of radiologic technology in preparation for the certifying examination given by the American Registry of Radiologic Technologists.

RAD 312. Departmental Administration for Radiologic Technologists. (3-0-3); II. **Prerequisite:** permission of instructor. This course will include discussion of the administrative responsibilities of the chief technologist in a radiology department. Students will have the opportunity to meet with chief technologists.

Reclamation Technology

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

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

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

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 non-ferrous materials.

WEL 101A. Oxyacetylene Welding Laboratory. (0-9-3); I. Application of theory including preparation of equipment and welding of different materials in both in-position and out-of-position joints.

WEL 102. Arc Welding. (3-0-3); II. Principles of stick electrode welding including power supplies, polarities, type electrodes, and techniques required for ferrous and nonferrous materials.

WEL 102A. Arc Welding Laboratory. (0-9-3); II. Application of theory including weld joint design and fabrication techniques in the development of several required weld joint coupons and other media.

WEL 201. Inert Gas Welding. (3-0-3); I. Basic theory of inert gas consumable and nonconsumable welding techniques including necessary equipment, power supplies, and inert gas.

WEL 201A. Inert Gas Welding Laboratory. (0-9-3); I. Application of theory through development of welds requiring machine set-up for proper techniques and required adjustments. Students will prepare joints on several types of metals using proper techniques.

WEL 202. Weld Joint Design and Testing. (3-0-3); II. Basic static and dynamic calculations for development of standard butt, fillet, t-joints and others commonly used in industrial fabrication and manufacturing product design.

WEL 202A. Weld Joint Design and Testing Laboratory. (0-9-3); II. Application of strength characteristics through destructive and nondestructive testing of various prepared joint designs.

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 non-ferrous metals.

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

Nursing and Allied Health

The Department of Nursing and Allied Health offers the following programs:

1. A two-year Associate of Applied Science degree in medical assisting.
2. A two-year Associate of Applied Science degree in nursing.

1. An 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 Nursing and Allied Health or write to the Director of Admissions.

Requirements and Suggested Course Sequence

	Sem. Hrs.
FIRST SEMESTER	15
ALH 100—Orientation to Allied Health.....	1
PSY 154—Life Oriented General Psychology.....	3
BSED 212—Intermediate Typewriting.....	3
BIOL 331—Human Anatomy.....	3
ALH 302—Medical Terminology.....	2
ENG 101—Composition I.....	3
SECOND SEMESTER	16
ALH 205—Medical Assisting I.....	3
ALH 202—Basic Pharmacology.....	2
BIOL 332—Human Physiology.....	3
BIOL 333—Human Physiology Lab.....	1
BSED 332—Medical Assisting Administrative Procedures I.....	3
ENG 102—Composition II.....	3
BIOL 218—Elementary Laboratory Microbiological Techniques.....	1
THIRD SEMESTER	17
ALH 306—Medical Assisting II.....	6
BSED 333—Medical Assisting Administrative Procedures II.....	3
ALH 304—Medical Law and Ethics.....	2
HEC 320—Elements of Nutrition.....	3
ALH 303—Interpersonal Relationships.....	3
Fourth Semester	16
ALH 308—Medical Assisting III.....	6
BSED 290—Office Accounting.....	3
HLTH 303—Community Health.....	3
PDI 100—Personal Development Institute.....	1
Elective.....	3
Total	64

2. An Associate of Applied Science degree in Nursing:

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

Admission to the University does not give automatic admission to the nursing program. For additional information, contact the head of the Department of Nursing and Allied Health or write the Director of Admissions.

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.

Suggested Course Sequence

	Sem. Hrs.
First Semester	17
PSY 154—General Psychology (Life Oriented).....	3
BIOL 331—Human Anatomy.....	3
ALH 202—Basic Pharmacology.....	2
ALH 302—Medical Terminology.....	2
NUR 201—Fundamentals of Nursing.....	7
Second Semester	17
ALH 303—Interpersonal Relationships.....	3
BIOL 332—Human Physiology.....	3
HEC 320—Nutrition for Nurses.....	3
NUR 202—Medical-Surgical Nursing I.....	8
Intersession	3
NUR 303—Psychiatric Nursing.....	3
Third Semester	17
ENG 101—Composition I.....	3
NUR 304—Medical-Surgical Nursing II.....	8
BIOL 217—Elementary Medical Microbiology.....	4
BIOL 333—Human Physiology Laboratory.....	1
PDI 100—Personal Development.....	1
Fourth Semester	17
ENG 102—Composition II.....	3
NUR 305—Pediatric Nursing (1/2 semester).....	5
NUR 306—Obstetric Nursing (1/2 semester).....	5
NUR 360—Nursing Trends.....	2
General Elective.....	2
Total	71

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

Programs will be initiated as the needs are determined and the educational facilities are available.

ALH 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.

ALH 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. The course offers basic information concerning the main effects, uses, and doses of the common drugs. The weights, measurements, and abbreviations commonly used in medicine will be included. Mathematics related to calculating and translation of dosage will be reviewed.

ALH 205. Medical Assisting I. (3-0-3); II. Prerequisite: consent of student's adviser. 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.

ALH 301. Seminar. (One to three semester hours); II. Lecture and discussion of problems related to major area and/or health field. Readings in current literature.

ALH 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.

ALH 303. Interpersonal Relations. (3-0-3); I, II. Prerequisite: Psychology 154 or equivalent. This course deals with 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 are studied. Some of the prevalent barriers to communication are discussed. The emphasis of the course is on the health worker's preparation for communication with patients and clients.

ALH 304. Medical Law and Ethics. (2-0-2); I. Prerequisites: ALH 100, Orientation to Allied Health and ALH 205, Medical Assisting I. Designed to acquaint the students 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 will be given to professional attitudes and behavior, history of medicine and the different types of medical practice.

ALH 306. Medical Assisting II. (3-12-6); I. Prerequisite: Allied Health 202. 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 assistant courses. Interaction with selected health services in the community.

ALH 308. Medical Assisting III. (3-12-6); II. Prerequisite: Allied Health 306. A continuation of Allied Health 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 programs. Students have clinical experiences in a general hospital and by observational visits to specialized clinics, public health, and community agencies.

ALH 351. Practicum. (One to three semester hours); I, II. Corequisite: To be correlated with a course in major area in Department of Nursing and Allied Health. Supervised clinical learning experience in an appropriate agency or facility 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.

ALH 398. Supervised Field Experience. (One to six hours); I, II, III. Prerequisite: Consent of adviser. Designed to provide experience in occupational area as student works under supervision in an approved position. Credit commensurate with time worked, type of work, variety of work experiences. Periodic evaluation by major department, faculty, and cooperating organization.

Nursing

NUR 201. Fundamentals of Nursing. (4-12-7); I, II. Prerequisite: Official enrollment in the nursing program. A study of basic nursing knowledge and skills involved in administering nursing care common to all patients. Emphasis will be placed on the nursing care required to meet the basic needs of patients including hygiene, rest, comfort, and nutrition. Historical, philosophical, and social factors which have affected nursing and nursing education will be included. This 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. Ethical and legal responsibilities to the patient and society will be included.

NUR 202. Medical-Surgical Nursing I. (5-12-8); II. Prerequisite: Successful completion of first semester of the nursing program. Theory and correlated nursing care of selected medical-surgical patients with more common nursing problems. Primary emphasis is placed upon the care of the adult during periods of illness requiring hospitalization. The care of the surgical patient, the patient with cancer, or disorders of the respiratory system, the digestive tract, the genitourinary tract, the reproductive system, the endocrine system, and the integumentary system are included. It is expected that the scientific principles acquired in previous courses will be applied in solving these problems.

NUR 303. Psychiatric Nursing. (10-30-3), Intersession (3 weeks). Prerequisite: Successful completion of Medical-Surgical Nursing I. Theory and correlated nursing care of the mentally ill patient. Emphasis will be on mental health principles as they apply to the symptomatology and treatment of mental dysfunction. Communication skills and understanding of personal and interpersonal relationships will be integrated into the total content.

NUR 304. Medical-Surgical Nursing II. (5-12-8); I, II. Prerequisite: Successful completion of first year of nursing program. Theory and correlated nursing care of medical-surgical patients with burns and electrolyte imbalances, and with mobility, sensory, and circulatory problems. The special areas of nursing where patients require surgical intervention, intensive care, emergency care, and home health care are included. Practice in the use of the nursing process is continued throughout the course.

NUR 305. Pediatric Nursing. (7-12-5); I, II. (1/2 semester). Prerequisite: Successful completion of the first year of the nursing program. Assessment and nursing care of children in various degrees of health and illness using appropriate growth and development, and appropriate scientific principles.

NUR 306. Obstetric Nursing. (7-12-5); I, II (1/2 semester). Prerequisite: Successful completion of the first year of the nursing program. A course in family-centered nursing care; problem-solving approach to meeting nursing needs of patients during the maternity cycle; including psychological and social changes occurring during this period.

NUR 360. Nursing Trends. (2-0-2); I, II. Prerequisite: Successful completion of the first year of the nursing program. Consideration of issues in nursing and the relationship of nursing to the social order. The problems, responsibilities, and challenges of the registered nurse as a member of the nursing profession and the community.

SCHOOL OF BUSINESS AND ECONOMICS

Department of Accounting Department of Business Administration Department of Business Education Department of Economics

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

- Business Education
 - Certificate—Clerical Studies
 - Certificate—Secretarial Studies

Associate degree programs

- Accounting
 - AAB—Accounting
- Business Administration
 - AAB—Data Processing
 - AAB—Real Estate
 - AAB—Small Business Management
- Business Education
 - AAB—Office Management
 - AAB—Secretarial Studies

Bachelor degree programs

- Accounting
 - BBA—Accounting—Option
 - BS—Accounting—Major
 - BS—Accounting—Minor
- Business Administration
 - BBA—Data Processing—Option
 - BBA—Finance—Option
 - BBA—Management—Option
 - BBA—Marketing—Option
 - BBA—Real Estate—Option
 - BS—Business Administration—Major
 - BS—Business Administration—Minor
 - BS—Data Processing—Major
 - BS—Data Processing—Minor
 - BS—Marketing—Major
 - BS—Marketing—Minor
 - BS—Real Estate—Minor
- Business Education
 - BS—Business Education—Concentration
 - BS—General Business—Major
 - BS—General Business—Minor
 - BS—Secretarial Studies—Major
 - BS—Secretarial Studies—Minor
- Economics
 - BBA—Economics—Option
 - BS or BA—Economics—Major
 - BS or BA—Economics—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.

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

	Sem. Hrs.
Humanities	
SPCH 370—Business and Professional Speech	3
Humanities Electives	15
Total	18
Science and Mathematics	
MATH 160—Mathematics for Business and Economics	4
MATH 354—Business Statistics	3
Science and Mathematics Electives	5
Total	12
Social Science	
ECON 201—Principles of Economics I	3
ECON 202—Principles of Economics II	3
Social Science Electives	6
Total	12
Health and Physical Education	
Health and Physical Education Electives	4
Total	4

Accounting

The Department of Accounting offers the following:

- Two-year program leading to an Associate of Applied Business degree (AAB) in Accounting
- Four-year program leading to a Bachelor of Business Administration degree (BBA) with a concentration in Business Administration and an Option in Accounting
- Four-year program leading to a Bachelor of Science degree (BS) with a MAJOR in Accounting
- Four-year program leading to a Bachelor of Science degree (BS) with a MINOR in Accounting

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 or BS four-year degree programs. Note that the four-year degree programs require additional lower division electives.

Course Requirements	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
ACCT 384—Intermediate Accounting I	3
ACCT 385—Intermediate Accounting II	3
ACCT 387—Income Tax	3
ACCT 390—Cost Accounting I	3
Other Required Courses	37
General Electives	9
Total	64

Suggested Course Sequence First Semester

ACCT 281—Principles of Accounting I	3
BSAD 201—Introduction to Computers	3
ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
SPCH 210—Listening	3
Total	16

Second Semester

ACCT 282—Principles of Accounting II	3
BSAD 201—Introduction to Computers	3
BSAD 252—Mathematics of Finance	3
ECON 201—Principles of Economics I	3
ENG 102—Composition II	3

or

ENG 192—Technical Writing	3
	15

Third Semester

ACCT 384—Intermediate Accounting I	3
ACCT 390—Cost Accounting I	3
BSAD 221—Business Communications	3
ECON 202—Principles of Economics II	3
Elective	3
	15

Fourth Semester

ACCT 385—Intermediate Accounting II	3
ACCT 387—Income Tax	3
BSAD 301—Principles of Management	3
BSAD 461—Business Law I	3
*Elective	3
*Elective	3
	18

* Approved by adviser prior to enrollment in the elective courses.

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

Business Administration Core	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
BSAD 200—Introduction to Data Processing	3
BSAD 252—Mathematics of Finance	3
BSAD 301—Principles of Management	3
BSAD 304—Marketing	3
BSAD 360—Business Finance	3
BSAD 461—Business Law I	3
BSAD 472—Business Policies and Problems	3
BSAD 221—Business Communications	3
ECON 350—Microeconomics	3
Accounting Option	
ACCT 384—Intermediate Accounting I	3
ACCT 385—Intermediate Accounting II	3
ACCT 387—Income Tax	3
ACCT 390—Cost Accounting I	3
ACCT 483—Auditing	3
Approved Accounting Electives	6
	Total 54

Suggested Course Sequence

FRESHMAN YEAR

First Semester

ACCT 281—Principles of Accounting I	3
BSAD 200—Introduction to Data Processing	3
ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
PHED—Activity	1
SCI—Physical Science	3
	17

Second Semester

ACCT 282—Principles of Accounting II	3
BSAD 252—Mathematics of Finance	3
ENG 102—Composition	3
or	
ENG 192—Technical Writing	3
PHED—Activity	1
SCI—Biological Science	3
Social Sciences Elective	3
	16

SOPHOMORE YEAR

First Semester

ACCT 384—Intermediate Accounting I	3
BSAD 221—Business Communications	3
ECON 201—Principles of Economics I	3

HLTH 150—Personal Health	2
Humanities Elective	3
Elective	3
	17

Second Semester

ACCT 385—Intermediate Accounting II	3
ECON 202—Principles of Economics II	3
ENG—Literature Elective	3
MATH 354—Business Statistics	3
Social Sciences Elective	3
	15

JUNIOR YEAR

First Semester

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

Second Semester

Accounting Elective	3
BSAD 301—Principles of Management	3
Humanities Elective	3
Electives	6
	15

SENIOR YEAR

First Semester

ACCT 483—Auditing	3
BSAD—Elective	3
BSAD 304—Marketing	3
BSAD 461—Business Law I	3
Electives	6
	18

Second Semester

Accounting Elective	3
BSAD 472—Business Policies and Problems	3
BSAD 561—Business Law II	3
Electives	6
	15

Students planning to sit for a professional examination such as the Certified Public Accounting Exam (CPA); the Certified Management Accountant 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 advisers will assist students in these selections.

BS—Accounting—Major

Students selecting the Bachelor of Science degree with an accounting major will also select an area of minor or of major study to complement the Accounting major.

Course Requirements

Sem. Hrs.

ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
ACCT 384—Intermediate Accounting I	3
ACCT 385—Intermediate Accounting II	3
ACCT 387—Income Tax	3
ACCT 390—Cost Accounting I	3
ACCT 483—Auditing	3
Approved Accounting Electives	12
	Total 33

Suggested Course Sequence

FRESHMAN YEAR

ACCT 281—Principles of Accounting I	3
ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
PHED—Activity Course	1
SCI—Physical Science	3
Elective	3
	17

Second Semester

ACCT 282—Principles of Accounting II	3
BSAD 252—Mathematics of Finance	3
ENG 102—Composition II or	
ENG 192—Technical Writing	3
PHED—Activity Course	1
SCI—Biological Science	3
Elective	3
	16

SOPHOMORE YEAR

First Semester

ACCT 384—Intermediate Accounting I	3
ECON 201—Principles of Economics I	3
HLTH 150—Personal Health	2
Humanities Elective	3
Social Sciences Elective	3
Elective	3
	17

Second Semester

ACCT 385—Intermediate Accounting II	3
ECON 202—Principles of Economics II	3
ENG—Literature Elective	3
Elective	3
	15

JUNIOR YEAR

First Semester

ACCT 387—Income Tax	3
ACCT 390—Cost Accounting	3
SPCH 370—Business and Professional Speech	3
Social Sciences Elective	3
Elective	3
	15

Second Semester

Accounting Electives	6
Humanities Elective	3
Electives	6
	15

SENIOR YEAR

First Semester

ACCT 483—Auditing	3
BSAD 461—Business Law I	3
Electives	12
	18

Second Semester

Accounting Electives	6
BSAD 561—Business Law II	3
Electives	6
	15

BS—Accounting Minor

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

Course Requirements

	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
ACCT 384—Intermediate Accounting I	3
ACCT 385—Intermediate Accounting II	3
ACCT 390—Cost Accounting I	3
Approved Accounting Electives	6
	21

Description of Courses

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

ACCT 281. Principles of Accounting I. (3-0-3); I, II, III. Meaning and purpose of accounting; the balance sheet, the income statement, books of original entry, special journals; adjusting and closing entries, controlling accounts; notes, interest, inventory, accounts receivable, fixed assets.

ACCT 282. Principles of Accounting II. (3-0-3); I, II, III. Prerequisite: ACCT 281. Payrolls; corporate accounts, ownership equity, and earnings; financial reporting; manufacturing accounting; funds flow analysis; interpretation of financial statements; managerial analysis.

ACCT 383. Intermediate Accounting I. (3-0-3); I, II. Prerequisite: ACCT 282. Fundamental accounting procedures, the accounting cycle, financial position, measurement of costs, revenues, and expenses, analysis of cash; temporary investments receivables, inventory, investments, plant and equipment, intangibles, liabilities.

ACCT 384. Intermediate Accounting I. (3-0-3); I, II. Prerequisite: ACCT 282. Fundamental accounting procedures; the accounting cycle; financial position; measurement of costs, revenues, and expenses; analysis of cash, temporary investments, receivables, inventory, investments; plant and equipment, intangibles, liabilities.

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

ACCT 387. Income Tax. (3-0-3); I, II. Prerequisite: ACCT 384 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. (One to three hours); 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); II. Prerequisite: ACCT 384. Special accounting problems; partnerships; installment sales; consignments; home office and branch accounting.

ACCT 483. Auditing. (3-0-3); I. 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 CPA's.

ACCT 502. Managerial Accounting. (3-0-3); I, II, III. Prerequisite: ACCT 282. Analysis of cost data; manufacturing and cost analysis, budgets, managerial decision making analysis. NOTE: May not be used for accounting major, minor, or option requirements, nor for MBA degree requirements, primarily for non-accounting majors.

ACCT 506. Theory of Accounts. (3-0-3); I. Prerequisite: ACCT 385. Study of development of accounting theory, application of theory to income measurement asset 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 governmental units. Topics include government accounting terminology and budgeting processes; operations of general revenue and expense, capital project, debt service, trust, intra-government, 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. (One to three hours); 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 584. C.P.A. Problems. (3-0-3); II. Prerequisites: Twenty hours 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. **Prerequisites:** 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.

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.

Required Courses	
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
BSAD 200—Introduction to Data Processing	3
BSAD 252—Mathematics of Finance	3
BSAD 304—Marketing	3
BSAD 305—Purchasing	3
BSAD 310—Small Business Organization	3
BSAD 311—Principles of Personnel Management	3
BSAD 461—Business Law I	3
BSED 136—Business Calculations	3
BSED 221—Business Communications	3
BSED 363—Office Management	3
ECON 101—Introduction to American Economy	3
ENG 101—Composition I	3
ENG 102—Composition II	3
SPCH 110—Basic Speech	3
or	
SPCH 370—Business & Professional Speech	3
Electives	15
Total	64

Suggested Course Sequence	
First Semester	
BSAD 200—Introduction to Data Processing	3
ECON 101—Introduction to American Economy	3
ENG 101—Composition I	3
SPCH 110—Basic Speech	3
Electives	4
Total	16

Second Semester	
ACCT 281—Principles of Accounting I	3
BSED 136—Business Calculations	4
BSED 221—Business Communications	3
SPCH 110—Basic Speech	3
Elective	3
Total	16

Third Semester	
ACCT 282—Principles of Accounting	3
BSAD 252—Mathematics of Finance	3
BSAD 304—Marketing	3
BSAD 310—Small Business Organization	3
BSAD 461—Business Law	3
Elective	2
Total	17

Fourth Semester	
BSAD 305—Purchasing	3
BSAD 311—Personnel Management	3
BSED 363—Office Management	3
Electives	6
Total	15

Bachelor of Business Administration Core

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

Business Administration Core	
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
BSAD 200—Introduction to Data Processing	3
BSAD 252—Mathematics of Finance	3
BSAD 301—Principles of Management	3
BSAD 304—Marketing	3
BSAD 360—Business Finance	3
BSAD 461—Business Law I	3
BSAD 472—Business Policies and Problems	3
BSED 221—Business Communications	3
ECON 350—Microeconomics	3
Total	33

Students may substitute BSAD 201 for BSAD 200. Students who elect the option in Data Processing will take BSAD 201.

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.

Required Courses	Sem. Hrs.
BSAD 202—Computer Programming BASIC	
or	
BSAD 260—FORTRAN Programming	3
BSAD 210—Computer Programming Fundamentals	3
BSAD 215—Business Computer Programming I	3
BSAD 315—Business Computer Programming II	3
BSAD 320—Computerized Business Systems	3
BSAD 405—Systems Analysis and Design	3
BSAD 515—Data Processing Field Project	3
Total	21

BSAD 201 will be taken as part of the Business Administration core. Students who have taken BSAD 200 as part of the core will not be required to complete BSAD 201.

Suggested Course Sequence	
FRESHMAN YEAR	
First Semester	
BSAD 201—Introduction to Computers	3
ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
PHED—Activity	1
SCI—Physical Science	3
Social Science Elective	3
Total	17

Second Semester	
BSAD 202—Computer Programming BASIC	
or	
BSAD 260—FORTRAN Programming	3
ENG 102—Composition II	3
Humanities Elective	3
PHED—Activity	1
SCI—Biological Science	3
Social Sciences Elective	3
Total	16

SOPHOMORE YEAR	
First Semester	
ACCT 281—Principles of Accounting I	3
BSAD 210—Computer Programming Fundamental	3
BSAD 252—Math of Finance	3
ECON 201—Principles of Economics I	3
HLTH 150—Personal Health	2
Literature Elective	3
Total	17

Second Semester	
ACCT 282—Principles of Accounting II	3
BSED 221—Business Communications	3
ECON 202—Principles of Economics II	3
SPCH 370—Business and Professional Speech	3
Electives	3
Total	15

JUNIOR YEAR	
First Semester	
BSAD 215—Business Computer Programming I	3
BSAD 320—Computerized Business Systems	3
BSAD 301—Principles of Management	3
BSAD 360—Business Finance	3
Electives	4
Total	16

Second Semester	
BSAD 304—Marketing	3
BSAD 315—Business Computer Programming II	3
HUM—Elective	3
MATH 354—Business Statistics	3
Electives	5
Total	17

SENIOR YEAR	
First Semester	
BSAD 461—Business Law I	3
ECON 350—Microeconomics	3
Electives	9
Total	15

Second Semester

BSAD 405—Systems Analysis & Design	3
BSAD 472—Business Policies and Problems	3
BSAD 515—Data Processing Field Project	3
Electives	6
	15

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.

Required Courses

ACCT 384—Intermediate Accounting I	3
ACCT 385—Intermediate Accounting II	3
BSAD 560—Financial Markets	3
ECON 342—Money and Banking	3
Approved Electives	9
Total	21

Suggested Course Sequence

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
HLTH 150—Personal Health	2
MATH 160—Mathematics for Business and Economics	4
PHED—Activity	1
SCI—Physical Science	3
Social Science Elective	3
	16

Second Semester

BSAD 200—Introduction to Data Processing	3
BSAD 252—Mathematics of Finance	3
ENG 102—Composition II	3
PHED—Activity	1
SCI—Biological Science	3
Social Sciences Elective	3
	16

SOPHOMORE YEAR

First Semester

ACCT 281—Principles of Accounting I	3
BSED 221—Business Communications	3
ECON 201—Principles of Economics I	3
Humanities Elective	3
Literature Elective	3
Elective	2
	17

Second Semester

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

JUNIOR YEAR

First Semester

ACCT 384—Intermediate Accounting I	3
BSAD 301—Principles of Management	3
ECON 350—Microeconomics	3
Humanities Elective	3
MATH 354—Business Statistics	3
Elective	2
	17

Second Semester

ACCT 385—Intermediate Accounting II	3
BSAD 360—Business Finance	3
SPCH 370—Business and Professional Speech	3
Electives	8
	17

SENIOR YEAR

First Semester

BSAD 461—Business Law I	3
ECON 342—Money & Banking	3
BSAD—Electives	6
Elective	3
	15

Second Semester

BSAD 472—Business Policies and Problems	3
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BSAD 560—Financial Markets	3
BSAD—Elective	3
Electives	6
	15

BSAD electives may be selected in accounting, business administration, or economics.

BBA—Management Option

The management option is designed to prepare students for entrance into managerial careers in personnel, production, or general management. Since management of business firms involves both human and technical skills, students are provided with maximum breadth in a range of available elective courses.

Required Courses

ACCT 390—Cost Accounting	3
or	
ACCT 502—Managerial Accounting	3
BSAD 311—Principles of Personnel Management	3
BSAD 504—Production Management	3
ECON 302—Labor Economics	3
Approved Electives	9
	21

Suggested Course Sequences

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
HLTH 150—Personal Health	2
MATH 160—Mathematics for Business & Economics	4
PHED—Activity	1
SCI—Physical Science	3
Social Science Elective	3
	16

Second Semester

BSAD 200—Introduction to Data Processing	3
BSAD 252—Mathematics of Finance	3
ENG 102—Composition II	3
PHED—Activity	1
SCI—Biological Science	3
Social Science Elective	3
	16

SOPHOMORE YEAR

First Semester

ACCT 281—Principles of Accounting I	3
BSED 221—Business Communications	3
ECON 201—Principles of Economics I	3
Humanities Elective	3
Literature Elective	3
Elective	2
	17

Second Semester

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

JUNIOR YEAR

First Semester

ACCT 390—Cost Accounting I	3
or	
ACCT 502—Managerial Accounting	3
BSAD 301—Principles of Management	3
ECON 302—Labor Economics	3
ECON 350—Microeconomics	3
Humanities Elective	3
Elective	2
	17

Second Semester

BSAD 360—Business Finance	3
BSAD—Elective	3
MATH 354—Business Statistics	3
Electives	7
	16

SENIOR YEAR

First Semester

BSAD 311—Personnel Management	3
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BSAD 461—Business Law I	3
BSAD—Elective	3
SPCH 370—Business and Professional Speech	3
Elective	3
	15
Second Semester	
BSAD 472—Business Policies and Problems	3
BSAD 504—Production Management	3
BSAD—Elective	3
Elective	7
	16

BBA—Marketing Option

This option is arranged to prepare for entrance into marketing careers. The program is recommended for students who plan to work with sales departments of establishments, advertising agencies, and agencies engaged in marketing research. It is also recommended for individuals who plan to work as specialty salesmen of consumer and industrial goods and for those who plan to enter marketing management.

Required Courses	
BSAD 350—Salesmanship	3
BSAD 453—Marketing Policies	3
BSAD 455—Advertising Principles and Procedures	3
BSAD 552—Marketing Research and Analysis	3
Approved Electives	9
	21

Suggested Course Sequence

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
Social Sciences Elective	3
HLTH 150—Personal Health	2
PHED—Activity	1
SCI—Biological Sciences	3
	16

Second Semester

ENG 102—Composition II	3
BSAD 200—Introduction to Data Processing	3
Social Science Elective	3
BSAD 252—Mathematics of Finance	3
PHED—Activity	1
SCI—Biological Science	3
	16

SOPHOMORE YEAR

First Semester

Literature Elective	3
ACCT 281—Principles of Accounting I	3
ECON 201—Principles of Economics I	3
BSAD 221—Business Communications	3
Humanities Elective	3
Elective	2
	17

Second Semester

ACCT 282—Principles of Accounting II	3
ECON 202—Principles of Economics II	3
BSAD 350—Salesmanship	3
Electives	6
	15

JUNIOR YEAR

First Semester

ECON 350—Microeconomics	3
BSAD 301—Principles of Management	3
BSAD 360—Business Finance	3
BSAD 304—Marketing	3
Electives	4
	16

Second Semester

MATH 354—Business Statistics	3
SPCH 370—Business and Professional Speech	3
Humanities Elective	3
Electives	8
	17

SENIOR YEAR

First Semester

BSAD 461—Business Law I	3
BSAD 552—Marketing Research and Analysis	3
BSAD 455—Advertising Principles and Procedures	3
Elective	3
	15

Second Semester

BSAD 453—Marketing Policies	3
BSAD 472—Business Policies and Problems	3
BSAD—Electives	6
Electives	4
	16

BBA—Real Estate—Option

This option is designed to prepare students for careers as real estate salespersons and brokers. The program will also give students an educational background for positions in industry as specialists in real estate and land development.

Required Courses

BSAD 105—Real Estate Principles I	3
BSAD 120—Real Estate Marketing I	3
BSAD 125—Appraising or	
BSAD 230—Real Estate Land Planning and Development	3
BSAD 205—Real Estate Principles II	3
BSAD 303—Real Estate Marketing II	3
BSAD 225—Real Estate Finance or	
BSAD 335—Real Estate Investments	3
Approved Electives	3
	21

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
Social Sciences Elective	3
BSAD 105—Real Estate Principles I	3
SCI—Physical Science	3
	16

Second Semester

ENG 102—Composition II	3
BSAD 120—Real Estate Marketing I	3
Social Science Elective	3
PHED—Activity	1
SCI—Biological Science	3
Elective	3
	16

SOPHOMORE YEAR

First Semester

Literature Elective	3
ACCT 281—Principles of Accounting I	3
ECON 201—Principles of Economics I	3
BSAD 221—Business Communications	3
HLTH 150—Personal Health	2
BSAD 205—Real Estate Principles II	3
	17

Second Semester

ACCT 282—Principles of Accounting II	3
ECON 202—Principles of Economics II	3
PHED—Activity	1
BSAD 303—Real Estate Marketing II	3
Electives	6
	16

JUNIOR YEAR

First Semester

BSAD 301—Principles of Management	3
Humanities Elective	3
BSAD 225—Real Estate Finance or BA Elective	3
Elective	6
Elective	1
	16

Second Semester

MATH 354—Business Statistics	3
BSAD 360—Business Finance	3
BSAD 335—Real Estate Investments or Business Administration Elective ..	3
Electives	6
	15

SENIOR YEAR

First Semester	
SPCH 370—Business and Professional Speech	3
BSAD—Elective	3
BSAD 461—Business Law I	3
Electives	7
	16

Second Semester	
BSAD 472—Business Policies and Problems	3
BSAD 504—Production Management	3
BSAD 125—Appraising	3
Electives	7
	16

BS—Business Administration—Major

The Major in Business Administration is recommended for students who are interested in a general program in business. Students selecting a Business Administration major will also select an area of minor study, or another area of major study, to complement this program.

Course Requirements	
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
BSAD 200—Introduction to Data Processing	3
BSAD 252—Mathematics of Finance	3
BSAD 301—Principles of Management	3
BSAD 304—Marketing	3
BSAD 360—Business Finance	3
BSAD 461—Business Law I	3
BSAD 472—Business Policies and Problems	3
BSAD 221—Business Communications	3
ECON 350—Microeconomics	3
	33

Suggested Course Sequence

FRESHMAN YEAR

First Semester	
ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
ECON—Elective	4
Social Science Elective	3
HLTH 150—Personal Health	2
PHED—Activity	1
SCI—Physical Science	3
	16

Second Semester	
ENG 102—Composition II	3
BSAD 200—Introduction to Data Processing	3
Social Science Elective	3
Humanities elective	3
PHED—Activity	1
SCI—Biological Science	3
	16

SOPHOMORE YEAR

First Semester	
Literature elective	3
BSAD 221—Business Communications	3
ACCT 281—Principles of Accounting I	3
ECON 201—Principles of Economics I	3
BSAD 252—Math of Finance	3
Elective	2
	17

Second Semester	
ACCT 282—Principles of Accounting II	3
ECON 202—Principles of Economics II	3
BSAD 304—Marketing	3
Humanities elective	3
Elective	3
	15

JUNIOR YEAR

First Semester	
BSAD 301—Principles of Management	3
MATH 354—Business Statistics	3
Electives	10
	16

Second Semester

BSAD 360—Business Finance	3
SPCH 370—Business and Professional Speech	3
Electives	11
	17

SENIOR YEAR

First Semester	
ECON 350—Microeconomics	3
BSAD 461—Business Law I	3
Electives	9
	15

Second Semester	
BSAD 472—Business Policies and Problems	3
Electives	13
	16

BS—Business Administration—Minor

Students selecting programs with the Business Administration minor should first consult with advisers in their major areas. BA department advisers are available for assistance.

Course Requirements	
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
BSAD 200—Introduction to Data Processing	3
BSAD 252—Mathematics of Finance	3
BSAD 301—Principles of Management	3
BSAD 360—Business Finance	3
BSAD 461—Business Law I	3
Approved Electives	3
	24

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

BS—Data Processing—Major

The major in data processing is recommended for students who are interested in specialized training leading to a career in the business computer area. A primary goal in this program is to prepare students to fill positions as applications programmers and systems analysts. Students selecting a data processing major will also select an area of minor study, or another area of major study, to complement this program.

Required Courses	
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
BSAD 200—Introduction to Data Processing or	
BSAD 201—Introduction to Computers	3
BSAD 202—Computer Programming BASIC or	
BSAD 260—FORTRAN Programming	3
BSAD 210—Computer Programming Fundamentals	3
BSAD 252—Mathematics of Finance	3
BSAD 215—Business Computer Programming I	3
BSAD 315—Business Computer Programming II	3
BSAD 320—Computerized Business Systems	3
BSAD 405—Systems Analysis and Design	3
BSAD 515—Data Processing Field Project	3
	33

Suggested Course Sequence

FRESHMAN YEAR

First Semester	
ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
Social Sciences Elective	3
BSAD 200—Introduction to Data Processing or	
BSAD 201—Introduction to Computers	3
SCI—Physical Science	3
	16

Second Semester	
ENG 102—Composition II	3
BSAD 202—Computer Programming BASIC or	
BSAD 260—FORTRAN Programming	3
Social Science Elective	3
Humanities Elective	3
PHED—Activity	1
SCI—Biology	3
	16

SOPHOMORE YEAR

First Semester

Literature Elective.....	3
BSAD 210—Computer Programming Fundamentals	3
ACCT 281—Principles of Accounting I	3
ECON 201—Principles of Economics I	3
BSAD 252—Mathematics of Finance	3
HLTH 150—Personal Health	2
	17

Second Semester

ACCT 282—Principles of Accounting II	3
ECON 202—Principles of Economics II	3
Humanities Elective	3
Electives	6
PHED—Activity	1
	16

JUNIOR YEAR

First Semester

BSAD 215—Business Computer Programming I	3
MATH 354—Business Statistics	3
Electives	10
	16

Second Semester

BSAD 315—Business Computer Programming II	3
SPCH 370—Business and Professional Speech	3
Electives	10
	16

SENIOR YEAR

First Semester

BSAD 320—Computerized Business Systems	3
Electives	12
	15

Second Semester

BSAD 405—Systems Analysis and Design	3
BSAD 515—Data Processing Field Project	3
Electives	10
	16

BS—Data Processing—Minor

Students selecting programs with the Data Processing minor should first consult with advisers in their major areas. BA department advisers are available for assistance.

Course Requirements

BSAD 201—Introduction to Computers	3
BSAD 202—Computer Programming BASIC or	
BSAD 260—FORTRAN Programming	3
BSAD 210—Computer Programming	3
BSAD 215—Business Computer Programming I	3
BSAD 315—Business Computer Programming II	3
BSAD 320—Computerized Business Systems	3
BSAD 405—Systems Analysis and Design	3
BSAD 515—Data Processing Field Project	3
	24

BS—Marketing—Major

The major in marketing is recommended for students who are interested in more specialized training in one of the basic functions performed by most business organizations. Career opportunities are available with business firms that are concerned with the distribution of goods as well as rendering services. A primary goal of this program is to prepare students to fill positions as managers of the marketing function. Students selecting a marketing major will also select an area of minor study or another area of major study, to complement this program.

Course Requirements

ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
BSAD 200—Introduction to Data Processing	3
BSAD 301—Principles of Management	3
BSAD 304—Marketing	3
BSAD 350—Salesmanship	3

BSAD 450—Consumer Behavior	3
BSAD 453—Marketing Policies	3
BSAD 455—Advertising Principles and Procedures	3
BSAD 552—Marketing Research and Analysis	3
BSAD 351—Sales Management or	
BSAD 451—Retail Merchandising	3
	33

Suggested Course Sequence

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
MATH 160—Mathematics for Business and Economics	4
Social Science Elective	3
HLTH 150—Personal Health	2
PHED—Activity	1
SCI—Physical Science	3
	16

Second Semester

ENG 102—Composition II	3
BSAD 200—Introduction to Data Processing	3
Social Science Elective	3
Humanities Elective	3
PHED—Activity	1
SCI—Biological Science	3
	16

SOPHOMORE YEAR

First Semester

Literature Elective	3
ACCT 281—Principles of Accounting I	3
ECON 201—Principles of Economics I	3
Electives	8
	17

Second Semester

ACCT 282—Principles of Accounting II	3
ECON 202—Principles of Economics II	3
BSAD 304—Marketing	3
Humanities Electives	3
Electives	3
	15

JUNIOR YEAR

First Semester

BSAD 350—Salesmanship	3
MATH 354—Business Statistics	3
Electives	8
BSAD 305—Purchasing	3
	17

Second Semester

BSAD 351—Sales Management	3
SPCH 370—Business and Professional Speech	3
BSAD—Elective	3
Electives	8
	17

SENIOR YEAR

First Semester

BSAD 552—Marketing Research and Analysis	3
BSAD—Elective	3
Electives	9
	15

Second Semester

BSAD 453—Marketing Policies	3
Electives	12
	15

BS—Marketing—Minor

Students selecting programs with marketing minor should first consult with advisers in their major areas. BA department advisers are available for assistance.

Course Requirements

ACCT 281—Principles of Accounting I	3
BSAD 200—Introduction to Data Processing	3
BSAD 304—Marketing	3
BSAD 453—Marketing Policies	3
BSAD 552—Marketing Research and Analysis	3
Nine hours of electives to be chosen from the following:	
BSAD 305—Purchasing	3
BSAD 350—Salesmanship	3
BSAD 351—Sales Management	3
BSAD 450—Consumer Behavior	3
BSAD 451—Retail Merchandising	3
BSAD 455—Advertising Principles and Procedures	3
	24

BS—Real Estate—Minor

Students selecting programs with real estate minor should first consult with advisers in their major areas. BA department advisers are available for assistance.

BSAD 105—Real Estate Principles I	3
BSAD 120—Real Estate Marketing I	3
BSAD 125—Appraising or	
BSAD 230—Real Estate Land Planning and Development	3
BSAD 205—Real Estate Principles II	3
BSAD 225—Real Estate Finance or	
BSAD 335—Real Estate Investments	3
BSAD 303—Real Estate Marketing II	3
Electives in Business and/or Economics approved by department	6
Total 24	

Description of Courses

NOTE: (3-0-3) following course title means 3 hours class, not 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.

BSAD 105. Real Estate Principles I. (3-0-3); I, II. A general introduction to real estate as a business and as a profession. Designed to acquaint the student with a wide range of subjects necessary to the practice of real estate. Topics include license law, ethics, purchase and listing agreements, brokerage, deeds, financing, appraisals, mortgages, and real estate property management.

BSAD 120. Real Estate Marketing I. (3-0-3); II. Prerequisite: BSAD 105 or consent of instructor. A course designed to help real estate salesmen with listing, prospecting and showing. The students will be given an insight into establishing what are the true needs of his client and how best to fulfill these needs and to learn how to qualify clients and organize time.

BSAD 125. Appraising. (3-0-3); II. Prerequisite: BSAD 105 or consent of instructor. A course designed to enable real estate sales people to be more knowledgeable and professional in listing property for sale, to know and understand the different reasons for appraising real estate such as for loans, estates, condemnation, listings, and to make the student aware of the factors that contribute to the value of the real estate.

BSAD 160. Introduction to Business. (3-0-3); I, II, III. Basic survey course. Management, business organization, marketing, retailing, accounting, banking, finance, risk and insurance.

BSAD 200. Introduction to Data Processing. (3-0-3); I, II, III. Prerequisite: MATH 160 or equivalent. Fundamentals of data processing; punched-card applications; basic concepts of electronic computers; data processing organization; information technology; management responsibility.

BSAD 201. Introduction to Computers. (3-0-3); I, II, III. Prerequisite: MATH 160 or consent of instructor. Survey of computer systems including hardware and software features. Machine and program logic. Flowcharting techniques, use of decision tables. Survey of computer languages. (Student in the data processing programs will take this course in lieu of BSAD 200.)

BSAD 202. Computer Programming BASIC. (3-0-3); I, II, III. Prerequisite: MATH 160 or consent of instructor. Programming the computer using the BASIC language. No prior knowledge is assumed. Emphasis is on solving and interactive mode programming.

BSAD 205. Real Estate Principles II. (3-0-3); II. Prerequisite: BSAD 105 or consent of instructor. A continuation of Real Estate Principles I with emphasis upon law, land rights, title examinations, tax aspects, planning and zoning, deeds, contracts, financing, subdivision laws, rules, and regulations for brokers and managers.

BSAD 210. Computer Programming Fundamentals. (3-0-3); I. Pre-

requisite: BSAD 200. Technical experience with stored program computer, machine design, components, logical function, machine language, and symbolic programming language.

BSAD 215. Business Computer Programming I. (3-0-3); I. Prerequisite: BSAD 210 or consent of instructor. Practical business applications programming using the COBOL language. Card input and printed output will be used.

BSAD 225. Real Estate Finance. (3-0-3); II. Prerequisite: BSAD 105 or consent of instructor. This course is designed to acquaint the student with the role that real estate financing plays in community development, the financial instruments used in transactions involving real estate, the nature of financial institutions that are an integral part of the mortgage market, how the mortgage market is influenced by governmental policies.

BSAD 230. Real Estate Land Planning and Development. (3-0-3); II. Prerequisite: BSAD 105 or consent of instructor. A comprehensive course designed to acquaint the real estate student with the specialized field of land planning and development with emphasis upon the field of new home construction.

BSAD 252. Mathematics of Finance. (3-0-3); I, II. Prerequisite: MATH 160. Interest, annuities, amortization, sinking funds, bond valuation, depreciation, life insurance.

BSAD 260. FORTRAN Programming. (3-0-3); II. Prerequisite: BSAD 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.

BSAD 301. Principles of Management. (3-0-3); I, II, III. Prerequisites: ACCT 282 and ECON 202. History of management, the management process, the principles of management and their application in the operations of business. The fundamental concepts of management will be applied to such areas of business activity as organization, personnel, production, and research.

BSAD 303. Real Estate Marketing II. (3-0-3); I. Prerequisite: BSAD 120 or consent of instructor. A course designed to help real estate salesmen in closing the marketing of residential and business real estate. Basic real estate math and record keeping are also included.

BSAD 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.

BSAD 305. Purchasing. (3-0-3) II. Prerequisite: BSAD 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.

BSAD 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.

BSAD 311. Principles of Personnel Management. (3-0-3); I, II. Prerequisite: BSAD 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.

BSAD 315. Business Computer Programming II. (3-0-3); II. Prerequisite: BSAD 215. Advanced computer programming using COBOL. Tape and disk file structures and processing are emphasized.

BSAD 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.

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

BSAD 335. Real Estate Investment. (3-0-3); II. Prerequisite: BSAD 105 or consent of instructor. A course designed to acquaint the student with the theory and practices of real estate investments and the wide range of topics in this area. Included are reasons for and against investing, homes and business properties, sale and lease-backs and the real estate investor.

BSAD 343. Investments. (3-0-3); II. Prerequisite: Economics 201. (See Economics 343).

BSAD 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.

BSAD 351. Sales Management. (3-0-3); I. Prerequisites: BSAD 301 and 350. 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.

BSAD 360. Business Finance. (3-0-3); I, II, III. **Prerequisites:** BSAD 252, Accounting 282, Economics 202. Financial management, management of cash, receivables, inventories, plant assets, short-term debt, long-term debt, intermediate-term debt, owner's equity.

BSAD 364. Personal Finance. (3-0-3); II. Income and occupation, budgeting, consumer credit, banking services, taxes, insurance and Social Security, home owning, investments, and estate planning.

BSAD 405. Systems Analysis and Design. (3-0-3); II. **Prerequisite:** BSAD 320 or consent of instructor. Systems analysis, feasibility studies, economic cost comparisons, systems implementation, the tools of systems analysis.

BSAD 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.

BSAD 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.

BSAD 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.

BSAD 451. Retail Merchandising. (3-0-3); I, II. **Prerequisite:** BSAD 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.

BSAD 453. Marketing Policies. (3-0-3); II. **Prerequisites:** BSAD 301 and 6 hours of marketing courses. Overview of marketing functions, emphasis on formulation of policies and management of all marketing activities. Case studies used.

BSAD 455. Advertising Principles and Procedures. (3-0-3); I. **Prerequisite:** BSAD 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.

BSAD 461. Business Law I. (3-0-3); I, II, III. Designed to acquaint the students 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.

BSAD 472. Business Policies and Problems. (3-0-3); I, II, III. **Prerequisites:** BSAD 301, 304, or consent of instructor. Specific problems involved in the formulation of consistent business policies and maintenance of an efficient organization. Actual cases used as basis for discussions and preparation of reports for executive decision making.

BSAD 476. Special Problems. (1-3); 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.

BSAD 486. Management Internship Program. (3-12); I, II, III. **Prerequisites:** Junior or senior standing and 12 hours in major area, with 2.5 GPA in major area. The internship program involves placement of students in positions in business comparable to those filled by professional career employees. Participants work under the supervision of high level officials possessing major departmental responsibilities.

BSAD 504. Production Management. (3-0-3); II. **Prerequisites:** BSAD 301, Accounting 309 or 502. Managerial organization for production, plant design and layout, control of production, investment in production equipment and materials, working capital, labor costs, production operations including scheduling, routing, and control.

BSAD 515. Data Processing Field Project. (3-0-3); II. **Prerequisites:** BSAD 315 and 320. Experience in actual data processing situation outside the classroom; students assigned in University's data processing center or other approved computer facility.

BSAD 547. International Economics. (3-0-3); as needed. **Prerequisites:** ECON 201 and 202. (See Economics 547.)

BSAD 552. Marketing Research and Analysis. (3-0-3); I. **Prerequisites:** BSAD 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.

BSAD 560. Financial Markets. (3-0-3); I, II. **Prerequisite:** BSAD 360. Institutional and business factors that influence demand and supply of funds, effect on price movements, detailed analysis of money and capital markets.

BSAD 561. Business Law II. (3-0-3); I, II. **Prerequisite:** BSAD 461. An extension of the coverage of Business Administration 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.

BSAD 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.

BSAD 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. Self-directed, independent study and research in business administration. The student must present a written statement of the proposed project, approved by the department at registration.

Business Education

The Department of Business Education offers the following:

1. One-year Certificate Programs
 - a. Clerical Studies
 - b. Secretarial Studies
2. Two-year programs leading to an Associate of Applied Business Degree (AAB) in
 - a. Office Management
 - b. Secretarial Studies
3. Four-year programs leading to a BS degree with a MAJOR in
 - a. General Business
 - b. Secretarial Studies
 - c. Area of Concentration
4. Four-year programs leading to a BS degree with a MINOR in
 - a. General Business
 - b. 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 programs 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 knowledges.

Course Requirements	Sem. Hrs.
BSED 136—Business Calculations	3
BSED—Typewriting	6
BSED 221—Business Communications	3
BSED 290—Office Accounting	3
BSED 337—Machine Transcription/Reprographics	3
BSED 340—Simulated Office Education	3
or	
BSED 363—Office Management	3
BSAD 200—Data Processing	3
ENG 101—Composition I	3
Approved Electives	5
Total	32

Suggested Course Sequence

First Semester	
BSED 136—Business Calculations	3
BSED—Typewriting	3
BSAD 200—Introduction to Data Processing	3
ENG 101—Composition I	3
BSED 221—Business Communications	3
Elective	1
Total	16

Second Semester

BSED 290—Office Accounting	3
BSED—Typewriting	3
BSED 337—Machine Transcription/Reprographics	3
BSED 340—Simulated Office Education or	
BSED 363—Office Management	3
Electives	4
Total	16

Certificate—Secretarial Studies

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

Course Requirements

BSED 136—Business Calculations	3
BSED—Typewriting	6
BSED—Shorthand	6
BSED 221—Business Communications	3
BSED 290—Office Accounting	3
BSED 337—Machine Transcription/Reprographics	3
BSED 340—Simulated Office Education or	
BSED 363—Office Management	3
ENG 101—Composition I	3
Approved Electives	2
Total	32

Suggested Course Sequence

First Semester	
BSED 136—Business Calculations	3
BSED—Typewriting	3
BSED—Shorthand	3
ENG 101—Composition I	3
BSED 221—Business Communications	3
Elective	1
Total	16

Second Semester

BSED 290—Office Accounting	3
BSED 337—Machine Transcription/Reprographics	3
BSED 340—Simulated Office Education or	
BSED 363—Office Management	3
BSED—Shorthand	3
BSED—Typewriting	3
Elective	1
Total	16

AAB—Office Management

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

Course Requirements

BSED 136—Business Calculations	3
BSED—Typewriting	6
BSED 221—Business Communications	3
BSED 290—Office Accounting	3
BSED 337—Machine Transcription/Reprographics	3
BSED 340—Simulated Office Education	3
BSED 350—Records Management	3
BSED 363—Office Management	3
BSAD 160—Introduction to Business	3
BSAD 200—Introduction to Data Processing	3
BSAD 310—Principles of Management	3
ACCT 281—Principles of Accounting I	3
ENG 101—Composition I	3
ENG 102—Composition II	3
SPCH 370—Business and Professional Speech	3
Approved Electives	4
Total	64

Suggested Course Sequence

First Semester	
BSED 136—Business Calculations	3
BSED—Typewriting	3
BSAD 160—Introduction to Business	3
BSAD 200—Introduction to Data Processing	3
Electives	4
Total	16

Second Semester

BSED 290—Office Accounting	3
BSED 221—Business Communications	3
ENG 101—Composition I	3
Electives	4
Total	16

Third Semester

ACCT 281—Principles of Accounting I	3
BSED 337—Machine Transcription/Reprographics	3
BSED 350—Records Management	3
ENG 102—Composition I	3
Electives	4
Total	16

Fourth Semester

BSED 340—Simulated Office Education	3
BSED 363—Office Management	3
BSAD 301—Principles of Management	3
SPCH 370—Business and Professional Speech	3
Electives	4
	16

AAB—Secretarial Studies

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

Course Requirements

BSED 136—Business Calculations	3
BSED 212—Intermediate Typewriting	3
BSED 213—Advanced Typewriting	3
BSED —Shorthand	9
BSED 221—Business Communications	3
BSED 290—Office Accounting	3
BSED 340—Simulated Office Education	3
BSED 363—Office Management	3
BSAD 200—Introduction to Data Processing	3
ENG 101—Composition I	3
ENG 102—Composition II	3
SPCH 370—Business and Professional Speech	3
*Approved Electives	22
	64

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

(1) General Secretary Electives

BSED 337—Machine Transcription/Reprographics	3
BSED 350—Records Management	3
Approved Electives	16

(2) Legal Secretary Electives

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

(3) Medical Secretary Electives

BSED 332—Medical Assisting Administrative Procedures I	3
BSED 333—Medical Assisting Administrative Procedures II	3
ALH 302—Medical Terminology	2
ALH 303—Interpersonal Relations	3
Approved Electives	11

Suggested Course Sequence**(1) General Secretary Emphasis****First Semester**

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

Second Semester

BSED 290—Office Accounting	3
BSED 213—Advanced Typewriting	3
BSED —Shorthand	3
ENG 102—Composition II	3
Electives	4
	16

Third Semester

BSED —Shorthand	3
BSED 221—Business Communications	3
BSED 337—Machine Transcription/Reprographics	3
BSED 350—Records Management	3
Electives	4
	16

Fourth Semester

BSED 340—Simulated Office Education	3
BSED 363—Office Management	3
SPCH 370—Business and Professional Speech	3
BSAD 200—Introduction to Data Processing	3
Electives	4
	16

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

BSED 136—Business Calculations	3
BSED 212—Intermediate Typewriting	3
BSED —Shorthand	3
ENG 102—Composition I	3

GOVT 141—American Government	3
Elective	1
	16

Second Semester

BSED 290—Office Accounting	3
BSED 213—Advanced Typewriting	3
BSED —Shorthand	3
ENG 102—Composition II	3
GOVT 380—American Courts and Civil Rights	3
Elective	1
	16

Third Semester

BSED—Shorthand	3
BSED 221—Business Communications	3
BSED 340—Simulated Office Education	3
BSAD 461—Business Law I	3
Electives	4
	16

Fourth Semester

BSED 334—Legal Office Procedures	3
BSED 363—Office Management	3
SPCH 370—Business and Professional Speech	3
BSAD 200—Introduction to Data Processing	3
BSED 398—Supervised Field Experience	1
Electives	3
	16

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

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

Second Semester

BSED 290—Office Accounting	3
BSED 213—Advanced Typewriting	3
BSED —Shorthand	3
ENG 102—Composition II	3
ALH 303—Interpersonal Relations	3
Elective	1
	16

Third Semester

BSED—Shorthand	3
BSED 221—Business Communications	3
BSED 332—Medical Assisting Administrative Procedures I	3
BSAD 200—Introduction to Data Processing	3
Electives	4
	16

Fourth Semester

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

Business Education Core—BS Degrees

Each of the three four-year degrees offered in Business Education includes a common core of required courses which provide broad exposure to the basic business functions.

Core Courses	Sem. Hrs.
ACCT 281—Principles of Accounting I	3
ACCT 282—Principles of Accounting II	3
BSAD 200—Introduction to Data Processing	3
BSAD 301—Principles of Management	3
BSAD 304—Marketing	3
BSAD 360—Business Finance	3
BSAD 461—Business Law I	3
BSED 136—Business Calculations	3
BSED 221—Business Communications	3
	27

BS—Business Education—Concentration

Students wishing to teach in all areas of business education on the secondary level should complete the area of concentration program. The area will satisfy certification requirements for teaching accounting, clerical, general business, and secretarial courses.

Course Requirements

Core Courses (BSED)	27
Elective in Accounting	3
BSED 212—Intermediate Typewriting	3
BSED 213—Advanced Typewriting	3
BSED 232—Shorthand II	3
BSED 331—Shorthand III	3
BSED 337—Machine Transcription/Reprographics	3
BSED 340—Simulated Office Education OR	3
BSED 363—Office Management	3
BSED 350—Records Management	3
BSED 375—Teaching Typewriting and Office Practice	3
BSED 376—Teaching Shorthand and Transcription	1
BSED 431—Shorthand IV	3
BSED 475—Teaching Accounting and Basic Business	2
	60

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

BSED 136—Business Calculations	3
BSED 212—Intermediate Typewriting	3
BSED 232—Shorthand II	3
ENG 101—Composition I	3
SCI—Biological Science	3
PHED—Activity	1
	16

Second Semester

ACCT 281—Principles of Accounting I	3
BSED 221—Business Communications	3
BSED 213—Advanced Typewriting	3
BSED 331—Shorthand III	3
PHED—Activity	1
Humanities Elective	3
	16

SOPHOMORE YEAR**First Semester**

ACCT 282—Principles of Accounting II	3
BSED 431—Shorthand IV	3
MATH 160—Mathematics for Business and Economics	4
EDSE 209—Foundations of Secondary Education	2
ENG—Literature Elective	3
Social Science Elective	3
	18

Second Semester

BSAD 200—Introduction to Data Processing	3
BSED 337—Machine Transcription/Reprographics	3
MATH 354—Business Statistics	3
Humanities Elective	3
SCI—Physical Science	3
	15

JUNIOR YEAR**First Semester**

BSAD 301—Principles of Management	3
BSED 350—Records Management	3
ACCT—Elective	3
BSED 363—Office Management	3
ECON 201—Principles of Economics I	3
HLTH 150—Personal Health	2
	17

Second Semester

BSAD 304—Marketing	3
BSED 340—Simulated Office Education	3
BSED 375—Teaching Typewriting and Office Practice	3
EDSE 310—Principles of Adolescent Development	3
Social Science Elective	3
	15

SENIOR YEAR**First Semester**

BSAD 360—Business Finance	3
BSAD 461—Business Law I	3
BSED 376—Teaching Shorthand and Transcription	1
BSED 475—Teaching Accounting and Basic Business	2
ECON 202—Principles of Economics II	3
SPCH 370—Business and Professional Speech	3
	15

Second Semester

EDSE 477—Professional Semester	17
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BS—General Business—Major

Students wishing to teach in the non-secretarial programs on the secondary level should select the General Business Major. This major will satisfy certification requirements for teaching accounting and general business courses.

Course Requirements

BSED—Core Courses	27
ACCT—Elective	3
BSED 212—Intermediate Typewriting	3
BSED 290—Office Accounting	3
BSED 337—Machine Transcription/Reprographics	3
BSED 340—Simulated Office Education	3
BSED 350—Records Management	3
BSED 363—Office Management	3
BSED 364—Personal Finance	3
BSED 375—Teaching Typewriting and Office Practice	3
BSED 475—Teaching Accounting and Basic Business	2
	Total 56

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

BSED 136—Business Calculations	3
BSED 212—Intermediate Typewriting	3
BSAD 200—Intro. to Data Processing	3
ENG 101—Composition I	3
SCI—Biological Science	3
PHED—Activity	1
	16

Second Semester

BSED 290—Office Accounting	3
BSED 221—Business Communications	3
ENG 102—Composition II	3
HLTH 150—Personal Health	2
SCI—Physical Science	3
Social Science Elective	3
	17

SOPHOMORE YEAR**First Semester**

ACCT 281—Principles of Accounting I	3
MATH 160—Math for Business and Economics	3
EDSE 209—Foundations of Secondary Education	2
ENG—Literature Elective	3
BSED 364—Personal Finance	3
Social Science Elective	3
	17

Second Semester

BSAD 301—Principles of Management	3
ACCT 282—Principles of Accounting II	3
BSED 350—Records Management	3
ECON 201—Principles of Economics I	3
EDSE 310—Principles of Adolescent Development	3
PHED—Activity	1
	16

JUNIOR YEAR**First Semester**

BSAD 304—Marketing	3
BSED 337—Machine Transcription/Reprographics	3
BSED 363—Office Management	3
SPCH 370—Business and Professional Speech	3
MATH 354—Business Statistics	3
	15

Second Semester

BSED 340—Simulated Office Education	3
BSAD 360—Business Finance	3
ACCT—Elective	3
ECON 202—Principles of Economics II	3
Humanities Elective	3
	15

SENIOR YEAR

First Semester

BSAD 461—Business Law I	3
BSED 375—Teaching Typewriting and Office Practice	3
BSAD 475—Teaching Accounting and Basic Business	2
Humanities elective	3
Electives	4
	15

Second Semester

EDSE 477—Professional Semester	17
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BS—General Business—Minor

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

Course Requirements

BSAD 136—Business Calculations	3
BSAD—Typewriting	3
BSAD 221—Business Communications	3
BSAD 290—Office Accounting	3
BSAD 363—Office Management	3
Elective	3
BSAD 200—Introduction to Data Processing	3
	21

BS—Secretarial Studies—Major

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

Course Requirements

BSAD—Core	Sem. Hrs.	27
BSAD 212—Intermediate Typewriting	3	
BSAD 213—Advanced Typewriting	3	
BSAD 232—Shorthand II	3	
BSAD 331—Shorthand III	3	
BSAD 337—Machine Transcription/Reprographics	3	
BSAD 340—Simulated Office Education	3	
BSAD 350—Records Management	3	
BSAD 431—Shorthand IV	3	
BSAD 375—Teaching Typewriting and Office Practice	3	
BSAD 376—Teaching Shorthand and Transcription	1	
		55

Suggested Course Sequence

FRESHMAN YEAR

First Semester

BSAD 136—Business Calculations	3
BSAD 212—Intermediate Typewriting	3
ENG 101—Composition I	3
SCI—Biological Science	3
BSAD 232—Shorthand II	3
PHED—Activity	1
	16

Second Semester

ACCT 281—Principles of Accounting I	3
BSAD 221—Business Communications	3
BSAD 213—Advanced Typewriting	3
BSAD 331—Shorthand III	3
MATH 160—Mathematics for Business and Economics	3
HLTH 150—Personal Health	2
	17

SOPHOMORE YEAR

First Semester

ACCT 282—Principles of Accounting II	3
BSAD 200—Introduction to Data Processing	3

BSAD 337—Machine Transcription/Reprographics	3
BSAD 431—Shorthand IV	3
EDSE 209—Foundations in Secondary Education	2
ENG 102—Composition II	3
	17

Second Semester

BSAD 301—Principles of Management	3
BSAD 350—Records Management	3
MATH 354—Business Statistics	3
ENG—Literature Elective	3
ECON 201—Principles of Economics I	3
PHED—Activity	1
	16

JUNIOR YEAR

First Semester

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

Second Semester

BSAD 360—Business Finance	3
ECON 202—Principles of Economics II	3
Social Science Elective	3
Humanities Elective	3
Electives	4
	16

SENIOR YEAR

First Semester

BSAD 461—Business Law I	3
BSAD 375—Teaching Typewriting and Office Practice	3
BSAD 376—Teaching Shorthand and Transcription	1
Social Science Elective	3
Humanities Elective	3
	13

Second Semester

EDSE 477—Professional Semester	17
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BS—Secretarial Studies—Minor

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

Course Requirements

BSAD 136—Business Calculations	3
BSAD—Typewriting	6
BSAD—Shorthand	6
BSAD 290—Office Accounting	3
BSAD 337—Machine Transcription/Reprographics	3
	21

Description of Courses

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

BSAD 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.

BSAD 211. Beginning Typewriting. (3-0-3); I, II. Mastery of the keyboard and machine techniques. Emphasis on development of rapid and accurate typewriting skill and application of these skills to fundamental communication forms, manuscripts, and tabulation.

BSAD 212. Intermediate Typewriting. (3-0-3); I, II, III. Prerequisite: BSAD 211 or equivalent or consent of instructor. Development of speed and accuracy. Business letter styles, manuscripts, and various business forms emphasized.

BSAD 213. Advanced Typewriting. (3-0-3); I, II, III. Prerequisite: BSAD 212 or equivalent. Production typewriting stressed. Emphasis on typing business letters, memorandums, manuscripts, statistical reports, and specialized business forms and reports.

JUNIOR YEAR

First Semester	
ECON 351—Macroeconomic Theory	3
Economics Elective*	3
Humanities Elective	3
Electives	6
	15

Second Semester	
Economics Elective*	3
Humanities Elective	3
Electives	9
	15

SENIOR YEAR

First Semester	
Economics Elective*	3
Electives	12
	15

Second Semester	
Economics Elective*	3
Electives	13
	16

*Economics electives are to be selected from the list "Approved Electives for Economics Programs" with consent of faculty adviser.

BS—Economics Minor**BA—Economics Minor**

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

Course Requirements

	Sem. Hrs.
ECON 201—Principles of Economics I	3
ECON 202—Principles of Economics II	3
ECON 342—Money and Banking	3
ECON 350—Microeconomic Theory	3
ECON 351—Macroeconomic Theory	3
Economics Electives*	6
	Total 21

*Economics electives are to be selected from the list "Approved Electives for Economics Programs" with consent of faculty adviser.

Approved Electives for Economics Programs

Electives required for the major, minor, or option in economics may, with the consent of faculty adviser, be selected from any of the following courses:

ECON 302—Labor Economics	3
ECON 305—Comparative Economic Systems	3
ECON 343—Investments	3
ECON 476—Special Problems	3
ECON 500—Mathematical Economics	3
ECON 501—Environmental Economics	3
ECON 503—Urban and Regional Economics	3
ECON 510—History of Economic Thought	3
ECGN 540—World Manufacturing	3
ECON 541—Public Finance	3
ECON 547—International Economics	3
ECON 555—Economics Development and Growth	3
ECON 560—Financial Markets	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.

Honors Seminar in Economics. (3-0-3). Prerequisite: membership in University honors program. Analysis of contemporary economic 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 growth.

ECON 202. Principles of Economics II. (3-0-3); I, II, III. Prerequisite: ECON 201. A continuation of ECON 201 with emphasis on the theory of the firm, resource allocation and international economics.

ECON 211. Economic Geography. (3-0-3); I, II, III. (See Geography 211.)

ECON 302. Labor Economics. (3-0-3); I, II. Prerequisite: ECON 201 or junior standing. Labor management relations, the labor movement, labor legislation, government control and regulation, economic inequality, standards of living and industrial conflicts.

ECON 305. Comparative Economic Systems. (3-0-3). 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 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.

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

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 351. Macroeconomic Theory. (3-0-3) Prerequisites: ECON 201 and 202. National income accounting; macroeconomic theories of output determination, employment, inflation, and growth; monetary and fiscal policies to control aggregate economic activity.

ECON 476. Special Problems (One to three hours) 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 alternative 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 contemporary problems and possible solutions.

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

ECON 540. World Manufacturing. (3-0-3) (See Geography 540)

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 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 560. Financial Markets. (3-0-3); II. Prerequisites: ACCT 281 and ECON 202. (See BSAD 560.)

ECON 570. Research Problems in Economics. (One to three hours) 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.)

SCHOOL OF EDUCATION

Department of Administration, Supervision and Secondary Education
Department of Adult, Counseling and Higher Education
Department of Elementary and Early Childhood Education
Department of Health, Physical Education and Recreation
Department of Library Science and Instructional Media
Department of Psychology and Special Education

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. Also, the School offers undergraduate and/or graduate curricula in health, physical education and recreation, psychology, special education, library science, higher education, and adult and continuing education.

Teacher education program and professional laboratory experiences

The Director of the Office of Professional Laboratory Experiences is responsible for (1) the administration of the teacher education program, and (2) the administration and supervision of all professional laboratory experiences associated with the School of Education.

Laboratory experiences are offered for undergraduates and graduates in pre-school, elementary and secondary education, educational administration, guidance, recreation, library science, special education, and psychology.

Admission to and Retention in the Teacher Education Program

All students who desire to prepare for teaching must apply and be accepted for admission to the teacher education program.

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

1. Thirty hours with a cumulative grade-point standing of 2.0 or higher on work completed at Morehead State University.
2. Successful completion of California Achievement Test.
3. Successful completion of Speech, Hearing, and Vision Screening Test.
4. The satisfactory evaluation from faculty adviser regarding personal-social-ethical fitness for teaching.
5. Demonstrated proficiency in written and oral communication.
6. 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 Director of Professional Laboratory Experiences.

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

ART 300—Elementary Materials and Methods
 ART 321—Materials and Methods for Secondary Art

BSED 375—Teaching Typewriting and Office Practice
 BSED 376—Methods of Teaching Shorthand
 BSED 471—Seminar in Business Education
 BSED 475—Teaching Accounting and Basic Business
 EDSE 310—Principles of Adolescent Development
 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—Reading in the Primary Grades
 EDEL 337—Reading in the Intermediate Grades
 EDEL/EDSE 410—Human Growth and Development II
 EDEL 425—Supervised Teaching Practicum (Elementary)
 EDEL 425S—Teaching Practicum (Elementary)
 EDEL 427—Professional Semester (Elementary)
 EDSP 435—Supervised Teaching Practicum (LBD)
 EDSP 436—Supervised Teaching Practicum (TMH)
 EDSE 472—Fundamentals of Secondary Education
 EDSE 475—Supervised Teaching Practicum (Secondary)
 EDSE 475S—Teaching Practicum (Secondary)
 EDSE 477—Professional Semester (Secondary)
 EDEC 529—Practicum in Early Childhood Education
 EDSE 576—Reading in the Secondary School
 ENG 500—The Teaching of English
 HLTH 300—Health in the Elementary School
 HLTH 304—Health in the Secondary School
 HEC 470—Methods of Teaching Vocational Home Economics
 IET 300—General Shop Organization
 IET 393—Methods in Vocational Industrial Education
 IET 471—Seminar for Industrial Arts
 IET 475—Teaching Industrial Arts
 LSIM 575—School Library Practice
 PHED 300—Physical Education in the Elementary School
 PHED 303—Physical Education in the Secondary School
 SCI 590—Science for the Elementary Teacher

Professional Laboratory Experiences

The application for student teaching must be filed early in the semester immediately preceding the semester in which the student expects to enroll in the professional semester. Student teaching application forms are obtained from the Director 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.
2. Senior standing and a minimum grade-point average of 2.0 on courses completed at Morehead State University.
3. Completion of a minimum of one semester of residence at Morehead State University.
4. Completion of the prerequisite courses in the sequence of professional education.
5. Completion of a minimum of seventy-five percent of the course work in the area or major selected for student teaching.
6. Attainment of a grade point average of 2.5 or higher in the area or major selected for student teaching.

Courses for which application must be made with the Director 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
 EDEL 425S—Teaching Practicum-Elementary
 EDSE 475S—Teaching Practicum-Secondary
 EDSP 435—Supervised Teaching Practicum (LBD)
 EDSP 426—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

Admission to Professional Laboratory Experiences in Lieu of Student Teaching

For students with two or more years teaching experience in the past ten years, on a legal certificate and in an accredited public school, the regulations of the State Department of Education permit the University to substitute for part or all of student teaching other desirable laboratory experiences after the prerequisites to student teaching have been met. Such laboratory experiences are offered only during the summer term for eligible applicants. The application forms for the professional laboratory experiences in lieu of student teaching may be obtained from the Director of Professional Laboratory Experiences, Room 101, Lyman V. Ginger Hall. To be eligible for this program, the applicant must have completed the following requirements:

1. Admission to and good standing in the teacher education program.
2. Completion of a minimum of 108 semester hours and a minimum grade-point average of 2.0 on courses completed at Morehead State University.
3. Completion of a minimum of one semester of residence at Morehead State University.
4. Completion of the prerequisite courses in the sequence of professional education.
5. Completion of a minimum of seventy-five percent of the required course work in the area or major teaching field.
6. Attainment of a grade point average of 2.5 or higher in the area or major teaching field.
7. Presentation of evidence showing one or more years of successful teaching experience in the public schools or in a private school on a legal certificate.

Upon receipt of the written recommendation by the candidate's superintendent, principal and supervisor, the University may waive four semester hours of the eight semester hours required in student teaching or of the professional laboratory experiences for teachers who have completed a minimum of four years of successful teaching experience. The waiver of hours in this section applies only to the student teaching requirement. It does not reduce the total number of hours required for graduation.

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 Registrar 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.

Administration, Supervision & Secondary Education

The responsibility of the Department of Administration, Supervision, and Secondary Education is twofold.

1. Administration and Supervision is responsible for the instruction, advisement, coordination, and research components associated with graduate study in administration and supervision. Departmental personnel offer coordinated programs designed to prepare school leaders, improve instruction, and increase the proficiencies of individual students. Teaching, inservice and research activities, advisory off-campus and consultant services, encouraging conceptual orientation toward administration and enhancing faculty competencies lead toward the improvement of the field of educational administration.
2. The primary role of Secondary Education, as a component of the School of Education, is to serve the various schools of the University by offering a professional education curriculum leading to certification of teachers for the secondary schools.

Requirements for certification in secondary education

	Sem. Hrs.
EDSE 209—Foundations of Secondary Education.....	2
EDSE 310—Principles of Adolescent Development.....	2
EDSE 477—Professional Semester-Secondary.....	2
EDSE 410—Human Growth and Development II.....	3
EDSE 472—Fundamentals of Secondary Education.....	4
LSIM 412—Median Strategies.....	2
EDSE 475—Supervised Teaching Practicum.....	8
Total Professional Semester.....	17
	Total 22

Description of Courses

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

EDSE 199. Workshop. (One to three hours); 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 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 276. Independent Study. (One to three hours); 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 310. Principles of Adolescent Development. (3-0-3); I, II, III. **Prerequisite:** 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 399. Workshop. (One to three hours); I, II, III. A continuation of EDSE 199.

EDSE 410. Human Growth and Development II. (3-0-3); III. **Prerequisites:** Education 209, 310, admission to the teacher education program and approval of head of department. A continuation of Education 310.

EDSE 470. Research Problems. (One to three hours); 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:** Education 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. (Four to eight hours); 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 475S. Teaching Practicum-Secondary. (One to four hours); III. Prerequisites: Education 209, 310, 410, and 472; admission to the teacher education program; at least one year of fulltime teaching experience; and approval of head of department.

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 2.0 on all residence courses completed at Morehead at the time student teaching begins; a minimum standing of 2.5 on all work completed in the field in which teaching is to be done; completion of seventy-five 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 Director of Professional Laboratory Experiences.)

EDSE 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 computer are presented in a broad context. Instructional mode will be classroom presentation and "hand-on" experience with time-sharing and batch-process computing using the Data General NOVA/840 computing system.

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. (One to three hours); I, II, III. Prerequisite: Teacher's certificate. 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. (One to three hours); 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.

Adult, Counseling and Higher Education

The Department of Adult, Counseling and Higher Education is committed to performing three major functions: (1) to develop the capacity of individuals to plan, organize, and carry through a variety of educational and service programs to meet the broad spectrum of needs in today's dynamic society; (2) to collaborate with schools and community agencies to improve services provided in the region; and (3) to promote and conduct evaluation and research studies related to problems in the service region.

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.

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. (One to three hours); I, II, III. Investigation of specific problem areas in the field of study. May be repeated in additional subject areas.

EDAC 299. (One to three hours); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDAC 399. (One to three hours); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDAC 499. (One to three hours); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDAC 554. Principles of Adult and Continuing Education. (3-0-3); I, II. Overview of adult education; historical development; psychological and sociological basis of adult learning; trends and major issues in adult education; and the principles of teaching adults.

EDAC 599. Workshop. (One to three hours); 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.

EDGC 105. Career Planning. (2-0-2); I, II. Systematic information and guidance in career development is provided which assists the student in making a realistic career decision consistent with needs, abilities, attitudes and personal goals.

EDGC 199. Selected Topics. (One to three hours); I, II, III. Investigation of specific problem areas in the field of study. May be repeated in additional subject areas.

EDGC 299. (One to three hours); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDGC 364. Career and Vocational Guidance. (3-0-3); II. Study of the concept of career education and exploration of the emerging role of the guidance counselor in regard to: problems that exist in our present educational system; innovative concept of career education; the counselor and classroom teacher's responsibility within the framework of career education; evaluation of career education and exploring future implications for developing positive attitudes and values for work for all students including the disadvantaged and handicapped.

EDGC 399. (One to three hours); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDGC 499. (One to three hours); on demand. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas.

EDGC 566. Introduction to Vocational Rehabilitation Services. (3-0-3); I, III. History of vocational rehabilitation movement, legislative efforts and impact; an overview of the rehabilitation process, roles of rehabilitation professionals in various rehabilitation settings, discussion of values and ethics and an examination of professional organizations for rehabilitation personnel.

EDGC 567. Rehabilitation of Special Groups. (3-0-3); I, III. **Prerequisites:** 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, II, III. Identification of educational objectives associated with test construction; table of specifications; elementary statistics; testing and nontesting procedures. Investigations of major types of tests; administration, scoring and interpretation of test results. (Same as PSY 580).

EDGC 599. Workshop. (One to three hours); 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.

Elementary & Early Childhood Education

The functions of the Department of Elementary and Early Childhood Education are: (1) to provide professional preparation for teachers, administrators, and other personnel at the undergraduate and graduate levels; (2) to provide personnel and instruction for special programs such as teacher aides, Head Start and the University Reading Laboratory; (3) 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.

The Department maintains a close working relationship with the public schools within the region through the student teaching program by visitations to each student teacher during the semester.

Associate of Applied Arts for Teacher Aides

The two-year curriculum outlined below leads to the Associate of Applied Arts degree for teacher aides. Credit earned in this program may be applied toward a baccalaureate degree and provisional certification for teaching in the elementary schools. Students enrolled in this program must complete approved courses from the following fields for a minimum of 64 semester hours:

- Humanities
- Sciences and Mathematics
- Social Sciences
- Education

Courses are approved by the student's advisor on the basis of the specific job to be assumed by the aide.

Requirements for Certification in Elementary Education

(Includes both area and general education requirements)

	Sem. Hrs.
EDUCATION	37
EDEL 208—Foundations of Elementary Education	2
EDEL 210—Human Growth and Development I	3
EDEL 321—Teaching of Arithmetic	3
EDEL 322—Teaching Social Studies in Elementary School	3
EDEL 323—Language Arts for the Elementary School	3
EDEL 336—Reading in the Primary Grades	3
EDEL 337—Reading in the Intermediate Grades	3
EDEL 427—Professional Semester includes:	
EDEL 410—Human Growth & Development II	3
LSIM 412—Media Strategies	2
EDEL 425—Supervised Teaching Practicum	4-12
COMMUNICATIONS & HUMANITIES	18
ENG—Composition	6
ENG—Literature electives	6
SPCH—Speech electives	3
Communications or Humanities elective	3
SCIENCE	12
SCI—Physical Science elective	3
SCI—Biological Science elective	3
SCI 590—Science for the Elementary Teacher	3
Math elective	3
SOCIAL SCIENCE	18
GEO—Geography elective	3
HIS—American History elective	3
GOVT—Political Science elective	3
SOC—Sociology elective	3
SOC SCI—Social Science electives	6
PHILOSOPHY	3
PHIL—Philosophy elective	3
MATHEMATICS	6
MATH 231, 232—Math for the Elementary Teacher I & II	6
LIBRARY SCIENCE AND INSTRUCTIONAL MEDIA	3
LSIM 227—Literature & Materials for Children	3
PSYCHOLOGY	3
PSY 154—Life-oriented General Psychology	3

ART	6
ART 121—School Art I	3
ART 221—School Art II	3
MUSIC	4
MUS 100—Rudiments of Music	2
MUS 221—Music for the Elementary Teacher	2
HEALTH & PHYSICAL EDUCATION	6
HLTH 300—Health in the Elementary School	2
PHED 300—PE in the Elementary School	2
PHED—Activity courses	2
ADDITIONAL COURSES	14
Approved electives	14

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.

Early Childhood

EDEC 199. Workshop. (One to three); I, II, III. A workshop for specifically designated task orientation in early childhood education. A maximum of six semester hours may be earned under this course number.

EDEC 276. Independent Study. (One to three hours); 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. (One to three hours); I, II, III. A continuation of EDEC 199.

EDEC 470. Research Problems. (One to three hours); I, II, III. An independent research study of a professional nature. Conferences with the instructor are by arrangement. A maximum of six semester hours may be earned under this course number.

EDEC 527. The Pre-School Child. (3-1-3); I, II, III. The principles of growth and development from the prenatal period to age six. Focuses attention on learning experiences for nursery and kindergarten age children. (Laboratory experiences are an integral part of this course.)

EDEC 528. Activities and Materials in Early Childhood. (3-1-3); I, II, III. Investigates the needs and interests of early childhood and provides opportunities to explore objectives, materials, and techniques of instruction for this age group. (Laboratory experiences are an integral part of this course.)

EDEC 529. Practicum in Early Childhood Education. (1-4-4); I, II, III. Prerequisites: EDEC 527, 528 and admission to the teacher education program. Students are assigned to a pre-school classroom for observation, participation and teaching. On-campus seminars are held weekly. (Application made through the Director of Professional Laboratory Experiences.)

EDEC 599. Workshop. (One to three hours); 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 Education

EDEL 110. Developmental Reading I. (1-2-2); I, II. Provides a diagnostic independent guided improvement of reading skills. Vocabulary and improved comprehension skills are stressed.

EDEL 111. Developmental Reading II. (1-2-2); I, II. A continuation of Developmental Reading I.

EDEL 199. Workshop. (One to three hours); 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 208. Foundations 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 his 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 or 155. 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 250. Practicum. (One to six hours); I, II, III. Experiences include placement in either a classroom or in a simulated classroom laboratory.

EDEL 276. Independent Study. (One to three hours); 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 325. Language Arts for the Elementary School. (3-0-3); I, II, III. **Prerequisite:** admission to the teacher education program. Focuses on role of language arts program in elementary school curriculum. Identification of language arts skills and subsequent teaching techniques of those skills will be central to the course. Skills emphasized are in areas of listening, speaking, writing, and spelling. (Laboratory experiences are an integral part of this course.)

EDEL 333. Fundamentals of Elementary Education. (3-1-4); I, III. **Prerequisites:** admission to the teacher education program and approval of the 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. Reading in the Primary Grades. (2-2-3); I, II. (Alternate summers with Education 337.) **Prerequisite:** admission to the teacher education program. An examination and evaluation of the materials and methods of teaching developmental reading and related language arts in grades K-3. (Laboratory experiences are an integral part of this course.)

EDEL 337. Reading in the Intermediate Grades. (2-2-3); I, II. (Alternate summers with Education 336.) **Prerequisite:** admission to the teacher education program. An examination and evaluation of the materials and methods of teaching developmental reading in grades 4-8. (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. (When taken separately, approval of the head of the department is required.)

Prerequisites: EDEL 208, 210 and admission to the teacher education program. A continuation of EDEL 210.

EDEL 425. Supervised Teaching Practicum-Elementary. (Four to twelve hours); I, II, III. **Prerequisites:** 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 meeting, and out-of-school activities are also required.

EDEL 425S. Teaching Practicum-Elementary. (One to four hours); III. By permission from the Director of Professional Laboratory Experiences. **Prerequisites:** admission to teacher education program; at least one year of full-time teaching experience within the last ten years; completion of a minimum of 108 semester hours of college credit; attainment of a scholastic standing of 2.0 on all residence work completed at Morehead; a minimum standing of 2.5 on the work completed in area requirements; completion of the professional education courses EDEL 208, 210, 321, 336 or 337, and 410; at least one semester of residence credit earned at Morehead State University. Experiences cover all classroom activities except teaching. (Application made through the Director of Professional Laboratory Experiences.)

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 2.0 on all residence courses completed at Morehead; a minimum standing of 2.5 on all work completed in area requirements; 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. Eight weeks are spent in student teaching and eight weeks are spent in class work. (Application made through the Director of Professional Laboratory Experiences.)

EDEL 470. Research Problems. (One to three hours); 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 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 computer are presented in a broad context. Instructional mode will be classroom presentation and "hand-on" experience with time-sharing and batch-process computing using the Data General NOVA/840 computing system.

EDEL 562. Remedial Reading. (2-2-3); I, II, 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. (One to three hours); 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.

Health, Physical Education & 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 also 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 301—Evaluation in Health, Physical Education and Recreation.....	3
HLTH 303—Community Health.....	3
HLTH 320—Elements of Nutrition.....	3
HLTH 360—Family Health.....	3
HLTH 402—Kinesiology.....	3
HLTH 475—School Health Program.....	3
HLTH 518—Use and Abuse of Drugs.....	3
HLTH 532—Physiology of Exercise.....	3
	30

Additional Course for Teacher Certification:

HLTH 304—Health in the Secondary School.....	2
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Suggested Course Sequence

FRESHMAN YEAR

First Semester

HLTH 160—Intro. to Health.....	2
ENG 101—Composition.....	3
SCI 105—Biology.....	3
MATH 130—General Math.....	3
HLTH 203—Safety & First Aid.....	3
SOC SCI—Elective.....	3
	17

Second Semester

HLTH 205—Mental Health.....	3
ENG 102—Composition.....	3
SCI 103—Physical Science.....	3
SOC SCI—Elective.....	3
PHED—Activity.....	1
Fine Arts.....	3
	16

SOPHOMORE YEAR

First Semester

HLTH 301—Evaluation.....	3
BIO 331—Anatomy.....	3
ENG 202—Literature.....	3
PHED—Activity.....	1
SOC SCI—Elective.....	3
HUM—Elective.....	3
	16

Second Semester

HLTH 320—Elements of Nutrition.....	3
HLTH 303—Community Health.....	3
EDSE 209—Foundations of Education.....	2
EDEL 210—Human Growth.....	3
HUM—Elective.....	3
SOC SCI—Elective.....	3
	17

For a Minor in Safety Education:

HLTH 203—Safety and First Aid.....	3
HLTH 500—Introduction to Driver Education.....	3
HLTH 501—Administration of Driver and Traffic Education.....	3
HLTH 503—Supervision of Safety Education.....	3
HLTH 504—Methods of Teaching Driver Education.....	3
HLTH 505—Intermediate Driver Education.....	3
HLTH 512—Advanced Driver Education.....	3
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For Endorsement in Driver Education:

HLTH 203—Safety and First Aid.....	3
HLTH 500—Introduction to Driver Education.....	3
HLTH 505—Intermediate Driver Education.....	3
HLTH 512—Advanced Driver Education.....	3
	12

Description of Courses

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

HLTH 150. Personal Health. (2-0-2); 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 199. Selected Topics. (One to three hours); I, II, III. Directed study of specific areas in health. The topic must be approved by the instructor. Conferences with the instructor are by arrangement.

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. (Same as Physical Education 203.)

HLTH 204. Instructor First Aid. (1-0-1); I, II. Prerequisite: 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. (Same as Education 205.)

HLTH 300. Health in the Elementary School. (2-1-2); I, II, III. Prerequisite: Admission to the teacher education program. The elementary school health program; educational theory and methods as applied to health teaching on the elementary school level. (Laboratory experiences are an integral part of this course.)

HLTH 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. (Same as PHED 301.)

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 320. Elements of Nutrition. (3-0-3); I, II, III. (Same as HEC 320.)

HLTH 341. Affiliation in School Health. (0-2-1); I, II. Guided observation and assisting in school health. (Laboratory experiences are an integral part of this course.)

HLTH 342. Affiliation in Community Health. (0-2-1); I, II. Guided observation and reporting in community health. (Laboratory experiences are an integral part of this course.)

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 402. Kinesiology. (3-0-3); I, II, III. Study of human action: anatomy, physiology, mechanics, analysis, application. (Same as PHED 402.)

HLTH 471. Seminar. (1-0-1); I, II, III. Seminar relative to current issues, problems, and research in the field of health.

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 500. 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 Physical Education 500.)

HLTH 501. Administration of Driver and Traffic Education. (3-0-3); I, II. Prerequisites: HLTH/PHED 500 and 505. 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 503. Supervision of Safety Education. (3-0-3); I, II. Prerequisite: HLTH 203. This course examines the responsibilities, activities and problems of administering safety programs, and 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 504. Methods of Teaching Driver and Traffic Education. (3-0-3); I, II. Prerequisite: HLTH/PHED 500. 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 505. Intermediate Driver Education. (2-2-3); I, II, III. Prerequisite: HLTH 500. 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. Same as PHED 505.)

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 512. Advanced Driver Education (3-0-3); I, II, III. Prerequisites: PHED/HLTH 500 and 505. Analysis of the psycho-physical problems of human behavior as it relates to safety and driver education. (Same as PHED 512.)

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 519. Emergency Medical Techniques. (5-1-6); I, II. Prerequisite: HLTH 203. The 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 532. Physiology of Exercise. (3-0-3); I, II, III. Prerequisite: HLTH 402, or concurrently, or permission of instructor. Study of the response of the body to muscular activity; nature of contraction, work and efficiency, cardiorespiratory adjustment, training and fitness. (Laboratory experiences are an integral part of this course. (Same as PHED 532.)

HLTH 576. Special Problems in Health. (One to three hours); 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. (1-3); 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

Physical Education Requirement For a Major (Men):

	Sem. Hrs.
PHED 104—Gymnastics	1
PHED 120—Basic Rhythms	1
PHED 131—Intermediate Swimming	1
PHED 132—Life Saving	1
PHED 150—Introduction to Physical Education	2
PHED 203—Safety and First Aid	3
PHED 301—Evaluation in Health, Physical Education, and Recreation	3
PHED 302—Athletic Injuries	2
PHED 303—Physical Education in the Secondary School	2
PHED 401—Organization and Administration of Physical Education	3
PHED 402—Kinesiology	3
PHED 532—Physiology of Exercise	3
PHED 575—Adapted Physical Education	2
PHED 222 or 223—Individual Sports	2
PHED 309, 319, 409, or 419—Team Sports	2
5 activities approved by chairman	3
	36

For a Major (Women):

PHED 104—Gymnastics	1
PHED 120—Basic Rhythms	1
PHED 131—Intermediate Swimming	1
PHED 132—Life Saving	1
PHED 150—Introduction to Physical Education	3
PHED 203—Safety and First Aid	3
PHED 301—Evaluation in Health, Physical Education, and Recreation	3
PHED 302—Athletic Injuries	2
PHED 303—Physical Education in the Secondary School	2

PHED 401—Organization and Administration of Physical Education	3
PHED 402—Kinesiology	3
PHED 520—Coaching Women's Athletics	3
PHED 532—Physiology of Exercise	3
PHED 575—Adapted Physical Education	2
PHED 222 or 223—Individual Sports	2
PHED 309 or 319—Team Sports	2
2 activities approved by chairman	2
	36

Suggested Course Sequence for Men

FRESHMAN YEAR

First Semester	
ENG 101—Composition	3
SCI 105—Biology	3
PHED 150—Intro. to P.E.	2
Social Science Elective	3
MATH 130—Gen. Math	3
PHED 120—Basic Rhythms	1
PHED 131—Inter. Swimming	1
	16

Second Semester	
ENG 102—Composition	3
SCI 103—Phy. Sci.	3
Soc. Sci. Elective	3
Fine Arts Elective	3
PHED 203—Safety & First Aid	3
PHED 101—Tennis	1
	16

SOPHOMORE YEAR

First Semester	
ENG 201—Intro. to Lit.	3
PHED 204—Officiating	2
BIOL 331—Anatomy	3
Hum. Elective	3
Soc. Sci. Elective	3
PHED 118—Volley Ball	1
PHED 132—Life Saving	1
	16

Second Semester	
PHED 222—Ind. Sports	2
EDEL 210—Hum. Growth	3
EDSE 209—Found. of Ed.	2
HLTH 301—Evaluation	3
Soc. Sci. Elective	3
PHED 104—Gym	1
PHED 309—Team Sports	2
	16

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	3
EDEL 333—Fundamentals of Elementary Education	4
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For a Minor in Athletic Training:

PHED 203—Safety and First Aid	3
PHED 302—Athletic Injuries	2
PHED 402—Kinesiology	3
PHED 502—Administration of School Athletic Programs	3
PHED 514—Training Room Modalities	2
PHED 515—Medical Aspects of Athletic Training	2
PHED 516—Training Room Practice	2
PHED 517—Diagnostic Techniques of Athletic Injuries	2
PHED 532—Physiology of Exercise	3
HLTH 320—Elements of Nutrition	3
	25

Description of Courses

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

All activity courses carrying one hour of credit meet two hours per week for the entire semester or four hours per week for half of the semester.

PHED 100. Golf. (0-2-1); I, II, III. Emphasis on skill, knowledge and techniques for individual participation.

PHED 101. Tennis. (0-2-1); I, II, III. Emphasis on skill, knowledge, tactics and techniques for individual participation.

PHED 102. Badminton. (0-2-1); I, II, III. Emphasis on skill, knowledge, tactics and techniques for individual participation.

PHED 103. Archery. (0-2-1); I, II, III. Emphasis on skill, knowledge, tactics, and techniques for individual participation.

PHED 104. Gymnastics. (0-2-1); I, II. Emphasis on self-testing activities. Locomotor activities, rolls, springs and dual stunts will be stressed.

PHED 105. Conditioning. (0-2-1); I, II. Emphasis on developing physical fitness through a variety of exercises and activities.

PHED 106 (For Men). Wrestling. (0-2-1); I, II. Rules of interscholastic and intercollegiate wrestling, various holds and escapes, and conditioning necessary to perform skills.

PHED 107. Bowling. (0-2-1); I, II, III. Acquaints the student with the basic movement skills involved in bowling. Other factors considered will be knowledge of the rules, scoring, and the accepted procedures used in individual and team play.

PHED 108. Restricted Physical Education. (0-2-1); I, II. For students with either a structural or functional problem which prevents their participation in the regular program. (May be repeated one time for credit.)

PHED 109. Elementary Horsemanship. (0-2-1); I, II. (Same as AGR 109.)

PHED 110. Judo. (0-2-1); II. Basic throwing and mat techniques used in sport judo are stressed. Introduction to rules, competitive systems and physical conditioning necessary to perform the related techniques are covered.

PHED 111. Angling. (0-2-1); I, II, III. The basic skill in becoming an angler is casting; fly and bait. In fly casting, the fundamental techniques and skills to be taught would be grip, stance, aim and cast.

PHED 112. Handball. (0-2-1); I, II. Emphasis on knowledge, tactics, skill and techniques for individual participation.

PHED 113. Soccer. (0-2-1); I, II. Rules, techniques and participation in soccer.

PHED 114. Track and Field. (0-2-1); I, II. Emphasis on skill, knowledge and techniques for individual participation.

PHED 115. Apparatus. (0-2-1); I, II. Stress will be to acquaint the individual with the many pieces of apparatus on which self-testing activities can be performed.

PHED 116. Lacrosse. (0-2-1); I. Acquaint 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: PE 109 or equivalent. (Same as AGR 119.)

PHED 120. Basic Rhythms. (0-2-1); I, II, III. An activity course designed to develop both skills and knowledge in the fundamentals of dance.

PHED 121. Modern Dance. (0-2-1); I, II. Modern dance technique, composition, and production. An introduction to movement as a means of self expression.

PHED 122. Social Dance (0-2-1); I, II. The basic steps and combination of popular dances; to acquire a skill in these steps to participate in dancing for pleasure and satisfaction.

PHED 123. Folk and Square Dance (0-2-1); I, II. Traditional social dances of people of many nations, including the American square dance.

PHED 124. Canoeing. (0-2-1); I, III. Emphasis on skill, knowledge, and tactics in all types of streams. (Same as Recreation 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 in 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 certification as an American Red Cross W.S.I.

PHED 135. (For Women). Field Hockey. (0-2-1); II. Designed to familiarize the student with fundamental skills and techniques in field hockey.

PHED 136 (For Women). Basketball. (0-2-1); I, II. Designed to familiarize the student with fundamental skills and techniques in basketball.

PHED 138. Fencing. (0-2-1); I, II. Emphasis on skill, knowledge and strategy.

PHED 150. Introduction to Physical Education. (2-0-2); I, II, III. Principles and basic philosophy, aims and objectives; standards; and significance in the profession of physical education.

PHED 203. Safety and First Aid. (3-0-3); I, II, III. (Same as HLTH 203.)

PHED 204. Officiating. (2-0-2); I, II. Interpretation of rules for all major sports. Methods and techniques of officiating; laboratory experience in officiating.

PHED 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 222 (For Men). Individual Sports I. (2-0-2); I, II, III. Emphasis on the development of performance skill and teaching techniques in tennis, badminton and golf.

PHED 222W (For Women). Individual Sports I. (1-1-2); I, II. Emphasis on the development of performance skills, teaching techniques, and officiating in tennis, track, and field.

PHED 223 (For Men). Individual Sports II. (2-0-2); I, II, III. Emphasis on the development of performance skills and teaching techniques in wrestling, gymnastics, and swimming.

PHED 223W (For Women). Individual Sports II. (1-1-2); I, II. Emphasis on the development of performance skills and teaching techniques in archery, golf, and badminton.

PHED 300. Physical Education in the Elementary School. (2-0-2); I, II, III. 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. (Same as HLTH 301.)

PHED 302. Athletic Injuries. (2-0-2); III. Theory and practice of massage, bandaging, taping and caring for athletic injuries.

PHED 303. Physical Education in the Secondary School. (2-0-2); I, II, III. 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 308 (For Men). Baseball Techniques. (2-0-2); I, II. The fundamentals and strategy of baseball are covered from both the theoretical and practical aspects.

PHED 309 (For Men). Team Sports I. (2-0-2); I, II. Emphasis on the development of performance skill and teaching techniques in basketball.

PHED 309 (For Women). Team Sports I. (1-1-2); I, II. Emphasis on the development of performance skills, teaching techniques, and officiating in volleyball and soccer.

PHED 311. Movement Exploration. (2-1-3); I, II. Designed to present physical education as a child centered program and demonstrate methods whereby a child may learn to move experimentally, expressively, and efficiently.

PHED 312. Individual and Team Games for Elementary School. (2-3-4); I, II. Emphasis will be on the development of the individual skills in a team game atmosphere.

PHED 319 (For Men). Team Sports II. (2-0-2); I, II, III. Emphasis on the development of performance skill and teaching techniques in baseball.

PHED 319 (For Women). Team Sports II. (2-0-2); I, II. Emphasis on the development of performance skills, teaching techniques, and officiating in basketball and field hockey.

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. **Prerequisite:** BIOL 332. (Same as HLTH 402.)

PHED 409 (For Men). Team Sports III. (2-0-2); I, II. Emphasis on the development of performance skill and teaching techniques in football.

PHED 419 (For Men). Team Sports IV. (2-0-2); I, II. Emphasis on the development of performance skills and teaching techniques in cross-country and track and field.

PHED 500. Introduction to Driver Education. (3-0-3); I, II, III. (Same as HLTH 500.)

PHED 501. Administration of Driver and Traffic Education. (3-0-3); I, II. (Same as HLTH 501.)

PHED 502. 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 503. Supervision of Safety Education. (3-0-3); I, II. (Same as HLTH 503.)

PHED 504. Methods of Teaching Secondary Driver and Traffic Education. (3-0-3); I, II. (Same as HLTH 504.)

PHED 505. Intermediate Driver Education. (2-2-3); I, II, III. **Prerequisite:** PHED 500. (Same as HLTH 505.)

PHED 512. Advanced Driver Education. (3-0-3); I, II, III. **Prerequisite:** PHED 500 and 505. (Same as HLTH 512.)

PHED 514. Training Room Modalities. (1-1-2); I, II. **Prerequisites:** 203, 302. Emphasis on participation and use of machinery by the students involved with training room procedures.

PHED 515. 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 516. Training Room Practice. (0-3-3); I, II. **Prerequisites:** PHED 203, 302. Actual work-participation situation involving the student in training room work.

PHED 517. Diagnostic Techniques of Athletic Injuries. (1-1-2); I, II. **Prerequisites:** PHED 203, 302. Diagnosis of athletic injuries.

PHED 520. Coaching Women's Inter-Scholastic Athletics. (3-0-3); I, II. Emphasis will be on the coaching techniques of women's inter-scholastics.

PHED 532. Physiology of Exercise. (3-0-3); I, II, III. (Same as HLTH 532.)

PHED 575. 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. (One to three hours); 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. (One to three hours); I, II, III. A workshop for specifically designated task orientation in physical education. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

Recreation

For a Major in Recreation:

REC 201—Outdoor Recreation	3
REC 209—Recreational Sports	2
REC 285—Community Recreation	2
REC 286—Recreational Leadership	2
REC 288—Recreational Arts and Crafts	2
REC 290—Field Experience I	1
REC 305—Social Recreation	2
REC 310—Youth Organization	2
REC 375—Creative Dramatics	3
REC 388—Community Centers and Playgrounds	3
REC 390—Field Experience II	1
REC 471—Seminar	1
REC 475—Therapeutic Recreation	3
REC 477—Recreation Internship	8
REC 580—Outdoor Interpretation	3
	38

Suggested Course Sequence

FRESHMAN YEAR

First Semester	
ENG 101—Composition	3

SCI 105—Biology	3
HLTH 150—Personal Health	2
REC 201—Outdoor Recreation	3
REC 285—Community Recreation	2
PHED—Activity Course	1
SOC SCI—Elective	3
	17

Second Semester

ENG 102—Composition	3
SCI 103—Physical Science	3
MATH 130—General Math	3
REC 286—Recreation Leadership	2
SOC SCI—Elective	3
HUM—Fine Arts	3
	17

SOPHOMORE YEAR

First Semester

REC 288—Arts and Crafts	2
ENG 201—Intro. to Literature	3
PHED—Activity Course	1
SOC SCI—Elective	3
SCI—Elective	3
HUM—Elective	1
	13

Second Semester

REC 209—Recreational Sports	2
REC 290—Field Experience	1
REC 305—Social Recreation	2
REC 310—Youth Organizations	2
SOC SCI—Elective	3
HUM—Elective	3
SCI—Elective	3
	16

Description of Courses

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

REC 124. Canoeing. (0-2-1); I, III. (Same as PHED 124.)

REC 201. Outdoor Recreation. (3-0-3); II, III. Scope and history of outdoor recreation. Development of camp craft skills.

REC 209. Recreational Sports. (2-1-2); I, II, III. **Prerequisite:** Three of five activities. History, knowledge of rules, proficiency of the skills, and teaching ability of: bowling, archery, volleyball, soccer, and squash-handball. (Laboratory experiences are an integral part of this course.)

REC 285. Community Recreation. (2-0-2); I, II, III. Emphasizes the general aspects of community recreation, the place of the school and other social institutions in recreation.

REC 286. Recreation Leadership. (2-0-2); I, II, III. History, theory, and philosophy of recreation. Practical techniques of leadership for low organization activities.

REC 288. Recreational Arts and Crafts. (1-2-2); I, II, III. Methods and materials, techniques of producing all types of crafts suitable for playground, community centers, hospital, school, camp and club programs.

REC 290. Field Experience I. (1-1-1); I, II, III. Designed to give the student practical experience under the guidance of qualified leadership. (Laboratory experiences are an integral part of this course.)

REC 305. Social Recreation. (2-0-2); II. Practical application of planning, demonstration and conducting activities and programs for various social events and gatherings.

REC 310. Youth Organizations. (2-0-2); II. History, principles, 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. (4-8 hours). 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 Director 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 Director of Professional Laboratory Experiences.)

REC 522. Park Management and Resource and Operation. (3-0-3); I, II. Prerequisite: senior standing. This course is a study of the 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 such things that are peculiar to recreation and park administration 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. (One to three hours); 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. (One to three hours); 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.

Library Science/Instructional Media

The Department of Library Science and Instructional Media is responsible for the instruction, advisement, research and service components of programs associated with library science and instructional media. The undergraduate and graduate curricula are designed to fulfill the requirements for certification for school media librarians and to provide supportive courses in media for teachers, media specialists, and para-professionals.

The requirements listed below became operative for persons beginning a program of preparation during the 1975-76 school year. Those already in a library science minor program have until July 1, 1979, to complete it, after which the minor program is scheduled to cease, inasmuch as the certificate based upon a library science minor will no longer be issued.

Requirements for Certification as a School Media Librarian

- The specialization component shall include a major of at least 30 semester hours credit in the following:
 - School media organization and administration; theory and function
 - Media classification; cataloging, and processing
 - Printed and non-printed curriculum related media
 - Production of instructional media
 - Selection, evaluation, and use of media
 - Reference and bibliography
 - Children's literature, ages 1-10
 - Adolescent literature, ages 11-14
 - Young adult literature, ages 14 plus
- It shall include a 21 semester hour minor.
- The professional preparation component shall consist of a minimum of 26 semester hours credit distributed among the following areas of study.
 - Human Growth and Development; Educational Psychology, 6 semester hours
 - Basic Concepts Concerning Education; Curriculum Study (K-12), 6 semester hours
 - Teaching of Reading, 6 semester hours
 - Supervised Practicum in a Media Center, 8 semester hours.

Professional Preparation

EDSE 209—Foundations of Secondary Education.....	2
EDSE 310—Principles of Adolescent Development.....	3
EDEL 333—Fundamentals of Elementary Education.....	4
EDSE 410—Human Growth and Development II.....	3
EDEL 336—Reading in Primary Grades.....	3
EDEL 337—Reading in Intermediate Grades.....	3
OR	
EDSE 576—Reading in the Secondary School.....	3
EDSE 472—Fundamentals of Secondary Education.....	4

Library Science/Instructional Media

LSIM 477—School Media Library Practicum I.....	4
LSIM 577—School Media Library Practicum II.....	4

Specialization Component

LSIM 201—Careers in Media Librarianship.....	3
LSIM 227—Literature and Materials for Children.....	3
LSIM 301—Library Organization and Administration.....	3
LSIM 582—Audiovisual Aids in Education.....	3
LSIM 511—Cataloging and Classification.....	3
LSIM 521—Literature and Materials for Young People.....	3
LSIM 523—Reference and Bibliography.....	3
LSIM 542—Selection and Evaluation of Media.....	3
LSIM 583—Producing Audio Visual Materials.....	3
LSIM—Elective.....	3

The Minor in Library Science/Instructional Media

The minor program in Library Science/Instructional Media will prove helpful to students desiring knowledge and skills in information processing and research as a complement to a major field, other students who may wish to acquire media production and utilization skills, as well as students desiring a background in educational communication career opportunities. Students working toward teaching certification may wish to gain proficiency in designing, producing, and using educational library media resources. Although the minor is not a certification program, coursework taken in the program can later be credited toward a fifth year or master's program leading to certification as a School Media Librarian.

Requirements for a Minor: (Non-certification)

Six semester hours selected from the following courses:.....	6
LSIM 227—Literature and Materials for Children	
LSIM 301—Library Organization and Administration	
LSIM 500—Public Libraries	
LSIM 510—Public Library Practice	
LSIM 511—Cataloging and Classification	
LSIM 521—Literature and Materials for Young People	
LSIM 522—Literature and Materials for Adults	
LSIM 523—Reference and Bibliography	
Six semester hours selected from the following courses:.....	6
LSIM 382—Utilization of Instructional Media	
LSIM 542—Selection and Evaluation of Media	
LSIM 547—Utilization of Educational Television	
LSIM 582—AV Aids in Education	
LSIM 583—Producing AV Materials	
Nine semester hours of coursework elected by the student with adviser approval.....	9
	21

Advisers counsel with students in the selection of courses and development of a total program of study. Students should consult with the head of the department of Library Science and Instructional Media.

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 placed upon organization and resources of the Johnson Camden Library. The course is especially designed for college freshmen.

LSIM 199. Selected Topics. (1-3 hours); on demand. Independent study and research in specific areas in library science. The topics must be approved in advance by the instructor. Conferences with the instructor are by arrangement. May be repeated for a total of not more than three hours credit.

LSIM 201. Careers in Media Librarianship. (3-0-3); I, II. A brief overview of the historical development of libraries and librarianship, and a panoramic view of libraries/media centers from the standpoint of objectives, types, organizations, services, trends. The library profession and career opportunities will be the major areas covered in the course. Guest lecturers and field trips will be utilized.

LSIM 212. Preparation and Utilization of Instructional Materials. (1-3-3); on demand. Primarily for paraprofessional educational workers. The course is designed to develop skills in preparing media materials; care, operation and simple maintenance of media equipment.

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 interest needs, abilities of children.

LSIM 301. Library Organization and Administration. (3-0-3); I, II, III. An overview of the functions, organization, and administration of the school library media center. The course should provide students with background

information and experiences needed to develop skills required to (1) identify and fulfill the primary service responsibilities of a school library media center, (2) to establish necessary organizational structures and optimal administrative arrangements, (3) plan and maintain the physical facilities required, and (4) develop and administer policies and procedures to carry out school library media center functions.

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 a modern school.

LSIM 477. School Media Library Practicum I. (0-10-4); I, II. **Prerequisites:** EDSE 209, 310 and admission to the teacher education program. Practical experience in the application of the procedures used in the modern school media center; observation of media center (s), media librarians, students and faculty; duties of media librarians and the role of the media center are stressed. (Application made through the Director of Professional Laboratory Experiences.)

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 these objectives. Attention is given to Kentucky public library trends, management, services, and special problems.

LSIM 510. Public Library Practice. (3 hours); on demand. **Prerequisite:** Library Science 500. The public library practice is designed to provide the prospective public librarian with the opportunity to apply and test his/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 Director of Professional Laboratory Experiences.)

LSIM 511. Cataloging and Classification. (3-0-3); II, III. **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, 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); II, 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, III. 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); I, III. A thorough investigation of the most significant basic titles in a general reference collection and experience in the compiling of bibliographies. Organization is by the types of reference materials: encyclopedias, dictionaries, bibliographies, yearbooks, indexes, etc. Emphasis is placed upon reference services in school, academic and public libraries.

LSIM 530. Creative Library Programs. (3-0-3); I, II. 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); II, III. **Prerequisite:** Instructional Media 582 or permission of department head. Selection and evaluation of media will be both of hardware (equipment) and software (materials). Consideration of the hardware will include

study of details of writing specifications for purchase of equipment which has been evaluated pragmatically. 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. **Prerequisite:** Upper division standing. The use of television in the classroom. The history and background of ETV; how a telecourse is developed; Personnel needed; examples of telelessons and their use by outstanding teachers.

LSIM 550. Message Design and Production. (3-0-3); I, III. The design, production, and evaluation of instructional messages and message systems. Through task analysis, the student shall first identify and design examples of instructional messages using principles of effective communication theory. The student will then produce the communication in AV form using appropriate graphic production techniques. The student will finally evaluate and revise the communication product through evaluative tryouts with target groups.

LSIM 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/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 media production for continuing use in the school system.

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. (Three to four hours); I, II, III. **Prerequisite:** all other library science courses required for certification except those taken as the same time as practice work. Practical application of procedures in modern school library. Reading guidance, storytelling, book talks, organization of teaching materials are stressed. (Application made through the Director of Professional Laboratory Experiences.)

LSIM 577. School Media Library Practicum II. (0-10-4); I, II. **Prerequisites:** EDSE 209, 310, and admission to the teacher education program. This course is a continuation and expansion of LSIM 477 and is taken concurrently with that course in all but very 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 Director of Professional Laboratory Experiences.)

LSIM 580. Learning Systems Design. (3-0-3); I, II. 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, II, III. **Prerequisite:** upper division standing. Overview of the instructional media in use in up-to-date school. 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 (slides-prints), motion picture photography, audio production, and classroom television production.

LSIM 588. Educational Gaming and Simulation. (3-0-3); I, III. This course is designed as 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/her own design which will be evaluated and revised by tryout with selected target groups.

LSIM 599. Workshop. (1-6); 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.

Psychology & Special Education

The Department of Psychology and Special Education is responsible for the instruction, advisement, research, and service components normally associated with undergraduate and graduate studies in psychology and special education.

The undergraduate curricula include a teaching and non-teaching major and minor in psychology and an area of concentration and a non-teaching major and minor in special education.

Requirements for a Major:

	Sem. Hrs.
PSY 154—Life-oriented General Psychology.....	3
PSY 155—Science-oriented General Psychology.....	3
PSY 581—Experimental Psychology I.....	3
PSY 585—Systems and Theories.....	3
Electives.....	18
EDSP 581—Educational Statistics.....	3
or	
MATH 353—Statistics.....	33

Requirements for a Minor:

PSY 154—Life-oriented General Psychology.....	3
or	
PSY 155—Science-oriented General Psychology.....	
Electives.....	18
EDSP 581—Educational Statistics.....	3
or	
MATH 353—Statistics.....	24

Suggested Program

The following program has been devised to help students in selecting their courses and arranging their schedules. This program need not be followed specifically from semester to semester, but close adherence to it will aid the student in meeting all requirements for graduation. The student should note that two required courses for the major — Experimental Psychology and Systems and Theories — are offered only during the fall semester.

Major in Psychology

FRESHMAN YEAR

First Semester	
PSY 154—Life-oriented General Psychology.....	3
ENG—Composition.....	3
SCI—Physical Science.....	3
SOC SCI—Elective.....	3
MINOR.....	3
PHED—Activity course.....	1
	16

Second Semester	
PSY 155—Science-oriented General Psychology.....	3
ENG—Composition.....	3
SCI—Biology elective.....	3
SOC SCI—Elective.....	3
MINOR.....	3
PHED—Activity.....	1
	16

SOPHOMORE YEAR

First Semester	
PSY—Elective.....	3
ENG—Literature.....	3
MATH—Elective.....	3
HLTH—Elective.....	2
HUM—Elective.....	3
SOC SCI—Elective.....	3
	17

Second Semester	
PSY—Elective.....	3
MATH 353—Statistics or Math or Science Elective.....	3
HUM—Elective.....	3

SOC SCI—Elective.....	3
MINOR—Elective.....	3
	15

JUNIOR YEAR

First Semester	
PSY—Electives.....	6
COMM—Elective.....	3
MINOR.....	3
Electives OR	
*EDSE 209—Foundations of Secondary Education and Elective.....	4
	16

Second Semester	
PSY—Electives.....	6
MINOR.....	3
†EDSP 581—Educational Statistics or Elective.....	3
Electives or *EDSE 310, Principles of Adolescent Development, and Elective.....	4
	16

SENIOR YEAR

First Semester	
PSY 581—Experimental Psychology I.....	3
PSY 585—Systems & Theories.....	3
MINOR.....	3
Electives.....	6
	15

Second Semester	
Electives or *EDSE 477, Professional Semester.....	17

Description of Courses

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

PSY 154. Life-Oriented General Psychology. (3-0-3); I, II, III. An introductory and general course concerning the application of psychological theories and principles in the areas of personality, abnormal psychology, clinical psychology, psychodiagnostics, developmental psychology, psychotherapy and counseling; includes some understanding of methods used in personality and clinical research.

PSY 155. Science-Oriented General Psychology. (3-0-3); I, II, III. Psychology as a behavioral science. Emphasis on the experimental areas in psychology including learning, motivation, emotion, perception, biopsychology, and development.

PSY 199. Workshop. (One to three hours); I, II, III. A workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

PSY 221. Child Psychology. (3-0-3); I. Prerequisite: PSY 154 or 155. General principles of child development; factors influencing development of motor abilities, emotions, and social interactions; covers changes in behavior that occur between the time of conception and the time of puberty.

PSY 222. Adolescent Psychology. (3-0-3); II. Prerequisite: PSY 154 or 155. The meaning and significance of adolescence; physical, emotional, social, and mental growth; adolescent interests; home, school, and community problems of the adolescent; personality development.

PSY 276. Independent Study. (One to three hours); I, II, III. An independent study of a professional problem in psychology.

PSY 353. Industrial Psychology. (3-0-3); I, II. Prerequisite: PSY 154 or 155. 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 390. Psychology of Personality. (3-0-3); I, II, III. Prerequisite: PSY 154 or 155. 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. (One to three hours); I, II, III. A workshop for specifically designated task orientation in psychology. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

*Required for Teacher Certification

†Either MATH 353 or EDSP 581 will satisfy the program's requirement for a course in statistics.

PSY 422. Comparative Psychology. (3-0-3); II. **Prerequisite:** PSY 154 or 155. Theory and application of field and laboratory techniques used in understanding behavior of animals. Areas studied include: instinct, learning, motivation, sensory discrimination, heredity, and perception.

PSY 470. Research Problems. (One to three hours); I, II, III. An independent research study of a professional problem. Conferences with the instructor are by arrangement.

PSY 521. Physiological Psychology. (3-0-3); I. **Prerequisite:** PSY 154 or 155. 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. Social Psychology. (3-0-3); II. **Prerequisite:** PSY 154 or 155. The scientific study of the individual's relationships with his social environment. Emphasis is placed on attitudes, personality, prejudice, discrimination dominance, role theory, social learning, social and interpersonal perception, and social movements.

PSY 555. Environmental Psychology. (3-0-3); II. **Prerequisite:** PSY 154 or 155. The study of the 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 or 155 and ED 581 or MATH 353. A survey of basic theoretical issues and research in the areas of assessment 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 558. Psychological Testing. (3-0-3); I, III. **Prerequisite:** PSY 154 or 155 and ED 581 or MATH 353. 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 or 155. 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—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 581. Experimental Psychology I. (2-2-3); I. **Prerequisite:** PSY 154 or 155 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 582. Experimental Psychology II. (2-2-3); II. **Prerequisite:** PSY 581 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 own ideas. (Laboratory experiences are an integral part of this course.)

PSY 583. Sensory Psychology. (3-0-3); I. **Prerequisites:** PSY 154 or 155 and ED 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. **Prerequisite:** PSY 154 or 155. 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 or 155 and ED 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:** 154 or 155. 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:** 154 or 155. The fundamental principles of learning, including acquisition, retention, forgetting, problem solving, and symbol formation; experimental studies; the

application of principles to practical problems in habit formation, development of skills, remembering, and logical thinking.

PSY 590. Abnormal Psychology. (3-0-3); I, II, III. **Prerequisite:** PSY 154 or 155. 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. (1-3); 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.

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) a non-teaching major and minor in special education, and (3) a certification program in the trainable mentally handicapped. 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. This certificate covers the age range birth to twenty-one. The area of concentration in learning and behavior disorders also provides certification in elementary education. Students interested in this program should consult with an adviser in the Department of Psychology and Special Education before registering for any courses.

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. Students interested in certification for the trainable mentally handicapped should contact the department for information about the courses required for the program.

Area of Concentration in Learning and Behavior Disorders (includes both area and general education requirements).

Requirements:	
SPECIAL EDUCATION	36
EDSP 230—Education of Exceptional Children	3
EDSP 231—Field Experience with Children with Learning & Behavior Disorders	3
EDSP 435—Student Teaching	12
EDSP 537—Educational Assessment of Exceptional Children	3
EDSP 550—Nature and Needs of Exceptional Children	3
EDSP 551—Curriculum for Pre-School Exceptional Children	3
EDSP 553—Curriculum for Secondary Exceptional Children	3
EDSP 555—Teaching Children with Learning & Behavior Disorders	3
EDSP 557—Curriculum for Elementary Exceptional Children	3
EDUCATIONAL	29
EDEL 208—Foundation of Elementary Education	2
EDEL 210—Human Growth & Development I	3
EDEL 321—Teaching of Arithmetic	3
EDEL 322—Teaching Social Studies in the Elem. School	3
EDEL 323—Language Arts for the Elementary School	3
EDEL 333—Fundamentals of Elementary Education	4
EDEL 336—Reading in the Primary Grades	3
EDEL 337—Reading in the Intermediate Grades	3
EDEL 410—Human Growth & Development II	3
EDEL 412—Media Strategies	2
HUMANITIES	20
ENG—Composition	6
ENG—Literature elective	3
SPCH 320—Introduction to Corrective Speech	3
ART 121—School Art I	2

ART 221—School Art II.....	2
MUST 100—Rudiments of Music.....	2
MUSE 221—Music for the Elementary Teacher	2
SCIENCE.....	15
SCI—Physical Science elective.....	3
SCI—Biological Science elective.....	3
MATH 231—Math for the Elementary Teacher I.....	3
MATH 232—Math for the Elementary Teacher II.....	3
SCI 590—Science for the Elementary Teacher	3
SOCIAL SCIENCE.....	12
A total of 12 hours from at least two of the following fields: 1. Economics. 2. Geography. 3. Government and Public Affairs, 4. History. 5. Sociology.	
LIBRARY SCIENCE INSTRUCTIONAL MEDIA	3
LSM 227—Literature & Materials for Children.....	3
PSYCHOLOGY.....	3
PSY 154—Life-Oriented General Psychology	3
HEALTH AND PHYSICAL EDUCATION.....	6
HLTH 300—Health in the Elementary School.....	2
PHED 300—Physical Education in the Elementary School.....	2
PHED—Activity courses.....	2
ELECTIVES.....	4
TOTAL 128	

Suggested Program

The following program has been devised to help students in selecting their courses and arranging their schedules. This program need not be followed specifically from semester to semester, but close adherence to it will aid the student in meeting all requirements for graduation.

FRESHMAN YEAR

First Semester

ENG—Composition.....	3
ART 121—School Art I.....	2
PSY 154—Life-Oriented General Psychology	3
SCI—Physical Science.....	3
SOC SCI—Elective.....	3
PHED—Activity.....	1
	15

Second Semester

ENG—Composition.....	3
ART 221—School Art II.....	2
MUST 100—Rudiments of Music.....	2
SCI—Biological Science.....	3
SOC SCI—Elective.....	3
EDEL 208—Foundation of Elementary Education.....	2
PHED—Activity.....	1
	16

SOPHOMORE YEAR

First Semester

MUSE 221—Music for the Elementary Teacher	2
ENG—Literature.....	3
EDEL 210—Human Growth and Development I.....	3
EDSP 230—Education of Exceptional Children.....	3
EDSP 231—Field Experience with Children with Learning and Behavior Disorders.....	3
SOC SCI—Elective.....	3
	17

Second Semester

EDSP 320—Introduction to Corrective Speech.....	3
MATH 231—Math for the Elementary Teacher I.....	3
MATH 232—Math for the Elementary Teacher II.....	3
EDEL 321—Teaching of Arithmetic.....	3
EDEL 322—Teaching Social Studies.....	3
	15

JUNIOR YEAR

First Semester

EDSP 550—Nature and Needs of Exceptional Children.....	3
EDEL 336—Reading in the Primary Grades.....	3
EDEL 337—Reading in the Intermediate Grades.....	3
LSM 227—Literature and Materials for Children.....	3
SCI 590—Science for the Elementary Teacher	3
PHED 300—Health in the Elementary School.....	2
	17

Second Semester

EDSP 537—Educational Assessment of Exceptional Children.....	3
EDSP 551—Curriculum for Pre-School Exceptional Children.....	3
EDSP 553—Curriculum for Secondary Exceptional Children.....	3
EDSP 557—Curriculum for Elementary Exceptional Children.....	3
EDEL 323—Language Arts for the Elementary School.....	3
	15

SENIOR YEAR

First Semester

EDSP 555—Teaching Children with Learning & Behavior Disorders.....	3
SOC SCI—Elec.....	3
PHED 300—Physical Education in the Elementary School.....	2
Electives.....	8
	16

Second Semester

EDEL 410—Human Growth and Development II.....	3
EDEL 412—Media Strategies.....	2
EDSP 435—Student Teaching.....	12
	17
TOTAL 128	

Requirements for a Major (non-teaching)

	Sem. Hrs.
EDSP 230—Education of Exceptional Children.....	3
EDSP 550—Nature & Needs of Exceptional Children.....	3
EDSP 537—Educational Assessment of Exceptional Children.....	3
EDSP 555—Teaching Children with Learning & Behavior Disorders.....	3
or	
EDSP 556—Teaching the Trainable Mentally Handicapped	
EDEL 336—Reading in the Primary Grades.....	3
or	
EDEL 337—Reading in the Intermediate Grades	
EDSP 320—Introduction to Corrective Speech.....	3
or	
SP 320—Introduction to Corrective Speech	
PSY 559—Behavior Modification.....	3
Electives (approved by adviser).....	9
Laboratory Experience. EDSP 435. Supervised Teaching Practicum or EDSP 436. Supervised Teaching Practicum.....	4
Total	34

Requirements for a Minor (non-teaching)

EDSP 230—Education of Exceptional Children.....	3
EDSP 550—Nature & Needs of Exceptional Children.....	3
EDSP 555—Teaching Children with Learning & Behavior Disorders.....	3
or	
EDSP 556—Teaching the Trainable Mentally Handicapped	
EDSP 537—Educational Assessment of Exceptional Children.....	3
EDEL 336—Reading in the Primary Grades.....	3
or	
EDEL 337—Reading in the Intermediate Grades	
PSY 559—Behavior Modification.....	3
Electives (approved by advisor).....	3
Laboratory Experience. EDSP 435. Supervised Teaching Practicum or EDSP 436. Supervised Teaching Practicum.....	4
Total	25

Description of Courses

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

EDSP 199. Workshop. (1-3); I, II, III. A workshop for specifically designated task orientation in special education. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

EDSP 230. Education of Exceptional Children. (3-0-3); I, II. Prerequisite: Psychology 154 or 155. 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); 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 or 550.

EDSP 276. Independent Study. (1-3); 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 Speech 320.)

EDSP 399. Workshop. (1-3); 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. (4-12); I, II, III. Prerequisites: admission to the teacher education program; attainment of a

scholastic standing of 2.0 on residence courses at Morehead, 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 Director of Professional Laboratory Experiences.)

EDSP 436. Supervised Teaching Practicum. (4-12); I, II, III. Prerequisites: admission to the teacher education program; attainment of a scholastic standing of 2.0 on residence courses at Morehead; 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 credit hour unit. (Application made through the Director of Professional Laboratory Experiences.)

EDSP 470. Research Problems. (1-3); 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, II, 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 550. Nature and Needs of Exceptional Children. (2-2-3); I, II, III. Prerequisite: Education 230. The physical, psychological, and educational needs of educable and trainable mentally retarded children; research pertaining to the nature and needs of the mentally retarded; ways of developing maximum abilities.

EDSP 551. Curriculum for Pre-School Exceptional Children. (2-2-3); I, II, III. Prerequisite: Education 230. 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); I, 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, II, III. Prerequisite: Education 230. 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 work-study programs for exceptional children.

EDSP 555. Teaching Children with Learning and Behavior Disorders. (2-2-3); I, II, III. Prerequisite: Education 230. 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 retarded children.

EDSP 556. Teaching the Trainable Mentally Handicapped. (2-2-3); II. Prerequisite: EDSP 230. 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); I, II, III. Prerequisite: Education 230. 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); I, II, III. Prerequisite: Education 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); I, II, III. An introduction to the application of statistical and graphical methods to educational and psychological data. Includes areas of descriptive and inferential statistics that apply to educational research.

EDSP 599. Workshop. (One to three hours); I, II, III. Supervised practice in working in specific areas of special education.

SCHOOL OF HUMANITIES

Department of Art Department of Communications Department of Languages and Literature Department of Music Department of Philosophy

Associate of Arts Degree

For the individual who desires a two-year general program with emphasis in the humanities.

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
PHED—Activity Course	1
SCI 103—Intro. to Physical Sci.	3
PSY 154—Life-Oriented General Psychology	3
*Electives	5
	15

Second Semester

ENG 102—Composition II	3
PHED—Activity Course	1
SCI 105—Intro. to Biological Sci.	3
FNA 160—Apprec. of the Fine Arts	3
HLTH 150—Personal Health	2
*Electives	5
	17

SOPHOMORE YEAR

First Semester

ENG—Literature elective	3
PHIL 200—Intro. to Philosophy	3
HIS 141—Intro. to Early Amer. Hist.	3
*Electives	6
	15

Second Semester

ENG—Literature elective	3
SPCH 110—Basic Speech	3
HIS 142—Intro. to Recent Amer. Hist.	3
GOVT 141—Government of the U.S.	3
or	
ECON 201—Principles of Economics I	3
*Electives	5
	17

Minimum for the degree

*Electives to be approved by the adviser and may be selected from two of the following fields: art, drama, English (literature), foreign language, history, music.

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 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:*

	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	3
ART 216—Water Color I	3
ART 245—Ceramics I	3
ART 251—Printmaking I	3
ART 283—Photographic Design I	3
ART 291—Color and Design	3
ART 294—Sculpture I	3
ART 300—Elementary Materials and Methods	3
ART 304—Figure Drawing II	3
ART 313—Oil Painting	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 564—Modern and Contemporary Art or	
ART 565—Arts of the United States II	3
ART 345—Ceramics II or	
ART 394—Sculpture II	3
	54

For a Major:*

ART 101—Drawing I	3
ART 103—Drawing II	3
ART 202—Composition and Drawing	3
ART 204—Figure Drawing I	3
ART 213—Oil Painting I	3
ART 216—Water Color I	3
ART 300—Elementary Materials and Methods	3
ART 241—Crafts I or	
ART 245—Ceramics I	3
ART 251—Printmaking I	3
ART 365—Arts of the United States I or	
ART 564—Modern and Contemporary Art or	
ART 565—Arts of the United States II	3
ART 291—Color and Design	3
ART 321—Materials and Methods for Secondary Art	3
	36

For a Minor:*

ART 101—Drawing I	3
ART 103—Drawing II	3
ART 204—Figure Drawing I	3
ART 213—Oil Painting I	3
ART 216—Water Color I	3
ART 300—Elementary Materials and Methods	3
ART 241—Crafts I or	
ART 245—Ceramics I	3
ART 291—Color and Design	3
ART 321—Materials and Methods for Secondary Art	3
	27

*Students wishing to have this certificate validated for service in the elementary grades must include EDEL 333, Fundamentals of Elementary Education, in their programs.

Special Note: ART 263 and 264 must be taken by all art areas, majors and minors to satisfy six hours of the general education requirements in humanities.

Suggested Program

The following program for freshman and sophomore years has been devised to help students in selecting their courses and making their schedules. Close adherence will aid the student in meeting requirements for graduation.

Provisional High School Certificate with an Area of Concentration in Art

FRESHMAN YEAR

First Semester	
ENG 101—Composition I	3
PHED—Activity Course	1
SCI 103—Intro. to Physical Sci.	3
ART 101—Drawing I	3
ART 264—Medieval and Renaissance Art	3
HLTH 150—Personal Health	2
Elective	2
	17

Second Semester	
ENG 102—Composition II	3
SCI 105—Intro. to Biological Sci.	3
ART 103—Drawing II	3
ART 263—Ancient Art	3
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
	17

SOPHOMORE YEAR

First Semester	
ENG—Literature elective	3
ART 202—Comp. and Draw.	3
ART 204—Figure Drawing	3
Sci. or Math elective	3
Elective	3
	15

Second Semester	
EDSE 310—Principles of Adolescent Development	3
PHED—Activity course	1
ART 213—Oil Painting I	3
ART 216—Water Color I	3
ART 251—Printmaking I	3
ART 294—Sculpture I	3
	16

Suggested Schedule of Classes for Students With A Commercial Art Option

FRESHMAN YEAR

First Semester		Sem. Hrs.
ENG 101—Composition I		3
SCI 103—Intro. to Physical Sci.		3
ART 101—Drawing I		3
ART 263—Ancient Art		3
ART 291—Color and Design		3
PHED—Activity Course		1
		16

Second Semester		Sem. Hrs.
ENG 192—Technical Composition		3
SCI 105—Intro. to Biological Sci.		3
ART 103—Drawing II		3
ART 264—Medieval and Renaissance Art		3
ART 292—Three Dimensional Design		3
PHED—Activity course		1
		16

SOPHOMORE YEAR

First Semester		Sem. Hrs.
ART 104—Lettering, Layout and Design		3
ART 202—Comp. & Drawing		3
ART 251—Printmaking I		3
ART 283—Photographic Design I		3
Math or Science elective		3
		15

Second Semester		Sem. Hrs.
ART 204—Figure Drawing I		3
ART 216—Water Color I		3
ART 284—Commercial Photography		3
HLTH 150—Personal Health		2
MATH—Elective		2
Social Science elective		3
		17

JUNIOR YEAR

First Semester	
ART 203—Fashion Illustration	3
ART 290—Graphic Design I	3
ART 303—Commercial Illustration	3
ART 316—Water Color II	3
SOC 101—General Sociology	3
	15

Second Semester	
ART 304—Figure Drawing II	3
ART 351—Printmaking II	3
ART 353—Commercial Layout & Design	3
ART 365—Arts of the U.S.	3
JOUR 483—Advertising Copy Writing	2
ENG 202—Intro. to Literature	3
	17

SENIOR YEAR

First Semester	
ART 383—Photographic Design II	3
ART 551—Printmaking III	3
ART 564—Modern and Contemporary	3
IET 351—Graphic Duplication	3
Social Science elective (upper division)	3
	15

Second Semester	
ART 390—Graphic Design II	3
Social Science elective (upper division)	3
Electives	8
HUM—Elective (upper division)	3
	17

Description of Courses

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

ART 101. Drawing I. (2-2-3); I, II, III. Introduction to objective and subjective drawing using various graphic media.

ART 103. Drawing II. (2-2-3); I, II, III. Prerequisite: ART 101. A continuation of ART 101.

ART 104. Lettering, Layout and Design (2-2-3); I, II, 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, I, II. 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, 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 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, and tools.

ART 241. Crafts I. (2-2-3); I, II, III. 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 dry-point, aquatint, collagraphy, monoprint, wood-block, and lithography.

ART 263. Ancient Art. (3-0-3). 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). 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 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 three-dimensional 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 plaster.

ART 300. Elementary Materials and Methods. (3-0-3); I, II. Prerequisite: acceptance into the teacher education program. Presentation of the background and philosophy of elementary art in education.

ART 303. Commercial Illustration. (2-2-3); I, II, III. A study of two and three-dimensional forms and the various techniques for rendering them for use in commercial design. Emphasis is placed on realistic drawing and presentation of objects.

ART 304. Figure Drawing II. (2-2-3); I, II. Prerequisite: ART 204. A serious search into the expressive possibilities of the figure; anatomical investigation of parts, variety of media and techniques leading to individual interpretation.

ART 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, II. Prerequisite: acceptance into teacher education program. Presentation of the background, philosophy, and techniques for the teaching of art in the secondary school.

ART 345. Ceramics II. (2-2-3); I, II, III. Prerequisite: ART 245. Individual work in wheel-throwing, hand building, operation of kilns and basic experiments in glazing.

ART 351. Printmaking II. (2-2-3); I, II. Prerequisite: ART 251. An intensified investigation of the printing technique, both relief, intaglio, and planographic, studied in Printmaking I.

ART 353. Commercial Layout and Design. (2-2-3); I, II, 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 use by the media.

ART 365. Arts of the United States I. (3-0-3); I, II, 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 problems involving the manipulation of various sculpture media.

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

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

ART 521. Art Workshop. (3-3-3); III. Participation in art activities and 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. (One to six hours.) I, II, III. Prerequisite: permission of the department required. A studio course involving research in an art area of the student's choice.

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 design.

ART 594. Sculpture III. (2-2-3); I, II, III. 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 Field Experiences 139, 239, 439, 539.

Communications Internships 247, 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 a B.A. or A.A.A. degree.

Area of Concentration in Communications

Core courses (required of all students taking the Area of Concentration in Communications)

	Sem. Hrs.
JOUR 101—Intro. to Mass Communications	3
JOUR 201—News Writing & Reporting	3
SPCH 100—Voice & Articulation	3
SPCH 370—Business & Professional Speech	3
R-TV 155—Broadcast Performance	3
R-TV 240—Continuity Writing	3
THEA 100—Fundamentals of the Theatre	3
THEA 200—Introduction to Dramatic Literature	3
Core Total	24

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

JOUR 204—Copyreading & Editing	3
JOUR 285—Intro. to Photo Journalism	3
JOUR 301—Advanced News Writing and Reporting	3
or	
JOUR 380—History of Journalism	3
JOUR 364—Feature Writing	3
or	
JOUR 383—Principles of Advertising	3
JOUR—Electives	8
COMM—Electives	4
Total	24

Specific Requirements—Emphasis in Radio-Television (Non-teaching)

R-TV 250—Audio Production & Direction	4
R-TV 340—Video Production & Direction I	3
R-TV 344—Broadcast News & Public Affairs	3
or	
R-TV 450—Broadcast Management	3
R-TV—Electives	11
COMM—Electives	3
Total	24

Specific Requirements—Emphasis in Speech (Teaching or non-teaching)

SPCH 110—Basic Speech	3
SPCH 200—Oral Interpretation	3
SPCH 382—Argumentation and Debate	3
SPCH 383—Group Discussion	3

SPCH 385—Persuasion	3
SPCH 595—Administering the Communications Program	3
SPCH—Electives	3
COMM—Electives	6
Total	27

Specific Requirements—Emphasis in Theatre (Teaching or non-teaching)

SPCH 382—Argumentation and Debate	3
or	
SPCH 383—Group Discussion	3
SPCH 595—Administering the Communications Program	3
THEA 210—Technical Production	3
THEA 284—Acting Techniques	3
THEA 322—Scene Design	3
THEA 380—Play Directing	3
THEA—Electives	3
COMM—Electives	4
Total	25

NOTE—Total in student's program will be 24 hours of core courses plus total hours in his specialty.

Journalism

Requirements

For a Major, General and Teaching Emphasis:

JOUR 101—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 365—Editorial Writing	3
JOUR 380—History of Journalism	3
JOUR 504*—School Publications	3
COMM 247—Internship	3
or 347—Internship	1
or 447—Internship	8
JOUR—Electives	30

*504 requirement only for teacher certification; may be substituted with another 3-hour journalism course for anyone not seeking certification.

For a Major, Print-media Emphasis:

JOUR 101—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
JOUR 305—Newspaper Typography and Design	3
JOUR 365—Editorial Writing	3
COMM 247—Internship	3
or 347—Internship	1
or 447—Internship	11
JOUR—Electives	30

For a Major, Broadcast-media Emphasis:

JOUR 101—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 240—Continuity Writing	3
JOUR 385—Intro. to Photojournalism	3
JOUR 344—Broadcast News and Public Affairs	3
JOUR 365—Editorial Writing	3
COMM 247—Internship	3
or 347—Internship	2
or 447—Internship	10
JOUR—Electives	30

For a Major, Advertising-Public Relations Emphasis:

JOUR 101—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
JOUR 382—Principles of Public Relations	2
JOUR 383—Principles of Advertising	3
JOUR 482—Public Relations Practices	3
JOUR 483—Advertising Design	2
Electives to be chosen from a list below	8
Total	30

For a Major, Photojournalism Emphasis:

JOUR 101—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 285—Intro. to Photojournalism	3
JOUR 305—Newspaper Typography and Design	3
JOUR 347—Internship	1
JOUR 386—Photo Essay and Editing	2
JOUR 586—Advanced Photojournalism	3
ART 283—Photographic Design I	2
JOUR—Electives	10
	30

Electives for Advertising-Public Relations Emphasis:

JOUR 464—Magazine Writing and Editing
JOUR 583—Advertising Copy Preparation
R-TV 240—Continuity Writing
SPCH 370—Business and Professional Speech
COMM 247—Internship
or 347—Internship
or 447—Internship
SOC 376—Industrial Sociology
BSAD 221—Business Communications
BSAD 200—Intro. to Data Processing
BSAD 304—Marketing

For a Minor, General and Print-media Emphasis:

JOUR 101—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
COMM 247—Internship	1
or 347—Internship	1
or 447—Internship	1
JOUR—Electives in 300 series	8
	21

For a Minor, Broadcast-media Emphasis:

JOUR 101—Intro. to Mass Communication	3
JOUR 201—News Writing and Reporting	3
JOUR 240—Continuity Writing	3
JOUR 285—Intro. to Photojournalism	3
JOUR 344—Broadcast News and Public Affairs	3
COMM 247—Internship	1
or 347—Internship	1
or 447—Internship	1
JOUR—Electives in 300 series	4
	21

For a Minor, Advertising-Public Relations Emphasis:

JOUR 101—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 285—Intro. to Photojournalism	3
JOUR 382—Principles of Public Relations	2
JOUR 383—Principles of Advertising	2
JOUR 482—Public Relations Practices	3
JOUR 483—Advertising Design	2
COMM 247—Internship	1
or 347—Internship	1
or 447—Internship	1
JOUR—Electives in 300 series	1
	21

For a Minor, Photojournalism Emphasis:

JOUR 101—Intro. to Mass Communications	3
JOUR 201—News Writing and Reporting	3
JOUR 285—Intro. to Photojournalism	3
JOUR 347—Internship	1
JOUR 586—Advanced Photojournalism	3
JOUR—Electives	6
	21

Suggested Program

The following program has been devised to help students in selecting courses during their four year program of study. These suggested schedules need not be followed specifically, but substitutions should be made only after careful study of degree requirements has been made. Students should ask their academic adviser prior to their substituting courses in the program suggested above.

Journalism (With Certification)**FRESHMAN YEAR****First Semester**

	Sem. Hrs.
ENG 101—Composition I	3
JOUR 101—Intro. to Mass Communications	3
BSAD—Typing elective	3
SOC SCI—Elective	3
Elective	3
PHED—Activity	1
	16

Second Semester

ENG 102—Composition II	3
JOUR 201—News Writing and Reporting	3
FA 160—Appreciation of Fine Arts	3
SOC SCI—Elective	3
PHY SCI—Elective	3
PHED—Activity	1
	16

SOPHOMORE YEAR**First Semester**

JOUR 204—Copyreading and Editing	3
JOUR 285—Intro. to Photojournalism	3
ENG—Literature Elective	3
SOC SCI—Elective	3
JOUR 382—Principles of Public Relations	2
HLTH 150—Personal Health	2
	16

Second Semester

JOUR 383—Principles of Advertising	3
SPCH 370—Business and Professional Speech	3
BIO—Elective	3
EDSE 472—Foundations of Secondary Education	2
COMM—Internship	1
Elective	4
	16

JUNIOR YEAR**First Semester**

JOUR 380—History of Journalism	3
JOUR 365—Editorial Writing	3
JOUR—Electives	5
Science or Math Elective	3
Elective	3
	17

Second Semester

	Sem. Hrs.
JOUR—Elective	3
SOC. SCI—Elective	3
EDSE 310—Prin. of Adolescent Development of Secondary Teachers	3
Science or Math Electives	3
Elective	3
	15

SENIOR YEAR**First Semester**

JOUR 504—School Publications	3
Electives	12
	15

Second Semester

Professional Semester	17
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Journalism**FRESHMAN YEAR****First Semester**

	Sem. Hrs.
ENG 101—English Composition I	3
JOUR 101—Intro. to Mass Communications	3
BSAD—Typing Elective	3
SOC SCI—Elective	3
Elective	3
PHED—Activity	1
	16

Second Semester

ENG 102—Composition II	3
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JOUR 201—Newswriting and Reporting.....	3
FNA 160—Appreciation of Fine Arts.....	3
Physical Science Elective.....	3
Elective.....	3
PHED—Activity.....	1
	16

SOPHOMORE YEAR

First Semester	
JOUR 204—Copyreading and Editing.....	3
JOUR 285—Intro. to Photojournalism.....	3
ENG—Literature Elective.....	3
SOC SCI—Elective.....	3
HLTH 150—Personal Health.....	2
Elective.....	3
	17

Second Semester	
JOUR—Elective.....	3
JOUR 383—Principles of Advertising.....	3
BIO SCI—Elective.....	3
SOC SCI—Elective.....	3
Electives.....	4
	16

JUNIOR YEAR

First Semester	
JOUR 382—Principles of Public Relations.....	2
Science or Math Elective.....	3
SOC SCI—Elective.....	3
COMM—Internship.....	1
Elective.....	6
	15

Second Semester	
JOUR—Elective.....	2
Science of Math Elective.....	3
Electives.....	11
	16

SENIOR YEAR

First Semester		Sem. Hrs.
JOUR—Elective.....	3	
Electives.....	13	
	16	

Second Semester		
JOUR—Electives.....	3	
Electives.....	13	
	16	

Description of Courses

NOTE: (2-1-2) following course title means 2 hours class, 1 hour laboratory, 2 hours credit. Roman numerals I, II, III following the credit allowance indicate the semester in which the course is normally scheduled: I-fall semester; II-spring semester and III-summer term.

General

COMM 139-539. Field Experiences. 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.

Internship

COMM 247. Internship. (1-3); I, II, III. Competency-based practical experience aimed at increasing proficiency of the student in the specified positions to which he is assigned. Prior application necessary. May be repeated. See restrictions applying to all programs in Communications.

COMM 347. Internship. (1-3); I, II, III. Competency-based practical experience aimed at increasing the proficiency of the student in the specified positions to which he is assigned. Prior application necessary. May be repeated. See restrictions applying to all programs in Communications.

COMM 447. Internship. (1-3); I, II, III. Competency-based practical experience aimed at increasing the proficiency of the student in the specified positions to which he is assigned. Prior application necessary. May be repeated. See restrictions applying to all programs in Communications.

Journalism

JOUR 101. 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. (3-2-3); 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 (using some "live" wire-copy news), proof-reading, headline writing, editing, and executing page layouts.

JOUR 240. Radio-TV Continuity Writing. (3-0-3); I, II. (See Radio-TV 240.)

JOUR 285. Introduction to Photojournalism. (2-2-3); I, II, III. Lecture and laboratory, introduction to camera use, darkroom operation, photo layout, and practices in reporting news pictorially.

JOUR 301. Advanced News Writing and Reporting. (3-0-3); II, III. Basic reporting plus in-depth interpretative writing based on personal investigation, including sports, social news, and criticism.

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 344. Broadcast News and Public Affairs. (3-0-3); I. Prerequisite: 9 hours of undergraduate Radio-TV or consent of the faculty. (See R-TV 344.)

JOUR 357. Sportscasting. (2-2-3); I. The basic philosophy and ethical considerations in developing sports reporting style in oral or written presentation. Application of principles in play-by-play description of seasonal sports. (Cross referenced as Radio-Television 357.)

JOUR 358. Sports Writing. (3-0-3); II. Philosophy and techniques in writing sports and sports analysis or commentary for print media. (Cross referenced as Radio-Television 358.)

JOUR 364. Feature Writing. (3-0-3); I, II. The researching, organizing, and composing of non-fiction articles, including feature items.

JOUR 365. Editorial Writing. (3-0-3); I. A study of the purposes and methods of editorial writing, including ethics and values.

JOUR 380. History of Journalism. (3-0-3); I. (See History 380.)

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 principles and practices.

JOUR 386. Photo Essay and Editing. (2-0-2); I. Prerequisite: JOUR 285 or photography proficiency. An emphasis upon photographic composition and selection of pictures for various kinds of publications.

JOUR 464. Magazine Writing and Editing. (3-0-3); II. A study of practices in writing for and editing magazines.

JOUR 476. Special Problems in Journalism. (1-0-3); I, II, III. (by prior arrangement with instructor only.) Research or 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 (2-0-2); I. A study and an application of methods of designing and producing advertisements, primarily for print media, but including television storyboards.

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. (Scheduled concurrently with JOUR 599-Yearbook Workshop.)

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 558. Public Broadcasting. (3-0-3); II. Prerequisite: junior standing and consent of the faculty. (See Radio-TV 558.)

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 586. Advanced Photojournalism. (3-0-3); II. **Prerequisite:** JOUR 285. In depth study of photojournalism equipment, techniques and style, including color photography.

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

Requirements

For a Major (Non-Teaching):

	Sem. Hrs.
R-TV 100—Voice and Articulation	3
R-TV 150—Intro. to Broadcasting	3
R-TV 151—Intro. to Broadcast Techniques	2
R-TV 240—Continuity Writing	3
R-TV 250—Audio Production and Direction	4
R-TV 340—Video Production and Direction I	3
Electives	18
	36

For a Minor (Non-Teaching):

R-TV 101—Intro. to Mass Communications	3
R-TV 151—Intro. to Broadcast Techniques	2
R-TV 155—Broadcast Performance	3
R-TV 240—Continuity Writing	3
Electives	10
	21

Suggested Program

Associate of Applied Arts

Radio and Television Broadcasting

FRESHMAN YEAR

First Semester

	Sem. Hrs.
R-TV 100—Voice and Articulation	3
R-TV 150—Intro. to Broadcasting	3
R-TV 151—Broadcast Techniques	2
R-TV 240—Continuity Writing	3
R-TV 338—FCC License	1
ENG 101—Composition I	3
	15

Second Semester

R-TV 250—Audio Production and Direction	4
R-TV 283—Photographic Design	3
JOUR 201—News Writing and Reporting	3
Electives	7
	17

SOPHOMORE YEAR

First Semester

R-TV 340—Video Production and Direction	3
R-TV 344—Broadcast News and Public Affairs	3
JOUR 382—Principles of Public Relations	2
Electives	8
	16

Second Semester

R-TV—Internship	3
R-TV 450—Broadcast Management	3
R-TV 440—Advanced Video Production and Direction	4
or R-TV 551*—Professional Audio Practices	3
JOUR 383—Principles of Advertising	3
Electives	4
	17
Total	64

*Since R-TV 551 is a 3-hour course, the student who elects it in his/her program must take one additional elective hour in R-TV.

Suggested Program Bachelor's Degree

Radio-Television Broadcasting

FRESHMAN YEAR

First Semester

	Sem. Hrs.
R-TV 150—Intro. to Broadcasting	3
R-TV 151—Introduction to Broadcast Techniques	2
ENG 101—Composition I	3
PHY SCI—Elective	3
HLTH—Elective	2
HUM—Elective	3
	15

Second Semester

R-TV 100—Voice and Articulation	3
R-TV 240—Continuity Writing	3
ENG 102—Composition II	3
BIO SCI—Elective	3
PHED—Activity	1
HUM—Elective	3
	16

SOPHOMORE YEAR

First Semester

R-TV 250—Audio Production and Direction	4
ENG—Literature Elective	3
Math	3
SOC SCI—Elective	3
Elective or Minor	3
	16

Second Semester

R-TV 340—Video Production & Direction I	3
Math or Science Elective	3
SOC SCI—Elective	3
PHED—Activity	1
HUM—Elective	3
Elective or Minor	3
	16

JUNIOR YEAR

First Semester

	Sem. Hrs.
R-TV 344—Broadcast News and Public Affairs	3
R-TV 440—Video Production & Direction II	4
SOC SCI—Elective	3
Electives or Minor	6
	16

Second Semester

R-TV 320—Broadcast Advertising/Sales	3
SOC SCI—Elective	3
Electives or Minor	10
	16

SENIOR YEAR

First Semester

R-TV 550—Problems in Contemporary Broadcasting	3
Internship	3
Electives or Minor	10
	16

Second Semester

R-TV 450—Broadcast Management	3
R-TV 476—Special Problems	3
Electives or Minor	10
	16

Description of Courses

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

Except where indicated otherwise, students must take courses in proper sequence, i.e. 100-level courses during the freshman year, 200-level courses during the sophomore year, etc.

R-TV 100. Voice and Articulation. (3-0-3); I, II. Essentials of distinct utterance, phonetic transcription, and other uses of the vocal mechanism. (Same as SPCH 100.)

R-TV 101. Introduction to Mass Communications. (3-0-3); I. (See Journalism 101.)

R-TV 150. Introduction to Broadcasting (3-0-3); I, II. Covers basic conditions of the broadcasting industry, from regulation to advertising. Students will also learn the basics of everyday station operations.

R-TV 151. Introduction to Broadcast Techniques. (2-0-2); I, II. Basic familiarization with radio, television and film equipment utilized in studio and remote broadcast productions.

R-TV 155. Broadcast Performance. (3-0-3); I, II. The fundamentals of broadcast announcing, with special emphasis on vocal communication skills of enunciation, pronunciation, inflection and pacing.

R-TV 240. Radio-TV Continuity Writing. (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. **Prerequisite:** R-TV 151 or permission of instructor. Basic work in all areas of audio production, including radio, television, audio, and film audio.

R-TV 283. Photographic Design I. (2-2-3); I, II. Experimental and standard photographic processes and techniques are approached with an aesthetic view of the medium.

R-TV 320. Broadcast Advertising/Sales. (3-0-3); II. Provides a foundation in both practical and theoretical aspects of broadcast advertising. Principles of sales will be examined from the perspective of the advertising copywriter.

R-TV 338. FCC License. (1-0-1); I, II. (See IET 338.)

R-TV 340. Video Production and Direction I. (2-2-3); I, II. **Prerequisite:** R-TV 250 or permission of instructor. Basic television production techniques and introduction of directing skills in a laboratory situation.

R-TV 344. Broadcast News and Public Affairs. (3-0-3); I, II. **Prerequisite:** 9 hours of undergraduate Radio-TV or consent of the instructor. Theory and practice of news and public affairs writing and reporting as it applies to the broadcast media.

R-TV 357. Sportscasting. (2-2-3); I. Philosophy and techniques utilized in developing style of presentation in sports broadcasts. Theory practically applied in play-by-play description, interviewing and presentation of copy. (Cross-referenced as Journalism 357.)

R-TV 358. Sports Writing. (3-0-3); II. Philosophy and techniques in writing sports news and sports analysis or commentary for mass media. Same as JOUR 358.

R-TV 383. Photographic Design II. (2-2-3); I, II. **Prerequisite:** R-TV 283. Advanced work in the use of photographic design concepts and techniques.

R-TV 440. Video Production and Direction II. (3-4-4); I, II. **Prerequisite:** R-TV 340. An extension of R-TV 340, with advanced instruction in studio operations. Emphasis upon the opportunity to produce and direct several program types and to serve on crews for such productions.

R-TV 450. Broadcast Management. (3-0-3); II. An examination of administrative decision-making in radio and television with attention to programming, research, audience, sales, regulatory and personnel concerns. Special attention is given to the purpose and basic ideas of programs in relation to audience composition. **Prerequisite:** eighteen hours of undergraduate radio-television or consent of instructor.

R-TV 476. Special Problems. (1 to 3); 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 restrictions applying to all programs in Communications.

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

R-TV 551. Professional Audio Practices (2-2-3); I, II. **Prerequisite:** R-TV 250 Audio Production and Direction I or consent of instructor. Experience and advanced study in areas such as radio program production, music recording and sound for television, film and multi-media.

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 from both theoretical and operational standpoints.

R-TV 583. Photographic Design III. (2-2-3); I, II. **Prerequisite:** R-TV 383. Individual problems in photographic design.

Speech and Theatre

Requirements For a Major in Speech and Theatre (Teaching):

	Sem. Hrs.
SPCH 100—Voice and Articulation.....	3
SPCH 110—Basic Speech.....	3
SPCH 382—Argumentation and Debate or 383—Group Discussion.....	3
THEA 100—Fundamentals of the Theatre.....	3
THEA 200—Introduction to Dramatic Literature.....	3
THEA 210—Technical Production.....	3
THEA 284—Acting Techniques.....	3
THEA 380—Play Directing.....	3
Electives in speech and theatre, to be approved by the department.....	12
	36

(SPCH 595 is strongly recommended for all majors entering the field of education. Further, if time allows, they should plan to elect SPCH 597.)

For a Major in Speech and Theatre (Non-Teaching):

SPCH 110—Basic Speech.....	3
SPCH 382—Argumentation and Debate or 383—Group Discussion.....	3
THEA 120—Drawing for the Theatre.....	3
THEA 210—Technical Production.....	3
To be selected with the approval of the department.....	18
	30

For a Major in Speech (Teaching):

SPCH 100—Voice and Articulation.....	3
SPCH 110—Basic Speech.....	3
SPCH 200—Oral Interpretation.....	3
SPCH 382—Argumentation and Debate or 383—Group Discussion.....	3
SPCH 385—Persuasion.....	3
To be selected with the approval of the department.....	15
	30

(SPCH 595 is strongly recommended for all majors entering the field of education. Further, if time allows, they should plan to elect SPCH 597.)

For a Major in Speech (Non-Teaching):

SPCH 100—Voice and Articulation.....	3
SPCH 110—Basic Speech.....	3
SPCH 200—Oral Interpretation.....	3
SPCH 382—Argumentation and Debate or 383—Group Discussion.....	3
SPCH 385—Persuasion.....	3
To be selected with the approval of the department.....	15
	30

(Nine hours of the elective credit can be selected from related areas within the Division of Communications.)

For a Minor in Speech:

SPCH 100—Voice and Articulation.....	3
SPCH 110—Basic Speech.....	3
SPCH 200—Oral Interpretation.....	3
SPCH 382—Argumentation and Debate or 383—Group Discussion.....	3
Electives in speech approved by the department.....	9
	21

(SPCH 595 is strongly recommended for all minors entering the field of education. Further, if time allows, they should plan to elect SPCH 597.)

For a Major in Theatre (Non-Teaching) Acting Program Emphasis:

THEA 100—Fundamentals of the Theatre.....	3
THEA 120—Drawing for the Theatre.....	2
THEA 200—Introduction to Dramatic Literature.....	3
THEA 210—Technical Production.....	3
THEA 284—Acting Techniques.....	3
THEA 311—Theatre Practicum I.....	2
THEA 313—Theatre Practicum III.....	2
THEA 315—Stage Make-up.....	2
THEA 322—Scene Design.....	2
THEA 323—Scenographic Techniques.....	1
THEA 380—Play Directing.....	3
SPCH 100—Voice and Articulation I.....	3
SPCH 200—Oral Interpretation.....	3
SPCH 301—Advanced Voice and Articulation II.....	3
COMM—Internship.....	1
	36

Technical Program Emphasis:

THEA 100—Fundamentals of the Theatre	3
THEA 120—Drawing for the Theatre	2
THEA 200—Introduction to Dramatic Literature	3
THEA 210—Technical Production	3
THEA 284—Acting Techniques	3
THEA 315—Stage Make-up	2
THEA 316—Stage Properties	2
THEA 317—Scene Painting	2
THEA 321—Stage Lighting	3
THEA 322—Scene Design	2
THEA 323—Scenographic Techniques	1
THEA 325—History of Stage Costume	2
THEA 326—Stage Costume Design	2
THEA 380—Play Directing	3
THEA 410—Advanced Scene Design	2
or 425—Advanced Costuming	2
COMM—Internship	1
	36

Directing Program Emphasis:

THEA 100—Fundamentals of the Theatre	3
THEA 120—Drawing for the Theatre	2
THEA 200—Introduction to Dramatic Literature	3
THEA 210—Technical Production	3
THEA 284—Acting Techniques	3
THEA 311—Theatre Practicum I	2
THEA 313—Theatre Practicum III	2
THEA 322—Scene Design	2
THEA 375—Creative Dramatics	3
THEA 380—Play Directing	3
THEA 554—Theatre History	3
THEA 570—Children's Theatre	3
SPCH—Elective	3
Elective	1
	36

For a Minor in Theatre:

THEA 100—Fundamentals of the Theatre	3
THEA 200—Introduction to Dramatic Literature	3
THEA 210—Technical Production	3
THEA 284—Acting Techniques	3
Electives in theatre approved by the department	9
	21

Suggested Programs

The following programs have been devised to help students in selecting their courses and making their schedules during the freshman and sophomore years. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements.

Bachelor of Arts with a Major in Speech with a High School Teaching Degree**FRESHMAN YEAR**

First Semester		Sem. Hrs.
SPCH 100—Voice and Articulation		3
ENG 101—Composition I		3
BIO SCI—Elective		3
HLTH—Elective		2
PHED—Activity		1
SOC SCI—Elective		3
		15

Second Semester		Sem. Hrs.
SPCH 110—Basic Speech		3
ENG 102—Composition II		3
PHY SCI—Elective		3
SOC SCI—Elective		3
Elective or Minor		3
PHED—Activity		1
		16

SOPHOMORE YEAR

First Semester		Sem. Hrs.
SPCH 200—Oral Interpretation		3
or		
SPCH 210—Listening		3
SPCH 220—Introduction to Communication Theory		3

ENG—Literature Elective	3
GOVT 310—Current World Problems	3
Elective or Minor	2
Math according to Placement Test	3
	17

Second Semester

SPCH 200—Oral Interpretation		
or		
SPCH 210—Listening		3
SOC SCI—Contemporary Social Problems		3
Math or Science Elective		3
EDSE 209—Foundations of Secondary Education		2
Elective or Minor		4
		15

JUNIOR YEAR**First Semester**

		Sem. Hrs.
SPCH 382—Argumentation and Debate		3
or		
SPCH 383—Group Discussion		
PHIL 303—Social Ethics		3
EDSE 310—Principles of Adolescent Development		3
Elective or Minor		5
THEA 300—Elements of Play Production		3
		17

Second Semester

SPCH 385—Persuasion	3
SPCH 595—Administering the Communication Arts Program	3
Elective or Minor	10
	16

SENIOR YEAR**First Semester**

SPCH 597—Administering and Supervising the Co-Curricular Communications Art Program	3
SPCH—Advanced Speech Elective	3
Elective or Minor	10
	16

Second Semester

Professional Semester	17
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Bachelor of Arts with a Major in Speech with Non-teaching Degree:**FRESHMAN YEAR**

First Semester		Sem. Hrs.
SPCH 100—Voice and Articulation		3
ENG 101—Composition I		3
BIO SCI—Elective		3
HLTH 150—Health Elective		2
PHED—Activity		1
SOC SCI—Elective		3
		15

Second Semester

SPCH 110—Basic Speech	3
ENG 102—Composition II	3
PHY SCI—Elective	3
SOC SCI—Elective	3
Elective or Minor	3
PHED—Activity	1
	16

SOPHOMORE YEAR**First Semester**

SPCH 200—Oral Interpretation	3
SPCH 220—Introduction to Communication Theory	3
ENG—Literature Elective	3
GOVT 310—Current World Problems	3
Elective or Minor	2
Math according to placement test	3
	17

Second Semester

SPCH 210—Listening	3
SOC SCI—Contemporary Social Problems	3
Math or Science Elective	3
Electives or Minor	7
	16

JUNIOR YEAR

First Semester

	Sem. Hrs.
SPCH 382—Argumentation and Debate	3
or	
SPCH 383—Group Discussion	3
PHIL 303—Social Ethics	3
Elective or Minor	8
THEA 300—Elements of Play Production	3
	17

Second Semester

SPCH 385—Persuasion	3
SPCH—Advanced Speech Elective	3
Elective or Minor	10
	16

SENIOR YEAR

First Semester

SPCH—Advanced Speech Elective	3
Elective or Minor	14
	17

Second Semester

SPCH—Advanced Speech Elective	4
Elective or Minor	13
	17

Speech/Theatre (Teaching)

FRESHMAN YEAR

First Semester

	Sem. Hrs.
ENG 101—Composition I	3
BIO SCI—Elective	3
HLTH 150—Personal Health	2
SOC SCI—Elective	3
SPCH 100—Voice & Articulation	3
THEA 100—Fundamentals of the Theatre	3
	17

Second Semester

ENG 102—Composition II	3
PHED—Activity	1
PHY SCI—Elective	3
SOC SCI—Elective	3
SPCH 110—Basic Speech	3
THEA 210—Technical Production	3
	16

SOPHOMORE YEAR

First Semester

ENG—Literature Elective	3
THEA 200—Introduction to Dramatic Literature	3
SOC SCI—Elective	3
MATH—Elective	3
THEA 284—Acting Technical	3
PHED—Activity	1
	16

Second Semester

EDSE 209—Foundation of Secondary Education	2
SPCH 200—Oral Interpretation	3
SOC SCI—Elective	3
Math or Science Elective	3
R-TV 155—Broadcast Performance	3
or	
R-TV 250—Audio Production and Direction	4
	14 or 15

JUNIOR YEAR

First Semester

	Sem. Hrs.
HUM—Elective	3
SPCH 382—Argument and Debate	3
or SPCH 383—Group Discussion	3
Electives or Minor	7
THEA—Elective	3
	16

Second Semester

EDSE 310—Principles of Adolescent Development	3
THEA 310—Play Directing	3

SPCH 597—Administering and Supervising the Co-Curricular

Communications Arts Program	3
Electives or Minor	5
HUM—Elective	3
	17

SENIOR YEAR

First Semester

HUM—Elective	3
SPCH 595—Administering the Communications Programs	3
Electives or Minor	10
	16

Second Semester

Professional Semester	17
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Speech/Theatre (Non-Teaching)

FRESHMAN YEAR

First Semester

	Sem. Hrs.
ENG 101—Composition I	3
PHY SCI—Elective	3
HLTH—Elective	2
HUM—Elective	3
SPCH 110—Basic Speech	3
THEA 100—Fundamentals of the Theatre	3
	17

Second Semester

ENG 102—Composition II	3
BIO SCI—Elective	3
PE—Activity	1
HUM—Elective	3
R-TV 155—Broadcast Performance	3
or	
R-TV 250—Audio Production & Direction	4
SOC SCI—Elective	3
	16 or 17

SOPHOMORE YEAR

First Semester

ENG—Literature Elective	3
MATH—Elective	3
SOC SCI—Elective	3
ENG 200—Introduction to Dramatic Literature	3
PHED—Activity	1
Elective or Minor	3
	16

Second Semester

SOC SCI—Elective	3
HUM—Elective	3
Math or Science Elective	3
SPCH 200—Oral Interpretation	3
Elective or Minor	4
	16

JUNIOR YEAR

First Semester

SOC SCI—Elective	3
SPCH 382—Argument and Debate	3
or	
SPCH 383—Group Discussion	3
Elective or Minor	7
Speech or Theatre Elective	3
	16

Second Semester

Speech or Theatre Elective	6
Elective or Minor	10
	16

SENIOR YEAR

First Semester

	Sem. Hrs.
Speech or Theatre Elective	6
Elective or Minor	10
	16

Second Semester

Elective or Minor	16
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Bachelor of Arts with a Major in Theatre (Non-teaching) Acting and Directing Emphasis:

FRESHMAN YEAR

	First Semester	Sem. Hrs.
THEA 100—Fundamentals of the Theatre	3	
THEA 120—Drawing for the Theatre	2	
ENG 101—Composition I	3	
BIO SCI—Elective	3	
PHED—Activity	1	
Electives	4	
		16

	Second Semester	Sem. Hrs.
THEA 200—Introduction to Dramatic Literature	3	
THEA 210—Technical Production	3	
ENG 102—Composition II	3	
PHY SCI—Elective	3	
HLTH 105—Personal Health	2	
PHED—Activity	1	
		15

SOPHOMORE

	First Semester	Sem. Hrs.
THEA 284—Acting Techniques	3	
THEA 322—Scene Design	2	
ENG—Literature Elective	2	
Social Science or Economics Elective	3	
Electives	7	
		17

	Second Semester	Sem. Hrs.
THEA 323—Scenographic Techniques	1	
Theatre Requirement	3	
Math—Elective	3	
Social Science or Economics Elective	3	
Electives	7	
		17

JUNIOR YEAR

	First Semester	Sem. Hrs.
THEA 311—Theatre Practicum I	5	
Minor	3	
Math or Science Elective	3	
Economics, Geography or History Elective	3	
Elective	3	
		17

	Second Semester	Sem. Hrs.
THEA 312—Theatre Practicum II	2	
THEA 380—Play Directing	3	
Minor	6	
Social Science or Economics Elective	3	
Elective	3	
		17

SENIOR YEAR

	First Semester	Sem. Hrs.
THEA 313—Theatre Practicum III	2	
Theatre Requirement	3	
Minor	6	
Electives	6	
		17

	Second Semester	Sem. Hrs.
Theatre Elective	3	
Minor	3	
Electives	9	
		15

Bachelor of Arts with a Major in Theatre (Non-teaching) Technical/Design Emphasis:

FRESHMAN YEAR

	First Semester	Sem. Hrs.
THEA 100—Fundamentals of the Theatre	3	
THEA 120—Drawing for the Theatre	2	

ENG 101—Composition I	3
BIOSCI—Elective	3
PHED—Activity	1
Electives	4
	16

	Second Semester	Sem. Hrs.
THEA 210—Technical Production	3	
ENG 102—Composition II	3	
PHYSICI—Elective	3	
PHED—Activity	1	
Electives	5	
		15

SOPHOMORE YEAR

	First Semester	Sem. Hrs.
THEA 200—Introduction to Dramatic Literature	3	
THEA 284—Acting Techniques	3	
THEA 322—Scene Design	2	
ENG—Literature Elective	3	
Minor	3	
Electives	3	
		17

	Second Semester	Sem. Hrs.
THEA 315—Stage Make-up	2	
THEA 323—Scenographic Techniques	1	
Social Science or Economics Electives	6	
MATH—Requirement	3	
HLTH 105—Personal Health	2	
Electives	2	
		16

JUNIOR YEAR

	First Semester	Sem. Hrs.
THEA 321—Stage Lighting	3	
THEA 325—Costuming	2	
Minor	3	
Math or Science Requirement	3	
Social Science or Economics Elective	3	
Electives	3	
		17

	Second Semester	Sem. Hrs.
THEA 326—Stage Costume Design	2	
THEA 380—Play Directing	3	
Minor	3	
Social Science or Economics Elective	3	
Math Requirement	3	
Electives	3	
		17

SENIOR YEAR

	First Semester	Sem. Hrs.
THEA 317—Scene Painting	2	
THEA 410—Advanced Scene Design or THEA 425—Advanced Costuming	2	
Minor	6	
Electives	6	
		16

	Second Semester	Sem. Hrs.
THEA 316—Stage Properties	2	
THEA 410—Advanced Scene Design or THEA 425—Advanced Costuming	2	
Theatre Elective	1	
Minor	3	
Electives	6	
		14

Description of Courses

NOTE: (3-0-3) following course title indicates: 3 hours lecture, 0 hours laboratory, and 3 hours credit. Roman numerals I, II, and III indicate the term the course is normally offered: I-fall; II-spring, and III-summer.

Speech

SPCH 100. Voice and Articulation I. (3-0-3); I, II. Essentials of distinct utterance, phonetic transcription, and other uses of the vocal mechanism.

SPCH 110. Basic Speech. (3-0-3); I, III, 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 emphatic listening.

SPCH 220. Introduction to Communication Theory. (3-0-3); **Upon Demand.** A survey of communication theory with emphasis on the interpersonal aspects.

SPCH 280-281. Debate Practicum I. (2-2-1); I, II. Activity and research for students involved in intercollegiate debate.

SPCH 300. Oral Communications. (3-0-3); I, II. Development of appropriate classroom voice through study, exercise, and practice in reading, describing and motivating. Designed for elementary teaching majors.

SPCH 301. Advanced Voice and Articulation II. (3-0-3); II. **Prerequisite:** SPCH 100. To develop the ability to use major dialects essential to interpretation of dramatic literature and radio scripts.

SPCH 305. Advanced Oral Interpretation. (3-0-3); 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.

SPCH 315. Verbal Survival. (3-0-3); II. Students will learn the process of communication "action-reaction." Specific skills will teach the student to recognize and defend themselves from forms of daily manipulative communication. The student will gain these skills from a combination of lectures, readings, role playing, class exercises, and oral reports.

SPCH 320. Introduction to Corrective Speech. (3-0-3); I, II. Introductory course in speech correction for the classroom teacher.

SPCH 370. Business and Professional Speech. (3-0-3); I, II, III. Study and practice in techniques of committee work, conference, interview, and other speech forms required in business and the professions.

SPCH 380-381. Debate Practicum II. (2-2-1); I, II. Continuation of Speech 280-281.

SPCH 382. Argumentation and Debate. (3-0-3); I. Instruction in making rational decisions through the debate process entailing analysis, evidence, briefing, and refutation.

SPCH 383. Group Discussion. (3-0-3); I. Analysis of the roles of participants and leaders in problem solving with experience in conducting formal and informal groups.

SPCH 385. Persuasion. (3-0-3); I. Study of the nature and methods of persuasion for influencing group opinion and action. Recommended for business majors.

SPCH 386. Speech Practicum I. (2-0-2); I, II. **Prerequisite:** SPCH 100 and 110 and approval of the department chairman. Provides independent guided study for the development of specialization in specific areas of speech.

SPCH 387. Speech Practicum II. (2-0-2); 4, II. **Prerequisites:** SPCH 386 and approval of the department chairman. Continuation of SPCH 386.

SPCH 388. Speech Practicum III. (2-0-2); I, II. **Prerequisites:** SPCH 387 and approval of the division chairman. Continuation of SPCH 387.

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. (1-0-3); 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 480-481. Debate Practicum III. (2-2-1); I, II. Continuation of SPCH 380-381.

SPCH 510. Advanced Public Speaking. (3-0-3); I. Preparation and delivery of longer and more complex speeches.

SPCH 527. American Public Address I. (3-0-3); II. Speeches, speakers and movements in America from the colonial period through the Civil War era.

SPCH 528. American Public Address II. (3-0-3); **upon demand.** Speeches, speakers and movements from Reconstruction through 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 570. Parliamentary Procedure. (2-0-2); **upon demand.** Theory and application of procedures used by profit and non-profit organizations.

SPCH 571. Interviewing for Employment. (1-0-1); **upon demand.** Theory and practice of interviewing techniques for prospective employees.

SPCH 583. Advanced Group Discussion and Leadership. (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.

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.

Theatre

THEA 100. Fundamentals of the Theatre. (3-0-3); I, II. An introduction to the theatre as an art form, its historic and organizational structure.

THEA 110. Introduction to the Theatre. (3-0-3); I, II. Elementary theory in the areas of acting, setting design, costume design, lighting, sound, and makeup. For non-theatre majors and minors.

THEA 120. Drawing for the Theatre. (0-4-2); II. The study and practice of basic techniques which uniquely apply to theatrical design.

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 a B.A.

THEA 200. Introduction to Dramatic Literature. (3-0-3); I, II. A study of representative dramatic literature from Greek antiquity to the present.

THEA 210. Technical Production. (3-0-3); II. A study of the technical elements in theatrical production: set construction, lighting, and sound.

THEA 284. Acting Techniques. (3-0-3); I. **Prerequisite:** Theatre 100. A study of acting from both the aesthetic and the practical viewpoints; exercises in pantomime and vocal techniques.

THEA 300. Elements of Play Production. (3-0-3); I. Problems of play production: choice of script, casting production and backstage organization, and directing.

THEA 310. Stage Movement. (2-0-2); I. **Prerequisites:** THEA 100 or approval of instructor. The study and practice of stage fighting and movement in various historical periods.

THEA 311. Theatre Practicum I. (2-0-2); I, II, III. **May be repeated.** **Prerequisites:** 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. (2-0-2); I, II, III. **May be repeated.** **Prerequisite:** THEA 311. A continuation of Dramatic Arts 311.

THEA 313. Theatre Practicum III. (2-0-2); I, II, III. **May be repeated.** **Prerequisite:** THEA 312. A continuation of Dramatic Arts 312.

THEA 315. Stage Make-up. (0-4-2); I. **Prerequisite:** THEA 210. Study and appreciation of make-up techniques for the stage.

THEA 316. Stage Properties. (0-4-2); I. **Prerequisite:** THEA 210. The practice of making and repairing stage properties; the study of furniture history.

THEA 317. Scene Painting. (0-4-2); I. **Prerequisites:** THEA 210 or permission of instructor. The study and practice of fundamental painting techniques as applied to the stage.

THEA 321. Stage Lighting. (3-0-3); II. **Prerequisite:** THEA 210. The mechanical and artistic approach to stage lighting; study of electrical theory and instrument utilization.

THEA 322. Scene Design. (2-2-2); I. **Prerequisite:** THEA 210. Creation of set designs with emphasis on drawing and rendering techniques.

THEA 323. Scenographic Techniques. (0-2-1); I. **Prerequisite:** THEA 322. The study and practice of mechanical working drawings for stage scenery.

THEA 325. History of Stage Costume. (2-0-2); I. A study of the history of costuming and application of design techniques.

THEA 326. Stage Costume Design. (0-4-2); II. **Prerequisites:** THEA 210 and THEA 325 or permission of instructor. Creation of costume design with emphasis on the principles of design and rendering techniques.

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 Theatre 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 a B.A.

THEA 375. Creative Dramatics. (3-0-3); II, III. An analysis and application of principles of creative dramatics as applied to classroom curricular activities.

THEA 380. Play directing. (3-0-3); II. **Prerequisite:** THEA 210. Theories and principles of directing; director's interpretation; casting; planning action and making the prompt-book.

THEA 410. Advanced Scene Design. (0-4-2); I. **Prerequisites:** THEA 322 and 323. An advanced study of scene design concepts and rendering techniques. The creation of two scene design projects: (1) a class project and (2) a production project.

THEA 425. Advanced Costuming. (0-4-2); I. **Prerequisite:** THEA 326. Advanced study in stage costume design affording the student an opportunity to realize his work in production.

THEA 476. Special Problems. (1-0-3); 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.

THEA 530. Summer Theatre III. (4-0-4); III. May be repeated. **Prerequisite:** 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); I. A detailed study of

representative plays from the great periods of dramatic literature 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 554. Theatre History. (3-0-3); I. **Prerequisite:** THEA 200. A study of the origins and development of theatre.

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 325 or permission of instructor. Designing costumes for theatrical productions, making patterns, and the fabrication of garments for the stage.

THEA 564. Advanced Scene Design. (3-0-3); II. **Prerequisite:** THEA 210, 312 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). **Prerequisite:** THEA 321 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 hours] of a foreign language is required of students completing an area or major in English. Four semesters [12 hours] of a foreign language are recommended.)

For An Area of Concentration

ENG 101—Composition I	3
ENG 102—Composition II	3
or	
ENG 192—Technical Composition	3
At least one but no more than two literature courses at 200 level	
At least one course in 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
Total Semester Hours	54

For a Major*

ENG 101—Composition I	3
ENG 102—Composition II	3
or	
ENG 192—Technical Composition	3
At least one but no more than two literature courses at 200 level	
At least one course in American literature	
ENG 435—Shakespeare	3
ENG 505—Linguistics: Grammar	3
No more than two literature courses at 300 level	
All remaining (two to six) electives at 400 and 500 level	
Total Semester Hours	36

For a Minor*

ENG 101—Composition I	3
ENG 102—Composition II	3
or	
ENG 192—Technical Composition	3
At least one but no more than two literature courses at 200 level	
At least one course in American literature	
ENG 505—Linguistics: Grammar	
No more than one literature course at 300 level	
All remaining (two to four) electives at 400 and 500 level	
Total Semester Hours	27

*For teacher certification and AREA or MAJOR, one must take as two of his electives ENG 500 and one of the following: 215, 393, 409, 431, 434, 501, 516. MINOR must take as one of his 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 indicate requirements for Provisional High School Certification.)

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
PHED—Activity course	1
SCI 103—Intro. to Physical Sci.	3
Social Sciences elective	3
Foreign language	3
HLTH 150—Personal Health	2
Elective	2
	17

Second Semester

ENG 102—Composition II	3
or	
ENG 192—Technical Composition	3
PHED—Activity course	1
SCI 105—Intro. to Biological Sci.	3
*PSY 154—Oriented General Psychology	3
Foreign language	3
*EDSE 209—Foundations of Secondary Ed	2
Elective	1
	16

SOPHOMORE YEAR

First Semester

ENG—Elective	3
SPCH 100—Voice and Articulation	
or	
SPCH 110—Basic Speech	3
EDSE 310—Prin. of Adolescent Development	3
Social Sciences elective (Hist. 351)	3
Foreign Language	3
Electives	2
	17

Second Semester

ENG—Electives	6
SPCH 200—Oral Interpretation	3
JOUR 201—News Writ. & Reporting	3
Foreign language	3
Electives	2
	17

Major in English

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
PHED—Activity course	1
SCI 103—Intro. to Physical Science	3
Social Sciences elective	3
Foreign language	3
HLTH 150—Personal Health	2
Elective	2
	17

Second Semester

ENG 102—Composition II	3
or	
ENG 192—Technical Composition	3
PHED—Activity course	1
SCI 105—Intro. to Biological Science	3
Social Sciences elective	3
Foreign language	3
EDSE 209—Foundations of Secondary Ed	2
Elective	1
	16

SOPHOMORE YEAR

First Semester

ENG—Elective	3
*PSY 154—Life-Oriented General Psychology	3
Science or Math lecture	3
Foreign language	3
Electives (Hist. 351)	5
	17

Second Semester

ENG—Electives.....	6
*EDSE 310—Prin. of Adolescent Development.....	3
Science or Math elective.....	3
Foreign language.....	3
Elective.....	2
	17

Description of Courses

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

Honors Seminar in Modern Literature. (3-0-3); on demand. Intensive analytical study of a particular modern literary technique, movement, theme, or author. Restricted to Honors Program students.

NOTE: English 101 and 102 or 192; or English 103 are prerequisites for all other English courses.

ENG. 101. Composition I. (3-0-3); I, II, III. Development of writing ability; basic problems of structure of language, frequent papers.

ENG 102. Composition II. (3-0-3); I, II, III. Continuation of ENG 101; emphasis on critical thinking; frequent papers, including a short research paper.

ENG 103. Composition III. (3-0-3); I. An advanced placement composition course which covers in one semester the essential material of ENG 101 and 102.

ENG 192. Technical Composition. (3-0-3); I, II, III. Continuation of 101, with emphasis on the writing of scientific-industrial directions, letters and memos, abstracts, minor project reports, and the use of visual aids.

ENG 202. Introduction to Literature (3-0-3); I, II, III. Extensive reading in poetry, fiction, and drama, with emphasis on basic principles of literary evaluation. (Not recommended for English area, major, or minor students.)

ENG 211. Introduction to World Literature I. (3-0-3); I, II, III. Analysis of selected masterpieces of literature from the early Greeks to the Renaissance with emphasis on ideas basic to the Western tradition.

ENG 212. Introduction to World Literature II. (3-0-3); I, II, III. Analysis of selected masterpieces of literature from the Renaissance to the present with emphasis on ideas basic to the western tradition.

ENG 215. Structure of English. (3-0-3); on demand. The structures of the English language from the perspective of descriptive and structural linguistics.

ENG 231. English Literature to 1750. (3-0-3); I, II. A survey of English literature from Beowulf through Dr. Johnson.

ENG 232. English Literature since 1750. (3-0-3); I, II. A survey of English literature from Wordsworth to the present.

ENG 241. American Writers before 1850. (3-0-3); I, II. 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 in writing.

ENG 294. Creative Writing II. (3-0-3); I, II, III. Continuation of ENG 293.

ENG 325. Religious Literature of the World. (3-0-3); on demand. The literature of the major religions of the world.

ENG 344. The Short Story and the Novel. (3-0-3); I, II. Study of representative forms of the short story and the novel.

ENG 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 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 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 by such major writers as Cervantes, Racine, Moliere, Pascal, Voltaire, Diderot, Goethe, and Schiller.

ENG 473. European Literature 1800 to the Present. (3-0-3); on demand. Selected works by such major writers as Chekhov, Dostoyevsky, Proust, Kafka, Mann, and Nabokov.

ENG 499. Seminar: Major Writers. (3-0-3); on demand. Intensive study of one or more major figures in the literature of the world.

ENG 500. Studies in English for Teachers. (3-0-3); I, 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); I, II, III. Prerequisite: ENG 500 or consent of instructor. Student and faculty demonstrations of teaching the various literary genres; use of such appropriate non-print media as films, cassettes, and tapes to augment teaching effectiveness; and development of meaningful techniques of evaluating secondary school students of literature.

ENG 505. Linguistics: Grammar. (3-0-3); I, II, III. Principles of structural, transformational, generative, and tagmemic grammar.

ENG 510. Programmed Writing and Learning. (3-0-3); on demand. Using, writing, and understanding programmed texts; instruction individualized to the student's particular area of study.

ENG 516. Basic Linguistics for Teachers. (3-0-3); on demand. Application of linguistics principles to writing, reading, and literary comprehension.

ENG 528. Literary Criticism. (3-0-3); on demand. A survey of traditional criticism from the classical period to the twentieth century; or a study of modern criticism; the New Humanists, New Critics, Neo-Aristotelians, and various linguistics structuralists.

ENG 533. English Fiction. (3-0-3); on demand. Development of the English novel from its beginnings to the twentieth century.

ENG 539. Milton. (3-0-3); on demand. Intensive reading of Milton's poetry and major prose.

ENG 544. Folk Literature. (3-0-3); I, II, III. The origin of such primitive literary forms as the proverb, tale, epic, ballad, and folk drama.

ENG 545. Seventeenth Century British Literature. (3-0-3); on demand. A study of British Literature from the time of James I to the Restoration with emphasis on works by Donne and Jonson.

ENG 552. Early Dramatic Literature. (3-0-3); on demand. Representative dramas from the Greeks to the mid-nineteenth century.

ENG 553. Modern Drama. (3-0-3); on demand. Representative dramas from the advent of realism to the present.

ENG 560. Early American Authors. (3-0-3); on demand. Writings of the American colonial and federal periods.

English 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, II. 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 English 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 English 593.

ENG 595. A Linguistics Approach to Writing. (3-0-3); I. Language patterns, inherent symbols and their meanings, and tagmemics.

French

The French curriculum at Morehead State University teaches the language and literature of France, whereby the student will perceive areas of thought and action different from his 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

FRN 101—Beginning French I.....	3
FRN 102—Beginning French II.....	3
FRN 201—Intermediate French.....	3
FRN 202—Conversation and Composition.....	3
FRN 203—Introduction to France.....	3
FRN 435—Twentieth Century Literature.....	3
Approved Electives.....	12
	30

For a Minor in French

FRN 101—Beginning French I.....	3
FRN 102—Beginning French II.....	3
FRN 201—Intermediate French.....	3
FRN 202—Conversation and Composition.....	3
FRN 203—Introduction to France.....	3
Approved Electives.....	6
	21

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

Students who expect to teach French should choose French 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 and III-summer.

FRN 101. Beginning French I. (3-2-3); I, II. Drill in hearing and speaking; reading of simple texts; basic points of grammar.

FRN 102. Beginning French II. (3-2-3); I, II. Review of grammar; stress on active use of the language; reading, speaking, writing and understanding.

FRN 201. Intermediate French (3-0-3); I. Exercises in writing compositions based on readings. Laboratory work designed to complete mastery of basic language patterns and active vocabulary.

FRN 202. Conversation and Composition. (3-0-3); II. Intensive training in correct writing and fluent speech. Subject matter taken from literary selections.

FRN 203. Introduction to France. (3-0-3); I. The elements which have contributed to the culture of France.

FRN 321. Literature of the Middle Ages and Renaissance. (3-0-3); I. An introduction to typical epics, romances, and bourgeois poetry, followed by study of selections from Villon, Marot, Rabelais, the Pleiade, and Montaigne.

FRN 322. Seventeenth-Century Literature. (3-0-3); II. Study of French Classicism through representative plays.

FRN 323. Eighteenth-Century Literature. (3-0-3); I. Development of rationalistic and democratic tendencies as expressed in the writings of the period leading up to the Revolution.

FRN 324. Nineteenth-Century Literature. (3-0-3); II. Examination of representative works illustrating the development of literature from Romanticism to Realism and Symbolism.

FRN 405. Linguistics and Language Teaching. (3-0-3); III. For French majors and minors. A seminar in various foreign languages and requiring projects appropriate to the specialty in each.

FRN 435. Twentieth-Century Literature. (3-0-3); on demand. Selected works of recent writers: France, Romain, 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 a student will understand cultural points of view different from his 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: German 202 or its equivalent is prerequisite to all courses numbered 300 or above.

Requirements

For a Major in German

GER 101—Beginning German I.....	3
GER 102—Beginning German II.....	3
GER 201—Intermediate German I.....	3
GER 202—Intermediate German II.....	3
GER 301—Grammar and Conversation.....	3
GER 302—Composition and Conversation.....	3
Approved Electives.....	12
	30

For a Minor in German

GER 101—Beginning German I.....	3
GER 102—Beginning German II.....	3
GER 201—Intermediate German I.....	3
and	
GER 202—Intermediate German II.....	3
or	
GER 203—Expository German.....	3
Approved Electives.....	9
	21

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

Students who expect to teach German should choose German 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 the course is normally offered: I-fall, II-spring and III-summer.

GER 101. Beginning German I. (3-2-3); I, II. Fundamentals of structure: basic vocabulary, reading, writing, pronunciation and some conversation.

GER 102. Beginning German II. (3-2-3); I, II. A continuation of GER 101.

GER 201. Intermediate German I. (3-0-3); I. A review of grammar and pronunciation, with emphasis on reading of contemporary writings.

GER 202. Intermediate German II. (3-0-3); II. Prerequisite: GER 201. A continuation of GER 201.

GER 203. Expository German. (3-0-3); I. Techniques of reading for accurate information in expository writings 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 German 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 social 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. A seminar for majors or minors in various foreign languages and requiring projects appropriate to the specialty of each.

GER 420. German Drama of the Nineteenth Century. (3-0-3); on demand. Study of major representative plays and their background.

GER 440. Literature of the Twentieth Century. (3-0-3); on demand. Study of major modern German writers.

GER 480. Independent Study. (3-0-3); on demand. A close reading of selected texts for their literary merit. Open only to students majoring or minoring in German. May be repeated once for credit.

Latin

The Latin courses provide students in the arts and sciences with a firm background in classical culture, and students in pre-professional programs with a clear understanding of technical vocabulary.

NOTE: Latin 202 or the equivalent is prerequisite to courses numbered 300 or above.

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

Description of Courses

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

LAT 101. Beginning Latin I. (3-2-3); I, II. Drill in the basic elements of Latin grammar, word study, and reading of simple Latin selections.

LAT 102. Beginning Latin II. (3-2-3); I, II. A continuation of 101.

LAT 201. Intermediate Latin I. (3-0-3); I. Selections from Catullus, Cicero, Horace, Pliny, Martial, Livy, and Ovid.

LAT 202. Intermediate Latin II. (3-0-3); II. Writings of Cicero; his life and influence.

LAT 301. Advanced Latin I. (3-0-3); I. Poets of the Augustan Age, together with the history of the period.

LAT 302. Advanced Latin II. (3-0-3); II. Further study of the poetry of the Augustan Age. Selections from Vergil's Aeneid.

LAT 401. Latin Literature I. (3-0-3); I. Selections from the works of Horace, Vergil, Catullus, and others. Rotation of course content allows students to repeat the course for additional credit.

LAT 402. Latin Literature II. (3-0-3); II. Selections from Livy, Tacitus, Suetonius, Caesar, and others. Rotation of course content allows students to repeat the course for additional credit.

Russian

Objectives

1. To develop the ability to speak, read, write and understand the Russian language.
2. To provide students an introduction to the culture of the Russian-speaking world.

3. To develop a better understanding of Russian society and history through a study of Russian literature.

Description of Courses

NOTE: (3-0-3) following course title indicates: 3 hours lecture, 0 hours laboratory and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally offered: I-fall; II-spring; and 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 to conjugation of verb forms and declension of adjectives and nouns.

RUS 102. Beginning Russian II. (3-0-3). **Prerequisite:** Russian 101 or one year of high school Russian. A continuation of Russian 101. An analysis of Russian grammar with emphasis on writing and speaking.

RUS 201. Intermediate Russian I. (3-0-3). **Prerequisite:** Russian 102. A continuation of Russian grammar with emphasis on vocabulary building and language structure. Russian literature and elementary translation exercises are introduced in this course.

RUS 202. Intermediate Russian II. (3-0-3). **Prerequisite:** Russian 201. A continuation of Russian 201 with additional emphasis on Russian literature, translation, conversation, and writing.

RUS 301. Readings in Russian Literature. (3-0-3). **Prerequisite:** Russian 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:** Russian 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 in Russian. A seminar for majors or minors in various foreign languages and requiring projects appropriate to the specialty of each.

Spanish

The Spanish curriculum at Morehead State University teaches the language and literature of Spain, whereby the student will perceive areas of thought and action different from his 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: Spanish 202 or the equivalent is prerequisite to courses numbered 300 or above.

Requirements

For A Major in Spanish

SPA 101—Beginning Spanish I	3
SPA 102—Beginning Spanish II	3
SPA 201—Intermediate Spanish	3
SPA 202—Advanced Conversation	3
SPA 301—Spanish Literature	3
SPA 302—Spanish American Literature	3
SPA 501—Advanced Grammar	3
Approved Electives	9
	30

For a Minor in Spanish

SPA 101—Beginning Spanish I	3
SPA 102—Beginning Spanish II	3
SPA 201—Intermediate Spanish	3
SPA 202—Advanced Conversation	3
SPA 301—Spanish Literature	3
SPA 302—Spanish American Literature	3
Approved Electives	3
	21

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

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

Students who expect to teach Spanish should choose Spanish 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 indicates the term in which the course is normally offered: I-fall; II-spring; and 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 Spanish 101; practice hearing and speaking with patterns. Essentials of grammar.

SPA 201. Intermediate Spanish. (3-1-3); I. **Prerequisite:** SPA 102 or permission of the instructor. A reading course. Selection of famous modern authors used to develop the understanding and interpretation of the written language.

SPA 202. Advanced Conversation. (3-1-3); II. **Prerequisite:** SPA 102 or permission of the instructor. Intensive training in conversation. Films, magazines, and books will be used to practice different kinds of language.

SPA 220. Grammar and Composition. (3-0-3); I. **Prerequisite:** SPA 202 or permission of the instructor. Study and analysis of speaking and writing styles. Emphasis on written composition.

SPA 301. Spanish Literature. (3-0-3); I. A survey of the major periods and tendencies of Spanish literature from its beginning through the twentieth century.

SPA 302. Spanish American Literature. (3-0-3); II. A survey of major periods and tendencies of Spanish American literature from its beginning through the twentieth century.

SPA 311. Spanish and Spanish American Poetry. (3-0-3); II. A study of

Juglares, Cantares de Gesta, Romances, Mística, Poesía del Siglo de Oro, Romanticismo, Post Romanticismo, Modernismo, Siglo XX.

SPA 312. Spanish Theatre. (3-0-3); on demand. A study of the evolution of the theatre from Juan Del Encina to García Lorca.

SPA 313. Spanish Novel. (3-0-3); on demand. A survey of the novel from the thirteenth century, la Novela de Caballería, la Picaresca, la Morisca, la Pastoril, Cervantes, el Costumbrismo, la Generación 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 and 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 this masterpiece of Spanish literature.

SPA 532. Contemporary Spanish and Spanish American Literature. (3-0-3); on demand. A survey of significant characteristics of twentieth century Hispanic literature, including the novel, short story, drama, essay, and poetry.

SPA 540. Seminar in Hispanic Literature. (3-0-3); on demand. Group instruction and practice 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 and dramatic trends from Benavente and his contemporaries through García Lorca, Casona, and Buero Vallejo.

SPA 550. The Spanish Essay from the Eighteenth Century to the Present. (3-0-3); on demand. A study of the major essayists from Feijoo through Madariga.

SPA 555. Lope de Vega. (3-0-3); on demand. A study of the major dramatic and nondramatic works of Lope de Vega.

Music

The Department of Music offers programs of study which prepares 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.....	23
Principal applied area.....	7
Ensembles.....	7
Class Piano.....	4
(Piano and organ majors may substitute private keyboard lessons)	
Class voice and instruments.....	5
2 Music Theory.....	16
Music Theory I-III.....	9
Music Reading I-III.....	5
Theory elective.....	2
3 Music History and Literature.....	10
Music Literature I-II.....	4
History of Music I-II.....	6
4 Conducting.....	4
Choral Conducting.....	2
Instrumental Conducting.....	2
5 Music Education.....	7
Elementary Materials and Methods.....	4
Vocal or Instrumental Materials and methods.....	2
Seminar.....	1
	60

For the Bachelor of Music:

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

The following courses are required for all Bachelor of Music degree students:

1. Music Theory.....	16
Music Theory I-III.....	9
Music Reading I-III.....	5
Form Analysis.....	2
2. Music History and Literature.....	10
Music Literature I-II.....	4
History of Music I-II.....	6
3. Ensembles.....	8
4. Conducting.....	4
Choral Conducting.....	2
Instrumental Conducting.....	2

Note: Jazz and studio music students may take either instrumental or choral conducting. To complete their conducting requirement, they will take *Rehearsal Techniques for Jazz Ensembles (MUS 473)*.

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

a. VOICE.....	
Private Voice.....	16
Class Voice.....	1
Junior Recital.....	1
Senior Recital.....	2
Class and/or Private Piano.....	8
Languages (A minimum of six semester hours in each of two languages).....	12

b. PIANO.....	
Private Piano.....	21
Private Organ and/or Harpsichord.....	7
Junior Recital.....	1
Senior Recital.....	2
Counterpoint.....	2
Class Voice.....	1
Private Voice.....	3
Piano Literature.....	3
c. ORGAN OR HARPSICORD.....	
Private Organ or Harpsichord.....	24
Class or Private Piano.....	5
Junior Recital.....	1
Senior Recital.....	2
Class Voice.....	1
Private Voice.....	3
Church Music.....	2
Counterpoint.....	2
d. STRINGS.....	
Private Strings.....	24
Class Piano and/or Private Piano.....	8
Junior Recital.....	1
Senior Recital.....	2
Class Instruments.....	3
Class Woodwinds.....	1
Class Brasswinds.....	1
Class Percussion.....	1
Class Voice.....	1
Private Voice.....	1
e. WIND INSTRUMENTS.....	
Private Lessons in Major Instrument.....	16
Junior Recital.....	1
Senior Recital.....	2
Class Instruments.....	4
Class Brasswinds.....	1
Class Woodwinds.....	1
Class Strings.....	1
Class Percussion.....	1
Class Piano and/or Private Piano.....	6
Class Voice.....	1
Private Voice.....	1
Arranging.....	4
Music Electives.....	5
f. THEORY COMPOSITION.....	
Composition.....	12
Arranging.....	4
Counterpoint.....	2
Recital of Original Composition.....	2
Class and/or private Keyboard.....	8
Class Instruments.....	4
Class Brasswinds.....	1
Class Woodwinds.....	1
Class Strings.....	1
Class Percussion.....	1
Class Voice.....	1
Private Lessons in Major Instrument or Voice.....	7
g. JAZZ AND STUDIO MUSIC.....	
Private Applied Music.....	16
Junior Recital.....	1
Senior Recital.....	2
Class Piano and/or Jazz Keyboard.....	4
Jazz History and Literature.....	6
Arranging for the Stage Band.....	4
Studio Improvisation.....	7
	78

For a Major (Bachelor of Arts degree—Teaching):

This program provides a basic background of preparation for either instrumental or vocal music at the secondary level. It does not qualify the student for the twelve-grade certificate and is not recommended for the student who plans to teach music exclusively.

Program for Instrumental Majors:

	Sem. Hrs.
Applied Music.....	20
Private Lessons.....	6
Senior recital.....	1

Class instruments and voice	5
Class Piano	4
Ensembles	4
Music Theory	14
Music Theory I-III	9
Music reading I-III	5
Music History and Literature	6
History of Music I and II	6
Music Education and Conducting	4
Instrumental Conducting	2
Instrumental Materials and Methods	2
	44

Program for Vocal Majors:

	Sem. Hrs.
Applied Music	16
Class voice	1
Private voice	6
Class or private piano	4
Ensembles	4
Senior Recital	1
Music Theory	14
Music Theory I-III	9
Music Reading I-III	5
Music History and Literature	10
Music Literature I and II	4
History of Music I and II	6
Music Education and Conducting	4
Choral Conducting	2
Vocal Materials and Methods	2
	44

For a Major (Bachelor of Arts degree—Non-Teaching):

This program is designed for students who are planning for careers in music which do not require certification. It does not meet the requirements for teaching music in the public schools, nor does it prepare a student to enter graduate study in music without further preparation at the undergraduate level.

	Sem. Hrs.
Applied Music	12
Private lessons	7
Senior recital	1
Ensembles	4
Music Theory	14
Music Theory I-III	9
Music Reading I-III	5
History of Music I and II	6
	32

For a Minor (Non-teaching)

	Sem. Hrs.
Applied Music	8
Private lessons	7
Class or Private Piano	2
Music Theory	6
Music Theory I and II	6
Music Literature I and II	4
Music Electives	3
	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

First Semester

ENG 101—Composition I	3
SCI 103—Intro. to Physical Science	3
PSY 154—Life-Oriented General Psychology	3
MUST 131—Music Theory I	3

MUST 133—Music Reading I	1
MUSG 123—Class Piano I	1
MUSP—Major Private Applied	1
MUSM—Ensemble	1
MUSM 200—Student Recital	0
	17

Second Semester

ENG 102—Composition II	3
SCI 105—Intro. to Biological Science	3
HLTH 150—Personal Health	2
PHED—Activity Course	1
MUST 132—Music Theory II	3
MUST 134—Music Reading III	1
MUSG 124—Class Piano II	1
MUSG—Class Instrument or Voice	1
MUSP—Major Private Applied	1
MUSM—Ensemble	1
MUSM 200—Student Recital	0
	17

SOPHOMORE YEAR

First Semester

ENG—Literature Elective	3
MUST 231—Music Theory III	3
MUST 233—Music Reading III	3
MUSG 223—Class Piano III	1
MUSH 161—Music Literature I	2
MUSG—Class Instrument or Voice	1
MUSP—Major Private Applied	1
MUSM—Ensemble	1
MUSM 200—Student Recital	0
Gen. Ed. Elective	3
	17

Second Semester

PHED—Activity Course	1
MUST—Theory Elective	2
MUSG 224—Class Piano IV	1
MUSH 162—Music Literature II	2
MUSG—Class Instruments or Voice	2
MUSP—Major Private Applied	1
MUSM—Ensemble	1
MUSM 200—Student Recital	0
General Ed. Elective	3
	17

Bachelor of Music (Non-teaching—Piano Specialization)

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
SCI 103—Intro. to Physical Science	3
HLTH 150—Personal Health	2
MUST 131—Music Theory I	3
MUST 133—Music Reading I	1
*MUSP 243—Private Piano	3
*MUSM 187—Piano Ensemble	1
Elective	1
MUSM 200—Student Recital	0
	17

Second Semester

ENG 102—Composition II	3
SCI 105—Intro. to Biological Sci.	3
PHED—Activity Course	1
MUST 132—Music Theory II	3
MUST 134—Music Reading II	1
*MUSP 243—Private Piano	3
*MUSM 188—Piano Ensemble	1
Elective	1
MUSM 200—Student Recital	0
*MUSP—Private Organ or Harpsichord	1
	17

SOPHOMORE YEAR

First Semester

MUSH 161—Literature of Music I	2
MUST 231—Music Theory III	3
MUST 233—Music Reading III	3
*MUSP 243—Private Piano	3

*MUSG 239—Class Voice.....	1
*MUSP—Private Organ or Harpsichord.....	1
*MUSM—Piano Ensemble.....	1
MUSM 200—Student Recital.....	0
Elective.....	3
	17

Second Semester

ENG—Literature Elective.....	3
MUSH 162—Literature of Music II.....	2
MUST—Theory Elective.....	2
*MUSP 243—Private Piano.....	3
*MUSP 240—Private Voice.....	1
*MUSP—Private Organ or Harpsichord.....	1
*MUSM—Piano Ensemble.....	1
MUSM 200—Student Recital.....	0
Elective.....	3
PHED—Activity Course.....	1
	17

*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.
2. Performance of compositions of approximately third grade difficulty from the works of Clementi, Bach, Mozart, Bartok, etc.
3. Sight reading of easy piano music and instrumental and vocal accompaniments.
4. Playing of simple melodies by ear and improvising appropriate harmonizations.

Music Fees

One half-hour private lesson per week, per semester.....	\$20.00
Each additional half-hour private lesson per week, per semester.....	20.00
Practice room and organ fee.....	5.00
Instrument rental fee.....	3.00
Junior recital.....	20.00
Senior recital (one hour credit).....	20.00
Senior recital (two hour credit).....	40.00
Graduate recital.....	40.00

NOTE: Under certain conditions, beginning students in applied music may be assigned to an undergraduate assistant for instruction. In this event, the lesson fee is one-half that charged for lessons with members of the music faculty.

Applied Music

Private Applied Music

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

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

Each music degree student is required to designate a principal area of private music study. 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 and to receive one half-hour lesson per week for one hour of credit or two half-hour lessons per week for two or more hours of credit.

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. Students enrolled for recital credit receive a weekly half-hour lesson per credit hour.

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 musical 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 major performing medium each semester of residence except the student teaching semester.

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 a 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, 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.

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); I, II. Baton technique, rehearsal procedures, choral diction, and style and interpretation of choral works.

MUSC 472. **Instrumental Conducting.** (2-0-2); I, II, III. 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 children.

MUSE 325. **Materials and Methods for Elementary Grades.** (4-0-4); I, II. Materials and methods for the elementary school with emphasis on the teaching of musical concepts through developmental techniques.

MUSE 335. **Field Experience.** (1-3); on demand. Two full days weekly of teaching under supervision in public schools in nearby communities.

MUSE 336. **Field Experience.** (1-3); on demand. A 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); I, II. **Prerequisite:** credit for applied music in at least two of the following fields: strings, brasswinds, woodwinds, percussion. Instructional procedures and materials used in instrumental teaching from the elementary grades through high school.

MUSE 377. Instrumental Repair and Maintenance. (1-1-1); I. Demonstration and practice in simple repairs and maintenance of band and orchestral instruments.

MUSE 378. Piano Pedagogy. (2-1-2); II. Survey and evaluation of materials and methods for teaching class and private piano.

MUSE 480. Seminar. (1-0-1); I, 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); II, III. A study of the development of percussion instruments, literature and performing techniques.

MUSE 579. Marching Band Workshop. (2-0-2); I, III. Techniques of preparing marching bands for performance.

MUSE 595. Voice Pedagogy. (3-0-3); I. 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, including singing games and traditional dances in the circle, square, and contra formations.

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, II. Not for woodwinds majors.

MUSG 212. Advanced Woodwinds Techniques. (0-2-1); II. **Prerequisite:** MUSG 211 or prior playing experience with woodwind instruments. May be substituted for MUSG 211.

MUSG 213. Class Brasswinds. (0-2-1); I, II. Not for brasswind 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 IV. (0-2-1); I, II.

MUSG 226. Class Strings. (0-2-1); I, II.

MUSG 235. Class Guitar II. (0-2-1); I, II.

MUSG 239. Class Voice. (0-2-1); I, II.

MUSG 245. Jazz Keyboard I. (0-2-1); I. **Prerequisite:** MUSG 124 or consent of the instructor. An introduction to jazz keyboard techniques with emphasis on ensemble playing.

MUSG 246. Jazz Keyboard II. (0-2-1); II. **Prerequisite:** MUSG 245. Continuation of MUSG 245.

MUSG 345. Jazz Keyboard III. (0-2-1); I. **Prerequisite:** MUSG 246. Jazz keyboard techniques with emphasis on solo playing.

MUSG 346. Jazz Keyboard IV. (0-2-1); II. **Prerequisite:** MUSG 345. Continuation of MUSG 345.

MUSG 379. Double Reed Making. (0-2-1); 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 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 present.

MUSH 365. Jazz History and Literature. (3-0-3); I. A survey of jazz history from its beginning (ca. 1850) to the present.

MUSH 565. Music in America. (3-0-3); I. 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 keyboard music from the sixteenth century to the present.

MUSH 591. School Band Literature. (2-0-2); II, III. 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. A survey of music for solo voice and vocal ensemble, sixteenth through twentieth centuries; stylistic traits, types of compositions, sources, and performance practices.

Ensembles

Ensembles listed with two course numbers may be repeated for credit. After earning four hours of lower division credit (100 level), a student may enroll for upper division credit (300 level).

MUSM 184, 384. Guitar Ensemble. (0-2-1); I, II.

MUSM 135, 335. Clarinet Choir. (0-2-1); I, II.

MUSM 136, 336. Woodwind Quintet. (0-2-1); on demand.

MUSM 161, 361. Trumpet Choir. (0-2-1); on demand.

MUSM 162, 362. Trombone Choir. (0-2-1); on demand.

MUSM 163, 363. Tuba and Euphonium Ensemble. (0-2-1); on demand.

MUSM 167, 367. Brass Choir. (0-2-1); I, II. Open to brass players with the consent of the instructor.

MUSM 168, 368. Brasswind Ensemble. (0-2-1); on demand.

MUSM 169, 369. Percussion Ensemble. (0-2-1); I, II.

MUSM 170, 370. Concert Band. (0-2-1); II. Open to all students. Admission by audition.

MUSM 171, 371. Symphony Band. (0-2-1); II. Open to all students. Admission by audition.

MUSM 172, 372. Marching Band. (0-5-1); I. Open to all students. Required for wind and percussion music education students. Upper division credit after earning two hours of credit.

MUSM 178, 378. String Ensemble. (0-2-1); on demand.

MUSM 179, 379. Orchestra. (0-2-1); I, II. Open to all string students and to selected wind and percussion players as needed.

MUSM 181, 381. Jazz Ensemble. (0-2-1); I, II. Open to all students. Admission by audition.

MUSM 182, 382. Jazz Vocal Ensemble. (0-2-1); I, II. Open to all students. Admission by audition.

MUSM 183, 383. Traditional Music Ensemble. (0-2-1); on demand.

MUSM 187. Piano Sight Reading I. (0-2-1); I, II. Designed to develop sight reading competence. Required for piano majors.

MUSM 188. Piano Sight Reading II. (0-2-1); I, II. Continuation of MUSM 187.

MUSM 189. Piano Ensemble. (0-2-1); on demand. 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. (0-3-1); I, II. Open to all students. Admission by audition.

MUSM 193, 393. Chamber Singers. (0-3-1); I, II. Select 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.

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.

- MUSP 201, 401, 501. Private Flute.
- MUSP 202, 402, 502. Private Oboe.
- MUSP 203, 403, 503. Private Bassoon.
- MUSP 204, 404, 504. Private Clarinet.
- MUSP 205, 405, 505. Private Saxophone.
- MUSP 206, 406, 506. Private Horn.
- MUSP 207, 407, 507. Private Trumpet.
- MUSP 208, 408, 508. Private Euphonium.
- MUSP 209, 409, 509. Private Trombone.
- MUSP 210, 410, 510. Private Tuba.
- MUSP 216, 416, 516. Private Harp.
- MUSP 219, 419, 519. Private Percussion.
- MUSP 227, 427, 527. Private Violin.
- MUSP 228, 428, 528. Private Viola.
- MUSP 229, 429, 529. Private Cello.
- MUSP 230, 430, 530. Private Double Bass.
- MUSP 235, 435, 535. Private Classical Guitar.
- MUSP 236, 436, 536. Private Guitar.
- MUSP 237, 437, 537. Private Electric Bass.
- MUSP 240, 440, 540. Private Voice.
- MUSP 241, 441, 541. Private Harpsichord.
- MUSP 242, 442, 542. Private Organ.
- MUSP 243, 443, 543. Private Piano.
- MUSP 262, 462, 562. Private Composition.

MUSP 263, 463, 563. Private Conducting. With the consent of the instructor.

MUSP 360. Junior Recital. (1-0-1); I, II, III. A solo public recital of at least thirty minutes. With the approval of the music faculty.

MUSP 450. Senior Recital. (1-0-1); I, II, III. A solo public recital of approximately thirty minutes duration. With the approval of the music faculty.

MUSP 460. Senior Recital. (2-0-2); I, II, III. A solo public recital of approximately sixty minutes duration. With the approval of the music faculty.

MUSP 470. Composition Recital. (1-0-2); I, II, III. Preparation and performance in recital of student's original compositions. With the approval of the music faculty.

Music Theory and Composition

MUST 100. Rudiments of Music. (1-2-2); I, II, III. Fundamentals of music notation and basic elements of music theory. Recorder playing, autoharp accompaniment, and singing. Prerequisite for MUSE 221.

MUST 101. Introduction to Music Theory. (1-2-2); I, II. An introduction to the basic elements of music theory.

MUST 102. Introduction to Music Reading. (1-2-2); I, II. An introduction to the concepts and applications of reading music, vocally and instrumentally.

MUST 131. Music Theory I. (2-2-3); I, II. Prerequisite: MUST 101 or demonstration of equivalent competencies on the Music Department

Entrance Examinations. An extensive study of the basic elements of music (calligraphy, rhythm, meter, pitch materials), emphasizing monodic, two and three-voice textures; timbral qualities of the instruments; basic diatonic harmony.

MUST 132. Music Theory II. (2-2-3); I, II. Prerequisite: MUST 131 or demonstration of equivalent competency on the Music Department Entrance Examination. A continuation of Music Theory I with emphasis on three and four-voice textures, figured bass, secondary dominants, binary and ternary forms, transposition and scoring for small ensembles, and tonality changes. Supportive ear training to accompany these areas where applicable.

MUST 133. Music Reading I. (0-2-1); I, II. Prerequisite: MUST 102 or determination of equivalent competency by Music Department Entrance Examination. An ensemble approach to the development of basic skills of tonal and rhythmic reading through supervised vocal and instrumental reading experiences.

MUST 134. Music Reading II. (0-2-1); I, II. Prerequisite: MUST 133. Continuation of MUST 133.

MUST 231. Music Theory III. (2-2-3); I, II. Prerequisite: MUST 132 or determination of equivalent competency by Music Department Entrance Examination. A continuation of Music Theory II, with emphasis placed on the broadening of both the tonal 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. Prerequisites: 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 263. Elementary Composition I. (1-1-2); I. Prerequisite: MUST 232 or consent of the instructor. Study and practice of basic formal compositional principles.

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

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

MUST 363. Intermediate Composition I. (1-1-2); I, II. Prerequisite: MUST 264. Study and writing of students' original creative work. One hour weekly in private study; one hour in composition seminar-colloquium.

MUST 364. Intermediate Composition II. (1-1-2); I, II. Prerequisite: MUST 363. 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 132. A study of the elements of musical design through aural and score analysis.

MUST 531. Arranging. (2-0-2); on demand. Prerequisite: MUST 232 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 in the humanities. These courses are designed to increase the scope and depth of the students' 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

PHIL 200—Introduction to Philosophy	3
PHIL 306—Logic	3
PHIL 505—History of Philosophy I	3
PHIL 506—History of Philosophy II	3
Additional credit in philosophy approved by the department	18
Minimum for a major 30	

For a Minor in Philosophy

PHIL 200—Introduction to Philosophy	3
PHIL 306—Logic	3
PHIL 505—History of Philosophy I	3
PHIL 506—History of Philosophy II	3
Additional credit in philosophy approved by the department	9
Minimum for a minor 21	

For a Major in Religious Studies

REL 221—World Religions I	3
REL 222—World Religions II	3
PHIL 200—Introduction to Philosophy	3
PHIL 307—Philosophy of Religion	3
Additional credit in religious studies approved by the Department of Philosophy	18
Minimum for a major 30	

For a Minor in Religious Studies

REL 221—World Religions I	3
REL 222—World Religions II	3
PHIL 200—Introduction to Philosophy	3
PHIL 307—Philosophy of Religion	3
Additional credit in religious studies approved by the Department of Philosophy	9
Minimum for a minor 21	

NOTE: Courses which may be selected, with the approval of the Department of Philosophy, to complete the major or minor in religious studies are the following:

REL 321—Early and Medieval Christian Thought	3
REL 322—Modern Christian Thought	3
REL 323—Twentieth-Century Christian Thought	3
REL 476—Special Problems	1-3
ENG 325—Religious Literature of the World	3
ENG 367—Old Testament Literature	3
ENG 368—New Testament Literature	3
HIS 332—Christianity and Its World	3
HIS 551—Religion in American History	3

Suggested Programs

The following programs have been devised to help students in selecting and making their schedules during the freshman and sophomore years. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

Bachelor of Arts Degree with a Major in Philosophy (without a teaching certificate)

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
PHIL 200—Introduction to Philosophy	3
Physical Science elective	3
Social Sciences elective	3
PHED—Activity course	1
Elective (foreign language recommended)	3
16	

Second Semester

ENG 102—Composition II	3
Philosophy elective	3
Biological Science elective	3
Social Sciences elective	3
PHED—Activity course	1
Elective (foreign language recommended)	3
16	

SOPHOMORE YEAR

First Semester

ENG—Literature elective	3
Philosophy elective	3
Second major or elective	3
Social Sciences elective	3
Health elective	2
Elective (foreign language recommended)	3
17	

Second Semester

PHIL 306—Logic	3
Second major or elective	3
Math elective	3
Social Sciences elective	3
Elective (foreign language recommended)	3
15	

Provisional High School Certificate with a Major in Philosophy and a Major in a Teaching Subject

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
PSY 154—Life-oriented—General Psychology	3
Humanities elective	3
Physical Science elective	3
Social Sciences elective	3
PHED—Activity course	1
16	

Second Semester

ENG 102—Composition II	3
PHIL 200—Introduction to Philosophy	3
Second major	3
Biological Science elective	3
Math elective	3
Health Elective	2
17	

Provisional High School Certificate with a Minor in Religious Studies and a Major in a Teaching Subject

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
REL 221—World Religions I	3
Major	3
PSY 154—Life-oriented General Psychology	3
Physical Science elective	3
PHED—Activity course	1
16	

Second Semester

ENG 102—Composition II	3
REL 222—World Religions II	3
Major	3
PHIL 200—Introduction to Philosophy	3
Biological Science elective	3
PHED—Activity course	1
16	

SOPHOMORE YEAR

First Semester

ENG—Literature elective.....	3
Religious Studies elective.....	3
Major.....	3
EDSE 209—Foundations of Secondary Education.....	2
Social Sciences elective.....	3
Health elective.....	2
	16

Second Semester

Religious Studies elective.....	3
Major.....	3
Humanities elective.....	3
Math elective.....	3
Social Sciences elective.....	3
Elective.....	1
	16

Bachelor of Arts Degree with a Minor in Religious Studies (Without a certificate)

FRESHMAN YEAR

First Semester

ENG 101—Composition I.....	3
REL 221—World Religions I.....	3
Humanities elective.....	3
Physical Science elective.....	3
Social Sciences elective.....	3
PHED—Activity course.....	1
	16

Second Semester

ENG 102—Composition II.....	3
REL 222—World Religions II.....	3
Major.....	3
PHIL 200—Introduction to Philosophy.....	3
Biological Science elective.....	3
PHED—Activity course.....	1
	16

SOPHOMORE YEAR

First Semester

ENG—Literature elective.....	3
Religious Studies elective.....	3
Major.....	3
Math elective.....	3
Social Sciences elective.....	3
Health elective.....	2
	17

Second Semester

PHIL 307—Philosophy of Religion.....	3
Major.....	3
Math or Science elective.....	3
Social Sciences elective.....	3
Health elective.....	2
Elective.....	3
	17

Description of Courses

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

Philosophy

Honors Seminar in Philosophy. (3-0-3); I. **Prerequisite:** Membership in the Junior-Senior Honors Program. Contemporary moral issues are examined, discussed, and evaluated. The topics may vary from semester to semester.

PHIL 200. Introduction to Philosophy. (3-0-3); I, II, III. A study of alternative views concerning the nature of reality, knowledge, truth, God, man, art, and the good life.

PHIL 300. Philosophy of Science. (3-0-3); II. A study of scientific method and explanation; the role of mathematics in empirical science; and theories of matter, space, time, motion, and causality.

PHIL 303. Social Ethics. (3-0-3); I, II, III. A study of theoretical and practical problems of moral conduct and proposed solutions to them.

PHIL 306. Logic. (3-0-3); II. A study of informal fallacies, the methods of constructing deductive and inductive arguments, and the ways of justifying or testing them.

PHIL 307. Philosophy of Religion. (3-0-3); II, III. **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); I. **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 symbols.

PHIL 313. American Philosophy. (3-0-3); on demand. **Prerequisite:** PHIL 200 or consent of the department. A survey of philosophical thought in America from the eighteenth century to the present with special attention given to the Pragmatists.

PHIL 410. Contemporary Philosophy. (3-0-3); II. **Prerequisite:** any one of the following courses: PHIL 200, 505, 506. An examination, interpretation, and evaluation of the philosophic ideas of leading representatives of twentieth century philosophies.

PHIL 476. Special Problems. (One to three hours), I, II. **Prerequisite:** twelve hours in philosophy or consent of the department. The student selects an approved topic in philosophy on which he will do a directed study.

PHIL 505. History of Philosophy I. (3-0-3); I. Ancient and Medieval philosophy; a history of Western philosophy from Thales (624-546 B.C.) to the beginning of the Renaissance.

PHIL 506. History of Philosophy II. (3-0-3); II. Modern and contemporary philosophy; a history of Western philosophy from the Renaissance to the present.

Religion

NOTE: Credit in philosophy is not given for any of the courses in religion.

REL 221. World Religions I. (3-0-3); I, III. **Prerequisite:** PHIL 200. Introduction to Philosophy, is recommended. A study of the origin, development, assumptions, values, beliefs, practices, great leaders, and principal events of Judaism, Christianity, Islam, and Zoroastrianism.

REL 222. World Religions II. (3-0-3); II. **Prerequisite:** PHIL 200. Introduction to Philosophy is recommended. A study of the origin, development, assumptions, values, beliefs, practices, great leaders, and principal events of Hinduism, Buddhism, Confucianism, Taoism, Jainism, Sikhism, and Shintoism.

REL 321. Early and Medieval Christian Thought. (3-0-3); on demand. **Prerequisite:** PHIL 200. Introduction to Philosophy is recommended. A study of ideas concerning the nature of God, Jesus, the Church, man, sin, salvation, the good life, and other issues presented by Jesus, Paul, John, and the early and medieval church fathers or leaders to the beginning of the Reformation.

REL 322. Modern Christian Thought, (1500 to 1900). (3-0-3); on demand. **Prerequisites:** REL 321 and/or PHIL 200 recommended. A study of the ideas concerning the nature of God, Jesus, the Church, man, sin, salvation, the good life, and other issues presented by theologians and religious leaders from the beginning of the Reformation to the twentieth century.

REL 323. Twentieth-Century Christian Thought. (3-0-3); on demand. **Prerequisite:** REL 322 or PHIL 200; or consent of instructor. A study of the ideas concerning the nature of God, Jesus, the Church, man, sin, salvation, the good life, and other ideas presented by major twentieth century theologians such as Barth, Bultmann, Tillich, Niebuhr, Wieman, Hartshorne, A.T. Robertson, Karl Rahner, Karl Adam, Thomas Altizer, and Dietrich Bonhoeffer.

REL 476. Special Problems. (One to three hours); on demand. **Prerequisite:** Twelve hours in religious studies or consent of the Department of Philosophy. The student selects an approved topic in religion on which he will do a directed study.

Personal Development Institute

The Personal Development Institute was established to encourage the development of personal values and standards of moral and ethical character in the men and women who enroll. The objectives of the Personal Development Institute are:

1. To develop in those who attain knowledge and skill, certain intangibles such as confidence, poise, personal appearance, and self-assurance.
2. To assist the student in a realistic assessment of himself and his surroundings.
3. To develop in students the correct set of personality traits such as perseverance and dependability to carry them to the successful completion of any endeavor.
4. To assist students in developing attractive voice quality, good speech habits and the art of conversation.

5. To identify and better understand the forces that affect the personal development potential of adults in today's changing social, economic, and professional climate.

Description of Course

NOTE: (3-0-3) following 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.

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 skills, the art of entertaining, voice improvement, speech and conversation, vocabulary expansion, interview preparation and improved interpersonal relationships.

SCHOOL OF SCIENCES AND MATHEMATICS
Department of Biological Sciences
Center for Environmental Studies
Department of Mathematical Sciences
Department of Physical Sciences
Department of Science Education

Baccalaureate degree programs

Biology
 Chemistry
 Earth Science
 Environmental Studies
 Geology
 Mathematics
 Medical Technology
 Physics

Pre-Professional programs

Pre-Chiropractic
 Pre-Dentistry
 Pre-Engineering
 Pre-Medicine
 Pre-Optometry
 Pre-Pharmacy
 Pre-Physical Therapy

Associate Degree Programs

Engineering Science
 Laboratory Technology (Medical)

Intensive basic courses of study in each major field of science and mathematics, coupled with a broad background in related disciplines, prepare Morehead graduates for professional opportunities in teaching, research, and technological development and the professions or related fields. Course offerings are varied to meet the general needs of the non-science oriented student to the specialized requirements of the graduate student. Curricula are reviewed and revised periodically in order to stay abreast of rapidly advancing technologies. Programs are administered by four departments: Biological Sciences, Mathematical Sciences, Physical Sciences, and Science Education. The School of Sciences and Mathematics also has a special program of environmental studies.

Biological Sciences

The Department of Biological Sciences: (1) offers comprehensive major and minor programs designed to produce quality teachers; (2) provides specialized programs sufficient to produce professional biologists; (3) offers progressive programs of study in pre-medicine, pre-dentistry, medical technology, pre-physical therapy, pre-pharmacy, and pre-chiropractic medicine; and (4) supports other departments, divisions, and institutional programs by offering a variety of courses essential to general and specialized areas of study.

Requirements:

For a Major in Biology:

BIOL 206—Biological Etymology.....	1
BIOL 208—Invertebrate Zoology.....	3
BIOL 209—Vertebrate Zoology.....	3
BIOL 215—General Botany.....	4
BIOL 304—Genetics.....	3
BIOL 317—Principles of Microbiology.....	4
BIOL 337—Comparative Anatomy OR	
BIOL 551—Plant Morphology.....	3
BIOL 380—General Physiology.....	3

BIOL 471—Seminar.....	1
Biology Field Course.....	3
	28

Biology Electives:

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

BIOL 318—Local Flora.....	3
BIOL 320—Basic Microtechniques.....	2
BIOL 334—Entomology.....	3
BIOL 337—Comparative Anatomy.....	3
BIOL 338—Vertebrate Embryology.....	3
BIOL 356—Environmental Biology.....	3
BIOL 357—Environmental Testing Methods.....	2
BIOL 510—Limnology.....	3
BIOL 513—Plant Physiology.....	3
BIOL 514—Plant Pathology.....	3
BIOL 515—Food Microbiology.....	3
BIOL 518—Pathogenic Microbiology.....	3
BIOL 519—Virology.....	3
BIOL 520—Histology.....	3
BIOL 525—Animal Physiology.....	3
BIOL 534—Ichthyology and Herpetology.....	3
BIOL 535—Mammology.....	3
BIOL 537—Ornithology.....	3
BIOL 540—General Parasitology.....	3
BIOL 545—Medical Entomology.....	3
BIOL 550—Plant Anatomy.....	3
BIOL 551—Plant Morphology.....	3
BIOL 553—Workshop in Environmental Biology.....	3
BIOL 561—Ecology.....	3
BIOL 575—Scanning Electronmicroscopy.....	3
BIOL 595—Biochemistry I.....	4
BIOL 596—Biochemistry II.....	4
Total Hours—Biology Major	34

Students majoring in biology are also required to take the following:

CHEM 101 or 111—General Chemistry I.....	3
CHEM 101A or 111A—General Chemistry I Lab.....	1
CHEM 102 or 112—General Chemistry II.....	3
CHEM 102A or 112A—General Chemistry II Lab.....	1
PHYS 201—Elementary Physics I.....	4
PHYS 202—Elementary Physics II.....	4
*GEOS 510—Geological History of Plants and Animals.....	3
MATH 141—Plane Trigonometry.....	3
MATH 152—College Algebra.....	3

*Pre-medical, pre-dental, and other pre-professional students obtaining a major in biology may substitute PHYS 350 (Nuclear Science) for GEOS 510.

Requirements

For a Minor in Biology

BIOL 206—Biological Etymology.....	1
BIOL 208—Invertebrate Zoology.....	3
BIOL 209—Vertebrate Zoology.....	3
BIOL 215—General Botany.....	4
Approved electives in Biology.....	10
Minimum for a minor	21

Students minoring in biology are also required to take the following:

CHEM 101 or 111—General Chemistry I.....	3
CHEM 101 or 111A—General Chemistry II.....	3
CHEM 102 or 112—General Chemistry II.....	3
CHEM 102A or 112A—General Chemistry II Lab.....	1

Medical Technology

Medical technology is one of the newest and fastest-growing professions associated with modern advances in medical science. The medical technologist performs analytical tests on body fluids, cells and products. The information provided by test results is used by the physician in diagnosing disease, selecting and monitoring treatment, and in counseling for prevention of disease.

Personal attributes necessary for success in this profession include aptitude for physical and biological sciences, dependability, a strong sense of responsibility, and capacity to work well under stress.

Approximately two-thirds of all medical technologists are employed in hospital laboratories. Most others are employed in physicians' offices, private laboratories, clinics, armed forces, city, state and federal agencies, industrial medical laboratories, pharmaceutical houses, and in public and private research programs directed toward combating specific diseases.

Admission to American Medical Association-approved programs of medical technology requires at least 90 semester hours of academic credit in a college or university, including appropriate course work in biology, chemistry, and mathematics. This must culminate in a baccalaureate degree after the professional courses in a medical technology program are completed. The professional program is usually 12 months in length.

Morehead State University is affiliated with the following AMA-approved schools of medical technology:

1. Beckley Appalachian Regional Hospital
Beckley, West Virginia
2. St. Elizabeth Hospital
Covington, Kentucky
3. Methodist's Evangelical Hospital
Louisville, Kentucky
4. Mobile Infirmary
Mobile, Alabama
5. Good Samaritan Hospital
Lexington, Kentucky

In accordance with this program, the student completes the three years of prescribed work at Morehead State University and is then eligible for the transfer to an accredited school of medical technology for the fourth year of clinical study. Acceptance into an accredited school of medical technology for the fourth year of clinical study is generally based on the applicant's academic record, personal interview and letters of recommendation. The final decision of admittance into the program will be made by the appropriate school of medical technology. Morehead State University will make every effort to secure each student a position at one of the before-mentioned affiliated schools of medical technology, or at another approved school of medical technology for the student's clinical year of training after the completion of the required courses at Morehead State University. Upon the completion of the four-year program, Morehead State University confers upon the candidate the Bachelor of Science degree with an Area in Medical Technology.

Curriculum FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
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	1

MATH 152—College Algebra	3
HLTH 150—Personal Health	2
PHED—Activity Course	1
	16

Second Semester

ENG 102—Composition II OR	
ENG 192—Technical Composition	3
BIOL 331—Human Anatomy	3
CHEM 102—General Chemistry II OR	
CHEM 112—General Chemistry II	3
CHEM 102A—General Chemistry II Lab OR	
CHEM 112A—General Chemistry II Lab	1
MATH 123—Introduction to Statistics OR Equivalent	3
Social Sciences Elective	3
	16

SOPHOMORE YEAR

First Semester

BIOL 206—Biological Etymology	1
BIOL 332—Human Physiology	3
BIOL 333—Human Physiology Lab	1
CHEM 326—Organic Chemistry	4
PSY 154—General Psychology	3
PHED—Activity Course	1
Humanities Elective (Literature)	3
	16

Second Semester

PHYS 202—Elementary Physics II	4
BIOL 317—Principles of Microbiology	4
Humanities Elective	3
Social Sciences Elective	3
Science Elective	3
	17

JUNIOR YEAR

First Semester

BIOL 304—Genetics	3
BIOL 518—Pathogenic Microbiology	3
Advanced Chemistry Elective	4
Humanities Elective	3
Social Sciences Elective	3
	16

Second Semester

BIOL 380—General Physiology	3
BIOL 540—General Parasitology	3
HUM—Elective	3
SOC SCI—Elective	3
Advanced Science Elective	3
	15

SENIOR YEAR (Clinical)

All students attending an accredited school of medical technology during their clinical year of training must be enrolled in Biology 413, Medical Technology Clinical Practicum, 8 to 14 hours, at Morehead State University during the fall, spring, and summer sessions.

The student will receive a minimum of 36 semester hours of credit upon successfully completing one year of clinical training at an accredited school of medical technology. Credit awarded will be applicable toward a Bachelor of Science degree with an area of concentration in medical technology.

Laboratory Technology (Medical)

The Associate of Science Degree in Laboratory Technology was designed for students who desire to do general laboratory work such as is found in agricultural experiment stations and industrial laboratories. This degree is not intended for students who wish to work in hospitals as medical technologists.

Requirements:

	Sem. Hrs.
Science	6
Biology	5

Chemistry	12
Mathematics	3
Industrial Education	3
Agriculture	9
Electives (to be approved by adviser)	26
Minimum for the associate degree	64

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 plans to attend.

Curriculum FRESHMAN YEAR

First Semester	
ENG 101—Composition I	3
CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
BIOL 208—Invertebrate Zoology	3
MATH 152—College Algebra	3
PHED—Activity Course	1
Elective	2
	16

Second Semester	
ENG 102—Composition II	3
CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
BIOL 209—Vertebrate Zoology	3
MATH 141—Plane Trigonometry	3
PHED—Activity Course	1
Elective	2
	16

SOPHOMORE YEAR

First Semester	
ENG 231—English Literature to 1750 OR	
ENG 232—English Literature since 1750	3
PHYS 201—Elementary Physics I	4
PSY 154—General Psychology	3
ECON 201—Principles of Economics	3
HIS 131—Introduction to Civilization I	3
Elective	2
	18

Second Semester	
ENG 241—English Writers Before 1850 OR	
ENG 242—English Writers Since 1850	3
PHYS 202—Elementary Physics II	4
PSY 590—Abnormal Psychology	3
SOC 101—General Sociology	3
GOVT 141—Government of United States	3
Elective	2
	18

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 qualifications 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 den-

tal schools. Pre-dental students should have a good background in sciences and mathematics beyond the minimum requirements and they should also cultivate interests in literature, music, art, speech, languages, social sciences, and psychology. For purposes of scheduling, course selection, and complete preparation for professional school, the pre-dental student must work closely with his faculty adviser.

A student who follows a program that includes the requirements for graduation and enters dental school at the end of his junior year, may, after successfully completing his first year at dental school, transfer his 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 his 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 his faculty adviser.

Since specific requirements vary between medical schools, it is essential that the student investigate the requirements of the school of his choice during the first two years of his preparatory program.

Pre-Medical and Pre-Dental Curriculum FRESHMAN YEAR

First Semester	
BIOL 208—Invertebrate Zoology	3
ENG 101—Composition I	3
EDEL 110—Developmental Reading	2
PHED—Activity Course	1
MATH—Elective	3-4
SOC SCI—Elective	3
	15-16

Second Semester	
BIOL 208—Vertebrate Zoology	3
ENG 102 or 192—Composition	3
CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
BIOL 206—Biological Etymology	2
PHED—Activity	1
MATH—Elective	3-4
	16-17

SOPHOMORE YEAR

First Semester	
BIOL 215—General Botany	4
CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
HLTH 150—Personal Health	2
PHYS 201—Elementary Physics I	4
HUM—Elective (Literature)	3
	18

Second Semester	
BIOL 304—Genetics	3
PHYS 202—Elementary Physics II	4
CHEM 223—Qualitative Analysis OR	
CHEM 460—Instrumental Analysis	3-4

BIOL 337—Comparative Anatomy	3
SOC SCI—Elective	3
	16-17

JUNIOR YEAR

First Semester	
BIOL 338—Vertebrate Embryology	3
CHEM 326—Organic Chemistry I	4
PSY 154—General Psychology	3
MATH 175—Analytic Geometry & Calculus I OR	
MATH 353—Statistics	3-4
HUM—Elective	3
	16-17

Second Semester	
BIOL 317—Principles of Microbiology	4
BIOL 380—General Physiology	3
CHEM 327—Organic Chemistry II	4
PHYS 350—Nuclear Science	4
	15

SENIOR YEAR

First Semester	
BIOL 595—Biochemistry	4
CHEM 441—Physical Chemistry I	3
SOC SCI—Elective	3
Advanced Science Elective	3-4
BIOL—Elective Field Course	3
	16-17

Second Semester	
BIOL 471—Seminar	1
SOC SCI—Elective	3
HUM—Electives	6
Advanced Science Electives	6-7
	16-17

Pre-Pharmacy Program

The schedule below is a suggested program of pre-pharmacy study which will meet the general requirements for most pharmacy schools. It can be modified to satisfy the needs of the individual student.

Admission to a school of pharmacy must be obtained after completion of the two year pre-pharmacy program. Three additional years are required to complete pharmacy school.

Curriculum

FRESHMAN YEAR

First Semester	
CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
BIOL 209—Invertebrate Zoology	3
Eng 101—Composition I	3
Electives (General Studies Component)	6
	16

Second Semester	
BIOL 209—Vertebrate Zoology	3
ENG 102—Composition II	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
Elective	3
	17

SOPHOMORE YEAR

First Semester	
BIOL 317—Principles of Microbiology	4
BIOL 206—Biological Etymology	1
PHYS 201—Elementary Physics I	4
CHEM 326—Organic Chemistry I	4
ECON 201—Principles of Economics	3
	16

Second Semester	
PHYS 202—Elementary Physics II	4
CHEM 327—Organic Chemistry II	4
Electives (General Studies Component)	9
	17

Pre-Physical Therapy

Students who plan to take a degree in physical therapy should consult the catalog of the school of physical therapy they plan to attend to be certain that they fulfill the requirements of the chosen school. Most schools of physical therapy require 60 to 65 hours of course work in a pre-physical therapy program.

The schedule below is a suggested curriculum and may be varied according to individual preferences.

Curriculum

FRESHMAN YEAR

First Semester	
ENG 101—Composition I	3
PSY 154—General Psychology	3
CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
MATH 152—College Algebra	3
BIOL 208—Invertebrate Zoology	3
	16

Second Semester	
ENG 102—Composition II	3
PSY 155—General Psychology	3
CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
BIOL 209—Vertebrate Zoology	3
MATH 152—Plane Trigonometry OR elective	3
	16

SOPHOMORE YEAR

First Semester	
BIOL 331—Human Anatomy	3
PHYS 201—Elementary Physics I	4
*Electives	6-9
	13-15

Second Semester	
BIOL 337—Comparative Anatomy	3
PHYS 202—Elementary Physics II	4
Electives*	6-9
	13-15

It is recommended that electives include courses in statistics, typing, mathematics, and medical terminology.

Description of Courses

NOTE: Field courses are designated with an asterisk(*) (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 150. Introductory Plant Science. (2-2-3); I, II. A beginning course in plant science dealing with form structure growth, reproduction and ecology of plants. Emphasis on cultivated plants and agricultural applications. (Course will NOT be accepted for biology majors and minors.)

BIOL 206. Biological Etymology. (0-2-1); 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 pencil, pen and ink, blackboard, and photography; illustrative procedure for classroom and publication.

BIOL 208. Invertebrate Zoology. (2-2-3); I, II. Basic principles: morphology, physiology, embryology, composition, and metabolism; general characteristics, life histories, taxonomy, ecology, and evolution of the invertebrates.

BIOL 209. Vertebrate Zoology. (2-2-3); I, II. Prerequisite: BIOL 208. General characteristics, anatomy, physiology, taxonomy, ecology, and evolution of the vertebrates.

BIOL 215. General Botany. (2-4-4); I, II. Structure and physiology of vegetative and reproductive plant organs; introduction to plant genetics and plant kingdom in terms of structure, ecology and evolution.

BIOL 217. Elementary Medical Microbiology. (3-2-4); I, II, III. An elementary microbiology course for students interested in understanding the characteristics and activities of microorganisms and their relationship to health and disease. Course will not be accepted as credit for biology majors.

BIOL 218. Elementary Laboratory Microbiological Techniques. (0-2-1); I. This is a laboratory course that will include exercises that will allow the students to obtain first-hand knowledge of microbiological techniques employed in a clinical laboratory. Proper laboratory technique and use of the

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 317. Principles of Microbiology. (2-4-4); I, II, III. **Prerequisites:** BIOL 209 and CHEM 112 and 112A. Identification and classification of bacteria; morphology; distribution of microorganisms; cultivation, observation, methods of examination, and physiology of microorganisms; fermentation and decay; health.

BIOL 318. Local Flora. (1-4-3); I*. **Prerequisite:** BIOL 215. Identification and classification of plants native to the area. Collection and herbarium techniques.

BIOL 320. Basic Microtechniques. (0-4-2); II-on demand. **Prerequisites:** BIOL 209 or 215 and CHEM 111 and 111A. Techniques for preparing plant and animal tissues for microscopic study; preparation of microscopic slides.

BIOL 331. Human Anatomy. (3-0-3); I, II, III. **Prerequisites:** SCI 105 or equivalent. Human organism with emphasis on gross morphology. Course will not be accepted as credit for the biology major.

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 exercise. Course will not be accepted as credit for the biology major.

BIOL 333. Laboratory for Human Physiology. (0-2-1); I, II. **Prerequisites:** BIOL 332 or equivalent may be taken concurrently. This is a laboratory course and the experiments included will be to allow students to obtain first-hand knowledge of fundamental physiological principles of the human body. Each system of the body will be explored. Laboratory animals such as the mouse, rat, pigeon, turtle, and frog will be utilized for some of the experiments as will human subjects. Correct laboratory technique and use of the equipment will be emphasized.

BIOL 334. Entomology. (2-2-3); II-on demand. **Prerequisite:** BIOL 208. General structure of insects, life histories, common orders and families; insects in relation to man.

BIOL 337. Comparative Anatomy. (1-4-3); I, II. **Prerequisite:** BIOL 209. Vertebrate structure based on the recognition of morphological deviation in body plan.

BIOL 338. Vertebrate Embryology. (2-2-3); I, II. **Prerequisite:** BIOL 209. Vertebrate development from gamete formation through the fetal stage; emphasis on comparative structural development.

BIOL 350. Heredity and Society. (3-0-3); I, II. **Prerequisite:** SCI 105 or equivalent. See SCI 350.

BIOL 355. Population, Resources, and Environment. (3-0-3); I, II, III. **Prerequisite:** SCI 103 and 105 or equivalent. See SCI 355.

BIOL 356. Environmental Biology. (3-0-3); II. **Prerequisite:** SCI 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. (0-4-2); 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. General Physiology. (2-2-3); I, II. **Prerequisites:** BIOL 209, 215, and CHEM 112 and 112A. (CHEM 326 helpful.) Physiology of organisms from the cellular to organismic level. Biological, chemical, and physical aspects of physiological processes.

BIOL 413-1. Medical Technology Hospital Internship I.

BIOL 414-2. Medical Technology Hospital Internship II.

BIOL 415-3. Medical Technology Hospital Internship III. **Prerequisite:** successful completion of three years of the curriculum for medical technology in the Department of Biological Sciences. Designed for the medical technology student that is interning at an accredited school of medical technology associated with a hospital. BIOL 413-1, 414-2, 415-3 will be offered in fall, spring, and summer, respectively, for a maximum of 36 semester hours of credit.

BIOL 471. Seminar. (1-0-1); I, II. **Prerequisite:** senior standing. Designed to give the student an introduction to research and literature in the biological sciences.

BIOL 510. Limnology. (1-4-3); I*. **Prerequisites:** BIOL 209, 215, and CHEM 112 and 112A. 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:** BIOL 215 and CHEM 327 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. Microbial diseases of man and animals; host responses to diseases.

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; on demand. **Prerequisites:** BIOL 209 and CHEM 326 or equivalents. Comparison of fundamental physiological processes in representatives of invertebrate and vertebrate animals.

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 herpetiles 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 of diseases with special emphasis on insects of medical importance. Anatomy, physiology, identification, ecology, and control measures.

BIOL 550. Plant Anatomy. (2-2-3); I. **Prerequisite:** BIOL 215. Gross and microscopic studies of internal and external structures of vascular plants. The cell, meristem, cambium, primary body, xylem and phloem; roots, stems, and leaves; flowers and fruits, ecological anatomy.

BIOL 551. Plant Morphology. (2-2-3); II. **Prerequisite:** BIOL 215. Fossil and living non-vascular plants (except bacteria) and vascular plants; emphasis on morphology, ecology, and evolution.

BIOL 553. Workshop in Environmental Biology. (3-0-3); III. **Prerequisite:** consent of instructor. See Science 553.

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 575. Scanning Electronmicroscopy. (1-2-2); II. Brief description of the theory of the electron gun, the magnetic control of electron pathways, and variations in electron microscope construction. The major portion of the course will be concerned with the preparation of specimen and actual application of the scanning electron microscope.

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:** CHEM 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.

Environmental Studies

The Center for Environmental Studies offers a major with four options. The four options are in ecology; geology; social sciences and economics; and chemistry and physics. With careful planning between the student and his adviser, a teaching certificate can be obtained in one of the option fields. The major is primarily designed to produce professionals in a variety of fields, depending upon the option chosen. Private industry, governmental agencies in various fields, municipalities, public utilities and ecological contracting companies are primary sources of employment. The Center for Environmental Studies cooperates with the Schools of Business and Economics and Social Sciences in procuring employment and will participate in the Cooperative Education Work Program to give students actual work experience before graduation. The Center also offers an environmental studies minor.

Requirements

For a Major in Environmental Studies, all students must take the Environmental Studies Core

SCI 355—Population, Resources, Environment	3
SCI 471—Seminar in Environmental Studies	1
BIOL 356—Environmental Biology	3
GEOS 376—Environmental Geology	3
ECON 501—Environmental Economics	3
GOVT 505—Politics of Ecology	3
GEOG 505—Conservation of Natural Resources	3
	19

All environmental studies majors are also requested to take certain complementary general education courses to complete University requirements.

For a Major in Environmental Studies with the Ecology Option:

Requirements

Environmental Studies Core Courses	19
BIOL 208—Invertebrate Zoology	3
BIOL 209—Vertebrate Zoology	3
BIOL 215—General Botany	4
BIOL 357—Environmental Testing Methods	2
BIOL 510—Limnology	3
BIOL 561—Ecology	3
Elective from Biology 318, 334, 530, 531, 535, or 537	3

Supplemental Requirements

CHEM 101 or 111—General Chemistry I	3
CHEM 101A or 111A—General Chemistry I Lab	1
CHEM 102 or 112—General Chemistry II	3
CHEM 102A or 112A—General Chemistry II Lab	1
GEOS 240—Oceans	3
MATH 353—Statistics	3

Suggested Program

The following program outline is intended to help students in arranging their course schedule. Close adherence will assist in meeting requirements for graduation.

FRESHMAN YEAR

First Semester

BIOL 208—Invertebrate Zoology	3
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Lab	1
ENG 101—Composition I	3
SPCH 110—Basic Speech	3
PHED—Activity Course	1
	14

Second Semester

BIOL 209—Vertebrate Zoology	3
CHEM 102—General Chemistry II	3
CHEM 102A—General Chemistry II Lab	1
ENG 192—Technical Composition	3
HLTH 303—Community Health	3
PHED—Activity Course	1
Elective	3
	17

SOPHOMORE YEAR

First Semester

BIOL 215—Botany	4
GEOS 376—Environmental Geology	3
HUM—Elective—Literature	3
Minor	3
HUM—Elective	3
	16

Second Semester

SCI 355—Population, Resources, and Environment	3
GEOS 240—Oceans	3
PHIL 303—Social Ethics	3
Minor	3
HUM—Elective	3
	15

For a Major in Environmental Studies with the Geology Option:

Requirements

Environmental Studies Core Courses	19
SCI 107—Introduction to Geoscience	3
GEOS 100—Physical Geology	1
GEOS 101—Historical Geology	3
GEOS 240—Oceans	3
GEOS—Electives Approved by Adviser	9

Supplemental Requirements

MATH 353—Statistics	3
BIOL 357—Environmental Testing Methods	2
Any three courses (12 hours) chosen from the following:	
CHEM 101-101A (or 111-111A)—Chemistry I	4-8
CHEM 102-102A (or 112-112A)—Chemistry II	
OR	
PHYS 201 and 202—Elementary Physics I or II	4-8

Suggested Program

The following program outline is intended to help students in arranging their course schedule. Close adherence will assist in meeting requirements for graduation.

FRESHMAN YEAR

First Semester

SCI 107—Introduction to Geoscience	3
GEOS 100—Physical Geology	1
CHEM 101—General Chemistry I	3
CHEM 101A—General Chemistry I Lab	1
ENG 101—Composition I	3
SPCH 110—Basic Speech	3
PHED—Activity Course	1
	15

Second Semester

GEOS 101—Historical Geology	3
CHEM 102—General Chemistry II	
CHEM 102A—General Chemistry II Lab OR	
PHYS 201—Elementary Physics I	4
ENG 192—Technical Composition	3
HLTH 303—Community Health	3
GEOS 240—Oceans	3
PHED—Activity Course	1
	17

SOPHOMORE YEAR

First Semester

CHEM 102—General Chemistry II and	
CHEM 102A—General Chemistry II Lab OR	
PHYS 202—Elementary Physics II	4
GEOS 376—Environmental Geology	3
HUM—Elective (literature)	3
Minor	3
HUM—Elective	3
	16

Second Semester

SCI 355—Population, Resources, Environment	3
PHIL 303—Social Ethics	3
GEOS—Elective	3
Minor	3
HUM—Elective	3
	15

For a Major in Environmental Studies with the Social Sciences and Economics Option:

Requirements

Environmental Studies Core Courses.....	19
GEO 211—Economic Geography.....	3
GEO 390—Weather and Climate.....	3
ECON 201—Principles of Economics I.....	3
ECON 541—Public Finance.....	3
GOVT 500—Pressure Groups and Politics.....	3
GOVT 540—Public Administration.....	3
Social Sciences and Economics Electives approved by adviser.....	12

Supplemental Requirements

GEOS 240—Oceans.....	3
BIOL 357—Environmental Testing Methods.....	2

Suggested Program

The following program outline is intended to help students in arranging their course schedule. Close adherence will assist in meeting requirements for graduation.

FRESHMAN YEAR

First Semester

ENG 101—Composition I.....	3
ECON 201—Principles of Economics I.....	3
HUM—Elective.....	3
MATH—Elective.....	3
HLTH—Elective.....	2
PHED—Activity Course.....	1
	15

Second Semester

ENG 192—Technical Composition.....	3
GEO 211—Economic Geography.....	3
GEOS 240—Oceans.....	3
SPCH 110—Basic Speech.....	3
HUM—Elective.....	3
PHED—Activity Course.....	1
	16

SOPHOMORE YEAR

First Semester

GEOS 376—Environmental Geology.....	3
HUM—Elective (Literature).....	3
SOC SCI—or Economics Elective.....	3
Minor.....	3
Elective.....	3
	15

Second Semester

SCI 355—Population, Resources, Environment.....	3
GEO 390—Weather and Climate.....	3
SOC SCI—or Economics Elective.....	3
Minor.....	6
Elective.....	3
	18

For a Major in Environmental Studies with the Chemistry and Physics Option:

Requirements:

Environmental Studies Core Courses.....	19
CHEM 101—General Chemistry I.....	3
CHEM 101A—General Chemistry I Lab.....	1

CHEM 102—General Chemistry II.....	3
CHEM 102A—General Chemistry II Lab.....	1
CHEM 223—Quantitative Analysis.....	4
CHEM 460—Instrumental Analysis.....	3
PHYS 201—Elementary Physics I.....	4
PHYS 202—Elementary Physics II.....	4
PHYS 350—Nuclear Science.....	4
PHYS 361—Fundamentals of Electronics.....	3

Supplemental Requirements

GEOS 240—Oceans.....	3
MATH 353—Statistics.....	3
BIOL 357—Environmental Testing Methods.....	2

Suggested Program

The following program outline is intended to help students in arranging their course schedule. Close adherence will assist in meeting requirements for graduation.

FRESHMAN YEAR

First Semester

CHEM 101—General Chemistry I.....	3
CHEM 101A—General Chemistry I Lab.....	1
ENG 101—Composition I.....	3
SPCH 110—Basic Speech.....	3
HUM—Elective.....	3
PHED—Activity Course.....	1
	14

Second Semester

CHEM 102—General Chemistry II.....	3
CHEM 102A—General Chemistry II Lab.....	1
ENG 192—Technical Composition.....	3
HLTH 303—Community Health.....	3
Elective.....	3
PHED—Activity Course.....	1
	14

SOPHOMORE YEAR

First Semester

PHYS 201—Elementary Physics I.....	4
CHEM 223—Quantitative Analysis.....	4
HUM—Elective (Literature).....	3
Minor.....	3
HUM—Elective.....	3
	17

Second Semester

PHYS 202—Elementary Physics II.....	4
GEOS 240—Oceans.....	3
PHIL 303—Social Ethics.....	3
SCI 355—Population, Resources, Environment.....	3
Minor.....	3
	16

For a Minor in Environmental Studies

Requirements

GEOS 240—Oceans.....	3
GEOS 376—Environmental Geology.....	3
SCI 355—Population, Resources, Environment.....	3
SCI 471—Seminar in Environmental Studies.....	1
BIOL 356—Environmental Biology.....	3
GOVT 505—Politics of Ecology.....	3
Electives from PHIL 303, MATH 353, BIOL 357, ECON 501, GEO 505 and BIOL 553 (only one course may be chosen from the last two listed).....	5-6

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

Students who have credit for courses in mathematics equivalent to MATH 141 and 152, or MATH 175 are excused from taking the Mathematics Placement Examination. All other students are required to take the Mathematics Placement Examination prior to enrollment in mathematics courses numbered above 140 except 231 and 232. This examination is administered to entering freshmen (as a group) at the beginning of each fall term or it may be taken by individuals at any time at the Office of the Testing Bureau (501 Ginger Hall). The purpose of the examination is to determine the level of mathematical maturity of a student enabling him to begin the study of mathematics at the highest level his background and achievement warrant.

For a Major in Mathematics:

Requirements

MATH 175—Analytic Geometry and Calculus I	4
MATH 275—Analytic Geometry and Calculus II	4
MATH 471—Seminar	1
Electives in mathematics above 170 except MATH 231, 232, and 260	7
Electives in mathematics above 300 as approved by the Head of the Department of Mathematical Sciences	14
BSAD 202—Computer Programming BASIC	30
	3

Suggested Program

The following program outline is intended to help students in arranging their course schedule. Close adherence will assist in meeting requirements for graduation.

FRESHMAN YEAR

First Semester

ENG 101—Composition I	3
MATH 175—Analytic Geometry and Calculus I	4
BSAD 202—Computer Programming BASIC	3
PHED—Activity Course	1
HLTH 150—Personal Health	2
Biological Science Elective	3
	16

Second Semester

ENG 102—Composition II	3
MATH 275—Analytic Geometry and Calculus II	4
PHED—Activity Course	1
Social Science Elective	3
Physical Science Elective	3
Minor	3
	17

SOPHOMORE YEAR

First Semester

MATH 276—Analytic Geometry and Calculus III OR Math Elective	3-4
MATH 304—Math Logic and Set Theory	3
HUM—Elective (Literature)	3
HUM—Elective	3
Minor	3
	15-16

Second Semester

HUM—Elective	3
SOC SCI—Elective	3
MATH—Elective	3
Minor	3
General Electives	4
	16

For a Minor in Mathematics:

Requirements

MATH 175—Analytic Geometry and Calculus I	4
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MATH 275—Analytic Geometry and Calculus II	4
Electives in Math above 170 except MATH 231, 232, and 260	7
Electives in Math above 300 as approved by the Head of the Department of Mathematical Sciences	6
	21
BSAD 202—Computer Programming BASIC	3

For a Minor in Statistics:

A student should consult the Head of the Department of Mathematical Sciences for approval of one of the following:

OPTION I

MATH 123—Introduction to Statistics	3
MATH 132—General Mathematics II	3
MATH 260—Fortran Programming	3
MATH 301—Elementary Linear Algebra	3
MATH 353—Statistics	3
MATH 553—Statistical Methods	3
MATH 555—Nonparametric Statistics	3
	21

OPTION II

MATH 301—Elementary Linear Algebra	3
MATH 312—Numerical Analysis	3
MATH 353—Statistics	3
MATH 519—Probability	3
MATH 520—Mathematical Statistics	3
MATH 553—Statistical Methods	3
MATH 555—Nonparametric Statistics	3
	21

Description of Courses

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

MATH 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. Sets, logic, induction, flow-charting, and number theory.

MATH 132. General Mathematics II. (3-0-3); I, II. Prerequisite: MATH 131. Computers; algebraic sentences; probability; expectation; and statistics.

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 consent of the Mathematics Placement Examination Committee. (A sufficiently high score on the Mathematics Placement Examination entitles a student to choose a more advanced course.) Trigonometric functions, trigonometric identities; inverse functions.

MATH 152. College Algebra. (3-0-3) or (5-0-3); I, II, III. Prerequisite: consent of Mathematics Placement Examination Committee. (A sufficiently high score on the Mathematics Placement Examination entitles a student to choose a more advanced course.) 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, logarithmic, and trigonometric functions; complex numbers; theory of equations; sequences and series.

MATH 175. Analytic Geometry and Calculus I. (4-0-4); I, II. Prerequisite: satisfactory score on the Mathematics Placement Examination, or MATH 141 and 152. Functions and graphs; linear equalities and inequalities; conic sections; limits and continuity; differentiation and its applications; 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 260. FORTRAN Programming (3-0-3); II. Prerequisites: BSAD 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 BSAD 202. Definite integral with applications; trigonometric and exponential functions; methods and applications of integration; infinite series.

MATH 276. Analytic Geometry and Calculus III. (4-0-4); I, II. Prerequisite: MATH 275. Solid analytic geometry; space and plane vectors; systems of linear equations; matrices; partial differentiation; multiple integration.

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 basic statistics with applications to business.

MATH 363. Differential Equations. (3-0-3); II. Prerequisite: MATH 275. Special types of first order differential equations; linear differential equations; operator methods; Laplace transforms; series methods; applications.

MATH 372. College Geometry. (3-0-3); I. Prerequisite: MATH 175. Rigorous development of elementary geometry as a logical system based upon postulates and undefined terms.

MATH 373. Principles and Techniques of Mathematics. (3-0-3); I, II. Prerequisite: MATH 275. For prospective teachers of secondary mathematics.

ics. Material from advanced mathematics extends topics of high school mathematics.

MATH 391. Classical Mechanics. (4-0-4); I, In alternate years. (See Physics 391.)

MATH 481. Mathematical Physics. (3-0-3); on demand. (See Physics 481.)

MATH 504. Topology. (3-0-3); II. Prerequisites: MATH 304 and 350, or consent of instructor. Elementary set theory; topological spaces; metric spaces; compactness and connectedness; mapping of topological spaces; related topics.

MATH 510. Real Variables. (3-0-3); I. Prerequisite: MATH 310. Topological properties of Euclidean space; theory of differentiation and integration; sequences and series of functions; metric spaces.

MATH 511. Functional Analysis. (3-0-3); I. Prerequisites: MATH 301 and 510 or consent of instructor. Linear spaces; normed and Banach spaces; Hilbert spaces; applications to sequence spaces and Fourier series.

MATH 519. Probability. (3-0-3); I. Prerequisite: MATH 275. A first course in mathematical probability and its applications to statistical analysis.

MATH 520. Mathematical Statistics. (3-0-3); II. Prerequisite: MATH 519. Hypothesis testing and estimation; bivariate and multivariate distributions; order statistics; test of fit; nonparametric comparison of locations; distribution theory.

MATH 553. Statistical Methods. (3-0-3); I. Prerequisites: 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. Prerequisites: MATH 372 or consent of instructor. A synthetic treatment of projective geometry leading into natural homogeneous coordinates; analytic projective geometry; conics; axiomatic projective geometry; some descendants of real projective geometry.

MATH 575. Selected Topics. (One to six hours); I, II. Prerequisite: consent of instructor. Topics are offered which meet the needs of the students and which are not otherwise included in the general curriculum.

MATH 585. Vector Analysis. (3-0-3); I. Co-requisite: MATH 276. Vector algebra; vector functions of a single variable; scalar and vector fields; line integrals; generalizations and applications.

MATH 586. Complex Variables. (3-0-3); II. Prerequisites: 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. (1-6); III. Prerequisite: consent of instructor. New curricula developments in mathematics.

*A student may receive credit toward graduation in only one — MATH 353 or MATH 354.

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 scientific pursuits such as medicine.

For a Major in Chemistry (for those students planning to become professional chemists):

Requirements

CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
CHEM 223—Quantitative Analysis	4
CHEM 326—Organic Chemistry I	4
CHEM 327—Organic Chemistry II	4
CHEM 328—Organic Chemistry III	5
CHEM 350—Inorganic Chemistry	3
CHEM 441—Physical Chemistry I	4
CHEM 442—Physical Chemistry II	5
CHEM 450—Qualitative Organic Analysis	4
CHEM 460—Instrumental Analysis	3
Chemistry electives approved by advisor	6
SCI 471—Seminar	1

Supplemental Requirements

MATH 175—Analytic Geometry & Calculus I	4
MATH 275—Analytic Geometry & Calculus II	4
MATH 276—Analytic Geometry & Calculus III	4
PHYS 231—Engineering Physics I	5
PHYS 232—Engineering Physics II	5
GER 101—Beginning German I	3
GER 102—Beginning German II	3
Advanced technical elective approved by advisor	3

This curriculum is designed to meet the standards of the American Chemical Society. However, students can elect to follow a 32-semester-hour major in chemistry that is suitable for teacher certification.

For a Major in Chemistry (for supportive purposes):

Thirty-two hours in chemistry	32
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For a Minor in Chemistry

Twenty-one hours in chemistry	21
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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

ENG 101—Composition I	3
GER 101—Beginning German I	3
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
MATH 175—Analytic Geometry and Calculus I	4
PHED—Activity Course	1
	15

Second Semester

ENG 102—Composition II	3
GER 102—Beginning German II	3
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
MATH 275—Analytic Geometry and Calculus II	4
HLTH 150—Personal Health	2
PHED—Activity Course	1
	17

SOPHOMORE YEAR

First semester

CHEM 223—Quantitative Analysis	4
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MATH 276—Analytic Geometry and Calculus III	4
PHYS 231—Engineering Physics I	5
Social Sciences Elective	3
	16

Second Semester

ENG—Literature Elective	3
CHEM—Chemistry Elective	3
CHEM 350—Inorganic Chemistry I	3
PHYS 232—Engineering Physics II	5
Social Sciences Elective	3
	17

*If teacher certification is desired, consult your adviser.

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. (3-2-4); II. A survey of chemistry with emphasis on health and life processes.

CHEM 101. General Chemistry I. (3-0-3); II. Chemistry applied to home economics and agriculture. 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. 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. Laboratory for CHEM 102.

CHEM 111. General Chemistry I. (3-0-3); I, II, III. Atomic structure, periodic relations, and electronic structure. States of matter, gas laws, and introduction to the properties of solution.

CHEM 111A. General Chemistry I Laboratory. (0-2-1); I, II, III. Laboratory for CHEM 111.

CHEM 112. General Chemistry II. (3-0-3); I, II, III. Prerequisite: CHEM 111. Continuation of CHEM 111. Kinetics, equilibria, electrochemistry, and descriptive chemistry of selected groups of elements.

CHEM 112A. General Chemistry II Laboratory. (0-2-1); I, II, III. Laboratory for CHEM 112.

CHEM 223. Quantitative Analysis. (1-6-4); I, II. Prerequisite: CHEM 102 and 102A or 111 and 111A. Principles and practices of volumetric analysis including electrometric titrations.

CHEM 326. Organic Chemistry I. (3-2-4); I, II, III. Prerequisite: CHEM 102 and 102A or 111 and 111A. Homologous series of alkanes, alkenes, alkynes, alicyclic compounds, benzenoid compounds, alcohols, phenols and molecular structure.

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 328. Organic Chemistry III. (3-4-5); I, in alternate years. Prerequisite: CHEM 327. Special topics of organic chemistry: molecular rearrangements, orbital symmetry, heterocyclics, carbanion reactions, and macromolecules.

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); II, on demand. Prerequisite: CHEM 326 or 331. Methods used in the interpretation of nuclear magnetic resonance spectra, mass spectra, infrared and ultraviolet spectra of inorganic and organic molecules.

CHEM 441. Physical Chemistry I. (3-0-3); I. Prerequisites: CHEM 223 or 327; MATH 175; PHYS 202 or 232. Introduction to physical chemistry: thermodynamics, chemical kinetics, and quantum chemistry.

CHEM 442. Physical Chemistry II. (3-2-4); II, in alternate years. Prerequisite: CHEM 441; co-requisite: 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 326 or 332. Qualitative analysis of organic compounds; physical and chemical methods.

CHEM 460. Instrumental Analysis. (2-4-4); I, II. Prerequisites: CHEM 102 and 102A or CHEM 326. Theory and practice of instrumental analysis. Opticometric and electrometric methods.

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.

For a Major in Geology:

Requirements

GEOS 100—Physical Geology	1
GEOS 101—Historical Geology	3
GEOS 107—Introduction to Geoscience	3
GEOS 260—Mineralogy I	3
GEOS 261—Mineralogy II	3
GEOS 300—Petrology	3
GEOS 314—Principles of Stratigraphy	3
GEOS 325—Structural Geology	3
GEOS 377—Invertebrate Paleontology I	3
GEOS 378—Invertebrate Paleontology II	3
GEOS 400—Field Methods	3
SCI 471—Seminar	1

Supplemental Requirements:

BIOL 208—Invertebrate Zoology	3
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
PHYS 201—Elementary Physics I	4
PHYS 202—Elementary Physics II	4
MATH—Electives approved by adviser	6-8

However, students who do not plan to pursue advanced degrees may substitute up to 15 semester hours for the supplemental requirements. Substitutions must be approved by adviser.

For a Minor in Geology:

Requirements

GEOS 100—Physical Geology	1
GEOS 101—Historical Geology	3
GEOS 107—Introduction to Geoscience	3
GEOS 250—Minerals & Rocks (or GEOS 260 Mineralogy I)	3
GEOS 400—Field Methods	3
GEOS 410—Geological History of Plants and Animals	3
Electives approved by adviser	5

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

First Semester

ENG 101—Composition I	3
HLTH 150—Personal Health	2
GEOS 100—Physical Geology	1
GEOS 107—Introduction to Geoscience	3
MATH 152—College Algebra	3
Social Sciences Elective	3
PHED—Activity Course	1
	16

Second Semester

ENG 102—Composition II	3
GEOS 101—Historical Geology	3
MATH 141—Plane Trigonometry	3
Humanities Elective	3
Social Sciences Elective	3
PHED—Activity Course	1
	16

SOPHOMORE YEAR

First Semester

CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
GEOS 260—Mineralogy I	3
BIOL 208—Invertebrate Zoology	3
Humanities Elective (Literature)	3

Social Sciences Elective	3
	16

Second Semester

CHEM 111—General Chemistry II	3
CHEM 111A—General Chemistry II Lab	1
GEOS 260—Mineralogy II	3
GEOS 325—Structural Geology	3
Minor Elective	3
HUM Elective	3
	16

For a Major in Earth Science:

Requirements

GEOS 100—Physical Geology	1
GEOS 101—Historical Geology	3
GEOS 107—Introduction to Geoscience	3
GEOS 250—Minerals and Rocks (or GEOS 260 Mineralogy I)	3
GEOS 400—Field Methods	3
GEOS 510—Geological History of Plants & Animals	3
SCI 200—Descriptive Astronomy	3
SCI 471—Seminar	1
AGR 211—Soils	3
GEO 390—Weather and Climate	3
GEOS—Electives approved by adviser	6

Students can also follow the above program to gain teacher certification. However, supplemental course work in Biology, Mathematics, Chemistry and Physics is required for certification. Please consult your adviser.

For a Minor in Earth Science:

Requirements

GEOS 100—Physical Geology	1
GEOS 101—Historical Geology	3
GEOS 107—Introduction to Geoscience	3
GEOS 400—Field Methods	3
SCI 200—Descriptive Astronomy	3
GEO 390—Weather & Climate	3
Electives approved by adviser	5

Suggested Program

The following program outline is intended to help students in arranging their course schedules. Close adherence will assist in meeting requirements for graduation.

Earth Science Major*

FRESHMAN YEAR

First Semester

GEOS 100—Physical Geology	1
GEOS 107—Introduction to Geoscience	3
ENG 101—Composition I	3
MATH 141—Plane Trigonometry	3
PHYS 201—Elementary Physics I	4
Social Sciences Elective	3
	17

Second Semester

GEOS 101—Historical Geology	3
ENG 102—Composition II	3
MATH 152—College Algebra	3
HLTH 150—Personal Health	2
PHYS 202—Elementary Physics II	4
PHED—Activity Course	1
	16

SOPHOMORE YEAR

First Semester

GEOS 260—Mineralogy I	3
SCI 200—Descriptive Astronomy	3
BIOL 208—Invertebrate Zoology	3
Social Sciences Elective	3
Minor Elective	3
	15

Second Semester

AGR 211—Soils	3
Literature Elective	3
Social Sciences Elective	3
Minor Elective	6

*If teacher certification is desired, consult your adviser.

Description of Courses

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

GEOS 100. Physical Geology. (0-2-1); I, II. An introductory study of common minerals, rock classes, and topographic and geologic maps.

GEOS 101. Historical Geology. (2-2-3); II.* Prerequisites: GEOS 100 and 107. Physical events in the earth's history; structure of sedimentary facies of each major stratigraphic subdivision; fossil record from the Precambrian period.

GEOS 107. Introduction to Geoscience. (3-0-3); I, II, III. A general survey of earth: its astrophysical setting, its fluid portion, its solid part, its active processes, its history, the role of geology in preserving earth's resources.

GEOS 200. Coal Mining Geology. (3-0-3); I. 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); I, II, III. 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.* Prerequisite: GEOS 107. Principal rock-forming and economic minerals and their occurrence.

GEOS 260. Mineralogy I. (2-2-3); I, in alternate years. Prerequisites: GEOS 100 and CHEM 102 or 112. Physical and chemical properties of minerals; crystal models, crystals, chemical methods and rock relationships. Introduction to optical and X-ray methods in mineral identification.

GEOS 261. Mineralogy II. (2-2-3); II, in alternate years. Prerequisite: GEOS 260. Continuation of GEOS 260 with a systematic survey of common mineral groups.

GEOS 300. Petrology. (2-2-3); I, in alternate years. Prerequisite: GEOS 261. Modes of occurrence and origin of 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 314. Principles of Stratigraphy. (2-2-3); II, in alternate years.* Prerequisite: GEOS 101 or 510. Geologic correlation of surface and subsurface stratal units; facies analysis and biostratigraphic studies.

GEOS 325. Structural Geology. (2-2-3); II, in alternate years.* Prerequisites: GEOS 101 and MATH 141 (or its equivalent). Mechanical properties of rocks and the dynamics of rock deformation. Folds, faults, joints, cleavage, igneous structures.

GEOS 350. Geomorphology. (2-2-3); on demand. Prerequisite: GEOS 107, or GEO 101. Land surfaces; topographic form and geologic history; morphologic analysis.

GEOS 376. Environmental Geology. (3-0-3); I, II, III. Man's relationship to the geological environment. Geological hazards and hostile environments; mineral resources and the environment; urban geology.

GEOS 377. Invertebrate Paleontology I. (2-2-3); I, in alternate years.* Prerequisites: GEOS 101; BIOL 208 or GEOS 510. Invertebrate animals, their morphology, classification, paleoecology, phylogeny, and stratigraphic succession.

GEOS 378. Invertebrate Paleontology II. (2-2-3); II, in alternate years.* Prerequisite: GEOS 377. Continuation of GEOS 377. Faunal assemblages and research techniques.

GEOS 381. Principles of Sedimentation. (1-4-3); II, in alternate years. Prerequisite: GEOS 101. Mechanics of sedimentary rocks, with emphasis on chemical and mechanical analysis. Laboratory work based in part on required field studies.

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, II. 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.* Prerequisites: GEOS 377. Collection, preparation, microscopic investigation, classification, paleoecology and stratigraphic succession of microfossils.

GEOS 415. History of Geology. (2-0-2); on demand. Development of geological thought; important men and their contributions to our knowledge of the earth.

GEOS 420. Optical Mineralogy. (2-2-3); on demand. Prerequisites: GEOS 261. 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 314 and 325, or consent of instructor. Marine erosion, transportation and deposition, continental shelves, slopes and ocean basins; marine environments. Shoreline processes and analyses.

Physics

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.

For a Major in Physics:

Requirements

PHYS 231—Engineering Physics I*	5
PHYS 232—Engineering Physics II*	5
PHYS 332—Electricity and Magnetism	4
PHYS 340—Experimental Physics I	2
PHYS 341—Experimental Physics II	2
PHYS 352—Modern Physics	3
PHYS 391—Classical Mechanics	3
PHYS 493—Quantum Mechanics	3
PHYS—Elective, 400-level, approved by adviser	3

Supplemental Requirements

CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
CHEM 112—General Chemistry II	3
CHEM 112A—General Chemistry II Lab	1
MATH 175—Analytic Geometry and Calculus I	4
MATH 275—Analytic Geometry and Calculus II	4
MATH 276—Analytic Geometry and Calculus III	4
MATH—Elective, 300-400 level, approved by adviser	3
BIOL—Elective approved by adviser	3

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

For a Minor in Physics:

Requirements

PHYS 231—Engineering Physics I*	5
PHYS 232—Engineering Physics II*	5
PHYS—Electives, 300-400 level, approved by adviser	11

*PHYS 201, 202, and 212 may be substituted for PHYS 231 and 232. (Substitution is recommended only to students who decide to major or minor in Physics after completing PHYS 201 and 202.)

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*

First Semester	
CHEM 111—General Chemistry I	3
CHEM 111A—General Chemistry I Lab	1
MATH 175—Analytic Geometry and Calculus I	4
ENG 101—Composition I	3
PHED—Activities Course	1
Social Sciences Elective	3
15	
Second Semester	
CHEM 111—General Chemistry II	3

CHEM 111A—General Chemistry II Lab.....	1
MATH 275—Analytic Geometry and Calculus II	4
ENG 192—Technical Composition	3
SCI 105—Introduction to Biological Science.....	3
Social Sciences Elective.....	3
	17

SOPHOMORE YEAR

First Semester	
PHYS 231—Engineering Physics I.....	5
MATH 276—Analytic Geometry and Calculus III	4
PHED—Activity Course.....	1
Literature Elective.....	3
Social Sciences Elective.....	3
	16

Second Semester	
PHYS 232—Engineering Physics II.....	5
MATH 363—Differential Equations.....	3
HLTH 150—Personal Health.....	2
PHIL 300—Philosophy of Science.....	2
Social Sciences Elective.....	3
	16

If teacher certification is desired, consult your adviser.

Associate of Science Degree in Engineering Science

The two-year engineering program is designed to provide a student with a basic background in mathematics, chemistry, physics, and English. Successful completion of the program will qualify students for admission, with junior standing, to most engineering schools and for the Associate of Science Degree in Engineering Science.

However, the Associate of Science Degree in Engineering Science can be either a transfer or a terminal program. Students electing a terminal associate degree can substitute courses of a more applied nature for the non-required courses. All substitutions must be approved by the faculty adviser.

Suggested Program**FIRST YEAR**

First Semester		Sem. Hrs.
ENG 101—Composition I		3
*MATH 175—Analytic Geometry and Calculus I.....		4
CHEM 111—General Chemistry I.....		3
CHEM 111 A—General Chemistry I Laboratory.....		1
IET 103—Technical Drawing I.....		3
PHED—Activity Course.....		1

Second Semester		Sem. Hrs.
ENG 192—Technical Composition		3
MATH 275—Analytic Geometry and Calculus II		4
CHEM 112—General Chemistry II.....		3
CHEM 112A—General Chemistry II Laboratory		1
HIS 142—Introduction to Early American History		3
HLTH 150—Personal Health		2

SECOND YEAR

First Semester		Sem. Hrs.
MATH 276—Analytic Geometry and Calculus III		4
HIS 142—Intro. to Recent American History.....		3
PHYS 231—Engineering Physics I.....		5
ECON 201—Principles of Economics I.....		3
PHED—Activity		1

Second Semester		Sem. Hrs.
MATH 363—Differential Equations.....		3
PHYS 232—Engineering Physics II.....		5
ECON 202—Principles of Economics II		3
PHIL 200—Introduction to Philosophy.....		3
PHIL 303—Social Ethics.....		3
MINIMUM TOTAL.....		64

*MATH 173 (Pre-calculus I) and/or MATH 174 (Pre-calculus II) may also be taken if additional preparation is needed before taking MATH 175.

Pre-Optometry

The Pre-Optometry Program is basically a two-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.

Course requirements and suggested course sequences:**FIRST YEAR**

First Semester		Sem. Hrs.
ENG 101—Composition I		3
CHEM 111—General Chemistry I.....		4
MATH 141—Plane Trigonometry.....		3
BIOL 208—Invertebrate Zoology		3
PSY 152—General Psychology.....		3
PHED—Activity course.....		1
		17

Second Semester		Sem. Hrs.
ENG 102—Composition II		3
CHEM 112—General Chemistry II.....		4
MATH 152—College Algebra		3
BIOL 209—Vertebrate Zoology		3
BIOL 206—Biological Etymology.....		2
PHED—Activity		1
		16

SECOND YEAR

First Semester		Sem. Hrs.
Literature Elective.....		3
PHYS 201—Elementary Physics I.....		4
MATH 175—Analytic Geometry and Calculus I		4
CHEM 326—Organic Chemistry I.....		4
		15

Second Semester		Sem. Hrs.
PHYS 202—Elementary Physics II.....		4
MATH 275—Analytic Geometry and Calculus II		4
CHEM 327—Organic Chemistry II.....		4
BIOL 317—Principles of Microbiology		4
		16
TOTAL—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.

PHYS 201. Elementary Physics I. (3-2-4); I, II, III. Prerequisite: working knowledge of algebra and trigonometry. Mechanics and heat. Newton's laws of motion, energy and momentum, and heat transfer.

PHYS 202. Elementary Physics II. (3-2-4); I, II, III. Prerequisite: PHYS 201. Electricity and magnetism, light, nuclear and atomic physics.

PHYS 212. General Physics Problems. (2-0-2); on demand, 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.)

PHYS 231. Engineering Physics I. (4-2-5); I. Co-requisite: 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 232. Engineering Physics II. (4-2-5); II. Prerequisite: PHYS 231. Electromagnetism, optics, atomic and nuclear physics.

PHYS 250. Light, Color, Cameras, and Perception. (3-0-3); I, II. A non-mathematical study of the phenomena of light and perception. Applications of light and color are presented in art, psychology, photography, and other areas.

PHYS 310. Physics for Radiologic Technologists. (2-2-3); II. Basic

physics for radiologic technologists; atomic and nuclear structure, electricity and magnetism. X-ray production, basic X-ray circuitry, diagnostic X-ray beams, X-ray interaction with matter, radiobiology and radiation protection in radiology.

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 I. (0-4-2); I. **Prerequisite:** PHYS 232. Selected experiments in mechanics, electricity and magnetism, and optics. The computer is utilized in analyzing data.

PHYS 341. Experimental Physics II. (0-4-2); on demand. **Prerequisite:** PHYS 232. Selected experiments in atomic and nuclear physics. Computer analysis of experimental data is treated.

PHYS 350. Nuclear Science. (3-2-4); II. **Prerequisite:** PHYS 202 or 232. Interdisciplinary course in nuclear science for students in pre-medicine, environmental studies, physics, chemistry, geology, pre-dentistry, and pre-veterinary medicine.

PHYS 352. Concepts of Modern Physics. (3-0-3); I, in alternate years. **Prerequisite:** PHYS 232. Special relativity, quantum mechanics, atomic and molecular structure, solid state, and nuclear physics.

PHYS 361. Fundamentals of Electronics. (1-4-3); II. **Prerequisites:** PHYS 202 or 232. Laboratory oriented electronic principles, components, basic circuits, servo systems, amplifiers, feedback control and digital circuits; transistor and vacuum tube devices.

PHYS 374. Physics for Secondary Teachers. (2-4-4); I, in alternate years. **Prerequisites:** PHYS 202 or 232. For prospective teachers of high school physics. Harvard Project Physics, PSSC.

PHYS 391. Classical Mechanics. (4-0-4); I, in alternate years. **Prerequisite:** PHYS 232. Vector analysis; statics and dynamics of particles and rigid bodies; oscillations; Lagrangian and Hamiltonian formulations.

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 and Statistical Mechanics. (3-0-3); on demand. **Prerequisite:** PHYS 232. A unified thermodynamics and statistical mechanics. Quantum systems, entropy, thermodynamic laws, kinetic theory. Fermi-Dirac and Bose-Einstein distributions.

PHYS 412. Light and Physical Optics. (3-0-3); on demand. **Prerequisite:** PHYS 232. Dualistic nature of light; interference, refraction, reflection, diffraction, polarization, laser action, and spectra.

PHYS 452. Nuclear Physics. (3-0-3); on demand. **Prerequisite:** PHYS 232. Binding energies, nuclear forces, transmutation of nuclei; natural and artificial radioactivity.

PHYS 481. Mathematical Physics. (3-0-3); on demand. **Prerequisite:** MATH 276. Series solutions of differential equations, Legendre polynomials, Bessel functions, partial differential equations, integral transforms, and applications of mathematics to physical problems.

PHYS 493. Quantum Mechanics. (3-0-3); on demand. **Prerequisite:** PHYS 391 or consent of the instructor. The wave function; Hermitian 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

SCI 103—Introduction to Physical Sciences (or equivalent)	3
SCI 105—Introduction to Biological Sciences (or equivalent)	3
SCI 551—Plant Natural History (or equivalent)	3
SCI 552—Animal Natural History (or equivalent)	3
Electives approved by the Department of Science Education	12
	24

Description of courses

(Courses in this section are recommended for non-science majors in meeting the general education requirements.)

NOTE: (3-0-3) following course title indicates: 3 hours lecture, 0 hours laboratory and 3 hours credit. Roman numerals I, II, and III indicate the course is normally offered: I-fall; II-spring; and III-summer.

Honors Seminar in Sciences and Mathematics. (3-0-3); I, II. A study of current environmental problems and issues, and possible solutions to these problems. In future semesters the topics and times may vary.

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 105. Introduction to Biological Sciences. (3-0-3); I, II, III. Fundamental life processes; photosynthesis, respiration, reproduction, growth, evolution. Emphasis on man.

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 presentation of methods and results of astronomical exploration of the solar system, our stellar system and the galaxies.

SCI 350. Heredity and Society. (3-0-3); I, II. **Prerequisite:** SCI 105 or equivalent. Evolutionary processes and intricacies of genetic transmission. Evolution in human thought, experience, and affairs.

SCI 355. Population, Resources, and Environment. (3-0-3); I, II, III. **Prerequisites:** SCI 103 and 105 or equivalent. Human ecology with special emphasis on relationships between man, his resources, and his environment.

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 hours); I, II, III. **Prerequisite:** consent of instructor. Topic to be approved prior to registration. Credit available in the sciences and mathematics.

SCI 551. Plant Natural History. (3-0-3); II, III in odd years. **Prerequisite:** SCI 105 or equivalent. The survey of major taxonomic groups, with emphasis on the natural history of local plants.

SCI 552. Animal Natural History. (3-0-3); I, III in even years. **Prerequisite:** SCI 105 or equivalent. The survey of major taxonomic groups, with emphasis on the natural history of local animals.

SCI 553. Workshop in Environmental Biology. (3-0-3); III. **Prerequisite:** permission of the instructor. Regional distribution and reserve depletion of wildlife, forest, land, water, air, and mineral resources; emphasis on pollution and environment. (Especially designed for in-service and pre-service teachers.)

SCI 570. Earth Science. (3-0-3); I, II, III. The fundamentals of the geological sciences. (Especially designed for in-service and preservice teachers.)

SCI 580. History of Science. (3-0-3); I, II, III. An interdisciplinary approach to the development of 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); I, II, III. A study of pedagogy, science content, and techniques applicable to the teaching of science to middle school or junior high children.

SCI 592. Science for the Secondary Teacher. (2-2-3); II, III. **Prerequisite:** permission of instructor. Concepts of teaching high school science with emphasis on laboratory techniques, test preparation, questioning, presentation methods, and care of equipment.

SCHOOL OF SOCIAL SCIENCES

Department of Geography Department of Government and Public Affairs Department of History Department of Military Science Department of Sociology, Social Work, and Corrections

Baccalaureate degree programs

Social Sciences—Area of Concentration
Geography—Major
Geography—Minor
History—Major
History—Minor
Government—Major
Government—Minor
Public Affairs—Major
Social Work—Area of Concentration
Sociology—Major
Sociology—Major with a Corrections emphasis
Sociology—Minor
Corrections—Area of Concentration
Corrections—Minor

Associate degree programs

Social Work
Corrections

An Area of Concentration in the Social Sciences Requirements

- A. A minimum of 18 hours in History 18
B. 12 hours each field in any three: 36
 Economics
 Geography
 Government and Public Affairs
 Sociology
C. 6 hours in the 4th field 6

Total—60

Sem. Hrs.

ECON 201—Principles I	3
ECON 202—Principles II	3
ECON 350—Microeconomic Theory	3
ECON 351—Macroeconomic Theory	3
GEO 100—Fundamentals	3
GEO 211—Economic Geography	3
GEO 300—World Geography	3
GEO—Advanced elective	3
GOVT 141—Government of the U.S.	3
GOVT 242—State and Local Government ..	3
GOVT 330—Parliamentary Democracies ..	3
GOVT—Advanced elective in international governments ..	3
HIS 131—Introduction to Civilization I ..	3
HIS 132—Introduction to Civilization II ..	3
HIS 141—Introduction to Early American History ..	3
HIS 142—Introduction to Recent American History ..	3
HIS—Advanced electives (3 hrs. must be American) ..	6
SOC 101—General Sociology	3
SOC 505—Sociological Theory	3
SOC—Advanced elective	3
SOC—Advanced elective	3

Geography

The Department of Geography offers a well-balanced undergraduate program which includes a 30-semester hour major and a 21-semester hour minor.

Requirements

Major in Geography

GEO 100—Fundamentals of Geography	3
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GEO 101—Physical Geography	3
GEO 211—Economic Geography	3
GEO 241—Anglo-America	3
GEO—Electives in Systematic Geography	9
GEO—Electives in Regional Geography	9
Minimum for a Major 30	

Minor in Geography

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

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

GEO 100—Fundamentals of Geography	3
ENG—Composition	3
PHED—Activity course	1
SCI—Physical Science elective	3
SOC SCI—Elective	3
MINOR—Elective	3
16	

Second Semester

GEO—Physical Geography	3
ENG—Composition	3
PHED—Activity course	1
SCI—Biological Science	3
HLTH150—Personal Health	2
MINOR—Elective	3
15	

SOPHOMORE YEAR

First Semester

GEO 211—Economic Geography	3
ENG—Literature elective	3
MATH—Elective	3
MINOR—Elective	3
SOC SCI—Elective	3
**Electives	2
17	

Second Semester

GEO 241—Anglo-America	3
HUM—Elective	3
SCI or	
MATH—Elective	3
MINOR—Elective	3
**Electives	4
16	

JUNIOR YEAR

First Semester

GEO—*Elective in Regional Geography	3
GEO—*Elective in Systematic Geography	3
MINOR—Elective	3
HUM—Elective	3
**Electives	4
16	

Second Semester	
GEO—*Elective in Regional Geography	3
GEO—*Elective in Systematic Geography	3
MINOR—Elective	3
**Electives	7
	16

SENIOR YEAR

First Semester	
GEO—*Advanced Elective in Systematic Geography	3
MINOR—Elective	3
**Electives	10
	16

Second Semester	
GEO—*Advanced Elective in Regional Geography	3
**Electives	13
	16

*Electives in Systematic and Regional Geography must be selected with the approval of the student's faculty adviser.

**Students desiring a Teacher's Certificate must complete the required courses in professional education courses 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.

GEO 100. Fundamentals of Geography. (3-0-3); I, II, III. Man's varied responses and adjustments to his natural and cultural environment; human activity within major regions of the world. Basic to further study in geography.

GEO 101. Physical Geography. (3-0-3); I, II, III. Physical elements of the earth and their distribution; weather, climate, landforms, earth materials, water resources and natural vegetation analyzed and interpreted as elements of human habitation; correlated field trips and laboratory studies.

GEO 211. Economic Geography. (3-0-3); I, II, III. World commodities and their regional distribution. Analysis of land uses, agriculture, manufacturing, and extractive industries against a background of natural and cultural environments; consideration of economic factors in current international affairs.

GEO 241. Anglo-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. Planned primarily to guide the elementary teacher toward an understanding of the nature of regional geography. Brief regional description of the earth's surface, including both man-made and natural features.

GEO 310. Australia. (3-0-3); I. Resources of Australia, New Zealand, and islands of the Pacific; significance of position and political connections of these lands.

GEO 319. Middle America. (3-0-3); II. Mexico, the Central American Republics, and the islands of the Caribbean; emphasis upon cultural and historical traditions.

GEO 320. South America. (3-0-3); I. Regional analysis on national and continental basis with treatment of the physical, cultural, and economic characteristics; stress upon prospects of expansion for settlement, development of resources, and growth of industries.

GEO 328. Africa. (3-0-3); 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 the region.

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.

***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.

***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 strength 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 field of geography in its various branches. Designed for beginning teachers and students not having a background for advanced work in geography.

***GEO 505. Conservation of Natural Resources.** (3-0-3); on demand. Natural resources basic to human welfare; emphasis on lands, water, minerals, forests, and wildlife including their interrelationships.

***GEO 510. Urban Geography.** (3-0-3); II. Origin and development of cities, urban ecology, central place theory, functional classifications, and a consideration of site, situation, and land utilization of selected cities.

***GEO 540. World Manufacturing.** (3-0-3); on demand. Interpretive analysis of the distribution and function of selected manufacturing industries; location theory; trends in regional industrial changes.

GEO 550. Geography for Teachers. (3-0-3); on demand. A study of the basic concepts, materials and techniques for the teaching of geography.

***GEO 590. Applied Meteorology.** (3-0-3); 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 & 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 political science 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 that 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 inter-disciplinary major in public affairs.

Internship programs are available for qualified students desiring to enter governmental service. A structured work-study experience in state and local government is obtained by the participating student. Opportunities are available to gain valuable experience with such public officials as: city managers, mayors, other governmental officers, county and state agencies.

Requirements:

For a Major in Government

	Sem. Hrs.
GOVT 141—Government of the United States	3
GOVT 242—State and Local Government	3
GOVT 330—Parliamentary Democracies	3
or	
GOVT 450—International Relations	3
Approved Electives in Government	21
Minimum for a Major 30	

For a Minor in Government

	Sem. Hrs.
GOVT 141—Government of the United States	3
GOVT 242—State and Local Government	3
GOVT 330—Parliamentary Democracies	3
or	
GOVT 450—International Relations	3
Approved Electives in Government	12
Minimum for a Minor 21	

Major in Public Affairs

The major in public affairs program seeks to attract and prepare talented and socially-committed men and women for public services. This program offers a multi-disciplinary approach for those persons interested in employment at all levels of government. The scope and flexibility of this program allows participants to plan their studies consistent with desired career objectives.

Required Courses:

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

Suggested Electives

ACCT 528—Government Accounting
 GEO 349—Cartography I
 GEO 510—Urban Geography
 GOVT 346—Intergovernmental Relations
 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 adviser to select an appropriate second major or minor in such disciplines as: accounting, corrections, economics, environment, geography, recreation, and social welfare.

Suggested Program for a Major in Government

FRESHMAN YEAR

First Semester	Sem. Hrs.
GOVT 141—Government of the United States	3
ENG 101—Composition I	3
SCI 103—Intro. to Physical Science	3
HLTH 150—Personal Health	2
PHED—Activity	1
SOC 101—General Sociology	3
	15

Second Semester

	Sem. Hrs.
GOVT 242—State and Local Government	3
ENG 102—Composition II	3
SCI 105—Intro. to Biological Sciences	3
MATH 152—College Algebra	3
PHED—Activity Course	1
ECON 101—Intro. to the American Economy	3
	16

SOPHOMORE YEAR

First Semester	Sem. Hrs.
GOVT 330—Parliamentary Democracies	3
GOVT 275—Intro. to Political Research	3
ENG 202—Intro. to Literature	3
Minor	3
Minor	3
	15

Second Semester

	Sem. Hrs.
GOVT 343—American Political Parties	3
GOVT 344—Kentucky Government	3
MINOR	3
MINOR	3
MINOR	3
	15

JUNIOR YEAR

First Semester	Sem. Hrs.
GOVT 300—Municipal Government	3
MINOR	3
MINOR	3
SCI 355—Population, Resources, and Environment	3
SPCH 370—Business and Professional Speech	3
SOC 203—Contemporary Social Problems	3
	18

Second Semester

	Sem. Hrs.
GOVT 380—Am. Courts and Civil Rights	3
MINOR	3
GOVT 348—The Legislative Process	3
PHIL 200—Intro. to Philosophy	3
PSY 154—Life-Oriented General Psychology	3
SOC 374—American Minority Problems	3
	18

SENIOR YEAR

First Semester	Sem. Hrs.
GOVT 450—International Relations	3
MINOR	3
GOVT 540—Public Administration	3

ENG 599—Composition, Usage, and Reasoning	3
HUM—Elective	3
Elective	3
	18

Second Semester

GOVT 444—The American Constitution	3
MINOR	3
GOVT 546—Public Personnel Administration	3
HUM—Elective	3
Elective	3
	15

Description of Courses

NOTE: (3-0-3) following course title indicates: 3 hours lecture, 0 hours laboratory and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally offered: I-fall semester; II-spring semester and III-summer term.

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 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 275. Introduction to Political Research. (3-0-3); I. **Prerequisite:** GOVT 141. Government of the United States, or consent of the instructor. Methods and mechanics of political research, writing and oral expression.

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); I. **Prerequisite:** GOVT 141 or consent of the instructor. A study of political personality and attitudes, public opinion, voting behavior, political socialization and culture as it relates to the overall understanding of the political process.

GOVT 310. Current World Problems. (3-0-3); I, II, III. (Political Science majors and minors will not receive credit for this course.) Emphasis on United States domestic and international problems since World War II.

GOVT 330. Parliamentary Democracies. (3-0-3); I, II. Constitutional development, political organization, legislatures, administration, courts of the governments of the United Kingdom, France, and Germany.

GOVT 334. Soviet Union and Eastern European Governments. (3-0-3); II. Soviet political system: its contemporary ideological base, governing structures and political processes; analysis of other governments in Eastern Europe.

GOVT 340. Public Opinion and Propaganda. (3-0-3); II. The nature, formation, and role of public opinion, techniques, strategies and effects of propaganda.

GOVT 343. American Political Parties. (3-0-3); II. 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 352. Survey in Political Theory. (3-0-3); I. Early political ideas of Greeks, Romans, and Medieval Church; evolution of states and acquisition of sovereignty; contract theory; rise of liberalism, totalitarianism, and Marxist Socialism.

GOVT 360. United Nations and World Organizations. (3-0-3); II. Evolution of international organizations, from League of Nations to the United Nations; problems and issues of present world organization.

GOVT 364. Intergovernmental Relations. (3-0-3); I. **Prerequisites:** GOVT 141 and 242. Structure, allocation of power, and the political process relating to activities and programs involving different levels of government.

GOVT 366. Political Geography. (3-0-3); I, II. (See GEO 366.)

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. **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, devel-

opment, ideologies and structure of Asian governments, including Japan, China, India.

GOVT 444. The American Constitution. (3-0-3); II. **Prerequisite:** GOVT 141 or consent of the 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. **Prerequisite:** 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. (One to three hours); on demand. **Prerequisite:** consent of the instructor. Original research project or readings in a particular subject area.

GOVT 500. 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 505. Politics of Ecology. (3-0-3); II. **Prerequisite:** GOVT 141 or consent of the instructor. A political analysis of the problems of the environmental crises.

GOVT 510. Law of Corrections. (3-0-3); on demand. See Corrections 510.

GOVT 540. Public Administration. (3-0-3); I. **Prerequisite:** GOVT 141 or consent of the instructor. Historical evolution; theory of organization and administration; personnel, financial, and legal aspects of public administration.

GOVT 541. Public Finance. (3-0-3); I. **Prerequisites:** ECON 201 and 202. See Economics 541.

GOVT 546. Public Personnel Administration. (3-0-3); II, III. **Prerequisite:** GOVT 540 or consent of the instructor. Manpower utilization; concepts, principles and practices of the merit system; leadership; decision-making process; motivation of public employees.

GOVT 555. Internship in Public Affairs. (One to six hours); on demand. **Prerequisite:** consent of the instructor. On-the-job work study experience in government.

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 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:

HIS 131—Intro. to Civilization I	3
HIS 132—Intro. to Civilization II	3
HIS 141—Intro. to Early American History	3
HIS 142—Intro. to Recent American History	3
Advanced credit in history	18
Minimum for a major 30	

The distribution of the 18 hours of advanced credit for the major will be planned in conjunction with the department chairman and/or departmental advisers 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 required in addition to the major. It

is recommended that HIS 375 be taken the semester prior to the professional semester.

For a Minor:

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	

The Provisional High School Certificate with a Major in History

FRESHMAN YEAR

First Semester	
HIS 131—Introduction to Civilization I.....	3
OR	
HIS 141—Introduction to Early American History	
SOC SCI—Elective.....	3
ENG—Composition.....	3
PHED—Activity Course.....	1
SCI—Physical Science.....	3
Elective.....	3
	16

Second Semester	
HIS 132—Introduction to Civilization II.....	3
OR	
HIS 142—Introduction to Recent American History	
ENG—Composition.....	3
PHED—Activity course.....	1
SCI—Biological Science.....	3
HLTH 150—Personal Health.....	2
Elective.....	3
	15

SOPHOMORE YEAR

First Semester	
HIS 141—Introduction to Early American History.....	3
OR	
HIS 131—Introduction to Civilization I.....	3
SOC SCI—Elective.....	3
EDSE—Foundations of Secondary Education.....	2
HUM—Elective.....	3
ENG—Literature elective.....	3
Elective.....	2
	16

Second Semester	
HIS 142—Introduction to Recent American History.....	3
OR	
HIS 132—Introduction to Civilization II.....	3
HIS—Elective.....	3
SCI—Elective.....	3
HUM—Elective.....	3
MINOR—Elective.....	3
Elective.....	2
	17

Description of Courses

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

Honors seminar in 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. Introduction to Civilization I. (3-0-3); I, II, III. From early man to the end of the religious wars.

HIS 132. Intro. to Civilization II. (3-0-3); I, II, III. From the Age of Reason to the Atomic Age.

HIS 141. Intro. to Early American History. (3-0-3); I, II, III. A survey of the basic tenets of American life from the Age of Discovery to the War Between the States.

HIS 142. Intro. to Recent American History. (3-0-3); I, II, III. A continuation of History 141, culminating with today's social and economic problems.

HIS 325. The Old South. (3-0-3); I, III. The growth of southern sectionalism and the development of regional characteristics.

HIS 326. The Civil War and Reconstruction. (3-0-3); II. The role of the Southern states in the rebirth of the American nation.

HIS 327. The Negro in American History. (3-0-3); I, III. The origin of African slavery in America to its demise in the Civil War.

HIS 328. The Negro Faces Freedom. (3-0-3); II, III. The revolt of the American Negro in his efforts 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); II. 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); I. 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, II. The political isms, nationalistic trends and unification movements leading to World War I.

HIS 342. The Age of Jackson. (3-0-3); I. An 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); 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 349. Vietnam and Watergate: Kennedy, Johnson, Nixon. (3-0-3); II. An intensive study of the Vietnam War and the Watergate scandal in the context of domestic and foreign policy developments in America since 1945.

HIS 351. England to 1660. (3-0-3); I. The political, social and economic institutions of England to the fall of the Puritan Commonwealth.

HIS 352. England Since 1660. (3-0-3); II. A history of England from the Restoration to the rise of the British Commonwealth.

HIS 353. Russia to 1917. (3-0-3); I. Russia from Kievan times to the overthrow of the Romanov dynasty.

HIS 354. Russia Since 1917. (3-0-3); II. A detailed history of Soviet Russia from the revolution to the Cold War.

HIS 363. History of Witchcraft. (3-0-3); I, II. 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 in the social sciences with a minimum of eighteen 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 380. History of Journalism. (3-0-3); I. Origins and development of American journalism as a profession, mainly through newspapers and their roles in history.

HIS 382. War in the Modern World. (3-0-3); II. 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); I, II. Technology in the modern world; its development as a response to 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 Corrections 388.)

HIS 540. Colonial America. (3-0-3); I. The nation from the Age of Discovery to the Revolutionary War.

HIS 541. American Revolution and Federal Period. (3-0-3); II. A continuation of 540 covering the period from the American Revolution to the Era of Good Feelings.

HIS 543. The United States, 1876-1900. (3-0-3); II. Emphasis is placed upon the rise of big business with its resultant epoch of America as a world power.

HIS 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 Nations.

HIS 549. American Life and Thought. (3-0-3); I. 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); I, III. The issues growing out of differences concerning slavery within voluntary societies.

HIS 576. American History: Directed Readings. (One to three hours); I, II, III. Prerequisite: open only to history majors and minors with permission of the chairman.

HIS 577. European History: Directed Readings. (One to three hours); I, II, III. Prerequisite: open only to history majors and minors with permission of the chairman.

HIS 578. Non-Western History: Directed Readings. (One to three hours); I, II, III. Prerequisite: open only to history majors and minors with permission of the chairman.

HIS 580. American Business History. (3-0-3); I. Early colonial commerce; rise of business; monopoly and antitrust laws; the labor movement; agricultural development; government and economy; foreign policy and trade; effects of war; business cycles; basic principles of the American economy.

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.

Military Science Minor

Requirements for a Minor:

	Sem.	Hrs.
*6 to 8 credit hours from the following:	6-8	
MS 101—Intro. to Military Science	2	
MS 102—U.S. Army	2	
MS 111—Basic Rifle Marksmanship	1	
MS 201—Leadership Principles and Techniques	2	

MS 202—Instructional Techniques and Survey of Army Career Fields	2
MS 301—Advanced Military Science I	2
MS 302—Advanced Military Science II	2
MS 401—Advanced Military Science I	2
MS 402—Advanced Military Science II	2
Electives of particular interest and value to military service as approved by military science adviser	7-9
Minimum for minor	23

The following criteria must be met by all students in order to minor in military science:

1. Acceptance into the advanced course.
2. A cumulative grade-point average of 2.3 or higher.
3. A grade-point average of 2.5 or better in his major field or area of concentration.
4. A grade-point average of 3.0 or better in military science.

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

Description of Courses

NOTE: (3-2-4) following course title means three hours class, two hours laboratory, four hours credit. Roman numerals I, II, III following the credit allowance indicate the semester in which the course is normally scheduled: I-fall; II-spring; III-summer.

MS 101. Introduction to Military Science. (2-0-2); I. Analyzes the purpose of our nation's security and defense establishment. Explains the structure and organization of our present-day military forces.

MS 102. U.S. Army; Its Evolution and Development. (2-0-2); II. Study of the United States Army and its roles from colonial times to the present.

MS 111. Basic Rifle Marksmanship. (1-0-1). 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 and techniques related to both military and civilian applications.

MS 202. Instructional Techniques and Survey of Army Career Fields. (2-0-2); II. Study of instructional processes with a practical experience enabling the student to effectively increase his 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 his entry on active duty as a commissioned officer.

NS 100. National Security. (One credit.) Structured around a series of guest lecturers whose subjects concern the establishment and maintenance of our nation's security.

*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.

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.

Major in Sociology

Requirements	Sem. Hrs.
SOC 101—General Sociology	3
SOC 305—Cultural Anthropology	3
SOC 405—Sociological Theory	3
SOC 450—Research Methodology	3
SOC—Electives of which 12 semester hours must be on the 300 level or above	18
	30

Minor in Sociology

Requirements	Sem. Hrs.
SOC 101—General Sociology	3
SOC 203—Contemporary Social Problems	3
SOC 405—Sociological Theory	3
SOC 450—Research Methodology	3
SOC—Electives 300 level or above	9
	21

For a Major in Sociology

Suggested Program*

The following program has been devised to help students in selecting courses and arranging their schedules. Close adherence to it will aid the student in meeting requirements for graduation.

FRESHMAN YEAR

First Semester	
SOC 101—General Sociology	3
ENG 101—Composition I	3
SCI 103—Introduction to Physical Sciences	3
Humanities elective	3
Social Science elective	3
PHED—Activity Course	1
	16

Second Semester	
SOC 203—Contemporary Social Problems	3
ENG 102—Composition II	3
SCI 105—Introduction to Biological Sciences	3
Humanities elective	3
Social Science elective	3
PHED—Activity Course	1
	16

SOPHOMORE YEAR

First Semester	Sem. Hrs.
SOC—Elective	3
HLTH 150—Personal Health	2
ENG—Literature elective	3
Science elective	3
Minor requirement	3
General elective	2
	16

Second Semester	
SOC 305—Cultural Anthropology	3
SOC—Elective	3
Humanities elective	3
Math elective	3
General elective or minor requirement	4
	16

*Students seeking teacher certification should consult their advisers.

JUNIOR YEAR

First Semester	
SOC—Elective	3
Minor requirements	6
Elective	7
	16

Second Semester	
SOC—Elective	3
Minor requirements	6
Elective	7
	16

SENIOR YEAR

First Semester	
SOC 405—Sociological Theory	3
SOC—Elective	3
Minor requirements and electives	10
	16

Second Semester	
SOC 450—Research Methodology	3
Minor requirements and electives	13
	16

Major in Sociology With an Emphasis in Corrections

Requirements	Sem. Hrs.
SOC 101—General Sociology	3
SOC 203—Contemporary Social Problems	3
SOC 354—The Individual and Society	3
SOC 374—American Minority Problems	3
SOC 405—Sociological Theory	3
SOC 450—Research Methodology	3
COR 201—Introduction to Corrections	3
COR 301—Contemporary Treatment Concepts	3
COR 320—Probation and Parole	3
COR 590—Practicum in Corrections	6
Elective	3
	36

Suggested Program

The following program has been devised to help students in selecting courses and arranging their schedule. Close adherence to it will aid the student in meeting requirements for graduation.

FRESHMAN YEAR

First Semester	
SOC 101—General Sociology	3
ENG 101—Composition I	3
SCI 103—Introduction to Physical Sciences	3
Humanities elective	3
Social Science elective	3
PHED—Activity Course	1
	16

Second Semester	
SOC 203—Contemporary Social Problems	3
ENG 102—Composition II	3
SCI 105—Introduction to Biological Sciences	3
Humanities elective	3
Social Science elective	3
PHED—Activity Course	1
	16

SOPHOMORE YEAR

First Semester	
COR 201—Introduction to Corrections	3
ENG—Literature Elective	3
HLTH 150—Personal Health	2
Science elective	3
Minor requirement	3
General elective	2
	16

Second Semester	Sem. Hrs.
COR 301—Contemporary Treatment Concepts	3
SOC 354—The Individual and Society	3
Humanities elective	3
Mathematics elective	3
General elective or minor requirement	4
	16

JUNIOR YEAR

First Semester	
COR 320—Probation and Parole.....	3
SOC 374—American Minority Problems.....	3
General electives and minor requirements	10
	16
Second Semester	
COR—Elective.....	3
General electives and minor requirements	13
	16

SENIOR YEAR

First Semester	
SOC 405—Sociological Theory.....	3
General electives and minor requirements	13
	16
Second Semester	
COR 590—Practicum in Corrections.....	6
SOC 450—Research Methodology.....	3
General electives and minor requirements	7
	16

Social Work

Social work is a growing human service field with increasing opportunities for persons with baccalaureate and associate degrees.

The program of study combines liberal arts, social sciences, and social work philosophies and principles of practice to provide the student with a sound foundation for social work practice.

Bachelor of Social Work

Requirements	Sem. Hrs.
SWK 210—Orientation to Social Welfare.....	4
SWK 230—Social Work Values and Policy.....	3
SWK 322—Human Behavior in the Social Environment.....	3
SWK 325—Social Work Practice I.....	3
SWK 425—Social Work Practice II.....	3
SWK/SOC 450—Research Methodology.....	3
SWK 490—Senior Seminar.....	1
SWK 510—Practicum in Social Work.....	8
SWK 525—Social Work Practice III.....	3
SWK 530—Social Policy and Planning.....	3
SWK—Electives.....	6
SOC 101—General Sociology.....	3
SOC 203—Contemporary Social Problems.....	3
SOC 305—Cultural Anthropology.....	3
SOC 354—The Individual and Society.....	3
SOC 374—American Minority Problems.....	3
SOC 405—Sociological Theory.....	3
or	
SOC 510—Principles of Sociology.....	3
ENG 591 or 592—Technical Writing.....	3
ECON 101—Introduction to the American Economy.....	3
GOVT 380—American Courts and Civil Rights.....	3
PHIL 200—Introduction to Philosophy.....	3
PSY 154—Life-Oriented General Psychology.....	3
PSY 390—Psychology of Personality.....	3
or	
PSY 590—Abnormal Psychology.....	3
General education requirements and electives.....	49
	128

Suggested Program

The following program has been devised to help students in selecting courses and arranging their schedules. Close adherence to it will aid the student in meeting requirements for graduation.

FRESHMAN YEAR

First Semester	
SOC 101—General Sociology.....	3
ENG 101—Composition I.....	3
SCI 105—Introduction to Biological Sciences.....	3
PSY 154—Life-Oriented General Psychology.....	3
HLTH 150—Personal Health.....	2

PHED—Activity Course.....	1
	16

Second Semester

	Sem. Hrs.
SWK 210—Orientation to Social Welfare.....	4
SOC 203—Contemporary Social Problems.....	3
ENG 102—Composition II.....	3
ECON 101—Introduction to the American Economy.....	3
General elective.....	3
	16

SOPHOMORE YEAR

First Semester

SWK 230—Social Work Values and Policy.....	3
ENG 202—Introduction to Literature.....	3
MATH—Elective.....	3
PHIL 200—Introduction Philosophy.....	3
SCI 103—Introduction to Physical Sciences.....	3
PHED—Activity Course.....	1
	16

Second Semester

SWK 322—Human Behavior in the Social Environment.....	3
GOVT 242—State and Local Government.....	3
SOC 305—Cultural Anthropology.....	3
HUM—Elective (Basic Speech suggested).....	3
General elective.....	3
	15

JUNIOR YEAR

First Semester

SWK 325—Social Work Practice I.....	3
SOC 374—American Minority Problems.....	3
PSY 390—Psychology of Personality.....	3
or	
PSY 590—Abnormal Psychology.....	3
SWK—Elective.....	3
General elective.....	3
	15

Second Semester

	Sem. Hrs.
SWK 425—Social Work Practice II.....	3
SOC 354—The Individual and Society.....	3
SOC 405—Sociological Theory.....	3
OR	
SOC 510—Principles of Sociology.....	3
GOVT 380—American Courts and Civil Rights.....	3
SWK/SOC 450—Research Methodology.....	3
General elective.....	3
	18

SENIOR YEAR

First Semester

SWK 525—Social Work Practice III.....	3
SWK 510—Practicum in Social Work.....	4
SWK 530—Social Policy and Planning.....	3
General electives.....	6
	16

Second Semester

SWK 510—Practicum in Social Work.....	4
SWK 490—Senior Seminar.....	1
ENG 591 or 592—Technical Writing.....	3
SWK—Electives.....	3
General electives.....	6
	17

Associate of Applied Arts in Social Work

Requirements

	Sem. Hrs.
SWK 210—Orientation to Social Welfare.....	4
SWK 230—Social Work Values and Policy.....	3
SWK 310—Field Experience in Social Work.....	3
SWK 315—Child Welfare Services.....	3
SWK 322—Human Behavior in the Social Environment.....	3
SWK 325—Social Work Practice I.....	3
SOC 101—General Sociology.....	3
SOC 203—Contemporary Social Problems.....	3
SOC 354—The Individual and Society.....	3
ECON 101—Introduction to the American Economy.....	3
ENG 101—Composition I.....	3
ENG 102—Composition II.....	3

OR	
ENG 192—Technical Writing.....	3
PHIL 200—Introduction to Philosophy.....	3
PLS 141—State and Local Government.....	3
PSY 154—Life-Oriented General Psychology.....	3
HLTH 150—Personal Health.....	2
MATH—Elective.....	3
Approved electives.....	14
	65

Corrections

Corrections is a rapidly expanding field providing challenging opportunities for those desiring a career focused upon the treatment and rehabilitation of criminal offenders. The corrections program at Morehead State University is designed to provide well-trained, highly skilled personnel to fill the many new positions created by this expansion and to provide retraining and in-service training for existing correctional personnel.

The program of study combines the liberal arts, social sciences, and corrections philosophies and principles of practice. In addition to participating in traditional classroom learning situations, students are required to work in correctional settings so that they may acquire practical experience in the profession.

Area of Concentration in Corrections

Requirements	Sem. Hrs.
COR 201—Introduction to Corrections.....	3
COR 301—Contemporary Treatment Concepts.....	3
COR 320—Probation and Parole.....	3
COR 450—Research Methodology.....	3
COR 510—Law of Corrections.....	3
COR 515—Correctional Counseling Services.....	3
COR 590—Practicum in Corrections.....	6
COR—Advanced electives.....	12
SOC 101—General Sociology.....	3
SOC 203—Contemporary Social Problems.....	3
SOC 354—The Individual and Society.....	3
SOC 374—American Minority Problems.....	3
SOC 405—Sociological Theory.....	3
SOC—Advanced electives.....	6
SWK 520—Social Work Administration and Management.....	3
SWK 535—Group Dynamics.....	3
ENG 591 or 592—Technical Writing.....	3
PSY 154—Life-Oriented General Psychology.....	3
or	
PSY 155—Science-Oriented General Psychology.....	3
PSY 590—Abnormal Psychology.....	3
General requirements and electives.....	56
	128

Suggested Program

The following program has been devised to help students in selecting courses and arranging their schedules. Close adherence to it will aid the student in meeting requirements for graduation.

FRESHMAN YEAR

First Semester	
SOC 101—General Sociology.....	3
ENG 101—Composition I.....	3
SCI 103—Introduction to Physical Science.....	3
Humanities elective.....	3
Social Science elective.....	3
PHED—Activity Course.....	1
	16

Second Semester	Sem. Hrs.
COR 201—Introduction to Corrections.....	3
SOC 203—Contemporary Social Problems.....	3
ENG 102—Composition II.....	3
SCI 105—Introduction to Biological Science.....	3
HLTH 150—Personal Health.....	2
PHED—Activity Course.....	1
	15

SOPHOMORE YEAR

First Semester	
COR 301—Contemporary Treatment Concepts.....	3

SOC 354—The Individual and Society.....	3
PSY 154—Life-Oriented Psychology.....	3
or	
PSY 155—Science-Oriented Psychology.....	3
ENG 202—Introduction to Literature.....	3
General elective.....	4
	16

Second Semester

COR 320—Probation and Parole.....	3
SOC 374—American Minority Problems.....	3
Corrections elective.....	3
Sociology elective.....	3
Social Sciences elective.....	3
	15

JUNIOR YEAR

First Semester

Corrections elective.....	3
Sociology elective.....	3
Humanities elective.....	3
Math elective.....	3
General elective.....	3
	15

Second Semester

COR 510—Law of Corrections.....	3
SOC 405—Sociological Theory.....	3
SWK 520—Social Work Administration and Management.....	3
Corrections elective.....	3
Humanities elective.....	3
	15

SENIOR YEAR

First Semester

	Sem. Hrs.
COR 450—Research Methodology.....	3
COR 515—Correctional Counseling Services.....	3
SWK 535—Group Dynamics.....	3
ENG 591 or 592—Technical Writing.....	3
Humanities elective.....	3
Science elective.....	3
	18

Second Semester

COR 590—Practicum in Corrections.....	6
PSY 590—Abnormal Psychology.....	3
Corrections elective.....	3
Social Science elective.....	3
	18

For a Minor in Corrections:

COR 201—Introduction to Corrections.....	3
COR 301—Contemporary Treatment Concepts.....	3
COR 320—Probation and Parole.....	3
Advanced Electives in Corrections.....	12
	21

Associate of Applied Arts in Corrections—Two-Year Program

Requirements	Sem. Hrs.
COR 201—Introduction to Corrections.....	3
COR 301—Contemporary Treatment Concepts.....	3
COR 320—Probation and Parole.....	3
COR 390—Field Experience in Corrections.....	3
Advanced Corrections Electives.....	9
SOC 101—General Sociology.....	3
SOC 203—Contemporary Social Problems.....	3
SOC 354—The Individual and Society.....	3
SOC 374—American Minority Problems.....	3
SOC 210—Orientation to Social Welfare.....	3
SOC 315—Child Welfare Services.....	3
GOVT 380—American Courts and Civil Rights.....	3
PSY 154—Life-Oriented Psychology.....	3
OR	
PSY 155—Science-Oriented Psychology.....	3
ENG 101—Composition I.....	3
ENG 102—Composition II.....	3
ENG 192—Technical Composition.....	3
MATH 131—General Mathematics.....	3
Approved electives.....	7
	64

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. Prerequisite for all advanced sociology courses.

SOC 170. Rural Sociology. (3-0-3); I. The cultural and social organizations of rural and urban societies with emphasis on the impact of economic changes and population movements.

SOC 203. Contemporary Social Problems. (3-0-3); I, II, III. A systematic and objective interpretation of contemporary social problems such as crime, delinquency, poverty, race relations, family problems, problems of mass communication, and health 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); 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, II. 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 society, including a critical examination of trends and methods of treatment of delinquency.

SOC 310. The Sociology of Deviance. (3-0-3); I, II. Designed to introduce the student to the sociological perspective with respect to the definition, causes, and social consequences of deviance.

SOC 323. Urban Sociology. (3-0-3); II. The rise of modern cities; theoretical explanations of urbanization; and the analysis of modern urban problems.

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

SOC 374. American Minority Problems. (3-0-3); I, II. Examines various processes of social and cultural contact between peoples; theories dealing with the sources of prejudice and discrimination; basic processes of inter-group 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); I. Modern industrialization as social behavior. Social conditions in the rise of industrialism and effects on the worker; collective bargaining and industrial conflict; the industrial community; social classes and the industrial order.

SOC 401. Criminology. (3-0-3); I, II, III. 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 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. (One to three hours); I, II, III. Arranged with the department to study some particular aspect of the field of sociology.

SOC 510. Principles of Sociology. (3-0-3); I. This course is designed to give sociology majors an integrated perspective of the discipline and to provide an advanced introduction to graduate students entering sociology from related disciplines.

SOC 515. Family Dynamics. (3-0-3); II. An intensive analysis of the family in its social context. Emphases are placed upon social interaction within the family, socio-cultural and socio-economic factors which bear influence upon it, and the relationship of the family to the total social system.

SOC 525. The Community. (3-0-3); 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, II. (See SWK 540.)

SOC 545. Death and Dying. (3-0-3); on demand. (See SWK 545.)

Social Work

SWK 210. Orientation to Social Welfare. (3-1-4); I, II, III. An introduction to the philosophy and early development of social welfare services, and the organization and function of social work practices in both the primary and secondary settings.

SWK 230. Social Work Values and Social Policy. (3-0-3); I, II. A study of values and policy formulation. Dominant values of the American society which influence social policy will be compared with professional social work value commitment and social policy development and implementation.

SWK 310. Field Experience in Social Work. (0-0-3); I, II, III. Observation and work experience in a social work agency under the supervision of a professional worker.

SWK 315. Child Welfare Services. (3-0-3); I, II. Local, state, and national programs and services for care, protection, and support of children.

SWK 322. Human Behavior in the Social Environment. (3-0-3); I, II. A study of the development of human behavior in the context of social systems. Special emphasis is placed on the 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 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 values of the profession with a concern for persons as social beings in their roles as individual members of groups and communities.

SWK 450. Research Methodology. (3-0-3); I, II, III. (See SOC 450.)

SWK 490. Senior Seminar. (1-0-1); I, II. This course is the last in the social work sequence. The various educational experiences the student has had during the time he has been in the program will be examined in relation to social work practice.

SWK 500. Special Problems. (1-3); I, II, III. Arranged with department to study a particular topic in the social work field.

SWK 510. Practicum in Social Work. (4-8); I, II. Actual work experiences in the various agencies of social welfare under supervision of a trained and certified professional worker. Comparable to student teaching in professional education.

SWK 515. Correctional Counseling. (3-0-3); II. (See Corrections 515.)

SWK 520. Social Work Administration and Management. (3-0-3); I. 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 social work practice methods as they are applied to organizations, groups and individuals.

SWK 530. Social Policy and Planning. (3-0-3); I, II. An intensive study of the emergence of social welfare programs in the United States and the events that have shaped their development. A major emphasis is given to the conceptual tools of analysis as a basis for evaluating social policy alternatives and developing new ones.

SWK 535. Group Dynamics. (3-0-3); I. This course is designed to give the student an understanding of group methods and the theories underlying the use of groups in the helping process. Special emphasis will be given to the processes that affect the development and functioning of all types of groups.

SWK 540. Gerontology. (3-0-3); I, II. An analysis of aging designed to provide the student with a knowledge of the special factors involved in the aging process as well as the social work techniques designed to aid such individuals to cope with the changes inherent in the aging process.

SWK 545. Death and Dying. (3-0-3); on demand. The analysis of death and dying as social processes and problems and strategies for working with dying persons.

Corrections

COR 201. Introduction to Corrections. (3-0-3); I, II. An analysis of the historical, theoretical, and philosophical foundations of the American correctional system. An examination of the correctional system and its role in society.

COR 301. Contemporary Treatment Concepts. (3-0-3); I, II. A survey of contemporary treatment methods for adult and juvenile offenders. An analysis of new programs, half-way houses, detoxification centers, furloughs, conjugal visiting, and others.

COR 306. Juvenile Delinquency. (3-0-3); I, II. (See SOC 306.)

COR 310. The Sociology of Deviance. (3-0-3); I, 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); I. This course provides the student with a background knowledge of the development of the 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); on demand. 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, II, III. (See SOC 401.)

CORR 450. Research Methodology. (3-0-3); I, II, III. (See SOC 450.)

COR 502. Readings in Corrections. (One to three hours); on demand. A critical analysis of research literature on crime-causation and control. Emphasis is placed upon theoretical contributions and methodological foundations.

COR 510. Law of Corrections. (3-0-3); on demand. 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); on demand. 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 twenty hours per week will be spent working 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

- Joe F. Bendixen, professor (1971), Ph.D., Iowa State University.
 Carl Culver, assistant professor (1976), D.V.M., Auburn University.
 Charles M. Derrickson, professor (1965), Ph.D., Michigan State University.
 Benjamin W. Harmon, assistant professor (1978), Ph.D., Virginia Polytechnic Institute and State University.
 James C. Martin, associate professor (1975), Ph.D., University of Missouri.
 Charles F. Mattingly, assistant professor (1975), Ph.D., University of Kentucky.
 Elizabeth J. McBride, assistant instructor (1975), B.S., William Woods College.
 William Franklin Moore, professor (1977), Ph.D., Virginia Polytechnic Institute and State University.
 Jim Bob Nall, assistant instructor (1977), A.A.S., Texas State Technical Institute.
 Martha Norris, assistant professor (1976), Ed.S., Morehead State University, A & M University.
 Jerry Slaughter, associate professor (1977), D.V.M., Texas A & M University.
 Katy Wright Slaughter, assistant instructor (1977), A.A.S., Texas State Technical Institute.
 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 Home Economics

- Eena Adams, assistant professor (1976), M.S., Kansas State University.
 Charlotte M. Bennett, associate professor (1974), Ed.D., Indiana University.
 Laura Feledra Dixon, assistant professor (1977), M.S., Eastern Kentucky University.
 Nancy Graham, instructor (1975), M.S., University of Kentucky.
 Linda Londot, instructor (1976), M.S., Ohio State University.
 Glenn McNeil, instructor (1978), M.S., Kansas State University.
 Floy R. Patton, assistant professor (1967), M.S., University of Kentucky.
 Kathy Peterjohn, instructor (1978), University of Kentucky.
 Marcia R. Shields, instructor (1973), M.A., Morehead State University.
 Patty Rai Smith, assistant professor (1971), M.A., Morehead State University.
 Carolyn Taylor, assistant professor (1974), Ed.S., Morehead State University.

Department of Industrial Education and Technology

- Forrest Cameron, instructor (1978), M.B.A., Morehead State University.
 John Goatley, instructor (1976), M.A., Eastern Kentucky University.
 Rondal Hart, associate professor (1958), M.S., Morehead State University.
 Donal L. Hay, associate professor (1976), Ph.D., Texas A&M University.
 Robert T. Hayes, assistant professor (1974), M.S., Eastern Kentucky University.
 Dennis Karwatka, assistant professor (1970), M.S., Indiana State University.

- Sampath Kumar, instructor (1978), M.S., Southern Illinois University.
 Wayne Morella, assistant professor (1971), M.H.E., Morehead State University.
 Edward G. Nass, assistant professor (1963), M.S., Northeastern State College.
 Robert E. Newton, professor (1963), Ed.D., Texas A&M University.
 Thomas Osborne, instructor (1978), M.A., Morehead State University.
 Robert Putnam, assistant professor (1978), Ed.D., Oklahoma State University.
 Meade S. Roberts, associate professor (1966), M.Ed., University of Cincinnati.
 Ronald Sutliff, assistant professor (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 Vanhooose, instructor (1976), M.S., Morehead State University.
 Thomas M. Vogl, assistant professor (1976), B.S., Creighton University.
 Minton E. Whitt, assistant professor (1968), Ed.S., Eastern Kentucky University.

Department of Nursing and Allied Health

- Cynthia Bohen, assistant professor (1978), M.S.N., University of Kentucky.
 Janice Brumagen, assistant professor (1972), M.A.C.E., Morehead State University.
 Jane Ray Kelly, associate professor (1973), M.A., Murray State University.
 Virginia Maruish, assistant professor (1977), M.S., University of Kentucky.
 Marilyn Maud, assistant professor (1973), M.H.E., Morehead State University.
 Betty Nordholm, assistant professor (1973), M.S.N., University of Kentucky.
 Betty M. Porter, assistant professor (1971), M.H.E., Morehead State University.
 Pauline Ramey, assistant professor (1973), M.H.E., Morehead State University.
 Ellie Reser, clinical instructor (1978), B.S.N., Eastern Kentucky University.
 Jacqueline Marie Schmidt, instructor (1978), B.S.N., University of Louisville.
 Rosemary Stokes, instructor (1976), R.N., Mercy Hospital School of Nursing.
 Elizabeth L. Tapp, assistant professor (1972), M.A.C.E., Morehead State University.
 Pamela Thompson, instructor (1975), M.H.E., Morehead State University.

School of Business and Economics

Department of Accounting

- John M. Alcorn, assistant professor (1976), M.B.A., Georgia State University.
 John Graham, assistant professor (1967), M.H.E., Morehead State University.
 Christopher Kitchen, assistant professor (1974), M.B.A., Morehead State University.
 John W. Osborne, assistant professor (1977), M.B.A., Eastern Kentucky University.
 David Rees, assistant professor (1976), M.B.A., Utah State University.
 William Sharp, instructor (1970), M.B.E., Morehead State University.

- Larry Stephenson, assistant professor (1967), M.A., Morehead State University.
 Gary VanMeter, assistant professor (1976), M.B.A., Southern Illinois University.

Department of Business Administration

- Joseph D. Barber, assistant professor (1976), M.B.A., Miami University.
 Kay Bishop, instructor (1977), M.B.A., Morehead State University.
 Larry Brumbaugh, assistant professor (1976), M.S., University of Kentucky.
 Ying I. Chien, associate professor (1972), Ph.D., University of Kentucky.
 Alex D. Conyers, associate professor (1958), M.B.A., University of Kentucky.
 Bernard Davis, professor (1978), Ph.D., University of Kentucky.
 David F. Kephart, assistant professor (1974), M.S., University of Arizona.
 Eugene Martin, professor (1972), Ed.D., University of Cincinnati.
 Willard McIntosh, Jr., instructor (1978), M.B.A., Eastern Kentucky University.
 William Pierce, professor (1964), Ed.D., Wayne State University.
 James E. Thomas, assistant professor (1976), Ph.D., Michigan State University.
 Vinson A. Watts, assistant professor (1968), M.A., Eastern Kentucky University.
 Charles West, associate professor (1974), Ph.D., University of Louisville.
 William M. Whitaker, III, professor (1975), Ph.D., University of Kentucky.

Department of Business Education

- Anna Marie Burford, assistant professor (1967), A.M., Western Kentucky University.
 Jack Henson, assistant professor (1970), M.S.E., Arkansas State University.
 Ernest E. Hinson, associate professor (1967), A.M., George Peabody College.
 Sue Y. Luckey, associate 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 K. Northcutt, assistant professor (1966), A.M., Morehead State University.
 Gail C. Ousley, assistant professor (1969), M.B.E., Morehead State University.
 Mildred L. Quinn, associate professor (1968), Ed.D., University of Kentucky.
 James M. Smiley, professor (1973), Ph.D., Ohio State University.
 Steve Schafer, instructor (1970), M.A., Morehead State University.

Department of Economics

- Stephen J. Buckley, assistant professor (1976), M.A., University of Missouri-Columbia.
 Charles Buechel, assistant professor (1976), M.A., University of Kentucky.
 Joe B. Copeland, associate professor (1975), Ph.D., University of Arkansas.

- Louis S. Magda, professor (1966), Ph.D., Jozsef Nador University.
 Thomas C. Morrison, professor (1969), Ph.D., North Carolina State University.

School of Education

Department of Administration, Supervision and Secondary Education

- Reedus Back, professor (1962), Ed.D., University of Kentucky.
 Russell Bowen, Jr., professor (1969), Ed.D., University of Kentucky.
 Jerry Franklin, assistant professor (1969), M.Ed., Xavier University.
 Harry Gilbert, assistant professor (1969), M.A., University of Kentucky.
 Lawrence E. Griesinger, professor (1965), Ed.D., University of Cincinnati.
 Charles Hicks, professor (1971), Ph.D., Southern Illinois University.
 Diane High, instructor (1978), Ed.S., Morehead State University.
 Michael McCord, associate professor (1974), Ed.D., University of Georgia.
 Rodney Don Miller, associate professor (1966), Ed.D., Indiana University.
 Bill F. Moore, associate professor (1970), Ph.D., University of Iowa.
 Robert C. Needham, professor (1961), Ed.D., University of Kentucky.
 Ben K. Patton, Jr., professor (1960), Ph.D., Louisiana State University.
 John W. Payne, professor (1969), Ed.D., University of Kentucky.
 James H. Powell, professor (1968), Ed.D., University of Kentucky.
 Randall Wells, associate professor (1968), M.A., Morehead State University.
 Clark D. Wotherspoon, professor (1966), Ed.D., North Texas State University.

Department of Adult, Counseling and Higher Education

- C. J. Bailey, visiting instructor (1971), M.A.C.E., Morehead State University.
 Wanda Bigham, adjunct assistant professor (1973), Ed.D., University of Kentucky.
 Buford Crager, assistant professor (1967), M.H.E., Morehead State University.
 Richard Daniel, associate professor (1976), Ed.D., North Carolina State University.
 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.
 Charles F. Martin, professor (1970), Ed.D., University of Kentucky.
 Morris L. Norfleet, professor (1962), Ph.D., Purdue University.
 Dean Owen, assistant professor (1977), Ph.D., University of Florida.
 Linda Ratliff, assistant professor (1975), Ed.D., University of Virginia.
 Harold Rose, professor (1968), Ph.D., Florida State University.
 Stephen Taylor, associate professor (1973), Ph.D., Florida State University.

Dan Thomas, associate professor (1969), Ph.D., University of Southern Mississippi.

William Weikel, assistant professor (1975), Ph.D., University of Florida.

Department of Elementary and Early Childhood Education

Elizabeth Anderson, assistant professor (1966), A.M., Morehead State University.

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

Leonard Burkett, professor (1967), Ed.D., University of Kentucky.

Gretta Duncan, assistant professor (1968), A.M., Morehead State University.

Kent Freeland, assistant professor (1977), Ph.D., University of Iowa.

Coletta Grindstaff, assistant professor (1969), A.M., East Tennessee State University.

William Hampton, professor (1959), Ed.D., University of Kentucky.

Noah Logan, associate professor (1966), Ed.D., University of Missouri.

Harry C. Mayhew, associate professor (1963), Ed.D., Ball State University.

Mary Northcutt, professor (1955), Ed.D., George Peabody College.

Diane Ris, S.P., assistant professor (1977), Ed.D., Ball State University.

Layla Sabie, associate professor (1965), Ed.D., George Peabody College.

John Stanley, associate professor (1964), M.S., Mississippi State College.

Patricia Watts, assistant professor (1970), M.H.E., Morehead State University.

Department of Health, Physical Education and Recreation

John E. Allen, assistant professor (1954), M.A., Morehead State University.

Earl J. Bentley, professor (1959), Ed.D., University of Southern Mississippi.

Laradean Brown, assistant professor (1972), M.A., Morehead State University.

W. Michael Brown, associate professor (1966), Ph.D., University of Southern Mississippi.

Rex Chaney, associate professor (1961), R.E.D., Indiana University.

A. L. Dawson, assistant professor (1973), M.A., Georgetown College.

Steve Hamilton, instructor (1976), M.A., Morehead State University.

Jim Hastings, assistant instructor (1977), B.A., Morehead State University.

Edward Lucke, professor (1969), Ed.D., George Peabody College.

Sue Lucke, assistant professor (1969), M.A., Morehead State University.

William J. Mack, assistant professor (1957), M.A., University of Kentucky.

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.

Richard Rachel, assistant instructor (1976), M.A., Parsons College.

Paul A. Raines, professor (1966), Ph.D., University of Iowa.

Mohammed Sabie, professor (1964), Ed.D., George Peabody College.

George A. Sadler, associate professor (1966), M.A., Western Kentucky University.

Mark Sheehan, instructor (1976), M.A., Morehead State University.

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, assistant professor (1968), M.A., Morehead State University.

Steve Wright, instructor (1969), M.A., Morehead State University.

Coaches

Wayne Chapman, head football coach (1976), M.A., Morehead State University.

Wayne Martin, head basketball coach (1978), M.A., Morehead State University.

Department of Library Science and Instructional Media

Jack D. Ellis, professor (1968), Ed.D., University of Southern Mississippi.

Elaine R. Kirk, assistant professor (1964), M.Ed., University of Louisville.

Opal LeMaster, assistant professor (1965), M.A., Marshall University.

William T. Rosenberg, assistant professor (1970), A.M., Morehead State University.

Stephen Young, assistant professor (1968), Ed.D., Indiana University.

Department of Psychology and Special Education

Alan W. Childs, assistant professor (1975), Ph.D., University of Tennessee.

L. Bradley Clough, professor (1966), Ph.D., University of Connecticut.

Carol Ann Georges, assistant professor (1970), M.A., University of Kentucky.

James E. Gotsick, professor (1968), Ph.D., Syracuse University.

Anna Lee Hicks, assistant professor (1971), Ph.D., University of Kentucky.

Gary Melton, assistant professor (1978), Ph.D., Boston University.

Francis Osborne, professor (1967), Ph.D., Syracuse University.

Larry D. Smyth, assistant professor (1976), Ph.D., Michigan State University.

George S. Tapp, professor (1968), Ph.D., University of Kentucky.

George E. Troutt, Jr., professor (1976), Ph.D., University of Connecticut.

William F. White, professor (1978), Ph.D., State University of New York at Buffalo.

University Breckinridge School

- Shirley Blair, assistant professor (1970), A.M., Morehead State University.
 Frank Burns, assistant professor (1973), M.A., Morehead State University.
 Nell Collins, assistant professor (1969), A.M., University of Kentucky.
 Kathryn Crusie, instructor (1974), M.A., Morehead State University.
 Larry Dales, assistant professor (1967), A.M., Brigham Young University.
 Thomas Daugherty, instructor (1973), M.A., Morehead State University.
 Dienzel Dennis, assistant professor (1966), A.M., Eastern Kentucky University.
 Joy Dennis, instructor (1966), A.M., Morehead State University.
 Charlotte Gillum, assistant professor (1970), A.M., Morehead State University.
 Karen Hammons, instructor (1972), M.A.C.E., Morehead State University.
 Coleene Hampton, instructor (1973), A.M., Morehead State University.
 Terry Hoffman, assistant professor (1971), M.A., Morehead State University.
 Lois Howell, instructor (1972), A.M., Morehead State University.
 Lois Huang, assistant professor (1969), A.M., University of Michigan.
 Bernice Jackson, assistant professor (1959), A.M., Morehead State University.
 Paul B. Kozma, instructor (1977), M.A., Morehead State University.
 Dan Lindsey, instructor (1978), A.M., Morehead State University.
 Jessie Mangrum, instructor (1968), A.M., Morehead State University.
 Hazel Martin, instructor (1965), M.A., Miami University.
 Dreama Price, instructor (1974), M.A., Morehead State University.
 James Reeder, assistant professor (1968), A.M., Morehead State University.
 Gail Russell, assistant instructor (1978), B.S., Morehead State University.
 Elizabeth Sadler, assistant professor (1966), A.M., Western Kentucky University.
 Joyce Saxon, assistant professor (1964), A.M., Morehead State University.
 Sue Wells, assistant professor (1968), A.M., Morehead State University.

School of Humanities

Department of Art

- Douglas G. Adams, associate professor (1967), M.A., Morehead State University.
 Franz Altschuler, assistant professor (1978), B.A., Illinois Institute of Technology.
 Bill R. Booth, professor (1970), Ph.D., University of Georgia.
 Ryan Howard, associate professor (1972), Ph.D., University of Michigan.
 Roger H. Jones, professor (1965), Ed.D., Indiana University.
 Gene Pyle, assistant professor (1972), A.B., Colorado College; Dip., Kansas City Art Institute.
 Joe D. Sartor, assistant professor (1968), M.A., University of Missouri.
 Maurice Strider, associate professor (1966), M.A., University of Kentucky.

- Donald B. Young, assistant professor (1967), M.A., Morehead State University.

Department of Communications

- Richard Bayley, associate professor (1976), Ph.D., University of Illinois.
 Michael Biel, assistant professor (1978), Ph.D., Northwestern University.
 W. David Brown, associate professor (1966), M.A., Louisiana State University.
 George Burgess, assistant professor (1964), M.A., Morehead State University.
 Joyce Crouch, instructor (1975), M.A., Morehead State University.
 Myron Doan, instructor (1976), M.M.E., Morehead State University.
 Howard Gee, instructor (1977), M.A., University of Utah.
 Harlen Hamm, assistant professor (1965), A.M., Bowling Green State University.
 Keith Kappes, instructor (1969), M.H.E., Morehead State University.
 William J. Layne, associate professor (1971), Ph.D., Northwestern University.
 Charles W. Letzgus, Jr., instructor (1978), M.A., Miami University.
 Gaylon Eugene Murray, assistant professor (1968), M.A., Ohio University.
 Larry Netherton, assistant professor (1968), A.M., Morehead State University.
 Marvin J. Philips, associate professor (1967), M.F.A., Carnegie Institute of Technology.
 James E. Quisenberry, professor (1968), Ph.D., Ohio University.
 David Ricker, assistant instructor (1977), B.A., DePauw University.
 Don Russell, instructor (1976), M.A., Morehead State University.
 Tom E. Scott, III, instructor (1976), M.A., Morehead State University.
 Sandra D. Shackelford, instructor (1976), M.H.E., Morehead State University.
 Theodore Urban, instructor (1978), M.A., Western Kentucky University.
 Roger Weaver, assistant instructor (1977), B.A., Morehead State University.
 Jack E. Wilson, professor (1967), Ph.D., Michigan State University.
 Thomas L. Yancy, instructor (1977), B.S., University of Texas.

Department of Languages and Literature

- Lewis W. Barnes, professor (1963), D.Lit., Ph.D., London University (England).
 Ruth B. Barnes, professor (1963), D.Lit., Ph.D., London University (England).
 Hazel H. Calhoun, assistant professor (1965), A.M., George Peabody College.
 Glenna E. Campbell, assistant professor (1966), M.A., Morehead State University.
 Robert A. Charles, professor (1971), Ph.D., Pennsylvania State University.
 Betty M. Clarke, assistant professor (1965), M.A., Morehead State University.
 Donald H. Cunningham, professor (1972), Ph.D., University of Missouri.
 G. Ronald Dobler, professor (1972), Ph.D., University of Iowa.
 Marc D. Glasser, associate professor (1972), Ph.D., Indiana University.

- G. Ronald Dobler, professor (1972), Ph.D., University of Iowa.
 Marc D. Glasser, associate professor (1972), Ph.D., Indiana University.
 Bernard G. Hamilton, assistant professor (1963), A.M., University of Mississippi.
 Frances L. Helphinstine, associate professor (1966), Ph.D., Indiana University.
 Betty Jo Hicks, instructor (1975), M.H.E., Morehead State University.
 Ina M. Lowe, assistant professor (1970), M.A., Morehead State University.
 George A. Mays, assistant professor (1969), M.H.E., Morehead State University.
 Edward E. Morrow, assistant professor (1961), A.M., George Peabody College.
 Olga Mourino, professor (1963), Ph.D., Universidad de la Habana (Cuba).
 Mary M. Netherton, assistant professor (1964), M.A., University of Kentucky.
 Rose Orlich, associate professor (1970), Ph.D., Notre Dame University.
 Essie C. Payne, assistant professor (1966), A.M., Auburn University.
 Charles Pelfrey, professor (1962), Ph.D., University of Kentucky.
 Glenn C. Rogers, associate professor (1967), Ph.D., University of North Carolina.
 Judy Rogers, associate professor (1967), Ph.D., University of North Carolina.
 M. K. Thomas, professor (1964), Ed.D., Tulsa University.
 Emma Troxel, assistant professor (1967), A.M., George Peabody College.
 Victor A. Venettozzi, associate professor (1960), M.A., Morehead State University.

Department of Music

- Anne Beane, instructor (1978), M.M., Morehead State University.
 James R. Beane, associate professor (1959), M.M., Louisiana State University.
 William M. Bigham, professor (1965), Ph.D., Florida State University.
 Harold Leo Blair, assistant professor (1975), M.F.A., Ohio University.
 James W. Bragg, associate professor (1963), M.M., New England Conservatory of Music.
 James Brody, instructor (1978), B.M., Ohio State University.
 Johnson E. Duncan, professor (1956), Ph.D., George Peabody College.
 R. Jay Flippin, associate professor (1969), M.M., Morehead State University.
 E. Glenn Fulbright, professor (1960), Ph.D., Indiana University.
 Christopher S. Gallaher, associate professor (1972), Ph.D., Indiana University.
 Pamela Hakl, assistant instructor (1975), B.M., Indiana University.
 Robert V. Hawkins, professor (1967), Ed.D., Columbia University.
 Larry W. Keenan, associate professor (1967), M.M., Indiana University.
 Mathew Krejci, instructor (1978), M.M., Indiana University.
 Milford Kuhn, assistant professor (1976), Ph.D., University of Maryland.
 Earle L. Louder, associate professor (1968), D.M., Florida State University.

- Edward Malterer, assistant professor (1977), M.M., Northwestern University.
 Frederick A. Mueller, professor (1967), D.M., Florida State University.
 Eugene C. Norden, assistant professor (1968), M.M., Morehead State University.
 Frank Oddis, instructor (1977), M.M., East Carolina University.
 Karl A. Payne, assistant professor (1965), M.M., Indiana University.
 Robert D. Pritchard, II, instructor (1972), M.M., Duquesne University.
 John K. Stetler, associate professor (1959), M.M., Wichita State University.
 Lucretia M. Stetler, assistant professor (1964), M.M., Morehead State University.
 Vasile J. Venettozzi, assistant professor (1966), M.M., Eastman School of Music.
 Russell White, instructor (1977), B.M., University of Cincinnati.

Department of Philosophy

- Betty R. Gurley, associate professor (1969), Ph.D., Southern Illinois University.
 George M. Luckey, associate professor (1961), M.A., University of Kentucky.
 Franklin M. Mangrum, professor (1959), Ph.D., University of Chicago.

PERSONAL DEVELOPMENT INSTITUTE

- Carolyn Flatt, instructor (1971), M.A., Morehead State University.

School of Sciences and Mathematics

Department of Biological Sciences

- David M. Brumagen, professor (1965), Ph.D., University of Kentucky.
 Fred M. Busroe, assistant professor (1967), M.A., University of Virginia.
 Gerald L. DeMoss, associate professor (1968), Ph.D., University of Tennessee.
 Richard G. Eversole, assistant professor (1965), M.A., Morehead State University.
 Margaret B. Heaslip, professor (1955), Ph.D., Ohio State University.
 Allen L. Lake, associate professor (1957), Ed.M., State University of New York at Buffalo.
 David T. Magrane, assistant professor (1976), Ph.D., University of Arizona.
 Leslie E. Meade, assistant professor (1971), M.S., Morehead State University.
 Ted Pass, III, associate professor (1972), Ph.D., Virginia Polytechnic Institute and State University.
 Madison E. Pryor, professor (1964), Ph.D., University of Tennessee.
 David J. Saxon, professor (1967), Ph.D., Southern Illinois University.
 Howard L. Setser, associate professor (1964), Ph.D., University of Kentucky.
 James R. Spears, associate professor (1965), Ph.D., University of Kentucky.

Center for Environmental Studies

- Jerry F. Howell, Jr., professor (1972), Ph.D., University of Tennessee.

Department of Mathematical Sciences

- Lake C. Cooper, associate professor (1956), M.A., Morehead State University.
 Ben Flora, Jr., professor (1972), Ph.D., Ohio State University.
 Johnnie G. Fryman, associate professor (1969), Ed.D., University of Kentucky.
 Charles Rodger Hammons, associate professor (1971), Ph.D., University of Kentucky.
 Glenn E. Johnston, professor (1969), Ph.D., Texas Tech University.
 Charlie L. Jones, associate professor (1962), M.A., Morehead State University.
 Robert J. Lindahl, professor (1970), Ph.D., University of Oregon.
 Nell F. Mahaney, assistant professor (1963), M.A., Morehead State University.
 James D. Mann, assistant professor (1966), M.M., University of South Carolina.
 Dixie M. Moore, assistant professor (1963), M.A., Marshall University.
 Gordon Nolen, assistant professor (1967), M.S., University of Kentucky.

Department of Physical Sciences

Chemistry

- Charles J. Jenkins, associate professor (1959), M.S., Auburn University.
 Charles A. Payne, professor (1966), Ph.D., Auburn University.
 Lamar B. Payne, professor (1962), Ph.D., University of Alabama.
 Toney C. Phillips, associate professor (1951), M.A., George Peabody College.
 Verne A. Simon, professor (1968), Ph.D., Florida State University.

Geoscience

- James R. Chaplin, associate professor (1961), M.S., University of Houston.
 Jules R. DuBar, professor (1967), Ph.D., University of Kansas.
 David K. Hylbert, professor (1963), Ph.D., University of Tennessee.
 John C. Philley, professor (1960), Ph.D., University of Tennessee.

Physics

- Russell M. Brengelman, professor (1967), Ph.D., Georgia Institute of Technology.
 David R. Cutts, professor (1968), Ph.D., University of Tennessee.
 Charles J. Whidden, professor (1968), Ph.D., Virginia Polytechnic Institute and State University.

Department of Science Education

- Maurice E. Esham, associate professor (1968), Ed.D., Virginia Polytechnic Institute and State University.
 William R. Falls, professor (1961), Ed.D., Indiana University.
 Ronald L. Fiel, associate professor (1972), Ed.D., Indiana University.

School of Social Sciences

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