



MOREHEAD STATE UNIVERSITY
GENERAL CATALOG 1977-78

MOREHEAD STATE UNIVERSITY

Undergraduate Catalog 1977-78

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UNDERGRADUATE CATALOG
1977 - 78**

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SCHOOLS**

**Volume 42
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Fees listed in this catalog are subject to change without notice by action of the Kentucky Council on Public 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 or national origin.

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ABBREVIATIONS USED IN THIS CATALOG

Acct	Accounting
Ag	Agriculture
BA	Business Administration
BE	Business Education
Biol	Biological Sciences
Chem	Chemistry
Comm	Communications
Cor	Corrections
CT	Construction Technology
Econ	Economics
Ed	Education
Eng	English
FA	Fine Arts
Fr	French
Geog	Geography
Geos	Geoscience
Ger	German
HEc	Home Economics
Hist	History
Hlth	Health
Hum	Humanities
IE	Industrial Education
Jour	Journalism
Lat	Latin
LSM	Library Science/Instructional Media
Math	Mathematical Sciences
MS	Military Science
MT	Mining Technology
Mus	Music
NAH	Nursing and Allied Health
NS	National Security
Nurs	Nursing
PDI	Personal Development Institute
PE	Physical Education
Phil	Philosophy
Phys	Physics
PS	Political Science
Psy	Psychology
RT	Radiologic Technology
R-TV	Radio-TV
RcT	Reclamation Technology
Rec	Recreation
Rel	Religious Studies
Russ	Russian
Sci	Science
Soc	Sociology
Span	Spanish
Spch	Speech
SW	Social Work
Thea	Theatre
VE	Vocational Education
WT	Welding Technology

ACADEMIC CALENDAR 1977 - 78

Fall Semester

August 22	Freshman and transfer student orientation Registration of seniors and graduate students Registration of juniors and sophomores
August 23	Registration of juniors and sophomores Registration of freshmen
August 24	Registration of freshmen
August 25	Classes begin at 8:00 a.m.
August 26	MWF classes meet
August 27	Registration of part-time students for night and Saturday classes
August 29	Last day to register for full load
September 5	Labor Day Holiday (classes dismissed; offices closed)
September 6	Class work resumes at 8:00 a.m. Last day to register for credit
September 19-23	Freshman advisement week
October 24	Mid-term grade reports due in Registrar's Office
October 31	Students who drop courses after this date will automatically receive a mark of "E" in the courses dropped
November 23	Thanksgiving Holiday begins at 11:20 a.m.
November 28	Class work resumes at 8:00 a.m.
December 12-16	Final examinations
December 17	First semester closes at 12:00 noon

Spring Semester

January 9	Freshman and transfer student orientation Registration of seniors and graduate students Registration of juniors and sophomores
January 10	Registration of juniors and sophomores Registration of freshmen
January 11	Registration of freshmen
January 12	Classes begin at 8:00 a.m.
January 13	MWF classes meet
January 14	Registration of part-time students for night and Saturday classes
January 16	Last day to register for a full load
January 23	Last day to register for credit
February 20	Washington's Birthday Observance (classes dismissed; offices closed)
February 21	Class work resumes at 8:00 a.m.
March 10	Mid-term grade reports due in Registrar's Office
March 11-19	Spring vacation begins at 12:00 noon
March 20	Class work resumes at 8:00 a.m. (MWF schedule)
March 24	Good Friday Holiday begins with the close of all classes on Thursday, March 23
March 27	Class work resumes at 8:00 a.m.
March 28	Students who drop courses after this date will automatically receive a mark of "E" in the courses dropped
May 8-12	Final examinations
May 12	Commencement at 2 p.m.
May 13	Second semester closes at 12:00 noon

Interession

May 15	Registration, 8:00 a.m. - 12:00 noon Classes begin 12:40 p.m.
	Registration, 6:00 p.m. - 8:00 p.m.
May 26	Interession ends

Summer Sessions

Summer I
May 30-June 30
Summer II
July 5-August 4

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 must 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 of the 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
Music
Radio-Television
Recreation Aide
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
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 Graduation 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 fields: (This means that no more than 6 hours in any one field will apply to the General Education requirement.)

- (1) Economics
- (2) Geography
- (3) History
- (4) Political Science
- (5) Sociology
- (6) Social Work
- (7) Corrections

IV. Health and Physical Education

4 hours

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

General Degree Requirements for the Bachelor's Degree

Candidates for the bachelor's degree must meet the following 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 in 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 being two semesters, during which a minimum of 32 hours of credit will have been earned.)
6. Not less than 43 semester hours of work offered for the degree must have been earned in courses numbered 300 and above.

Specific Degree Requirements for the Bachelor of Science Degree

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.

Specific Degree Requirements for the Bachelor of University Studies Degree

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 are required 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.

Check Sheets

The check sheet is the approved program of required graduation requirements.

Not later than the end of the sophomore year, all undergraduate students must have a check sheet on file in the Registrar's Office. The procedure for completing a check sheet is as follows:

1. Student secures the necessary blank area/major-minor forms and an unofficial transcript of his record from the Registrar's Office.
2. Student presents these forms to his advisor who will take the necessary action and forward them to the appropriate department head.
3. After they have been approved by the necessary department heads and school deans, the forms will be returned to the Registrar's Office.
4. Upon receipt of the forms, the Registrar's Office will complete an official check sheet for the student and mail it to him.

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 Dean of Academic Programs for approval at least two weeks prior to graduation.

ACADEMIC REGULATIONS

Late Entrance

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

Change in Schedule

The student's schedule cannot be changed after registration except by permission of the Dean of the School or Schools involved.

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

Student Load

The minimum amount of work 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 Dean of Academic Programs; 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 Dean of Academic Programs; 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 Dean of Academic Programs; 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 Dean of Academic Programs.

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 Intersession 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 Dean of Graduate Programs 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.

Classification of Students

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".)

ence, if credit is to be granted. Otherwise, the mark automatically becomes an "E".)

Pass-Fail

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

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

1. The student who has earned a 2.5 cumulative point average for a minimum of 30 hours on the campus of Morehead State University is eligible for the program. A transfer student with a minimum of 30 semester hours of which at least 12 hours have been completed at Morehead State University with a 2.5 on the work completed at Morehead State University is eligible for the program.
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 the 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 Dean of Academic Programs.

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. This minimum requirement for graduate students is an average of "B", or standing of 3.0.

Withdrawals

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

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 Information.

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

1. Have carried a full-time load (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 with distinction. One who earns a standing of 3.60 to 4.0 graduates with high distinction.

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 Morehead is considered.

Honors Program

The University offers a four-year Honors Program for outstanding students. Students with a strong academic background sometimes desire to supplement the regular program of studies and class offerings with more intensified learning experiences. The Honors Program offers an option to the above-average student who seeks greater challenges in his own special interest areas.

Freshman students who prove their academic ability by performance during the first or subsequent semesters at Morehead State University by achieving a 3.5 average may enter the program upon their own request. Admission is not limited to freshmen. The Honors Program desires to serve all students who qualify for admission any time during their undergraduate college career.

Transfer students who enter the University with a 3.5 cumulative point average may apply to the director of the program for admission.

An honors student is assigned an additional honors adviser from his respective school. Members are expected to take a certain number of honors classes at the freshman and sophomore level and honors seminars at the junior and senior level. The amount of honors credit work required varies, depending on when one enters the program. Members are encouraged to undertake a senior year research project in their major field as independent work.

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 library privileges and use of a library study-seminar room; engage in social and intellectual events; and are recognized at an academic honors day program and at commencement. The fact that a student participated in the program becomes a part of his permanent transcript.

Students interested in the Honors Program who desire a challenge and independence to do more and better work should write for more information to: Director, Honors Program, UPO Box 697, Morehead State University, Morehead, Kentucky 40351.

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, 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.

Field Career Experiences

The Field Career Experience 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 learning situations outside the formal classroom 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.

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.

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.

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 exposures 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 Handbook* and *Cooperative Education Policy Manual* available through the Office of Field Career Experiences.

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 to be admitted 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.

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 2.00 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. After being dropped for poor scholarship the second time he is not eligible for readmission.

Exceptions for Freshmen

A freshman who makes a standing of 1.5 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 minimum standing of 1.7 is not earned on the work of this third semester 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.

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 instructors by the Dean of Academic Programs.
3. Authorized Field Trips. Lists of students participating in authorized field trips are sent to the instructors by the Dean of Academic Programs.
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.

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.

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.

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.

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 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.

FINANCIAL AID

Morehead State University presents a broad program of financial aid; namely, scholarships, grants, loans, college workstudy, and others. A fundamental prerequisite for eligibility is acceptance for admission to the University. Since it is impossible for the University to supply the needs of all, students are urged to investigate the possibility of employment in the local community.

Kentucky students making application to Morehead State University for financial aid should file the Kentucky Financial Aid Form and the BEOG Form. Out-of-state students should file the BEOG Form and any recognized Need Analysis Form, for example, the PSC or ACT.

Scholarships

Morehead State University offers a variety of scholarships to eligible students. Students at Morehead State University who are in need of financial assistance and who have the ability to satisfactorily pursue a college curriculum are eligible to apply for scholarships. However, first consideration goes to those students who have graduated in the top 10% of their high school classes.

Honors Scholarships

Entering freshmen who demonstrate unusual ability through scores made on tests and high school transcripts may be accepted for the Honors Program during their first and second years of study at Morehead. These students will be granted academic scholarships each year to be applied to their fees provided the student makes satisfactory academic and social progress.

Alumni Scholarships

A number of Alumni Scholarships are awarded each year to outstanding high school seniors and MSU upper-classmen who need financial assistance in order to attend Morehead State University. To apply for one of these scholarships an applicant must file a report of his high school record with the Office of Alumni Affairs by March 30 along with a scholarship application form which will be furnished upon request by the Director of Alumni Affairs.

Special Scholarships

A number of scholarships are offered in the fields of music, debate, speech, theatre, and radio and tv. Special scholarships may be awarded to students who show proficiency in these specialties.

Athletic Scholarships

A number of scholarships are offered to athletes. These awards are given strictly in compliance with the Constitution and By-Laws of the Ohio Valley Conference, National Collegiate Athletic Association, and Association for Intercollegiate Athletics for Women. All applications for athletic scholarships should be made directly to the head coach of the sport in which the applicant is interested.

Army ROTC Scholarships

The U.S. Army Scholarship Program provides financial assistance to highly qualified and motivated young men and women. Scholarships are awarded for periods ranging from one to four years and pay for tuition, textbooks, laboratory fees and other specified educational expenses. In addition, the student receives a tax-free subsistence allowance of \$100 per school month.

For details on these and many other scholarships

offered by the University, contact the director of Financial Aid.

Educational Opportunity Grants

Basic Program

The Basic Educational Opportunity Grant Program provides direct grants from the government to the undergraduate student for educational expenses. To apply, the student or his parents may obtain a BEOG application form from the University Financial Aid Office, or from a U.S. Post Office, and send it to the address indicated on the application.

It should be noted that the University does not determine whether a student is eligible, nor does it have any discretion in determining the amount of the grants. The amount of grant given to an individual student is based on a schedule provided to the University by the federal government.

Supplemental Program

The Supplemental Educational Opportunity Grant program is designed to assist students who have exceptionally high financial need. It provides grants which do not have to be repaid. Although the money comes from the federal government, the University determines who is eligible and how much each grant will be. Applications for this grant may be obtained by writing the University Financial Aid Office.

Kentucky State Student Incentive Grants

The Kentucky State Student Incentive Grant Program is designed to increase the range of opportunities available to Kentucky residents to attend post-secondary institutions in Kentucky. The money is provided from state and federal funds administered by the Kentucky Higher Education Assistance Authority.

The applicant must be able to show substantial financial need for this assistance as determined by evaluation of his application for a Federal Basic Educational Opportunity Grant. Applications may be obtained from the University Financial Aid Office, high school guidance offices, or Kentucky Higher Education Assistance Authority, 120 Metro Street, Frankfort, Kentucky 40601.

Nursing Programs

Scholarships

Scholarship awards are available to eligible students in the Department of Nursing. The purpose of the program is to assist students of exceptional financial need, and proven academic ability, to pursue a course of study leading to a career in nursing.

Loans

A student enrolled in the Nursing Program is eligible to borrow up to \$1,500.00 per year, at an interest rate of 3 per cent annually to help defray the cost of education. This loan program provides for students to cancel up to 50 per cent of their loans if they are employed as full-time nurses, and up to 100 per cent if they are employed in an area which has a substantial shortage of nurses.

Loans

Federally Insured Student Loans

The Federally Insured Student Loan Program, or Guaranteed Loan Program as it is sometimes called, provides

students from middle and upper income families with long-term low interest loans for post-secondary educational expenses. Loan funds are provided by participating private lending institutions such as banks, credit unions, savings and loan associations, and some other private organizations. The federal government guarantees repayment of the loan. Federally Insured Student Loans are made to the student, not the parents, and the student is responsible for repaying the loan to the lender.

To be eligible, a student must be enrolled and in good standing, or accepted for enrollment at an approved post-secondary institution. Students must carry at least one-half of the normal full-time course load while receiving the Federally Insured Student Loan. Both undergraduate and graduate students may apply.

National Direct Student Loans

The National Direct Student Loan Program (formerly called the National Defense Student Loan Program) provides needy students with long-term low-interest loans for educational expenses. Ninety percent of the loan monies come from the federal government with the remaining ten percent provided by the school. The school determines who is eligible and the amount of the loan that will be offered. Interest at the rate of 3% per year on the unpaid balance starts nine months after the student ceases at least half-time study, normally nine months after graduation. Repayments at a minimum of \$30 per month start at the same time. The repayment period may be as long as ten years depending upon the amount borrowed. It should be emphasized that the National Direct Student Loan (NDSL) is a loan to the student, not the parents, and must be repaid by the student to the school.

To qualify for an NDSL, a student must be carrying at least one-half of the normal course load as defined by the school attended. Since the NDSL, like the SEOG, is awarded by the school, normal application procedures (the Family Financial Statement plus an institutional financial aid application) must be followed.

Work-Study Programs

Federal

The Federal College Work-Study Program provides funds to employ students at the institution and with non-public and private agencies. The University determines who is eligible for workstudy, how much the student may earn and where the student will work. The University will make every effort to place a student in a job which relates to the student's course of study, but no guarantee can be given that this will be the case for an individual student. Minimum wage laws apply to work-study jobs.

Institutional

The University makes it possible for a number of students to earn a part of their expenses, such as board or room rent, or both, by doing various kinds of work. The work opportunities available are in the cafeteria, dormitories, offices, bookstore, college post office, farm, and various buildings.

Special

Veterans Administration Fund

Financial assistance under the Veterans Administration Program is available to applicants who have been discharged from the armed services since January 31, 1955.

Also, applicants who are dependents of deceased veterans with service-connected death or who are dependents of veterans rated with 100% service-connected disability should also apply for financial assistance.

Vocational Rehabilitation

Grants-in-aid may be obtained by students with physical disability through the Kentucky Bureau of Rehabilitation Services, which is supported by federal and state appropriations.

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-advisors.
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 establish a friendly relationship with the student by showing a personal interest in him and his adjustment to university life.
7. To act as a referral agency to other departments or services within the University or to outside agencies in solving major problems the student may have.

Academic advising includes the following:

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

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

Specific advisor-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 advisors 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 advisor 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.

Guidance and Counseling Services

Morehead State University provides its students with guidance and counseling services in the TRIO Center and the Bureau of Student Affairs. This is in addition to the services provided by the Testing Center, the academic Department of Adult, Counseling and Higher Education, and the Department of Psychology and Special Education. Faculty advisers assist with scheduling and educational decisions on an individual basis. To assist students in their academic and social adjustment to university life the services of academic tutoring, career and occupational counseling, personal counseling, study skills, a writing laboratory and developmental reading are provided through the Special Services for Students Program. In cooperation with the University Testing Center, trained professional counselors interpret tests which will assist the student in determining career goals. Professional psychologists help with the diagnosis and therapy of students having exceptional mental health problems. Students with special situations — as those from foreign lands, physically handicapped, or those having a deficiency in educational opportunity — have assistance available at the University. Help with financial problems, housing, and day-to-day problems is available through the various offices in the Bureau of Student Affairs.

Johnson Camden Library

The library is a service agency for the academic community of Morehead State University. It acquires, stores, and disseminates information needed by students and faculty as they pursue their educational goals, and in their cultural and social development. The library has an open stack policy so that students may browse and select their own materials. After selection, the materials must be properly checked before leaving the library. Failure to do so will result in strict disciplinary measures. Students desiring to better understand how to use the library to their best advantage are encouraged to enroll in L.S. 101, Use of Books and Materials.

Faculty, staff, and students may borrow materials without charge for the length of time approved and stamped on the card in the back of the book. If the book is returned late, there is a fine; and if the book is not returned, a student is required to pay for the book. Failure to pay a library fine will result in the student's being prevented from registering at the University, or, if he has graduated, will result in denying him a transcript of his credits.

The library provides many services to students, faculty, staff, and citizens of the Commonwealth. An outline of these services is as follows:

I. SPECIAL COLLECTIONS

1. Microform — Materials and equipment for

reading and printing

2. Library Science — Books and materials for training librarians and teachers
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. Instructional Materials Center — Audiovisual resources
3. A.V. 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

The new Julian Carroll Library Tower is now under construction and scheduled for completion in April, 1978. This new five-story, 37,500 square foot addition will increase the total size of the library to 92,000 square feet. This new addition will also increase the maximum volume capacity to 850,000 and the seating capacity to over 1,000. This new facility will house the Materials Center, the Dial Access Center, Special Collections, reference material and open stack area. It will provide individualized, auto-tutorial programmed learning facilities for students.

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.

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 hearing will be established according to the procedures delineated by the University.

II. Restrictions on the Release of Student Records

1. Morehead State University will not release records without written consent of the students except:
 - 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. Provisions for Students

Requesting Access to Records

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

IV. Provisions for Authorized Personnel Requesting Access to Records

- 1. Authorized personnel must provide positive iden-

tification and indicate reasons for each request for examination.

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

Placement Service

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 attended Morehead State University for two years and make a minimum scholarship contribution. Associate membership is available to parents of students and friends of the University and is awarded following a gift to the alumni scholarship fund. All members receive subscriptions to *CONTACT*.

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

Agriculture

The Bachelor of Science degree offered by the Department of Agriculture consists of options in: agriculture business, agricultural economics, agronomy, animal science, horticulture, or general agriculture. An agricultural education program is provided for students interested in teaching vocational agriculture in secondary schools.

An associate degree is offered for students who may not wish to complete a four-year program. The Agriculture Department presently offers four technical two-year programs: agriculture business, farm production technology, ornamental horticulture and veterinary science technology.

Requirements for an Area of Concentration

To receive a bachelor's degree with an area of concentration in agriculture, the student must complete a minimum of 54 semester hours in the field of agriculture. Twenty-seven semester hours may be selected in a field of specialization such as animal science, agronomy, agriculture business, agricultural economics, or horticulture.

	Sem. Hrs.
Required courses in agriculture: 101, 133, 180, 203, 211, 215, 251, 301, 316, and 471	26
Electives in option approved by adviser	28
Minimum for area	54
Additional requirements:	
Chemistry 101, 101A, 102, 102A	8

A. AGRICULTURE BUSINESS REQUIREMENTS

Students who select the option in agriculture business must complete the area core and Principles of Accounting I plus 24 hours in agriculture and business, including a minimum of 9 hours in business. Electives must be selected from at least three of the following groups.

Group I		Sem. Hrs.
Ag 302—Agricultural Finance		3
BA 252—Mathematics of Finance		3
BA 323—Financial Markets		3
BA 360—Business Finance		3
BA 364—Personal Finance		3
Group II		
BE 363—Office Management		3
BA 311—Personnel Management		3
BA 301—Principles of Management		3
Group III		
BA 350—Salesmanship		3
BA 450—Consumer Behavior		3
BA 451—Retail Merchandising		3
BA 455—Advertising		3

Group IV

BA 461—Business Law I	3
BA 561—Business Law II	3

Group V

Ag 303—Land Economics	3
BA 282—Principles of Accounting II	3
Acct 387—Income Tax	3
BA 408—Risk Management	3

B. AGRICULTURE ECONOMICS REQUIREMENTS

Students who select this option must complete the area core plus 28 hours of requirements and electives in agriculture and economics. Requirements and electives are listed below.

Required Courses:

Econ 202—Principles of Economics II	3
Econ 350—Microeconomics	3
Econ 351—Macroeconomics	3
Total	9

Electives with consent of adviser:

Econ 301—History of Economic Thought	3
Ag 302—Agriculture Finance	3
Ag 303—Land Economics	3
Econ 342—Money and Banking	3
Econ 343—Investments	3
Math 354—Business Statistics	3
Ag 503—Agricultural Policy	3
Econ 547—International Econ	3

C. AGRONOMY REQUIREMENTS

Students who select the option in agronomy must complete the area core plus 28 hours of agriculture approved by their advisers. Courses may be selected from the following list with the consent of the adviser:

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

D. ANIMAL SCIENCE REQUIREMENTS

Students who select the option in animal science must complete the area core plus 28 hours of electives in agriculture approved by their advisers. Courses may be selected from the following list.

	Sem. Hrs.
Ag 109—Elementary Horsemanship	1
Ag 119—Intermediate Horsemanship	1
Ag 121—Equitation	3
Ag 136—Principles of Dairying	3
Ag 231—Livestock Judging	3
Ag 237—Poultry Production	3
Ag 242—Light Horse Husbandry	3
Ag 244—Horse Production	3
Ag 304—Genetics	3
Ag 316—Feeds and Feeding	3
Ag 331—Advanced Livestock Judging	3
Ag 332—Advanced Horsemanship	3
Ag 334—Entomology	3
Ag 335—Equitation Teaching	3
Ag 336—Dairy Cattle Feeding, Breeding & Mgt.	3
Ag 343—Beef Production	3
Ag 344—Swine Production	3
Ag 345—Sheep Production	3
Ag 515—Animal Nutrition	3
Biol 525—Animal Physiology	3

E. GENERAL AGRICULTURE OPTION

Students following the general agriculture curriculum must complete the area core with at least 54 hours in agriculture that includes the minimum number of hours in the fields listed below:

	Sem. Hrs.
Agricultural Economics	9
Agricultural Mechanics	9
Animal Science	12
Plant Science	9
Soil Science	6

F. HORTICULTURAL REQUIREMENTS

Students who select an option in the field of horticulture must complete the area core plus 28 hours in agriculture. Selections may be made from the following courses with the consent of the adviser.

	Sem. Hrs.
Ag 304—Genetics	3
Ag 308—Weed Control	3
Ag 212—Landscape Plants	3
Ag 213—Landscape Gardening	3
Ag 216—Floriculture	2
Ag 312—Soil Fertility and Fertilizers	3
Ag 314—Plant Propagation	3
Ag 315—Fruit Production	3
Ag 320—Principles of Vegetable Production	3
Ag 321—Greenhouse Production I	3
Ag 322—Greenhouse Production II	3
Ag 325—Turf Management	3
Ag 326—Nursery Management	3
Ag 327—Advanced Landscape Design	3
Ag 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
IE 103—Technical Drawing I	3

G. VOCATIONAL AGRICULTURAL EDUCATION REQUIREMENTS

For a student to qualify to teach vocational agriculture in the public schools of Kentucky, he must complete an area of concentration in agriculture with a minimum of six hours in each of the following fields:

Agricultural Economics
Agricultural Mechanics
Animal Science
Horticultural and Plant Science
Soil Science

Additional requirements:	Sem. Hrs.
Ag 580—Methods in Teaching Vocational Agriculture	4
Ag 582—Adult and Young Farmer Education	3
Ag 584—Teaching Vocational Agriculture	8
Ag 586—Planning Program in Vocational Agriculture	3
Ed 209—Foundations of Secondary Education	2
Ed 310—Principles of Adolescent Development for Secondary Teachers	3
Total	23

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

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

Requirements for a Major in Agriculture

	Sem. Hrs.
Agriculture 101, 133, 180, 203, 211, 215	26
Electives in agriculture approved by adviser	5
Minimum for a major	31
Additional requirements: Chemistry 101	
101A, 102, 102A	8

Requirements for a Minor in Agriculture

Agriculture 101, 133, 180, 203, 211, 215, 471	17
Electives in agriculture approved by adviser	4
Minimum for a minor	21
Additional requirements: Chemistry 101, and 101A	4

Requirements for a Minor in Horsemanship

Agriculture 121, 242, 244, 316 and 332	15
Electives in agriculture (by approval)	6
Total	21

Two-Year Program in Agriculture Business Technology

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

Course Requirements and Suggested Course Sequence:

First Semester	Sem. Hrs.
Biol 150—Intr. to Plant Science	3
Ag 133—Farm Livestock Production	3
BE 136—Business Calculations	4
Eng. 101—Composition I	3
Ag 251—Introduction to Agriculture Mechanics	3
Total	16
Second Semester	
Ag 180—Elementary Field Crops	3
Ag 203—Agricultural Economics	3
Chem 101—General Chemistry I	3
Chem 101A—General Chemistry I Lab	1
Spch 110—Basic Speech	3
BE 211—Beginning Typewriting	3
Total	16
Third Semester	
*Ag 211—Soils	3
*Ag 205—Farm Records	2
Ag 302—Agriculture Finance	3
Ag 305—Marketing of Farm Products	3
BA 200—Introduction to Data Processing	3
Acct 281—Principles of Accounting I	3
Total	17
Fourth Semester	
*Ag 205—Farm Records	2
BA 350—Salesmanship	3
*Ag 301—Farm Management	3
*Ag 303—Land Economics	3
BA 252—Mathematics of Finance	3
Electives	1
Total	15
Total	64

*These courses are to be selected from the desired option.

Options in Agriculture Business:

- Animal Science
To be selected from Agriculture 237, 316, 336, 343, 344, or 345. . . . 9
- Crop Science
To be selected from Agriculture 215, 311, 312, 314, 320, or 384. . . . 9
- Horticulture
To be selected from Agriculture 212, 213, 215, 314, 315, 320, or 321. . . . 9
- Agriculture Management
To be selected from Agriculture 205, 301, 302, or 303. . . . 9

Options in Farm Production Technology:

- Animal Science
To be selected from Agriculture 136, 231, 237, 242, 331, 334, 336, 343, 344, 345, or 350. . . . 27
- Agriculture Management
To be selected from Agriculture 205, 301, 302, 303, 305, 403; Accounting 281, 282; Business Admin. 252, 350, 364; or Economics 201, 202. . . . 27
- Crop Science
To be selected from Agriculture 140, 215, 304, 308, 311, 312, 314, 315, 320, 325, 334, 341, 350, 384; or Biology 215. . . . 27

D. Horticulture Science

To be selected from Agriculture 140, 212, 213, 312, 314, 315, 320, 321, 322, 325, 326, 327, 334, 341, or 350. 27

Two-Year Program 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.

Course Requirements and Suggested Course Sequence:

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

Two-Year Program in Veterinary Science Technology

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

Course Requirements and Suggested Course Sequence:

First Semester		
	Sem. Hrs.	
Eng 101—Composition I.	3	
Ag 102—Introduction to Vet. Sci. Tech.	2	
Sci 105—Introduction to Biological Sciences.	3	
Math 131—General Mathematics.	3	
NAH 301—Medical Terminology.	2	
Ag 104—Large and Small Animal Breeds.	3	
	16	
Second Semester		
Eng 102—Composition II.	3	
Ag 206—Anat. and Physiol. of Domestic Animals.	3	
Spch 110—Basic Speech or		
Spch 300—Oral Communications.	3	
Chem 101—General Chemistry I.	3	
Chem 101A—General Chemistry I Lab.	1	
Ag 107—Laboratory Techniques I.	2	
Ag 108—Large and Small Animal Care.	2	
	17	

Third Semester

Ag 210—Animal Parasitology.	3
Ag 208—Laboratory Techniques II.	2
Ag 209—Small Animal Clinic.	2
Chem 102—General Chemistry II.	3
Chem 102A—General Chemistry II Lab.	1
Ag 333—Communicable Diseases of Animals.	3
Ag 337—Clin Practice and Techniques.	2
	16

Fourth Semester

Ag 338—Applied Nutrition.	3
Biol 217—Elementary Medical Microbiology.	4
BE 211—Beginning Typewriting.	3
Ag 309—Large Animal Clinic.	2
Ag 340—Radiology.	2
Ag 342—Clinical Office Management.	3
Ag 346—Animal Health and Care.	2
	17

Summer School

Ag 235—Supervised Work Experience (40 hr. per week with practicing veterinarian).	6
Total	74

Suggested Course Sequences for Baccalaureate Programs

The following programs have been devised to help students in selecting their courses and arranging their schedules. The suggested programs 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 Science Degree with an Area of Concentration in Agriculture Science
FRESHMAN YEAR

First Semester		
Eng 101—Composition I.	3	
Biol 150—Intro. to Plant Science.	3	
Ag 101—General Agriculture.	1	
Ag 133—Farm Livestock Production.	3	
PE—Activity Course.	1	
Ag 251—Intro. to Agriculture Mechanics.	3	
Hlth 150—Personal Health.	2	
	16	
Second Semester		
Math 131—General Math I.	3	
Eng 102—Composition II.	3	
Ag 180—Elementary Field Crops.	3	
Econ 201—Principles of Economics I.	3	
PE—Activity Course.	1	
Ag—Elective.	3	
	16	

SOPHOMORE YEAR

First Semester		
Ag 203—Agriculture Economics.	3	
Ag 215—Horticulture.	3	
Soc 170—Rural Sociology.	3	
Chem 101—General Chemistry I.	3	
Chem 101A—General Chemistry I Lab.	1	
Ag—Elective.	3	
	16	
Second Semester		
Eng—Literature Elective.	3	
Spch 110—Basic Speech.	3	
Humanities Elective.	3	
Ag 211—Soils.	3	
Chem 102—General Chemistry II.	3	
Chem 102A—General Chemistry II Lab.	1	
	16	

JUNIOR YEAR

First Semester		
Ag—Electives.	6	
Humanities Elective.	3	
Social Science Elective.	3	
General Elective.	1	
Ag 301—Farm Management.	3	
	16	
Second Semester		
Ag 316—Feeds and Feeding.	3	
Social Science Elective.	3	

Ag—Electives	6
General Elective	4
	16

SENIOR YEAR**First Semester**

Ag 471—Seminar	1
Ag—Electives	6
General Elective	9
	16

Second Semester

Ag—Electives	6
General Elective	9
	15

Agriculture electives may be grouped for an option in agricultural economics, agronomy, animal science, horticulture or general agriculture. General electives may also be taken in agriculture or a related area by those wishing greater depth in the field.

Bachelor of Science Degree with a Major in Agriculture**FRESHMAN YEAR****First Semester**

Eng 101—Composition I	3
Biol 150—Intro. to Plant Science	3
Ag 101—General Agriculture	1
Ag 133—Farm Livestock Production	3
Elective	6
PE—Activity Course	1
	17

Second Semester

Eng 102—Composition II	3
Ag 203—Agriculture Economics	3
Ag—Elective	3
Ag 180—Elementary Field Crops	3
Math 131—General Math I	3
PE—Activity Course	1
	16

SOPHOMORE YEAR**First Semester**

Soc 170—Rural Sociology	3
Ag 215—Horticulture	3
Chem 101—General Chemistry I	3
Chem 101A—General Chemistry I Lab	1
Hlth 150—Personal Health	2
Social Science Elective	3
	15

Second Semester

Eng—Literature Elective	3
Ag 211—Soils	3
Chem 102—General Chemistry II	3
Chem 102A—General Chemistry II Lab	1
Spch 110—Basic Speech	3
Elective	3
PE—Activity Course	1
	17

JUNIOR YEAR**First Semester**

Social Science Elective	3
Ag 251—Intro. to Agriculture Mechanics	3
Ag 316—Feeds and Feeding	3
Math 141—Plane Trigonometry	3
Elective	4
	16

Second Semester

Eng—Literature Elective	3
Ag 301—Farm Management	3
Social Science Elective	3
Electives	6
	15

SENIOR YEAR**First Semester**

Social Science Elective	3
Ag 471—Seminar	1
Humanities or Comm. Elective	3
Electives	8
	15

Second Semester

Electives	15
	15

Provisional High School Certificate with Area of Concentration in Agriculture Education**FRESHMAN YEAR****First Semester**

Eng 101—Composition I	3
Ag 101—General Agriculture	1
Biol 150—Intro. to Plant Science	3
Ag 133—Farm Livestock Production	3
Math 131—General Math I	3
PE—Activity Course	1
	14

Second Semester

Eng 102—Composition II	3
Econ 201—Principles of Economics I	3
Ag—Elective	3
Humanities or Comm. Elective	3
Ag 180—Elementary Field Crops	3
PE—Activity Course	1
	16

SOPHOMORE YEAR**First Semester**

Chem 101—General Chemistry I	3
Chem 101A—Gen. Chemistry I Lab	1
Ag 251—Intro. Agriculture Mechanics	3
Soc 170—Rural Sociology	3
Eng—Literature Elective	3
Ag 2115—Horticulture	3
	16

Second Semester

Chem 102—General Chemistry II	3
Chem 102A—General Chemistry II Lab	1
Ag 203—Agriculture Economics	3
Ed 209—Foundations of Secondary Ed	2
Ag 316—Feeds and Feeding	3
Hlth 150—Personal Health	2
	17

JUNIOR YEAR**First Semester**

Ag—Elective	3
Ag 211—Soils	3
Ag 350—Farm Power and Machinery	3
Spch 110—Basic Speech	3
Social Science Elective	3
Ed 310—Principles of Adolescent Develop	3
	18

Second Semester

Ag 301—Farm Management	3
Ag 312—Soil Fertility	3
Ag—Elective	6
Humanities or Comm. Elective	3
	15

SENIOR YEAR**First Semester**

PS 141—Government of United States	3
Ag 471—Seminar	1
Ag—Advanced Electives	5
Advanced Electives	7
	16

Second Semester

Ag 580—Methods of Vocational Agric.	4
Ag 582—Adult and Young Farmer Educ.	3
Ag 584—Teaching Vocational Agriculture.	8
Ag 586—Planning Programs	3
	18

Pre-Veterinary Curriculum

The state of Kentucky is a participating member in the Southern Regional 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 26 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. Ken-

tucky students may apply to the Tuskegee Institute School of Veterinary Medicine where one legal Kentucky resident is 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 2.25 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. The italicized courses are required by Ohio State University. It is highly recommended that students work very closely with their advisor in making schedules to assure that all required courses are completed in the minimal time required.

FRESHMAN YEAR

First Semester

Eng 101—Composition I	3
Chem 111—General Chemistry	3
Chem 111A—General Chemistry I Lab	1
Ag 133—Farm Livestock Production	3
Biol 208—Vertebrate Zoology	3
NAH 302—Medical Terminology*	2
PE—Activity Course	1
	16

Second Semester

Eng 102—Composition II	3
Chem 112—General Chemistry II	3
Chem 112A—General Chemistry II Lab	1
Math 141—Plane Trigonometry**	3
Biol 209—Vertebrate Zoology	3
Ag 231—Livestock Judging**	3
PE—Activity Course	1
	17

SOPHOMORE YEAR

First Semester

Phys 201—Elementary Physics I	4
Hist 131—Intro. to Civilization I	3
Biol 317—Microbiology	4
Math 152—College Algebra**	3
Ag 316—Feeds and Feeding	3
	17

Second Semester

Phys 202—Elementary Physics II	4
Hist 132—Intro. to Civilization II	3
PS 141—Government of U.S.	3
Social Science Elective	3
Ag 304—Genetics	3
	16

JUNIOR YEAR

First Semester

Chem 326—Organic Chemistry I	4
Ag 237—Poultry Production***	3
Ag 343—Beef Production***	3
Math 175—Analytic Geometry and Calculus I	4
Humanities Elective	3
	17

Second Semester

Ag 336—Dairy Cattle, Feeding, Breeding, Mgt***	3
Ag 344—Swine Production***	3
Chem 327—Organic Chemistry II	4
Ag 515—Animal Nutrition	3
Social Sciences or Humanities Elective	3

* 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.

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.

First Semester

Eng 101—Composition I	3
Biol 150—Intro. to Plant Science	3
Chem 101—General Chemistry I	3
Chem 101A—General Chemistry I Lab	1
Math 175—Analytic Geometry and Calculus I	4
PE—Activity Course	1
Elective	2
	17

Second Semester

Eng 192—Technical Composition	3
Ag 180—Elem. Field Crops	3
Chem 102—General Chemistry II	3
Chem 102A—General Chemistry II Lab	1
Math 353—Statistics	3
PE—Activity Course	1
Elective	2
	16

Third Semester

Soc 170—Rural Sociology	3
Phys 201—Elementary Physics I	4
Biol 215—General Botany	3
CT 102—Surveying I	3
Psy 154—Life-Oriented Gen. Psych.	3
	17

Fourth Semester

Hist 141—Intro. to Early Amer. Hist.	3
Spch 110—Basic Speech	3
Econ 201—Principles of Economics I	3
Ag 211—Soils	3
Eng—Literature Elective	3
	15

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.

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

Agriculture 102. Introduction to Veterinary Science Technology (1-2-2): I. An orientation course which introduces the areas of professionalism, veterinary professional services, and an elementary consideration of veterinary pharmaceutical identification and usage. Additionally, the course prepares for later study in animal methods by investigating briefly the animal husbandry areas of nutrition, growth, genetics, and environmental factors.

Agriculture 104. Large and Small Animal Breeds. (3-0-3): I. The study of common breeds of domestic animals including dogs, cats, swine, cattle, horses, sheep, and poultry.

Agriculture 107. Laboratory Techniques I. (1-2-2): II. Fundamental study in the principles and practices of clinical pathology as these relate to the responsibilities of veterinary technicians.

Agriculture 108. Large and Small Animal Care. (1-2-2); II. The proper methods of handling; restraint; techniques in taking samples of blood, urine, feces; radiology; skin and bone scrapings for laboratory analysis; proper administration of drugs; care of animal before and after surgery; feeding; grooming; and kennel sanitation.

Agriculture 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.

Agriculture 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.

Agriculture 121. Equitation. (1-4-3); I. Grooming, saddling, bridling, mounting, seat and hands. Basic equitation for students with no previous experience.

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

Agriculture 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.

Agriculture 140. Introduction to Forestry. (2-2-3); II. The profession of forestry, its scope and importance in state and federal programs; tree growth, forest management practices, utilization, and products; identification of forest trees and shrubs.

Agriculture 180. Elementary Field Crops. (2-2-3); I, II. Prerequisite: Biol. 150. A study of the fundamentals of crop production; current practices in grain, pasture, forage, and medicinal crop production; the use of fertilizers, limestone, and chemicals; seed production and quality; morphology of crops.

Agriculture 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.

Agriculture 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.

Agriculture 206. Anatomy and Physiology of Domestic Animals. (2-2-3); II. A study of the structure and functions of canine systems, including circulation, nervous, digestive, urinary, skeletal, respiratory, muscular, endocrine, lymphatic and reproductive. Dissections will be performed in the laboratory of some of the more important systems and structures.

Agriculture 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.

Agriculture 208. Laboratory Techniques II. (1-2-2); I. Continuation of Agriculture 107. Laboratory techniques with microscopic and chemical tests of blood, urine and feces. Students learn to culture and identify bacteria and fungi.

Agriculture 209. Small Animal Clinic. (1-2-2); I. Basic principles relating to small animals; humane care, caging, nutrition, and husbandry practices. Techniques related to handling, care, and usage of the animals.

Agriculture 210. Animal Parasitology. (2-2-3); I. A study of the common parasites of domestic animals as to classification, life cycle, pathology produced, laboratory diagnosis, and control. Laboratory diagnosis, control measures, sanitation measures, and control of intermediate hosts are emphasized.

Agriculture 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.

Agriculture 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.

Agriculture 213. Landscape Gardening. (2-2-3); II. An introduction

to landscape gardening with emphasis on design, construction, planting, and maintenance of the home grounds.

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

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

Agriculture 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.

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

Agriculture 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.

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

Agriculture 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 diseases; diagnosis; prevention and control; parasite control.

Agriculture 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.

Agriculture 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.

Agriculture 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.

Agriculture 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.

Agriculture 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.

Agriculture 304. Genetics. (2-2-3); I, II. Prerequisite: Biology 209 or 215. (See Biology 304)

Agriculture 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.

Agriculture 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.

Agriculture 309. Large Animal Clinic. (1-2-2); II. Basic principles relating to the maintenance of large animals including humane care, nutrition and husbandry practices. Techniques relating to handling, care and use of the common species of farm animals, together with, training in both clinical observation and performance of autopsies on large animals.

Agriculture 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.

Agriculture 312. Soil Fertility and Fertilizers. (2-2-3); II. Prerequisite: Agriculture 211. The history and technology of fertilizers; sources and methods of manufacture of fertilizer materials; profitable use of fertilizers and lime in soil management.

Agriculture 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.

Agriculture 315. Fruit Production. (2-2-3); I.

Prerequisite: Agriculture 215 or consent of instructor. Tree fruits, nuts, and small fruits; varieties of fruit habits, sites, soils, pruning, pest control, planting and commercial marketing.

Agriculture 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.

Agriculture 320. Principles of Vegetable Production. (2-2-3); II.

Prerequisite: Agriculture 215 or consent of instructor. Principles of commercial 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.

Agriculture 321. Greenhouse Production I. (2-2-3); I.

Prerequisite: Agriculture 215 or permission of the instructor. Factors involved in locating, constructing, and equipping a greenhouse. Studies soil, soil fertilization, sterilization, watering and heating systems and other developments in greenhouse mechanization; types of structures, materials and methods of construction.

Agriculture 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 and potted plants; plant growth and reproduction.

Agriculture 325. Turf Management (2-2-3); I.

Prerequisites: Biol. 150 and Agriculture 215. 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.

Agriculture 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.

Agriculture 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.

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

Agriculture 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.

Agriculture 333. Communicable Diseases of Animals. (2-2-3); I.

Introduces the student to abnormalities of form and function. Survey of specific examples of different types of diseases occurring in the animal body.

Agriculture 334. Entomology. (2-2-3); II.

Prerequisite: Biology 208.

(See Biology 334.)

Agriculture 335. Equitation Teaching. (2-2-3); II.

Prerequisite: Agriculture 332. The techniques of horsemanship and methods of equitation instruction.

Agriculture 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.

Agriculture 337. Clinical Practice and Techniques. (0-4-2); I. The basic principles of anesthesia and the role of the technician in the operating room. The student will receive practice in reception of animals (large and small), assist with examination and treatment of animals, assist with surgery, perform laboratory tests, administer medication under hospital sanitation, and assist veterinarians on farm calls.

Agriculture 338. Applied Nutrition. (2-2-3); II. A broad introductory course which presents the basic principles and practices of nutrition for all classes of large and small research animals.

Agriculture 340. Radiology. (0-4-2); II. Principles concerning techniques in radiology are confirmed through repeated laboratory exercises. Instructional emphasis in radiological techniques is placed on the student learning to properly position patients, expose film, and process exposed radiographs of diagnostic value.

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

Agriculture 342. Clinical Office Management. (3-0-3); II. This course is designed for technical assistants working for practicing veterinarians. The course includes emphasis on client-patient relationships, records kept in medical practice, pharmacy operations, principles of human relations, the proper use of the telephone.

Agriculture 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.

Agriculture 344. Swine Production. (2-2-3); II.

Prerequisites: Agriculture 133 and 316 or approval of the department. History, development, and distribution of types and breeds; management practices, including disease problems in commercial and purebred herds.

Agriculture 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.

Agriculture 346. Animal Health and Care. (1-2-2); II. This course is designed to orientate the student with the most common diseases of large animals. Sanitation and prevention measures will be used along with a good herd health program. Laboratory periods will be utilized to demonstrate and to instruct the student in techniques used in dealing with hoof care, castrating, de-horning, milk sampling, and management.

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

Agriculture 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.

Agriculture 471. Seminar. (1-0-1); I, II.

Prerequisite: Second semester junior standing. Identification of problems and issues reflected in the current professional agricultural literature.

Agriculture 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.

Agriculture 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.

Agriculture 505. Farm Business Analysis. (2-2-3); II.

Prerequisite: Consent of instructor. A basic course in the applicability of farm records to the efficiency analysis of whole farms and of specific enterprises. Actual university farm enterprises will be used to provide the data source for laboratory work.

Agriculture 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.

Agriculture 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.

Vocational Education 530. Evaluation Techniques. (3-0-3); II. The development and use of a framework of measurement and evaluation in vocational and industrial education.

Agriculture 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.

Agriculture 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.

Agriculture 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.

Agriculture 585. Principles and Philosophy of Vocational Education. (3-0-3); I, II, III.

Prerequisite: Senior or graduate standing. Background, development, objectives, principles, philosophy, status, and trends of vocational education.

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

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

Agriculture 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

1. A Bachelor of Science degree with areas of concentration in:
 - a. Clothing and textiles, with three options
 1. Design
 2. Fashion retail
 3. Textile technology
 - b. General Dietetics
 - c. Interior Design
 - d. Vocational Home Economics Education
2. A Bachelor of Science degree with a major in the following areas:
 - a. Food Service Administration
 - b. General Home Economics
3. Two-year Associate of Applied Science degrees in the following areas:
 - a. Fashion Merchandising
 - b. Food Service Technology
 - c. Interior Decoration & Design
4. A Minor in the Bachelor of Science degree in the following areas:
 - a. Food Service Administration
 - b. Interior Design
 - c. General Home Economics

Suggested Course Sequences For Baccalaureate Programs

The following programs have been devised to help undergraduate students in selecting their courses and arranging their schedules. These suggested programs 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 Science, Clothing and Textiles, Area of Concentration

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

FRESHMAN YEAR

First Semester

Eng 101—Composition I	3
Art 291—Color and Design	2
HEc 240—Textiles	3
Sci 105—Intro. to Biological Science	3
Physical Education activity	1
Mathematics elective	3
	15

Second Semester

Eng 102—Composition II	3
HEc 141—Basic Clothing Construction	3
Social Science elective	3
General elective	6
Physical Education Activity	1
	16

SOPHOMORE YEAR

First Semester

Chem 101—General Chemistry I	3
Chem 101A—General Chemistry Lab	1
Lit 202—Intro. to Literature	3
HEc 241—Advanced Clothing Problems	3
Social Science elective	3
Humanities elective	3
	16

Second Semester

HEc 344—Historic Costume or	
HEc 480—Historic Textiles	3
HEc 340—Textiles Testing	3
HEc 130—Elementary Foods	3
Science elective	5
Humanities elective	2
	16

JUNIOR YEAR

First Semester

HEc 453—Marriage and Family Living	3
HEc 451—Home Furnishings	3
Biol 331—Human Anatomy	3
Humanities elective	2
Home Economics option	3
Electives	3
	17

Second Semester

HEc 341—Flat Pattern Design	
or	
HEc 545—Clothing Design in Draping	3
HEc 362—Consumer Education	3
Social Science elective	3
Electives	6
	15

SENIOR YEAR

First Semester

HEc 303—Health of the Family	3
HEc 541—Tailoring	3
Home Economics option	6
Social Science elective	3
Electives	2
	17

Second Semester

HEc 471—Seminar	1
HEc 542—Social-Psychological Aspects of Clothing and Textiles	3
Home Economics option	3
Electives	9
	16

Bachelor of Science, General Dietetics, Area of Concentration

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.

FRESHMAN YEAR

First Semester

HEc 130—Elementary Foods	3
HEc 232—Food Sanitation and Safety	3
Eng 101—Composition I	3
Sci 105—Intro. to Biological Science	3
Soc 101—General Sociology	3
Health elective	2
	17

Second Semester

HEc 231—Meal Management.....	3
Eng 102—Composition II.....	3
Chem 101—General Chemistry I.....	3
Chem 101A—General Chemistry I Lab.....	1
Psych 154—Life Oriented Gen. Psy.....	3
Math 131—or	
Math 132—General Mathematics.....	3
	16

SOPHOMORE**First Semester**

Bio 332—Human Physiology.....	3
Econ 101—Intro. to American Economy or	
Econ 201—Principles of Economics I.....	3
Sociology elective.....	3
Humanities elective.....	3
Physical Ed. activity.....	1
Literature elective.....	3
	16

Second Semester

HEc 329—Human Nutrition.....	3
HEc 334—Quantity Food Preparation.....	3
HEc 337—Advanced Food Production Management.....	3
BA 200—Intro. to Data Processing.....	3
Social Science elective.....	3
Physical Ed. activity.....	1
	16

JUNIOR YEAR**First Semester**

HEc 330—Quantity Food Purchasing.....	3
HEc 331—Organization and Adm. of Food Service I.....	3
Chem 326—Organic Chemistry I.....	4
Humanities elective.....	3
General elective.....	3
	16

Second Semester

HEc 335—Food Service Equipment.....	3
HEc 539—Child Growth and Nutrition.....	3
Biol 317—Principles of Microbiology.....	4
Humanities elective.....	6
	16

SENIOR YEAR**First Semester**

HEc 536—Advanced Nutrition.....	3
Chem 595—Biochemistry I.....	4
General electives.....	9
	16

Second Semester

HEc 333—Diet Therapy.....	3
Psy 589—Psychology of Learning.....	3
General electives.....	9
	15

Bachelor of Science, Interior Design, Area of Concentration

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.

FRESHMAN YEAR**First Semester**

Eng 101—Composition I.....	3
Art 291—Color and Design.....	2
HEc 240—Textiles.....	3
IE 103—Technical Drawing I.....	3
Math elective.....	3
Physical Ed. activity.....	1
	15

Second Semester

Eng 102—Composition II.....	3
Art 101—Drawing.....	2
Social Science elective.....	3
General elective.....	6
Physical Ed. activity.....	1
	15

SOPHOMORE YEAR**First Semester**

Eng 202—Intro. to Literature.....	3
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HEc 451—Home Furnishings.....	3
HEc 362—Consumer Education.....	3
Art 264—History of Painting.....	3
BE 290—Secretarial Accounting.....	3
Health elective.....	2
	17

Second Semester

HEc 351—Housing.....	3
HEc 481—History of Furnishings.....	3
BE 221—Business Communications.....	3
Humanities elective.....	3
Science elective.....	3
General elective.....	2
	17

JUNIOR YEAR**First Semester**

HEc 350—Merchandise Display and Promotion.....	3
BA 350—Salesmanship.....	3
Art 465—Modern and Contemporary Art.....	3
Home Economics elective.....	3
General elective.....	2
Science elective.....	3
	17

Second Semester

HEc 352—Problems in Interior Design.....	3
HEc 343—Household Textiles.....	3
Social Science elective.....	6
General elective.....	5
	17

SENIOR YEAR**First Semester**

Art 565—Arts of the U.S.....	3
Home Economics elective.....	3
Social Science elective.....	3
General elective.....	6
	15

Second Semester

HEc 557—Interior Design.....	3
Home Economics elective.....	2
Science elective.....	3
General elective.....	7
	15

Bachelor of Science, Vocational Home Economics Education, Area of Concentration

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.

Provisional High School Certificate with an Area in Vocational Home Economics**FRESHMAN YEAR****First Semester**

Eng 101—Composition I.....	3
Art 291—Color and Design.....	2
Sci 105—Intro. to Biological Sci.....	3
HEc 130—Elementary Foods or	
HEc 141—Basic Clothing Construction.....	3
HEc 101—Personal and Family Living.....	3
Physical Ed. activity.....	1
	15

Second Semester

Eng 102—Composition II.....	3
HEc 141—Basic Clothing Construction or	
HEc 130—Elementary Foods.....	3
HEc 251—Household Equipment.....	3
Math elective.....	3
Science elective.....	2
Sociology elective.....	3
	17

SOPHOMORE YEAR**First Semester**

Chem 101—General Chemistry I.....	3
Chem 101A—General Chemistry I Lab.....	1
HEc 231—Meal Management.....	3
HEc 240—Textiles.....	3
HEc 362—Consumer Education.....	3

Economics elective.....	3
Physical Ed. activity.....	1
	17

Second Semester

Biol 232—Human Anatomy and Physiology.....	4
Ed 209—Foundations of Secondary Ed.....	2
HEc 241—Advanced Clothing.....	3
HEc 303—Health of the Family.....	3
Literature elective.....	3
	15

JUNIOR YEAR**First Semester**

HEc 355—Child Growth and Development.....	3
Art 241—Crafts I (or substitute).....	2
Ed 310—Principles of Adolescent Development for Secondary Teachers.....	3
Social Science elective.....	3
Humanities or Comm. elective.....	3
General elective.....	3
	17

Second Semester

HEc 351—Housing.....	3
HEc 329—Human Nutrition.....	3
HEc 452—Home Management.....	3
HEc 471—Seminar (Voc. Section).....	1
HEc 453—Marriage and Family Living.....	3
Humanities or Comm. Elective.....	2
Home Economics elective.....	1
	16

SENIOR YEAR**First Semester**

HEc 451—Home Furnishings.....	3
HEc 454—Home Management House.....	3
HEc 470—Methods in Teaching HEc.....	4
Social Science elective.....	3
General elective.....	3
	16

Second Semester

Ed 477—Professional Semester.....	17
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(The professional semester may be taken either semester of the senior year but must be preceded by HEc 470.)

Bachelor of Science, Food Service Administration Major

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.

FRESHMAN YEAR**First Semester**

HEc 130—Elementary Foods.....	3
HEc 232—Food Sanitation and Safety.....	3
Eng 101—Composition I.....	3
Health elective.....	2
Social Science elective.....	3
General elective.....	2
	16

Second Semester

Eng 102—Composition II.....	3
Science elective.....	3
Math elective.....	3
Physical Ed. activity.....	1
Minor courses.....	6
	16

SOPHOMORE YEAR**First Semester**

HEc 334—Quantity Food Preparation.....	3
HEc 337—Advanced Food Production Management.....	3
Literature elective.....	3
Social Science elective.....	3
Humanities elective.....	3
	15

Second Semester

Minor Courses.....	6
Humanities elective.....	3
Social Science elective.....	3
Science elective.....	3
Physical Ed. activity.....	1
	16

JUNIOR YEAR**First Semester**

HEc 330—Quantity Food Purchasing.....	3
HEc 331—Organization and Adm. of Food Service I.....	3
Minor courses.....	6
General elective.....	3
	15

Second Semester

HEc 335—Food Service Equipment.....	3
Minor courses.....	6
Social Science elective.....	3
General elective.....	3
	15

SENIOR YEAR**First Semester**

HEc 320—Elements of Nutrition or HEc 329—Human Nutrition.....	3
Minor course.....	3
Science Math elective.....	3
General electives.....	6
	15

Second Semester

Minor courses.....	6
Humanities elective.....	3
General electives.....	7
	16

Cooperative Education (taken any summer).....	4
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Bachelor of Science, General Home Economics Major

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.

If a teaching certificate is desired, additional courses have to be taken in education, including Methods of Teaching Home Economics.

FRESHMAN YEAR**First Semester**

Eng 101—Composition I.....	3
HEc 130—Elementary Foods.....	3
HEc 251—Household Equipment.....	3
Math elective.....	3
Social Science elective.....	3
Physical Ed. activity.....	1
	16

Second Semester

Eng 102—Composition II.....	3
HEc 141—Basic Clothing Construction.....	3
Biological Science elective.....	3
Social Science elective.....	3
General elective.....	3
Physical Ed. activity.....	1
	16

SOPHOMORE YEAR**First Semester**

Literature elective.....	3
Health elective.....	2
Social Science elective.....	3
General elective.....	3
Home Economics elective.....	3
	17

Second Semester

Humanities elective.....	4
General elective.....	6
Science or Math elective.....	3
Home Economics elective.....	3
	16

JUNIOR YEAR**First Semester**

HEc 355—Child Growth and Development.....	3
Humanities elective.....	3
General elective.....	3
Social Science elective.....	3
Home Economics elective.....	3
	15

Second Semester

HEc 362—Consumer Education	3
Humanities elective	2
General elective	6
Home Economics elective	6
	17

SENIOR YEAR**First Semester**

HEc 453—Marriage and Family Living	3
General elective	13
(300-500 level)	16

Second Semester

HEc 471—Seminar	1
General elective	14
(300-500)	15

Suggested Course Sequences for Two-Year Associate of Applied Science Degree Programs.

The following programs have been devised to help students in selecting their courses and arranging their schedules. The suggested programs need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting requirements for graduation.

Associate of Applied Science Degree, Fashion Merchandising

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

First Semester

HEc 141—Basic Clothing Construction	3
HEc 240—Textiles	3
Art 101—Drawing	2
Art 291—Color and Design	2
Eng 101—Composition I	3
FA 160—Appreciation of Fine Arts	3
PDI 100—Personal Development Institute	1
	17

Second Semester

HEc 241—Advanced Clothing Problems	3
BE 221—Business Communications	3
Econ 201—Principles of Economics I	3
Spch 110—Basic Speech	3
Elective	3
	15

Summer Work Experience

	4
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Third Semester

HEc 343—Household Textiles	3
HEc 346—Fashion Fundamentals	3
BA 350—Salesmanship	3
Jour 364—Feature Writing	3
HEc 350—Merchandise Display and Promotion	3
	15

Fourth Semester

HEc 344—Historic Costume	3
Jour 383—Principles of Advertising	3
HEc 380—Clothing for Consumers	3
HEc—Elective	3
Elective	3
	15

Total 66

Associate of Applied Science Degree, 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, super-

vision, purchasing and quantity cooking, as well as courses in the supporting sciences.

First Semester

	Sem. Hrs.
HEc 130—Elementary Foods	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
Electives	3
	15

Second Semester

HEc 131—Dining Room Procedures	2
HEc 231—Meal Management*	3
HEc 434—School Lunch Seminar*	1
Spch 110—Basic Speech	3
Math or Accounting	3
HEc 132—Introduction to Food Service	3
	15

Summer Session

HEc Cooperative Study	4
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Third Semester

Electives	3
HEc 330—Quantity Food Purchasing	3
HEc 331—Organization and Admin. of Food	
Service I	3
HEc 334—Quantity Food Preparation	3
HEc 337—Advanced Food Production Management	3
	15

Fourth Semester

Electives	6
HEc 335—Food Service Equipment	3
HEc 320—Elements of Nutrition	3
BA 311—Principles of Personnel	
Management*	3
	15
Total	64

* The courses listed below may be substituted for any of the asterisked courses listed above, depending on the emphasis of the individual's program.

***Option A**

HEc 220—Nutrition for Nurses	3
HEc 231—Meal Management	3
HEc 251—Household Equipment	3
HEc 303—Health of the Family	3
HEc 362—Consumer Education	3
HEc 329—Human Nutrition	3
HEc 434—School Lunch Seminar	1
HEc 476—Special Problems	1-3
HEc 590—Creative Foods	3

***Option B**

BA 160—Introduction to Business	3
BA 200—Introduction to Data Processing	3
Acct 281—Principles of Accounting I	3
Acct 282—Principles of Accounting II	3
BA 301—Principles of Management	3
BA 304—Marketing	3
BA 311—Principles of Personnel Management	3
BA 364—Personal Finance	3
BA 461—Business Law I	3
BE 136—Business Calculations	3
BE 221—Business Communications	3

Associate of Applied Science Degree, Interior Decoration and Design

The two-year associate degree program in interior decoration and design 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.

First Semester

HEc 240—Textiles	3
HEc 291—Color and Design	2
Eng 101—Composition I	3

IE 103—Technical Drawing I.....	3
Math 132—General Math (technical Math section).....	3
P.D.I.....	1
	15
Second Semester	
Art 245—Ceramics I.....	2
Art 264—History of Painting.....	3
BE 221—Business Communications.....	3
IE 203—Technical Drawing II.....	3
Jour 383—Principles of Advertising.....	3
Spch 110—Basic Speech.....	3
	17
Third Semester	
HEc 343—Household Textiles.....	3
HEc 350—Merchandise Display and Promotion.....	3
HEc 451—Home Furnishings.....	3
Jour 364—Feature Writing.....	3
BA 350—Salesmanship.....	3
Elective.....	2
	17
Fourth Semester	
HEc 351—Housing.....	3
HEc 480—Historic Textiles.....	3
Art 465—Modern and Contemporary Art.....	3
HEc 352—Problems in Interior Design.....	3
IE 303—Technical Illustration.....	3
Elective.....	2
	17
	Total 66

Course Requirements, 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.

HEc 130—Elementary Foods.....	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 337—Advanced Food Production Management.....	3
	21

Course Requirements, Minor in General Home Economics

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

	Sem. Hrs.
HEc 130—Elementary Foods.....	3
HEc 362—Consumer Education.....	3
HEc 329—Human Nutrition.....	3
HEc 453—Marriage and Family Living or	
HEc 141—Basic Clothing Construction.....	3
HEc 380—Clothing for Consumers.....	3
Approved Home Economics electives.....	6
	21

Course Requirements, 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.

IE 103—Technical Drawing I (I.D. Students).....	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
	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.

Home Economics 101. Personal and Family Living. (3-0-3); I. Preparation for marriage; personal and social adjustment; needs, responsibilities, and relationships of family, friends, and self.

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

Home Economics 131. Dining Room Procedures. (1-2-2); I. Introduction to various facets of dining room operations; essentials of good table service; duties and responsibilities of working with patrons and dining room staff members.

Home Economics 132. Introduction to Food Service. (2-2-3); II. 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.

Home Economics 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.

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

Home Economics 231. Meal Management. (2-2-3); I, 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.

Home Economics 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.

Home Economics 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.

Home Economics 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.

Home Economics 251. Household Equipment. (3-0-3); I, II. Principles and practical experience relative to selection, use, and care of equipment and appliances for the home. Principles of planning an efficient kitchen.

Home Economics 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.

Home Economics 320. Elements of Nutrition. (3-0-3); I, II, III. (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.

Home Economics 329. Human Nutrition. (3-0-3); I, II. Scientific approach to nutrition. Application of nutrition principles to children, adults, and the aged. National and world nutrition problems.

Home Economics 330. Quantity Food Purchasing. (3-0-3); I. Principles of marketing, sanitation, receiving, and storage of all food commodities for food service institutions.

Home Economics 331. Organization and Administration of Food Service I. (3-0-3); I. Prerequisite: Home Economics 130 and 231. Principles and problems of organization and administration as related to quality food service.

Home Economics 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.

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

Home Economics 335. Food Service Equipment. (3-0-3); II. Selection of equipment, layout, and design for quantity food service.

Home Economics 337. Advanced Food Production Management. (1-6-3); I, II.

Concurrently with HEC 334. Practical application of management principles for meal service and special functions.

Home Economics 340. Textile Testing. (0-4-2); II.

Prerequisites: Home Economics 240, Chemistry 102 and Chemistry 102A. Study of textile fiber and fabric testing procedures. Individual research. Taught alternate years.

Home Economics 341. Flat Pattern Design. (0-4-2).

Prerequisites: Home Economics 241 or consent of instructor. Costume design applied to pattern making and fitting using original designs by the students. Taught alternate years.

Home Economics 343. Household Textiles. (2-2-3); I, II.

Prerequisite: Home Economics 240. Selection, cost, care, standards, and testing of textiles used in the home.

Home Economics 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.

Home Economics 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.

Home Economics 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 fashion sales promotions.

Home Economics 351. Housing. (3-0-3); II. Architectural styles. Historic development of housing in the United States. Implications for housing from social and economic changes. Trends in the field of housing.

Home Economics 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.

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

Home Economics 362. Consumer Education. (3-0-3); I, II, III. (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.

Home Economics 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.

Home Economics 433. Diet Therapy. (3-0-3); II.

Prerequisites: Home Economics 431, 536, and Biol 332. Diet in disease; physiological basis for therapeutic diets; calculation and planning of diets for various problems. Taught alternate years.

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

Home Economics 451. Home Furnishings. (3-0-3); I, II. Design principles applied to interiors; selection of furnishings, and the design of floor plans.

Home Economics 452. Home Management. (3-0-3); I. Application of management principles as they relate to the home and the use of energy, time, and money.

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

Home Economics 454. Home Management House. (Three hours); I, II, III.

Prerequisites: Home Economics 231 and 452. Residence in home management house for one-half semester. Opportunities for assuming responsibilities in making decisions; management of the house; social experiences and group activities in home situation. Arrangements for residence must be made in advance.

Home Economics 470. Methods in Teaching Vocational Home Economics. (4-0-4); I, II.

Prerequisite: Junior or senior standing in home economics and admis-

sion to the Teacher Education Program. Needs and interests of high school students and their families; principles of learning and application through various techniques and types of lessons; planning for the year, the unit, and the day.

Home Economics 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.

471 (Vocational Section). A developmental approach to the interdisciplinary study of vocational education; legislation, programs, and organizations is included. Team teaching, outstanding guest speakers, and student participation provide the basic approach.

Home Economics 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.

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

Home Economics 481. History of Furnishings. (3-0-3) I. In-depth study of the history of furnishings from antiquity to the present. Historical influence on current styles is emphasized.

Home Economics 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.

Vocational Education 530. Evaluation Techniques. (3-0-3) II. The development and use of a framework of measurement and evaluation in vocational and industrial education.

Home Economics 536. Advanced Nutrition. (3-0-3); I. **Prerequisite:** HEC 329 and Biol 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.

Home Economics 538. Experimental Foods. (1-4-3); on demand. **Prerequisites:** Home Economics 130, Chemistry 101 and Chem 101A. Review and evaluation of published research; experimental methods applied to food research through individual and class investigation.

Home Economics 541. Tailoring. (1-4-3); I. **Prerequisite:** 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.

Home Economics 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.

Home Economics 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.

Home Economics 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.

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

Home Economics 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.

Home Economics 557. Interior Design. (3-0-3); 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.

Vocational Education 585. Principles and Philosophy of Vocational Education (3-0-3); I, II, III.

Prerequisite: Senior or graduate standing. Background, development, objectives, principles, philosophy, status, and trends of vocational education; interpretation of legislation affecting vocational education; and organization and administration of vocational education at all levels.

Home Economics 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.

Industrial Education and Technology

The Bachelor of Science degree offered by the Department of Industrial Education and Technology offers options in teaching and non-teaching technical fields. Areas of concentration in teaching are industrial education levels I, II, and III including orientation/exploration or preparation level. Areas of concentration in non-teaching are industrial technology with specializations and business or science emphasis.

The two-year programs provide in-depth technical specialties with related support courses necessary for a thorough understanding of theory and application.

Degrees

Industrial Education (Industrial Arts)

*Levels I and II

For an Area of Concentration

Technical Drawing	6
Electricity & Electronics	6
Graphic Arts	6
Woods-Construction	6
Metals-Manufacturing	6
Power & Fluids	6
Design	2
IE 300 and IE 475	6
Seminar	1
Approved technical electives	7
Minimum hours for area	52

*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.

Supplementary requirements:

Professional education requirements for secondary provisional certification including the professional semester. 22

For a Major:

Technical Drawing	6
Metals-Manufacturing	6
Woods-Construction	6
Seminar	1
IE 300 and IE 475	6
Approved technical electives with a maximum of 9 hrs. in any one area	11
Minimum hours for major	36

Supplementary requirements:

Professional education requirements for secondary provisional certification including the professional semester. 22

Industrial Education

(Vocational Industrial Technical Teacher Education)

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 four years of successful work experience (which can be validated) in the trade in which he proposes to teach; 2. or a graduate of an approved program of an area vocational school or technical institute and 1400 hours of supervised work experience; 3. or must earn 2,000 hours of supervised work experience to be eligible for certification.

Level III

For an Area of Concentration

I.	Supervisory Practices	3
	Trade and Technical Analysis	2
	Instruction Materials	2
	Methods in Voc. Ind. Education	3
	Student Teaching in Voc. Ind. Ed.	4-8
	Seminar in Voc. Ind. Ed.	1
	Plus approved electives	3
		21
II.	Technical Industrial Education	48

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 six semester hours may be allowed for supervised work experience.

*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.

For the Two-Year Program in Vocational Industrial Teacher Education

The individual completing this program and receiving the Associate of Applied Science degree must have three years of successful work experience (which can be validated) in the trade in which he proposes to teach or must earn 1400 hours of approved and supervised work experience or present a statement of eligibility of certification based on prior work experience as required in the Commonwealth of Kentucky.

	Sem. Hrs.
I. Industrial Education 320, 390, 391, 392, 393, and 394 (plus approved electives)	21
II. Technical Education	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.	
III. Requirements in Other Fields	
Communications	6
English 101	3
Elective in English or speech	3
Science and/or mathematics approved by the adviser	6
Social Science and/or humanities	3
Electives (by approval)	10
Minimum for the degree	64

Industrial Technology

Industrial technicians are employed in manufacturing, production, and manufacturing positions, which often require a combination of general, professional, and technical education for maximum success. Technical sales also offers the industrial technology graduate excellent opportunities in business and industry.

For an Area of Concentration in Industrial Technology:

I.	Core Requirements	
	Technical Drawing I	3
	Time and Motion	2
	Quality Control	3
	Supervisory Practices	3
	Industrial Design	2
	Industrial Practicum	2

Seminar	1
Total	16
II. Industrial Options — Select one of the following fields	18
Broadcast technology, construction technology, drafting and design technology, electrical technology, electronics technology, graphic arts technology, machine tool technology, mining technology, plastics technology, power & fluids technology, reclamation, welding technology, or woods technology.	
Approved technical electives	3
III. Emphasis: select one	
scientific emphasis	15
Approved electives in science and math	
business emphasis	
Approved electives in business and economics	15
Minimum hours for the area	52

For a Major in Industrial Technology:

I. Core Requirements	
Technical Drawing I	3
Time & Motion Study	2
Quality Control	3
Supervisory Practices	3
Industrial Design	2
Seminar for Industrial Technology	1
Total	14
II. Industrial Option: Select one of the following fields	12
Broadcast technology, construction technology, drafting and design technology, graphic arts technology, machine tool technology, mining technology, plastics technology, power & fluids technology, reclamation, welding technology, or woods technology.	
Technical electives	4
Minimum hours for the major	30

For a Minor in Reclamation Technology:

RT 301, 302, 303	11
CT 102 and MT 103	6
Approved electives	4
Minimum for a minor	21

Electives (By approval)

To be selected from the following courses:

- Biology 215, 357
- Agriculture 180, 207, 211
- Geoscience 250, 350
- Math 110
- Mining Technology 205

Two-Year Program 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.

Course Requirements and Suggested Course Sequence:

First Semester

	Sem. Hrs.
IE 103—Technical Drawing I	3
IE 240—Basic Electricity	3
R-TV 151—Intro. to Broadcast Techniques	2
Eng 101—Composition I	3
IE electives (By approval)	2
R-TV 155—Broadcast Performance	3
Total	16

Second Semester

IE 241—Basic Electronics	3
IE 341—Transistors and Semiconductors	3
IE 338—FCC license	1
R-TV 250—Audio Production and Direction	4
Math 152—College Algebra	3
Eng 192—Technical Composition	3
Total	17

Summer Session

*IE 139—Cooperative Study (Optional)	4
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Third Semester

IE 440—Industrial Electronics	3
IE 342—Communications Electronics	3
Math 141—Plane Trigonometry	3
R-TV 340—Video Production and Direction I	3
Math 110—Problem Solving Techniques	1
IE 244—Electrical Drafting and Design	3
Total	16

Fourth Semester

IE 346—Transmitter Electronics	4
IE 345—Television Electronics	4
Phys 202—Elementary Physics II	4
IE 320—Supervisory Practices	3
Total	15

Total 64

* Up to 12 hours may be taken in Cooperative Study 139-239-339 by a modified semester plan with the consent of adviser. This plan enables students to alternate semesters of on-campus studies with semesters of work experience in the field of study.

Two-Year Program 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 sub-contracting firms.

Course Requirements and Suggested Course Sequence:

First Semester

	Sem. Hrs.
CT 101—Introduction to Construction Technology	3
CT 201—Properties of Construction Materials	3
Eng 101—Composition I	3
Math 135—Mathematics for Technical Students	3
IE elective (By approval)	4
Total	16

Second Semester

CT 103—Materials Testing	3
CT 102—Surveying I	3
IE 103—Technical Drawing I	3
CT 203—Construction Methods & Equipment	3
IE elective (By approval)	3
Math 110—Problem Solving Techniques	1
Total	16

Summer Session

IE 139—Cooperative Study (Optional)	4
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Third Semester

CT 104—Surveying II	3
CT 202—Structural Design	3
CT 204—Codes—Contracts & Specifications	3
IE 344—Residential Wiring	2
IE 305—Housing	3
IE electives (By approval)	1
Total	15

Fourth Semester

Eng 192—Technical Composition	3
CT 205—Estimating and Construction Costs	3
CT 206—Construction Management	3
IE 349—Industrial Wiring	4
IE elective (By approval)	1
IE 320—Supervisory Practices	3
Total	17

Total 64

* Up to 12 hours may be taken in Cooperative Study 139-239-339 by a modified semester plan with consent of adviser. This plan enables students to alternate semesters of on-campus studies with semesters of work experience in the field of study.

Two-Year Program 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.

Course Requirements and Suggested Course Sequence:

First Semester	
	Sem. Hrs.
IE 103—Technical Drawing I	3
IE 111—Basic Wood Technics	3
Eng 101—Composition I	3
Math 152—College Algebra	3
IE 186—Manufacturing & Fabrication	3
Math 110—Problem Solving Techniques	1
	15
Second Semester	
IE 203—Technical Drawing II	3
IE 160—Intro. to Power and Fluid Mechanics	3
IE 286—General Metals II	3
IE 317—Time and Motion Study	2
Math 141—Plane Trigonometry	3
Eng 192—Technical Composition	3
	17
Summer Session	
*IE 139—Cooperative Study (Optional)	4
Third Semester	
IE Electives	2
IE 204—Descriptive Geometry	3
IE 301—Tool Layout and Design	3
IE 305—Housing	3
CT 202—Structural Design	3
	15
Fourth Semester	
IE 404—Architectural Drawing	3
IE 330—Industrial Design	2
IE 303—Technical Illustration	3
IE 319—Quality Control	3
IE 403—Machine Drawing & Design	3
IE 320—Supervisory Practices	3
	17
Total	64

* Up to 12 hours may be taken in Cooperative Study 139-239-339 by a modified semester plan with consent of adviser. This plan enables students to alternate semesters of on-campus studies with semesters of work experience in the field of study.

Two-Year Program 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.

Course Requirements and Suggested Course Sequence:

First Semester	
	Sem. Hrs.
IE 240—Basic Electricity	3
IE 344—Residential Wiring	2
Eng 101—Composition I	3
Math 152—College Algebra	3
IE electives (By approval)	4
	15
Second Semester	
IE 103—Technical Drawing I	3
IE 241—Basic Electronics	3
IE 243—Electric Power	3
Math 110—Problem Solving Techniques	1
Math 141—Plane Trigonometry	3
Eng 192—Technical Composition	3
	16

Summer Session	
*IE 139—Cooperative Study (Optional)	4
Third Semester	
IE 244—Electrical Drafting and Design	3
IC 348—Motors and Generators	4
IE 349—Industrial Wiring	4
Phys 202—Elementary Physics II	4
IE electives (By approval)	2
	17

Fourth Semester	
IE 340—Motor Control Devices	4
IE 347—Power Transformers and Distribution	4
IE 472—Basic Industries Practicum	2
IE electives (By approval)	6
	16
Total	64

* Up to 12 hours may be taken in Cooperative Study 139-239-339 by a modified semester plan with consent of adviser. This plan enables students to alternate semesters of on-campus studies with semesters of work experience in the field of study.

Two-Year Program 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.

Course Requirements and Suggested Course Sequence:

First Semester	
	Sem. Hrs.
IE 240—Basic Electricity	3
IE 344—Residential Wiring	2
IE 103—Technical Drawing I	3
Eng 101—Composition I	3
Math 152—College Algebra	3
IE electives (By approval)	2
	16
Second Semester	
IE 241—Basic Electronics	3
IE 243—Electric Power	3
IE 341—Transistors and Semiconductors	3
IE 338—FCC License	1
Eng 192—Technical Composition	3
Math 141—Plane Trigonometry	3
	16

Summer Session	
*IE 139—Cooperative Study (Optional)	4

Third Semester	
IE 342—Communications Electronics	3
IE 440—Industrial Electronics	3
IE 317—Time and Motion Study	2
IE 244—Electrical Drafting & Design	3
Math 110—Problem Solving Techniques	1
IE electives (By approval)	1
IE 320—Supervisory Practices	3
	16

Fourth Semester	
IE 345—Television Electronics	4
IE 346—Transmitter Electronics	4
IE 319—Quality Control	3
Phys 202—Elementary Physics II	4
IE electives (By approval)	1
	16
Total	64

* Up to 12 hours may be taken in Cooperative Study 139-239-339 by a modified semester plan with consent of adviser. This plan enables students to alternate semesters of on-campus studies with semesters of work experience in the field of study.

Two-Year Program 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.

Course Requirements and Suggested Course Sequence:

First Semester

	Sem. Hrs.
IE 102—Graphic Arts I	3
IE 103—Technical Drawing I	3
Eng 101—Composition I	3
Jour 101—Intro. to Mass Communications	3
IE elective (By approval)	3
Math 110—Problem Solving Techniques	1
	16

Second Semester

IE 202—Graphic Arts II	3
IE 302—Offset Lithography	3
Art 101—Drawing	2
Math 135—Mathematics for Technical Students	3
Jour 305—Newspaper Typography & Design	3
Eng 192—Technical Composition	3
	17

Summer Session

*IE 139—Cooperative Study (Optional)	4
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Third Semester

IE 317—Time and Motion Study	2
IE 322—Photography	2
IE 350—Machine Composition I	3
BA 160—Introduction to Business	3
IE elective (By approval)	2
IE 320—Supervisory Practices	3
	16

Fourth Semester

IE 351—Graphic Duplication	2
IE 450—Machine Composition II	3
Art 291—Color and Design	2
BA 350—Salesmanship	3
IE elective (By approval)	3
IE 319—Quality Control	3
	16
	Total 64

* Up to 12 hours may be taken in Cooperative Study 139-239-339 by a modified semester plan with consent of adviser. This plan enables students to alternate semesters of on-campus studies with semesters of work experience in the field of study.

Two-Year Program 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.

Course Requirements and Suggested Course Sequence:

First Semester

	Sem. Hrs.
IE 100—World of Technology	3
Math 135—Technical Math	3
IE 103—Technical Drawing I	3
Eng 101—Composition I	3
Math 110—Problem Solving Techniques	1
Technical Elective	3
	16

Second Semester

Eng 192—Technical Composition	3
IE 186—Manufacturing & Fabrication	3
IE 240—Basic Electricity	3
BA 160—Introduction to Business	3
Technical Elective	3
	15

Third Semester

IE 317—Time & Motion Study	2
IE 319—Quality Control	3
CT 103—Materials Testing	3
IE 327—Applied Industrial Management	3
Spch 370—Business & Professional Speech	3
Elective	3
	17

Fourth Semester

IE 422—Industrial Safety Standards & Enforcement	3
Psy 353—Industrial Psychology	3
IE 320—Supervisory Practices	3
Hist 385—Technology in America	3
IE 499—Numerical Control	4
	16
	Total 64

Two-Year Program 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.

Course Requirements and Suggested Course Sequence:

First Semester

	Sem. Hrs.
IE 103—Technical Drawing I	3
IE 186—Manufacturing Fabrication	3
IE 240—Basic Electricity	3
Eng 101—Composition I	3
Math 135—Mathematics for Technical Students	3
	15

Second Semester

IE 160—Intro. to Power and Fluid Mechanics	3
IE 203—Technical Drawing II	3
IE 204—Descriptive Geometry	3
IE 286—General Metals II	3
Math 152—College Algebra	3
IE electives (By approval)	2
	17

Summer Session

*IE 139—Cooperative Study (Optional)	4
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Third Semester

IE 319—Quality Control	3
IE 301—Tool Layout and Design	3
IE 386—Welding	3
IE 388—Machine Shop I	3
Eng 192—Technical Composition	3
Math 110—Problem Solving Techniques	1
	16

Fourth Semester

IE 303—Technical Illustration	3
IE 306—Plastics Mold Design and Construction	3
IE 330—Industrial Design	2
IE 486—Pattern Making and Foundry	2
IE 488—Machine Shop II	3
IE 320—Supervisory Practices	3
	16
	Total 64

* Up to 12 hours may be taken in Cooperative Study 139-239-339 a modified semester plan with consent of adviser. This plan enables students to alternate semesters of on-campus studies with semesters of work experience in the field of study.

Two-Year Program in Mining Technology

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

Course Requirements and Suggested Course Sequence:**First Semester**

	Sem. Hrs.
MT 101—Fund. of Mining and Safety Engineering	3
Geo 100—Physical Geology	3
IE 103—Technical Drawing I	3
Eng 101—Composition I	3
Math 135—Mathematics for Technical Students	3
Math 110—Problem Solving Techniques	1
	16

Second Semester

CT 102—Surveying I	3
MT 103—Mining Drafting	3
CT 103—Materials Testing	3
IE 240—Basic Electricity	3
IE elective (By approval)	1
IE 320—Supervisory Practices	3
	16

Summer Session

*IE 139—Cooperative Study (Optional)	4
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Third Semester

MT 201—Mining Equip., Controls, and Application	3
MT 202—Mine Design, Ventilation, and Drainage	3
MT 203—Mine Electrical Systems and Installation	3
MT 102—Mining Surveying	3
IE 160—Intro. to Power & Fluid Mechanics	3
IE elective (By approval)	1
	16

Fourth Semester

MT 204—Coal Preparation and Waste Disposal	3
MT 205—Mining Laws and Management	3
MT 206—Mine Systems Technology	3
Ag 207—Land Conservation & Forest Mgt.	3
Eng 192—Technical Composition	3
IE elective (By approval)	1
	16
Total	64

* Up to 12 hours may be taken in Cooperative Study 139-239-339 by a modified semester plan with consent of adviser. This plan enables students to alternate semesters of on-campus studies with semesters of work experience in the field of study.

Two-Year Program in Power & 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.

Course Requirements and Suggested Course Sequence:**First Semester**

	Sem. Hrs.
IE 160—Introduction to Power and Fluids Mechanics	3
IE 262—Fluid Power I	3
Eng 101—Composition I	3
Math 152—College Algebra	3
Electives by approval	4
	16

Second Semester

IE 261—Power Mechanics	3
IE 362—Fluid Power II	3
IE 103—Technical Drawing I	3
IE 317—Time and Motion	2
Math 110—Problem Solving Techniques	1
Elective by approval	4
	16

Third Semester

IE 360—Internal Combustion Engines I	3
IE 365—Instrumentation	3
IE 240—Basic Electricity	3
IE 319—Quality Control	3
IE 320—Supervisory Practices	3
Elective by approval	1
	16

Fourth Semester

IE 463—Heating, Ventilating and Air Conditioning	3
IE 460—Internal Combustion Engines II	3
IE 192—Technical Writing	3
Phys 201—Physics I	4
Electives by approval	3
	16
Total	64

Two-Year Program in Radiologic Technology

The associate degree program in radiologic technology is designed to prepare skilled technicians with a thorough knowledge of radiation protection, anatomy and physiology, radiation physics, darkroom chemistry, radiographic positioning, medical terminology, nursing procedures, pediatric radiography, topographic anatomy, radiation therapy, and nuclear medicine. Students must spend a minimum of 1,920 hours in an affiliated clinic or hospital that provides extensive radiology treatment.

Course Requirements and Suggested Course Sequence:**First Semester**

	Sem. Hrs.
RT 101—Radiologic Tech. I (First eight weeks)	4
RT 102—Radiologic Tech. II (Second eight weeks)	4
NAH 301—Medical Terminology	2
Eng 101—Composition I	3
Biol 331—Human Anatomy	3
	16

Second Semester

RT 111—Internship I (First eight weeks)	4
RT 212—Internship II (Second eight weeks)	4
Electives (By approval)	4
	12

Summer Session

RT 201—Radiologic Technology III	4
Biol 332—Human Physiology	3
	7

Third Semester

RT 213—Internship III (First eight weeks)	4
RT 214—Internship IV (Second eight weeks)	4
Electives (By approval)	3
	11

Fourth Semester

RT 202—Radiologic Technology IV	4
Eng—Composition elective	3
IE 320—Supervisory Practices	3
Electives (By approval)	6
	16

Summer Session

RT 215—Internship IV	4
Total	66

Two-Year Program in Reclamation Technology

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

Course Requirements and Suggested Course Sequence:**First Semester**

	Sem. Hrs.
Math 135—Mathematics for Technical Students	3
Geos 100—Physical Geology	3
IE 103—Technical Drawing I	3
CT 102—Surveying I	3
Math 110—Problem Solving Techniques	1
Technical elective (By approval)	3
	16

Second Semester

Chem 101—General Chemistry I	3
CT 104—Survey II	3
MT 103—Mining Drafting (cartography)	3
Eng 101—Composition I	3
Geos 350—Geomorphology	3
Chem 101A—General Chemistry I Lab	1
	16

Summer Session

*RcT 139—Cooperative Study (Optional)	4
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Third Semester

RcT 301—Reclamation Laws & Regulations	3
IE 320—Supervisory Practices	3
RcT 302—Reclamation Mgt. & Systems Planning I	4
Ag 211—Soils	3
Technical elective (By approval)	3
	16

Fourth Semester

MT 205—Mining Laws & Management	3
Eng 192—Technical Composition	3
RT 303—Reclamation Mgt. & Systems Planning II	4
Ag 207—Land Conservation & Forest Management	3
Technical elective (By approval)	3
	16
Total	64

* Up to 12 hours may be taken in Cooperative Study 139-239-339 a modified semester plan with consent of adviser. This plan enables students to alternate semesters of on-campus studies with semesters of work experience in the field of study.

Two-Year Program 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.

Course Requirements and Suggested Course Sequence:**First Semester**

	Sem. Hrs.
WT 101—Oxyacetylene Welding	3
WT 101A—Oxyacetylene Welding Laboratory	3
IE 103—Technical Drawing I	3
IE 186—General Metals I	3
Math 135—Mathematics for Technical Students	3
Math 110—Problem Solving Techniques	1
	16

Second Semester

WT 102—Arc Welding	3
WT 102A—Arc Welding Laboratory	3
CT 103—Materials Testing	3
IE 240—Basic Electricity	3
IE 319—Quality Control	3
IE elective (By approval)	1
	16

Summer Session

*IE 139—Cooperative Study (Optional)	4
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Third Semester

WT 201—Inert Gas Welding	3
WT 201A—Inert Gas Welding Laboratory	3
WT 205—Welding Metallurgy	3
WT 205A—Welding Metallurgy Laboratory	1
Eng 101—Composition I	3
IE 320—Supervisory Practices	3
IE elective (By approval)	1
	17

Fourth Semester

WT 202—Weld Joint Design and Testing	3
WT 202A—Weld Joint Design and Testing Laboratory	3
WT 204—Welding Codes and Blueprint Reading	3
Eng 192—Technical Composition	3
IE elective (By approval)	1
IE 317—Time & Motion Study	2
	16
Total	64

* Up to 12 hours may be taken in Cooperative Study 139-239-339 by a modified semester plan with consent of adviser. This plan enables students to alternate semesters of on-campus studies with semesters of work experience in the field of study.

Suggested Sequences for Baccalaureate Programs

The following programs have been devised to help students in selecting their courses and making their schedules. 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.

Provisional High School Certificate with Major in Industrial Arts**FRESHMAN YEAR****First Semester**

Eng 101—Composition I	3
IE 103—Technical Drawing I	3
IE 102—Graphic Arts I	3
Psy 154—Life-Oriented Gen. Psy.	3
Math 152—College Algebra	3
Elective	2
	17

Second Semester

Eng—Composition Elective	3
IE 100—World of Technology	3
IE 111—Basic Wood Technics	3
Sci 105—Intro. to Biological Science	3
PE—Activity course	1
Math 141—Plane Trigonometry	3
Elective	3
	17

SOPHOMORE YEAR**First Semester**

Eng 591—Technical Wiring	3
IE 203—Technical Drawing II	3
IE 186—Manufacturing Fabrication	3
Phys 201—Elementary Physics I	4
Hlth 150—Personal Health	2
	15

Second Semester

Ed 209—Foundations of Secondary Ed.	2
IE 240—Basic Electricity	3
Phys 202—Elementary Physics II	4
Humanities elective	3
Approved minor elective	3
	15

JUNIOR YEAR**First Semester**

IE 320—Supervisory Practices	3
Major requirement	2
Humanities elective	3
Approved minor elective	3
Econ 101—Intro. to American Economy	3
Social Sciences elective	2
	16

Second Semester

Social Sciences elective	3
Humanities elective	3
Ed 310—Prin. of Adolescent Development	3
Approved minor elective	4
Major Requirement	3
	16

SENIOR YEAR**First Semester**

IE 471—Seminar for Indus. Arts	1
Social Sciences elective	3
Approved minor elective	1
IE—Major requirement	4
IE 475—Teaching Indus. Arts	3
	12

Second Semester

Ed 477—Professional Semester.....	15
(The professional semester may be taken either semester of the senior year.)	

Provisional High School Certificate with an Area in Industrial Arts**FRESHMAN YEAR****First Semester**

Eng 101—Composition I.....	3
Sci 105—Intro. to Biological Science.....	3
Math 152—College Algebra.....	3
IE 103—Technical Drawing I.....	3
IE—Area requirement.....	3
Elective.....	2
	17

Second Semester

Eng. 192—Technical Composition.....	3
Math 141—Plane Trigonometry.....	3
Psy 154—Life-Oriented Gen. Psy.....	3
IE 100—World of Technology.....	3
Area requirement.....	3
Elective.....	1
	16

SOPHOMORE YEAR**First Semester**

Eng 591—Technical Writing.....	3
Phys 201—Elementary Physics I.....	4
Soc 101—General Sociology.....	3
Area requirement.....	3
Humanities elective.....	3
	16

Second Semester

Ed 209—Foundations of Sec. Ed.....	2
IE 203—Technical Drawing II.....	3
Area requirement.....	5
Activity course.....	1
Industrial options.....	4
	15

JUNIOR YEAR**First Semester**

Econ 101—Introduction to American Economy.....	3
Spch 370—Bus. and Prof. Speech.....	3
IE 320—Supervisory Practices.....	3
Area requirements.....	3
Industrial option.....	3
Hlth 150—Personal Health.....	2
	17

Second Semester

Ed 310—Principles of Adolescent Development.....	3
Social Sciences Elective.....	3
Area requirements.....	6
Industrial option.....	4
	16

SENIOR YEAR**First Semester**

Social Sciences Elective.....	3
IE 471—Seminar.....	1
IE 475—Teaching Industrial Arts.....	3
Area requirements.....	6
Industrial option.....	3
	16

Second Semester

Ed 477—Professional Semester.....	17
(The professional semester may be taken either semester of the senior year.)	
	17

Second Semester

Eng—Composition elective.....	3
IE 100—World of Technology.....	3
Psy 154—Life-Oriented General Psy.....	3
Math 152—College Algebra.....	3
Activity Course.....	1
Industrial option.....	3
	16

SOPHOMORE YEAR**First Semester**

Hlth 150—Personal Health.....	2
Math 141—Plane Trigonometry.....	3
Phys 201—Elementary Physics I.....	
or	
Chem 111—General Chemistry I.....	3
Chem 111A—General Chemistry I Lab.....	1
Acct 281—Prin. of Accounting I.....	3
Econ 201—Prin. of Economics I.....	3
	15

Second Semester

FA 160—Apprec. of the Fine Arts.....	3
Phys 202—Elementary Physics II.....	
or	
Chem 112—General Chemistry I.....	3
Chem 112A—General Chemistry II Lab.....	1
Acct 282—Prin. of Accounting II.....	3
Industrial Option.....	3
Eng—Literature elective.....	3
	16

JUNIOR YEAR**First Semester**

Spch 370—Bus. and Prof. Speech.....	3
Humanities elective.....	3
IE 317—Time and Motion.....	2
BA 350—Salesmanship.....	3
IE 330—Industrial Design.....	2
IE 320—Supervisory Practices.....	3
	16

Second Semester

BA 200—Intro. to Data Processing.....	3
Social Sciences elective.....	3
BA 504—Production Management.....	3
IE 319—Quality Control.....	3
English elective.....	3
Industrial Option.....	3
	18

SENIOR YEAR**First Semester**

IE 472—Basic Industries.....	2
Soc 376—Industrial Sociology.....	
or	
Econ 302—Labor Economics.....	3
Acct 502—Managerial Accounting.....	3
Industrial Option.....	3
Elective.....	6
	17

Second Semester

Social Sciences elective.....	3
Psy 353—Industrial Psychology.....	3
IE 473—Seminar for Indus. Tech.....	1
BA 301—Principles of Management.....	3
Elective.....	6
	16

* Program follows the business emphasis. Can be modified to provide for scientific emphasis.

Bachelor of Science Degree with an Area of Concentration in Industrial Technology***FRESHMAN YEAR****First Semester**

Eng 101—Composition I.....	3
IE 103—Technical Drawing I.....	3
Soc 101—General Sociology.....	3
Sci 105—Intro. to Biological Science.....	3
Industrial option.....	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.

Industrial Education 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.

Industrial Education 102. Graphic Arts I. (1-4-3); I, II. 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.

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

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 160. Introduction to Power and Fluid Mechanics. (2-2-3); I, II. Beginning instruction in energy sources and fluid systems. Steam engines, steam turbines, diesel engines, sparkignition engines, exhaust emissions are studied.

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

Industrial Education 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.

Industrial Education 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.

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

Industrial Education 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.

Industrial Education 222. General Crafts. (1-2-2); 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.

Industrial Education 240. Basic Electricity. (2-2-3); II, III. Ohms Law, series and parallel circuits, Kirchhoff's Laws, magnetism, electrical measuring instruments, transformers, inductance, capacitance, introduction to electronics.

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

Industrial Education 243. Electric Power. (2-2-3); I.
Prerequisite: Industrial Education 241 or consent of the instructor. Theory and operation of generators, motors, transformers, and electrical distribution systems. Emphasis on the selection, operation and repair of AC or DC motors and motor controls and related electrical drafting.

Industrial Education 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.

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

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

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 311. Design and Construction. (1-4-3); II.
Prerequisite: Industrial Education 211. Students design, plan, construct and finish and appropriate product requiring knowledge of advanced principles and techniques in wood technology.

Industrial Education 317. Time and Motion Study. (2-0-2); I.
Prerequisite: Upper division standing. Process charts, analysis of methods, materials, tools and equipment of industry for profit improvement.

Industrial Education 319. Quality Control. (2-2-3); II.
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.

Industrial Education 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.

Industrial Education 322. Photography. (1-2-2); I, II.
Prerequisite: Junior or senior standing and consent of instructor. 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).

Industrial Education 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.

Industrial Education 319. Quality Control. (2-2-3); II.

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.

Industrial Education 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.

Industrial Education 322. Photography. (1-2-2); I, II.

Prerequisite: Junior or senior standing and consent of instructor. 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).

Industrial Education 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.

Industrial Education 330. Industrial Design. (1-2-2); I, 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 341. Transistors and Semi-conductors. (2-2-3); I.

Prerequisite: Industrial Education 241 or consent of the instructor. Diodes, transistors, power supplies, audio-amplifier design.

Industrial Education 342. Communications Electronics. (2-2-3); II.

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.

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

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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 multifamily dwellings, commercial buildings, industrial plants and equipment.

Industrial Education 350. Machine Composition I. (1-4-3); I, II.

Prerequisite: Industrial Education 202 or consent of instructor. Designed to introduce students to the history and development of line-casting machines while acquainting them with keyboard operation, mechanical processes, slug casting, mechanical adjustments, and maintenance.

Industrial Education 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.

Industrial Education 360. Internal Combustion Engines I. (2-2-3); I.

II. Study of operating cycle and maintenance procedures on spark ignition, diesel, and wankel engines.

Industrial Education 362. Fluid Power II. (2-2-3); I, II.

Prerequisite: Fluid Power I. To gain an in-depth knowledge of fluid systems as they are used in modern industry.

Industrial Education 364. Career and Vocational Guidance. (3-0-3).

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.

Industrial Education 365. Instrumentation. (2-2-3); I, II. Techniques of properly instrumenting test cells with such devices as pitot tubes, manometers and electronic devices.

Industrial Education 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.)

Industrial Education 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.)

Industrial Education 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 Training 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.)

Industrial Education 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 nondestructive testing.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 395. Special Problems in Vocational Industrial Education. (One-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.

Industrial Education 398. Supervised Field Experience. (One to six 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 440. Industrial Electronics. (2-2-3); II.

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.

Industrial Education 450. Machine Composition II. (1-4-3); II.

Prerequisite: Industrial Education 350. A follow-up course to Machine Composition I. (IE 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 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.

Industrial Education 486. Patternmaking and Foundry. (1-2-2); II.

Casting of hot metals with activities in pattern development, sand testing, and mold design.

Industrial Education 488. 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.

Industrial Education 496. Organization and Management of the Laboratory. (2-0-2); I.

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.

Industrial Education 497. Seminar in Vocational Industrial Education. (1-0-1); II. Current problems, issues and trends in vocational industrial education.

Industrial Education 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.

Vocational Education 530. Evaluation Techniques. (3-0-3); II. The development and use of a framework of measurement and evaluation in vocational and industrial education.

Industrial Education 541. Electricity-Electronics Workshop for Teachers. (2-2-3); III.

Prerequisite: Senior industrial education major or experienced teacher. Designed for teachers at all levels to improve background in electricity-electronics. Laboratory experiments, demonstrations, demonstration equipment, projects, curriculum, and methods of teaching electrical concepts, teaching aids.

Industrial Education 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.

Vocational Education 585. Principles and Philosophy of Vocational Education. (3-0-3); I, III.

Prerequisite: Senior or graduate standing. Background, development, objectives, principles, philosophy, status and trends of vocational education; interpretation of legislation affecting vocational education; and organization and administration of vocational education at all levels.

Industrial Education 588. Machine Shop III. (1-4-3); II.

Prerequisite: Industrial Education 388. Advanced tool and machining theory, with emphasis on production machining, and progressive tooling design for numerical control applications.

Industrial Education 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.

Vocational Education 598. Career and Vocational Guidance. (3-0-3). Study of the importance of work; use and selection of tests to assist in the vocational choice; methods and techniques to promote career planning and vocational development.

Construction Technology

Construction Technology 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.

Construction Technology 102. Surveying I. (1-4-3); I, II. Basic introduction to surveying methods plus introduction to surveying equipment.

Construction Technology 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.

Construction Technology 104. Surveying II. (1-4-3); I, II. An extension of Surveying I with more in-depth field experience.

Construction Technology 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.

Construction Technology 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.

Construction Technology 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.

Construction Technology 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.

Construction Technology 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.

Construction Technology 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

Mining Technology 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.

Mining Technology 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.

Mining Technology 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.

Mining Technology 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.

Mining Technology 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.

Mining Technology 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.

Mining Technology 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.

Mining Technology 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.

Mining Technology 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

Radiologic Technology 101. Radiologic Technology I. (2-4-4); I. Introduction to medical radiologic techniques including professional ethics, radiation protection, medical terminology, and radiologic physics.

Radiologic Technology 102. Radiologic Technology II. (2-4-4); I. Elementary radiographic technique and positioning as well as introduction of the prime factors of radiography, including positioning of the abdomen, extremities, and spine.

Radiologic Technology 111. Internship I. (0-20-4); II. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist with emphasis on patient handling, records, and study of procedures.

Radiologic Technology 201. Radiologic Technology III. (2-4-4); III. Advanced radiologic technique, radiographic quality control, formulation of techniques, study of generating apparatus, positioning for the skull and face, and simple special procedures.

Radiologic Technology 202. Radiologic Technology IV. (2-4-4); II. Advanced radiologic technique with emphasis on special procedure radiography, radiographic clarity, and body habitus technique.

Radiologic Technology 212. Internship II. (0-20-4); II. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist with emphasis on positioning for extremities.

Radiologic Technology 213. Internship III. (0-20-4); I. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist with emphasis on advanced positioning.

Radiologic Technology 214. Internship IV. (0-20-4); I. Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist with emphasis on advanced positioning and technique development.

Radiologic Technology 215. Internship V. (0-20-4). Clinical experience in an affiliated hospital radiology department under the supervision of a registered technologist with emphasis on special techniques, development of skills in all positioning areas, and review of all program training in skills areas.

Reclamation Technology

Reclamation Technology 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.

Reclamation Technology 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.

Reclamation Technology 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

Welding Technology 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.

Welding Technology 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.

Welding Technology 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.

Welding Technology 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.

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

Welding Technology 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.

Welding Technology 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.

Welding Technology 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.

Welding Technology 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.

Welding Technology 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.

Welding Technology 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 provides preparatory programs at the two-year associate degree level in nursing and other allied health fields. A pre-professional program is maintained for those students who want to attend Morehead State University but desire to continue their health field education in a professional preparatory program in another institution.

Two-year Program for Medical Assistants

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 assistants program. For additional information, contact the head of the Department of Nursing and Allied Health or write to the director of admissions.

Course Requirements and Suggested Course Sequence:

First Semester		Sem. Hrs.
NAH 100—Orientation to Allied Health	1	
Eng 101—Composition I	3	
Sci 105—Introduction to Biological Sciences	3	
Psy 154—Life-Oriented General Psychology	3	
BE 212—Intermediate Typing	3	
BE 250—Filing Systems	1	
BE 399—Medical Office Machines	1	
	15	
Second Semester		
NAH 205—Medical Assisting I	3	
NAH 202—Basic Pharmacology	2	
Eng 102—Composition II	3	
Biol 331—Human Anatomy	3	

NAH 301—Medical Terminology	2
HEc 220—Nutrition for Nurses	3
BE 262—Machine Transcription (Medical)	1
	17

Third Semester

NAH 306—Medical Assisting II	6
Biol 332—Human Physiology	3
Biol 333—Human Physiology Lab	1
NAH 303—Interpersonal Relationships	3
Biol 218—Elem. Lab. Microbiological Techniques	1
BE 290—Secretarial Accounting	3
	17

Fourth Semester

NAH 308—Medical Assisting III	6
BE 332—Executive Secretarial Procedures	3
Hlth 303—Community Health	3
Hlth 203—Safety and First Aid	3
PDI 100—Personal Development	1
	16
Total	64

Two-Year Program 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 to the director of admissions at Morehead State University.

Requirements:

First Semester

Eng 101—Composition I	3
Biol 331—Human Anatomy	3
NAH 202—Basic Pharmacology	2
NAH 302—Medical Terminology	2
Nurs 201—Fundamentals of Nursing	7
	17

Second Semester

NAH 303—Interpersonal Relationships	3
Biol 332—Human Physiology	3
HEc 220—Nutrition for Nurses	3
Nurs 202—Medical-Surgical Nursing I	8
	17

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Nurs 203—Psychiatric Nursing	3
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Third Semester

Eng 102—Composition II	3
Nurs 304—Medical-Surgical Nursing II	8
Biol 217—Elementary Medical Microbiology	4
Biol 333—Human Physiology Laboratory	1
PDI 100—Personal Development	1
	17

Fourth Semester

Psy 154—General Psychology (Life-Oriented)	3
Nurs 305—Pediatric Nursing (½ semester)	5
Nurs 306—Obstetric Nursing (½ semester)	5
Nurs 360—Nursing Trends	2
Elective	1
	16
Total	70

Pre-Nursing

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 a baccalaureate program at another institution, a pre-nursing program is offered. Those enrolling in the pre-nursing program who maintain a "C" average over all and a "C" average in related science courses are given preference over new applicants for enrollment in the nursing program the next semester. For 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, however, 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.

Description of Courses

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

Nursing 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.

Nursing 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.

Nursing 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.

Nursing 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.

Nursing 305. Pediatric Nursing. (7-12-5); I, II (½ 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.

Nursing 306. Obstetric Nursing. (7-12-5); I, II (½ 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.

Nursing 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.

Allied Health

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

Nursing and Allied Health 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.

Nursing and Allied Health 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.

Nursing and Allied Health 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.

Nursing and Allied Health 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.

Nursing and Allied Health 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.

Nursing and Allied Health 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.

Nursing and Allied Health 306. Medical Assisting II. (3-12-6); I.

Prerequisite: NAH 202. This course is designed to enable the student to provide an environment for the patient that is therapeutically conducive to health. Learning experiences 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.

Nursing and Allied Health 308. Medical Assisting III. (3-12-6); II.

Prerequisite: NAH 306. A continuation of Nursing and 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.

Nursing and Allied Health 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 nonprofessional personnel.

Nursing and Allied Health 352. 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 responsibilities as a participating team member; learns to work with other professional and non-professional personnel.

Nursing and Allied Health 353. 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 responsibilities as a participating team member; learns to work with other professional and non-professional personnel.

Nursing and Allied Health 375. Student Supervision in the Clinical Facility. (3-0-3); III. Study of the basic principles of student supervision in the clinical facility of a health agency. Designed to help teachers in health occupations education acquire the skills necessary to direct the student's clinical experience for the most desirable learning.

Nursing and Allied Health 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 and Allied Health 461. Legal Trends of Health Occupations Education. (3-0-3); III. A study of the legal development of health occupations education under vocational education at the national level and in Kentucky. State licensure laws and Federal legislation will be

included to the extent that it is related to health occupations education. Educational trends in the health field will be considered from current literature and legislation.

Nursing and Allied Health 530. Evaluation Techniques. (3-0-3); II. The development and use of a framework of measurement and evaluation in vocational and industrial education. Includes developing validity and reliability in measuring instruments designed to assess achievement of performance objectives in vocational-industrial education; developing and conducting studies of regional needs and developing follow-up studies of graduates and dropouts.

Nursing and Allied Health 585. Principles and Philosophy of Vocational Education. (3-0-3); I, II, III.

Prerequisite: Senior or graduate standing. Background, development, objectives, principles, philosophy, status, and trends of vocational education; interpretation of legislation affecting vocational education; and organization and administration of vocational education at all levels.

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
Clerical Studies
Secretarial Studies

Associate Degrees

Accounting

Business Administration

Data Processing
Real Estate
Small-Business Management

Business Education

Office Management
Secretarial Studies

Bachelor Degrees

Accounting

BBA—option

BS—major

BS—minor

Business Administration

BBA—Data Processing—option

BBA—Finance—option

BBA—Management—option

BBA—Marketing—option

BS—Business Administration—major

BS—Marketing—major

BS—Business Administration—minor

BS—Business Data Processing—minor

BS—Marketing—minor

Business Education

BS—Concentration

BS—Secretarial Studies Teaching Certificate

BS—General Business Teaching Certificate

BS—Secretarial Studies—non-teaching—minor

BS—General Business—non-teaching—minor

Economics

BBA—option

BA—major

BS—major

Graduate Degrees

MBA—Master of Business Administration

MBE—Master of Business Education

Accounting

Specific Degrees

BS Degree—Accounting Major

Accounting 281, 282, 384, 385, 387, 390, 483 21

Electives in accounting approved by department 12

33

BS Degree—Accounting Minor

Accounting 281, 282, 384, 385, 390 15

Electives in accounting approved by department 6

21

BS Degree—Accounting Major with Teacher Certification

Same as BS Degree (Accounting 281, 282, 384, 385, 387, 390, 483) 21

Electives in accounting approved by department 12

Business Education 471 1

34

BBA Degree—Accounting Option

Business Administration Core 34

Accounting 281, 282 6

Business Admin. 200, 252, 301, 304, 360, 461, 472 21

Business Education 221 3

Economics 350 3

Accounting Option Requirements 21

Accounting 384, 385, 387, 390, 483 15

Electives in accounting approved by department 6

General education courses + degree requirements 128

Students selecting the BS Degree—Accounting Major will also select an area of minor study or another area of major study to complement the accounting major.

Students selecting the BBA Degree—Accounting Option will achieve a minor in accounting plus the six hours of Accounting 281 and 282, and this degree permits a broad, supporting business curriculum in management, marketing, finance, and economics.

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

For student information, suggested outlines of curricula for the BS Degree—Accounting Major and the BBA Degree—Accounting Option are shown below. If these general outlines are followed, the student may meet all University, school, and department requirements on a timely basis for degree completion within four years. Summer school may enable earlier completion of the programs.

Associate of Applied Business Degree—A.A.B.— Accounting

AAB Degree—Accounting

Accounting 281, 282, 384, 385, 387, 390 18

Other required business & nonbusiness courses 38

General elective courses 9

General education courses + degree requirements 65

Suggested Course Sequences for Baccalaureate Programs

The following programs have been devised to help students in selecting their courses and arranging their schedules. These suggested programs 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 Science, Accounting Major

FRESHMAN YEAR

First Semester

*Math 160—Mathematics for Bus. & Econ. 4

*Eng 101—Composition I 3

Acct 281—Principles of Accounting I 3

*Sci—Physical Sciences 3

*PE—Activity course 1

Elective 3

17

Second Semester

BA 252—Math. of Finance 3

*Eng—Composition Elective 3

Acct 282—Principles of Accounting II 3

*Sci—Biological Sciences 3

*PE—Activity course 1

Elective 3

16

SOPHOMORE YEAR**First Semester**

*Econ 201—Principles of Economics I	3
*Hlth 150—Personal Health	2
Acct 384—Intermediate Accounting I	3
*Humanities elective	3
*Social sciences elective	3
Elective	3
	17

Second Semester

*Econ 202—Principles of Economics II	3
*Math 354—Business Statistics	3
Acct 385—Intermediate Accounting II	3
*Eng—Literature elective	3
Elective	3
	15

JUNIOR YEAR**First Semester**

Acct 390—Cost Accounting	3
Acct 387—Income Tax	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
Accounting elective	3
BA 461—Business Law I	3
Electives	9
	18

Second Semester

Accounting electives	6
BA 561—Business Law II	3
Electives	6
	15

Total hours 128

*To fulfill University general education requirements and/or certain requirements of the School of Business and Economics.

Bachelor of Business Administration, Accounting Option**FRESHMAN YEAR****First Semester**

*Math 160—Mathematics for Bus. and Econ.	4
**BA 201—Intro. to Computers	3
*Eng 101—Composition I	3
**Acct 281—Principles of Accounting I	3
*PE—Activity course	1
*Sci—Physical Sciences	3
	17

Second Semester

**BA 252—Math. of Finance	3
*Social Sciences elective	3
*Eng—Composition elective	3
**Acct 282—Principles of Accounting II	3
*PE—Activity course	1
*Sci—Biological Sciences	3
	16

SOPHOMORE YEAR**First Semester**

**BE 221—Business Communications	3
*Econ 201—Principles of Economics I	3
*Hlth 150—Personal Health	2
Acct 384—Intermediate Accounting I	3
*Humanities elective	3
Elective	3
	17

Second Semester

*Math 354—Business Statistics	3
*Econ 202—Principles of Economics II	3
Acct 385—Intermediate Accounting II	3
*Eng—Literature elective	3
*Social Sciences elective	3
	15

JUNIOR YEAR**First Semester**

Acct 390—Cost Accounting	3
Acct 387—Income Tax	3
**Econ 350—Microeconomics	3
**BA 360—Business Finance	3
*Spch 370—Business and Professional Speech	3
	15

Second Semester

Accounting electives	6
**BA 301—Principles of Management	3
*Humanities elective	3
Elective	3
	15

SENIOR YEAR**First Semester**

Acct 483—Auditing	3
Accounting elective	3
**BA 304—Marketing	3
**BA 461—Business Law I	3
Electives	6
	18

Second Semester

Accounting electives	6
**BA 472—Business Policy	3
BA 561—Business Law II	3
Elective	3
	15

Total Hours 128

*To fulfill University general education requirements and/or certain requirements of the School of Business and Economics.

**To fulfill Bachelor of Business Administration core requirements.

Students planning to sit for a professional examination such as the Certified Public Accountant 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.

Associate Degree in Accounting (AAB)**First Semester**

Eng 101—Composition I	3
BA 160—Intro. to Business	3
Spe 210—Listening	3
Acct 281—Principles of Accounting I	3
Math 160—Math for Bus. & Econ.	4
	16

Second Semester

Eng 102—Composition II	3
BA 201—Intro. to Computers	3
Econ 201—Principles of Economics I	3
Acct 282—Principles of Accounting II	3
BA 252—Math of Finance	3
BE 135—Intro. to Electronic Calculators	1
	16

Third Semester

BE 221—Business Communications	3
Econ 202—Principles of Economics II	3
Acct 384—Intermediate Acct I	3
Acct 390—Cost Accounting	3
*Elective	3
	15

Fourth Semester

BA 301—Principles of Management	3
Acct 385—Intermediate Acct II	3
Acct 387—Income Tax	3
BA 461—Business Law I	3
*Elective	3
*Elective	3
	18

TOTAL 65

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

All courses in this program may apply to the BBA or BS 4-year degree programs. Note that the 4-year programs require additional lower division electives which must be taken.

Description of Courses

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

Accounting 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.

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

Accounting 384. Intermediate Accounting I. (3-0-3); I, II. Prerequisite: Accounting 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.

Accounting 385. Intermediate Accounting II. (3-0-3); I, II. Prerequisite: Accounting 384; Business Administration 252. 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.

Accounting 386. Internship in Accounting. (One to four hours); I, II, III. Prerequisite: Accounting 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.

Accounting 387. Income Tax. (3-0-3); I, II. Prerequisite: Accounting 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 includes brief survey of taxation of partnerships, corporations, estates, trusts, and gifts.

Accounting 390. Cost Accounting I. (3-0-3); I, II. Prerequisite: Accounting 282. Control and classification of manufacturing costs; job order and process cost analysis; materials, labor and overhead analysis; joint and by-product costing.

Accounting 438. Accounting for Business Combinations. (3-0-3); I. Prerequisite or corequisite: Accounting 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.

Accounting 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.

Accounting 482. Advanced Accounting. (3-0-3); I. Prerequisite: Accounting 384. Special accounting problems; partnerships; installment sales; consignments; home office and branch accounting.

Accounting 483. Auditing. (3-0-3); I. Prerequisite: Accounting 385. Accounting principles applied to internal control systems; audit working papers; detail audit; internal audit; special and fractional audits; audit reports; tests and procedures used in auditing; ethical responsibilities of CPAs.

Accounting 502. Managerial Accounting. (3-0-3); I, II, III. Prerequisites: Accounting 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.

Accounting 506. Theory of Accounts. (3-0-3); I. Prerequisite: Accounting 385. Study of development of accounting theory; application of theory to income measurement, asset valuation, and equities; review of current literature in the field and FASB, CASB, SEC, AICPA, and AAA pronouncements affecting theory.

Accounting 528. Governmental Accounting. (3-0-3); II. Prerequisite: Accounting 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.

Accounting 570. Research Problems in Accounting. (One to three hours); I, II, III. Prerequisites: Graduate standing with minor (or 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.

Accounting 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.

Accounting 587. Advanced Tax Accounting. (3-0-3); II. Prerequisite: Accounting 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.

Accounting 590. Cost Accounting II. (3-0-3); II. Prerequisites: Accounting 390. Cost analysis for planning, evaluation, and control. Standard costs; direct costing; budgets; cost and profit analysis; alternative choice decisions; linear programming; capital budgeting.

Accounting Course Cycle

No.	Course	Fall	Spring	Summer
281	Principles of Accounting I			
384	Intermediate Accounting I	X	X	X
385	Intermediate Accounting II	X	X	
386	Internship in Accounting	X	X	X
387	Income Tax	X	X	X
390	Cost Accounting I	X	X	X
438	Business Combinations	X		
476	Special Problems in Accounting	X	X	X
482	Advanced Accounting	X		
483	Auditing	X	X	
502	Managerial Accounting	X	X	X
506	Theory of Accounts	X		
528	Governmental Accounting		X	
570	Research Problems in Accounting	X	X	X
584	C.P.A. Problems		X	
587	Advanced Tax Accounting		X	
590	Cost Accounting II		X	

Business Administration

The Department of Business Administration offers the following programs:

1. A Master of Business Administration
2. An OPTION with concentrations in business administration in the following areas in a BBA degree:
 - a. Data Processing
 - b. Finance
 - c. Management
 - d. Marketing
3. A MAJOR in the BS degree in the following areas:
 - a. Business Administration
 - b. Data Processing
 - c. Marketing
4. A MINOR in the BS degree in the following areas:
 - a. Business Administration
 - b. Data Processing
 - c. Marketing
5. Two-year Associate of Applied Business (AAB) degrees in the following areas:
 - a. Data processing

- b. Real Estate
- c. Small Business Management

Requirements for the Bachelor of Business Administration Degree—B.B.A.

The general education and core courses in this program are designed to provide the student in business administration with a broad base from which to pursue coursework in his special area of interest. Since all business functions are interrelated, the potential business manager must be acquainted with the basic areas of finance, marketing, accounting, management, business law, economics, and communications. The general education and basic core courses are listed below; the student (in consultation with his adviser) is expected to plan his program so that necessary prerequisites are met.

I. General Education

(See catalog section on Academic Information for University General Education Requirements.)

	Sem. Hrs.
Communications and Humanities.....	18
(Must include Speech 370)	
Science and Mathematics.....	12
(Must include Mathematics 160 and 354)	
Social Science and Economics.....	12
(Must include Econ 201 and 202)	
Health and Physical Education.....	4
II. Business Administration Core.....	33
Acct.—281, 282.....	6
BA—200*, 252, 301, 304, 360, 461, 472.....	21
BE—221.....	3
Econ—350.....	3

*Students may substitute BA 201 for BA 200. Students who elect the option in data processing will take BA 201.

III. Option Requirements..... 21

(a.) Accounting option—See Department of Accounting

(b.) 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.....	12
Acct.—384, 385.....	6
BA—560.....	3
Econ—342.....	3

Electives in business and economics approved by department..... 9

(c.) 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 technical skills, students are provided with maximum breadth in the range of available elective courses.

Required courses.....	12
Acct.—390 or 502.....	3
BA—311, 504.....	6
Econ—302.....	3

Electives in business and economics approved by department..... 9

(d.) 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 distributing and manufacturing concerns, wholesale 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..... 12
BA—350, 453, 455, 552

Electives in business and economics approved by department..... 9

(e.) 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..... 21
BA 201*, 202 or 260, 210, 215, 315, 320, 405, 515.

*BA 201 will be taken as part of the business administration core. Students who have taken BA 200 as part of the business administration core will not be required to complete BA 201.

IV. General Electives..... 27

(Selected in consultation with departmental adviser)

Minimum for BBA Degree..... 128 Sem. Hrs.

Bachelor of Science Degree Programs—BS—Business Administration

MAJOR in Business Administration

The core for the Bachelor of Business Administration degree, consisting of 33 hours of required coursework, serves as the major in Business Administration for the Bachelor of Science degree. In addition, students completing this major are required to include the following general education courses in their program:

Econ 201, 202
Math 160, 354
Speech 370

MAJOR in Data Processing

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 completing this major are required to include the following as general education courses in their program:

Econ 201, 202
Math 160, 354
Speech 370

	Sem. Hrs.
Required Courses.....	33
Acct 281, 282.....	6
BA 200 or 201, 202 or 260, 210, 215, 252, 315, 320, 405, 515.....	27

MAJOR in Marketing

The major in marketing is recommended for students who are interested in a 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 completing this major are required to include the following as general education courses in their program:

Econ 201, 202
Math 160, 354
Speech 370

	Sem. Hrs.
Required Courses	33
Acct 281, 282	6
BA 200, 301, 304, 350, 450, 453, 455, 552	24
Econ 350	3
Elective	3
(To be selected from BA 351, 451)	

MINOR in Business Administration

	Sem. Hrs.
Courses required	24
Acct—281, 282	6
BA—200, 252, 301, 360, 461	15
Elective in business or economics approved by department	3
In addition, students completing this minor are required to include Econ 201 and 202 as part of their general education courses.	

MINOR in Data Processing

Courses required	24
BA 201, 202 or 260, 210, 215, 315, 320, 405, 515	

MINOR in Marketing

	Sem. Hrs.
Required courses	24
Acct—281	3
BA—200, 304, 453, 552	12
Electives—to be chosen from the following:	
BA 305, 350, 351, 450, 451, 455	9
In addition, students completing this minor are required to include Econ 201 and 202 as part of their general education courses.	

Associate Degree Programs

Associate of Applied Business Degree — A.A.B. — Data Processing

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

Course Requirements and Suggested Course Sequence:

First Semester	
Eng 101—Composition I	3
Math 160—Math for Bus. & Econ	4
BA 160—Introduction to Business	3
BA 201—Introduction to Computers	3
BA 202—Computer Programming BASIC	3
	16
Second Semester	
Eng 102—Composition II	3
BE 221—Business Communications	3
Acct 281—Principles of Accounting	3
BA 210—Computer Programming Fundamentals	3
BA 260—FORTRAN	3
Spch 110—Basic Speech	3
	18
Third Semester	
Acct 282—Principles of Accounting II	3
Econ 101—Introduction to American Economy	3
BA 215—Business Computer Programming I	3
BA 320—Computerized Business Systems	3
—Electives	3
	15

Fourth Semester

BA 315—Business Computer Prog. II	3
BA 252—Math of Finance	3
BA 405—Systems Analysis & Design	3
—Electives	6
	15
TOTAL	64

Associate of Applied Business Degree—A.A.B.—Real Estate

The two-year program in real estate is recommended for students who desire to become real estate salesmen or brokers, as well as those who are presently engaged as part or full-time real estate persons.

Course Requirements and Suggested Course Sequence:

First Semester

Eng 101—Composition I	3
Acct 281—Principles of Accounting I	3
BA 105—Real Estate Principles I	3
Soc 101—General Sociology	3
Econ 201—Principles of Economics I	3
	15

Second Semester

Acct 282—Principles of Accounting II	3
BA 120—Real Estate Marketing I	3
BA 125—Appraising	3
Econ 202—Principles of Economics II	3
BA 252—Math of Finance	3
	15

Third Semester

BA 330—Farm Brokerage	3
BA 225—Real Estate Finance	3
BA 205—Real Estate Principles II	3
BA 409—Life & Health Insurance	3
Electives	6
	18

Fourth Semester

BA 303—Real Estate Marketing II	3
BA 335—Real Estate Investment	3
BE 221—Business Communications	3
BA 408—Risk Mgmt. & Casualty Ins.	3
Electives	5
	17
TOTAL	65

Associate of Applied Business Degree—A.A.B.—Small Business Management

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

Course Requirements and Suggested Course Sequence:

First Semester

Eng 101—Composition I	3
BA 200—Introduction to Data Processing	3
Spch 110—Basic Speech	3
Econ 101—Intro. to American Economy	3
Electives	4
	16

Second Semester

Eng 102—Composition II	3
BE 136—Business Calculations	4
Acct 281—Principles of Accounting I	3
BE 221—Business Communications	3
Elective	3
	16

Third Semester

Acct 282—Principles of Accounting II	3
BA 304—Marketing	3
BA 461—Business Law	3

BA 310—Small Business Organization.....	3
BA 252—Math of Finance.....	3
Elective.....	2
	17
Fourth Semester	
BE 363—Office Management.....	3
BA 311—Personnel Management.....	3
BA 305—Purchasing.....	3
Electives.....	6
	15
Total	64

Suggested course sequences for Baccalaureate Programs

The following programs have been devised to help students in selecting their courses and arranging their schedules. These suggested programs need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

BBA Degree Data Processing Option FRESHMAN YEAR

First Semester	
Eng 101—Composition I.....	3
Math 160—Mathematics for Bus. and Econ.....	4
Social Sciences elective.....	3
PE—Activity.....	1
Sci—Physical Science.....	3
BA 201—Introduction to Computers.....	3
	17
Second Semester	
Eng 102—Composition II.....	3
BA 202—Computer Programming BASIC or	
BA 260—FORTRAN Programming.....	3
Social Sciences elective.....	3
Humanities elective.....	3
Sci—Biological Science.....	3
PE—Activity.....	1
	16

SOPHOMORE YEAR

First Semester	
Literature elective.....	3
BA 210—Computer Programming Fundamentals.....	3
Acct 281—Principles of Accounting I.....	3
Econ 201—Principles of Economics I.....	3
Hlth 150—Personal Health.....	2
BA 252—Math of Finance.....	3
	17
Second Semester	
Econ 202—Principles of Economics II.....	3
Spch 370—Business and Professional Speech.....	3
BE 221—Business Communications.....	3
Acct 282—Principles of Accounting II.....	3
Elective.....	3
	15

JUNIOR YEAR

First Semester	
BA 301—Principles of Management.....	3
BA 360—Business Finance.....	3
BA 215—Business Computer Programming I.....	3
Humanities elective.....	3
Electives.....	4
	16
Second Semester	
BA 304—Marketing.....	3
BA 315—Business Computer Programming II.....	3
BA 320—Computerized Business Systems.....	3
Math 354—Business Statistics.....	3
Electives.....	5
	17

SENIOR YEAR

First Semester	
Econ 350—Microeconomics.....	3
BA 405—Systems Analysis and Design.....	3

BA 461—Business Law I.....	3
Electives.....	6
	15
Second Semester	
BA 472—Business Policies and Problems.....	3
BA 515—D.P. Field Project.....	3
Electives.....	9
	15

BBA Degree Finance Option FRESHMAN YEAR

First Semester	
Eng 101—Composition I.....	3
Math 160—Mathematics for Bus. and Econ.....	4
Social Sciences elective.....	3
Hlth 150—Personal Health.....	2
PE—Activity.....	1
Sci—Physical Science.....	3
	16
Second Semester	
Eng 102—Composition II.....	3
BA 200—Introduction to Data Processing.....	3
Social Sciences elective.....	3
BA 252—Math of Finance.....	3
PE—Activity.....	1
Sci—Biological Science.....	3
	16

SOPHOMORE YEAR

First Semester	
Literature Elective.....	3
BE 221—Business Communications.....	3
Acct 281—Principles of Accounting I.....	3
Econ 201—Principles of Economics I.....	3
Humanities elective.....	3
Elective.....	2
	17
Second Semester	
Acct 282—Principles of Accounting II.....	3
Econ 202—Principles of Economics II.....	3
BA 304—Marketing.....	3
Electives.....	6
	15

JUNIOR YEAR

First Semester	
BA 301—Principles of Management.....	3
Econ 350—Microeconomics.....	3
Math 354—Business Statistics.....	3
Humanities elective.....	3
Acct 384—Intermediate Accounting I.....	3
Elective.....	2
	17
Second Semester	
BA 360—Business Finance.....	3
Acct 385—Intermediate Accounting II.....	3
Spch 370—Business and Professional Speech.....	3
Electives.....	8
	17

SENIOR YEAR

First Semester	
BA 560—Financial Markets.....	3
SBE electives*.....	3
Econ 342—Money & Banking.....	3
BA 461—Business Law I.....	3
Elective.....	3
	15
Second Semester	
BA 472—Business Policies and Problems.....	3
SBE electives.....	6
Electives.....	6
	15

*Electives may be selected in accounting, business administration, or economics.

BBA Degree Management Option FRESHMAN YEAR

First Semester	
Eng 101—Composition I.....	3

Math 160—Mathematics for Bus. and Econ.	4
Social Sciences elective	3
Hlth 150—Personal Health	2
PE—Activity	1
Sci—Physical Science	3
	16

Second Semester

Eng 102—Composition II	3
BA 200—Introduction to Data Processing	3
Social Sciences elective	3
BA 252—Math of Finance	3
PE—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
BE 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
BA 304—Marketing	3
Electives	6
	15

JUNIOR YEAR**First Semester**

BA 301—Principles of Management	3
Econ 350—Microeconomics	3
Econ 302—Labor Econ.	3
Humanities elective	3
Acct 502—Managerial	
or	
Acct 390—Cost Accounting I	3
Elective	2
	17

Second Semester

Math 354—Business Statistics	3
BA 360—Business Finance	3
BA—Elective	3
Electives	7
	16

SENIOR YEAR**First Semester**

Spch 370—Business and Professional Speech	3
BA—Elective	3
BA 311—Personnel Management	3
BA 461—Business Law I	3
Elective	3
	15

Second Semester

BA 504—Production Management	3
BA 472—Business Policies and Problems	3
BA—Elective	3
Electives	7
	16

**BBA Degree
Marketing Option****FRESHMAN YEAR****First Semester**

Eng 101—Composition I	3
Math 160—Mathematics for Bus. and Econ.	4
Social Sciences elective	3
Hlth 150—Personal Health	2
PE—Activity	1
Sci—Physical Science	3
	16

Second Semester

Eng 102—Composition II	3
BA 200—Introduction to Data Processing	3
Social Sciences elective	3
BA 252—Math of Finance	3
PE—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
BE 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
BA 350—Salesmanship	3
Electives	6
	15

JUNIOR YEAR**First Semester**

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

Second Semester

Math 354—Business Statistics	3
Spch 370—Business & Professional Speech	3
Humanities elective	3
Electives	8
	17

SENIOR YEAR**First Semester**

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

Second Semester

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

BS Degree**Business Administration Major****FRESHMAN YEAR****First Semester**

Eng 101—Composition I	3
Math 160—Mathematics for Bus. and Econ.	4
Social Sciences elective	3
Hlth 150—Personal Health	2
PE—Activity	1
Sci—Physical Science	3
	16

Second Semester

Eng 102—Composition II	3
BA 200—Introduction to Data Processing	3
Social Sciences elective	3
Humanities elective	3
PE—Activity	1
Sci—Biological Science	3
	16

SOPHOMORE YEAR**First Semester**

Literature elective	3
BE 221—Business Communications	3
Acct 281—Principles of Accounting I	3
Econ 201—Principles of Economics I	3
BA 252—Math of Finance	3
Elective	2
	17

Second Semester

Acct 282—Principles of Accounting II	3
Econ 202—Principles of Economics II	3
BA 304—Marketing	3
Humanities elective	3
Elective	3
	15

JUNIOR YEAR**First Semester**

BA 301—Principles of Management	3
Math 354—Business Statistics	3
Electives	10
	16

Second Semester

BA 360—Business Finance	3
Spch 370—Business & Professional Speech	3
Electives	11
	17

SENIOR YEAR**First Semester**

Econ 350—Microeconomics	3
BA 461—Business Law I	3
Electives	9
	15

Second Semester

BA 472—Business Policies and Problems	3
Electives	13
	16

BS Degree**Data Processing Major****FRESHMAN YEAR****First Semester**

Eng 101—English Comp. I	3
Math 160—Math for Business and Econ	4
Soc Sci—Elective	3
BA 200—Intro. to Data Processing	
or	
BA 201—Intro. to Computers	3
Sci—Physical Science	3
	TOTAL 16

Second Semester

Eng—English elective	3
BA 202—Computer Programming Basic	
or	
BA 260—FORTRAN Programming	3
Soc Sci—Elective	3
Hum—Elective	3
PE—Activity	1
Sci—Biology	3
	TOTAL 16

SOPHOMORE YEAR**First Semester**

Literature Elective	3
BA 210—Computer Programming Fundamentals	3
Acct 281—Principles of Acct I	3
Econ 201—Principles of Econ I	3
BA 252—Math of Finance	3
Hlth 150—Personal Health	2
	TOTAL 17

Second Semester

Acct 282—Principles of Acct II	3
Econ 202—Principles of Econ II	3
Humanities elective	3
Electives	6
PE—Activity	1
	TOTAL 16

JUNIOR YEAR**First Semester**

BA 215—Business Computer Programming I	3
Math 354—Bus. Statistics	3
Electives	10
	TOTAL 16

Second Semester

BA 315—Business Computer Programming II	3
Spch 370—Business and Professional Speech	3
BA 320—Computerized Business Systems	3
Electives	7
	TOTAL 16

SENIOR YEAR**First Semester**

BA 405—Systems Analysis & Design	3
Electives	12
	TOTAL 15

Second Semester

BA 515—Data Processing Field Project	3
Electives	13
	TOTAL 16

**BS Degree
Marketing****FRESHMAN YEAR****First Semester**

Eng 101—Composition I	3
Math 160—Math for Bus. and Econ	4
Social Sciences elective	3
Hlth 150—Personal Health	2
PE—Activity	1
Sci—Physical Science	3
	16

Second Semester

Eng 102—Composition II	3
BA 200—Introduction to Data Processing	3
Social Sciences elective	3
Humanities elective	3
PE—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
Elective	8
	17

Second Semester

Acct. 282—Principles of Accounting II	3
Econ 202—Principles of Economics II	3
BA 304—Marketing	3
Humanities electives	3
Elective	3
	15

JUNIOR YEAR**First Semester**

BA 350—Salesmanship	3
Math 354—Business Statistics	3
Electives	8
BA 305—Purchasing	3
	17

Second Semester

BA 351—Sales Management	3
Spch 370—Business & Professional Speech	3
BA—Elective	3
Electives	8
	17

SENIOR YEAR**First Semester**

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

Second Semester

BA 453—Marketing Policies	3
Electives	12
	15

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.

Business Administration 105. Real Estate Principles I. (3-0-3); I. 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 managements.

Business Administration 120. Real Estate Marketing I. (3-0-3); II. Prerequisite: BA 105 or consent of instructor. A course designed to help real estate salesmen with listings, 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.

Business Administration 125. Appraising. (3-0-3); II. Prerequisite: BA 105 or consent of instructor. A course designed to en-

able 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, etc.; and to make the student aware of the factors that contribute to the value of real estate.

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

Business Administration 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.

Business Administration 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. (Students in the data processing programs will take this course in lieu of BA 200.)

Business Administration 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 computer knowledge is assumed. Emphasis is on solving and interactive mode programming.

Business Administration 205. Real Estate Principles II. (3-0-3); II. Prerequisite: BA 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.

Business Administration 210. Computer Programming Fundamentals. (3-0-3); I.

Prerequisite: Business Administration 200. Technical experience with stored program computer; machine design, components, logical function; machine language and symbolic programming language.

Business Administration 215. Business Computer Programming I. (3-0-3); I.

Prerequisite: BA 210 or consent of instructor. Practical business applications programming using the COBOL language. Card input and printed output will be used.

Business Administration 225. Real Estate Finance. (3-0-3); II.

Prerequisite: BA 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.

Business Administration 230. Real Estate Land Planning and Development. (3-0-3); on demand.

Prerequisite: BA 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.

Business Administration 252. Mathematics of Finance. (3-0-3); I, II.

Prerequisite: Mathematics 160. Interest; annuities; amortization; sinking funds; bond valuation; depreciation; life insurance.

Business Administration 260. FORTRAN Programming. (3-0-3); II.

Prerequisites: BA 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.

Business Administration 301. Principles of Management. (3-0-3); I, II, III.

Prerequisites: Accounting 282 and Economics 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.

Business Administration 303. Real Estate Marketing II. (3-0-3); I.

Prerequisite: BA 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.

Business Administration 304. Marketing. (3-0-3); I, II.

Prerequisite: Economics 201. Raw materials and products; organized exchange; analysis of market; market price; manufactured products; warehouses; cooperative societies; distribution organizations.

Business Administration 305. Purchasing. (3-0-3); II.

Prerequisite: BA 304 or consent of instructor. Purchasing functions and procedures; organization and operation of the purchasing department; inventory, quality, and quality controls; sources of supply; legal aspects of purchasing; evaluating purchase performance.

Business Administration 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.

Business Administration 311. Principles of Personnel Management. (3-0-3); I, II.

Prerequisite: BA 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.

Business Administration 315. Business Computer Programming II. (3-0-3); II.

Prerequisite: BA 215. Advanced computer programming using COBOL. Tape and disk file structures and processing are emphasized.

Business Administration 320. Computerized Business Systems. (3-0-3); II.

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.

Business Administration 325. Bank Management. (3-0-3); I.

Prerequisite: Consent of instructor. Organization and operation of the commercial bank.

Business Administration 335. Real Estate Investment. (3-0-3); II.

Prerequisite: BA 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.

Business Administration 343. Investments. (3-0-3); II.

Prerequisite: Economics 201. (See Economics 343.)

Business Administration 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.

Business Administration 351. Sales Management. (3-0-3); I.

Prerequisites: BA 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.

Business Administration 360. Business Finance. (3-0-3); I, II, III.

Prerequisites: BA 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.

Business Administration 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.

Business Administration 405. Systems Analysis and Design. (3-0-3); I.

Prerequisite: BA 320 or consent of instructor. Systems analysis, feasibility studies, economic cost comparisons, systems implementation, the tools of systems analysis.

Business Administration 408. Risk Management and Property and Casualty Insurance. (3-0-3); II.

Prerequisite: Economics 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.

Business Administration 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.

Business Administration 450. Consumer Behavior. (3-0-3); II.

Prerequisite: Psychology 154 and Sociology 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.

Business Administration 451. Retail Merchandising. (3-0-3); I, II.
Prerequisite: BA 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.

Business Administration 453. Marketing Policies. (3-0-3); II.
Prerequisite: BA 301 and 6 hrs. of marketing courses. Overview of marketing functions; emphasis on formulation of policies and management of all marketing activities. Case studies used.

Business Administration 455. Advertising Principles and Procedures. (3-0-3); I.

Prerequisite: BA 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.

Business Administration 460. Problems in Finance. (3-0-3); I.
Prerequisite: BA 360. A case problem course designed to give the student an opportunity to handle various types of managerial problems in the following areas: financing current operations; valuation; long term capital structure and cost of capital; dividend policy; debt management; and problems in public security issues. Formerly BA 560.

Business Administration 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.

Business Administration 472. Business Policies and Problems. (3-0-3); I, II, III.

Prerequisites: BA 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.

Business Administration 476. Special Problems. (0-0-1 to 3); I, II, III.

Prerequisite: 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.

Business Administration 504. Production Management. (3-0-3); II.
Prerequisite: BA 301; Accounting 390 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.

Business Administration 515. Data Processing Field Project. (3-0-3); II.

Prerequisites: BA 315 and 320. Experience in an actual data processing situation outside the classroom; students assigned in University's data processing center or other approved computer facility.

Business Administration 547. International Economics. (3-0-3); as needed.

Prerequisites: Economics 201 and 202. (See Economics 547.)

Business Administration 552. Marketing Research and Analysis. (3-0-3); I.

Prerequisite: Business Administration 304; 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.

Business Administration 560. Financial Markets. (3-0-3); II.

Prerequisite: BA 360. Institutional and business factors that influence demand and supply of funds; effect on price movements; detailed analysis of money and capital markets.

Business Administration 561. Business Law II. (3-0-3); I, II.

Prerequisite: BA 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.

Business Administration 565. Human Relations for 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 people, groups and institutions.

Business Administration 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 in the School of Business and Economics offers the following programs:

1. An area of Concentration in Business Education
2. Majors with Teacher's Certificates in Secretarial Studies or General Business
3. Non-teaching minors in Secretarial Studies or General Business
4. Two-year Associate of Applied Business Degrees in Office Management or Secretarial Studies
5. One-year Certificate Programs in Clerical Studies or Secretarial Studies

Area of Concentration in Business Education

	Sem. Hrs.
General Requirements:	
Acct 281, 282, and 3 hrs. Acct elective	9
Secretarial Studies:	
BE 213, 221, 232, 240, 250, 260 or 261 or 262 and 331	17
Elective in Secretarial Studies	2
General Business:	
BE 136	4
BA 461	3
Electives in General Business	11
Elective in Business	2
Professional Business Education:	
BE 375, 376, 471 and 475	6
Total	54

*In selecting the courses to fulfill the general requirements for graduation, the area of concentration in business education must include Economics 201 and 202, and Speech 370.

Majors in Business Education

Students may major in one of two areas in business education: (1) secretarial studies or (2) general business. These majors provide an opportunity for students to combine business education teaching with other disciplines.

Major in Secretarial Studies with Teacher's Certificate*

	Sem. Hrs.
Secretarial Studies:	
Acct 281	3
BE 136, 212, 213, 221, 232, 240, 250, 260 or 261 or 262, and 331	24
Professional Business Education:	
BE 275, 276, and 471	4
Approved electives from BA or BE	2
Total Hours	33

*In selecting courses to fulfill the general education requirements for graduation, the major in secretarial studies must include Speech 370.

Major in General Business with Teacher's Certificate*

	Sem. Hrs.
General Business:	
Acct 281, 282, and 3 hrs. Acct elective	9
BE 136	4
BA 200 and 461	6
Secretarial Studies:	
BE 212, 221, 240, 250, and 260 or 261 or 262	9
Professional Business Education:	
BE 375, 471, and 475	5
Elective in General Business	1
Total Hours	34

*In selecting courses to fulfill the general education requirements for graduation, the major in general business must include Economics 201.

Minors in Business Education without Certification

Minors are offered in secretarial studies or in general business for those students who major in another discipline either with or without certification, but who do not desire certification in business education.

Minor in Secretarial Studies without Certification

	Sem. Hrs.
Secretarial Studies:	
BE 136, 213, 232, 240, 250, 260 or 261 or 262, and 331	18
Electives from the following:	
Acct 281	
BA 200	
BE 212, 221, 290, 332 and 363	3
Total Hours	21

Minor in General Business without Certification

	Sem. Hrs.
Acct 281	3
BA 200 and 461	6
BE 136, 212, 240, 250, 260 or 261 or 262, and 363	3
Total Hours	22

Associate of Applied Business Degree — A.A.B. — Office Management

Office management is designed to prepare graduates for positions as administrative assistants or as executive secretaries.

Course Requirements and Suggested Course Sequence:

First Semester	
BE 136—Business Calculations	4
BE 211—Beginning Typewriting	3
Acct 281—Principles of Accounting I	3
Eng 101—Composition I	3
Electives	3
	16
Second Semester	
BE 212—Intermediate Typewriting	3
BE 221—Business Communications	3
BE 250—Filing Systems	1
Acct 282—Principles of Accounting II	3
Eng 102—Composition II	3
Electives	3
	16
Third Semester	
BE 213—Advanced Typewriting	3
BE 240—Duplicating Processes	1
BA 200—Introduction to Data Processing	3
BA 252—Mathematics of Finance	3
Electives	6
	16
Fourth Semester	
BE—Machine Transcription	1
BE 363—Office Management	3
BA 301—Principles of Management	3
Spch 370—Business and Professional Speech	3
Electives	6
	16

Associate of Applied Business Degree — A.A.B. — Secretarial Studies

Secretarial studies is designed to prepare graduates for positions in business as stenographers or secretaries in addition to providing the necessary background that will enable them to advance to a supervisory or administrative assistant position.

Course Requirements and Suggested Course Sequence:

First Semester	
BE 136—Business Calculations	4
BE 211—Beginning Typewriting	3
BE 231—Beginning Shorthand	4
BE 250—Filing Systems	1
Eng 101—Composition I	3
Elective	1
	16
Second Semester	
BE 212—Intermediate Typewriting	3
BE 232—Intermediate Shorthand	4
BE 290—Secretarial Accounting	3
BE—Machine Transcription	1
Eng 102—Composition II	3
Electives	2
	16
Third Semester	
BE 213—Advanced Typewriting	3
BE 331—Dictation and Transcription	4
BE 240—Duplicating Processes	1
BA 200—Introduction to Data Processing	3
Electives	5
	16
Fourth Semester	
BE 221—Business Communications	3
BE 332—Executive Secretarial Procedures	3
BE 363—Office Management	3
Spch 370—Business and Professional Speech	3
Electives	4
	16

One-Year Certificate Programs

These curricula are designed for those students who have immediate occupational objectives and do not initially plan 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 such 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.

One-Year Certificate Program in Clerical Studies

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

Course Requirements and Suggested Course Sequence:

First Semester	
BE 136—Business Calculations	4
BE—Typewriting	3
BE 250—Filing Systems	1
BE 200—Secretarial Accounting	3
Eng 101—Composition I	3
Elective	2
	16
Second Semester	
BE 221—Business Communications	3
BE 240—Duplicating Processes	1
BE—Machine Transcription	1
BA 200—Introduction to Data Processing	3
BE—Typewriting	3
Electives	5
	16

One-Year Certificate Program in Secretarial Studies

Secretarial studies is designed primarily for students who desire to develop proficiency in the art of shorthand writing and transcription in addition to acquiring the initial secretarial skills.

First Semester	
BE 221—Business Communications	3

BE—Typewriting	3
BE 231—Beginning Shorthand	4
BE 290—Secretarial Accounting	3
BE 250—Filing Systems	1
Eng 101—Composition I	3
	17
Second Semester	
BE 136—Business Calculations	4
BE 232—Intermediate Shorthand	4
BE—Typewriting	3
BE 240—Duplicating Processes	1
BE—Machine Transcription	1
Electives	3
	16

Suggested Course Sequence for Baccalaureate Programs

The following programs have been devised to help students in selecting their courses and arranging their schedules. These suggested programs 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 Business Education with a Provisional Secondary Certificate

FRESHMAN YEAR

First Semester	
Eng 101—Composition I	3
BE 136—Business Calculations	4
BE—Typewriting	3
Sci—Physical Science	3
Social Sciences elective	3
	16
Second Semester	
Eng—Composition elective	3
PE—Activity Course	1
BE—Typewriting	3
Sci—Biological Science	3
Social Sciences elective	3
Psy 154—Life-Oriented General Psychology	3
	16

SOPHOMORE YEAR

First Semester	
BE 221—Business Communications	3
Acct 281—Principles of Accounting I	3
BE 232—Intermediate Shorthand	4
Econ 201—Principles of Economics I	3
Math—Elective	3
	16
Second Semester	
Acct 282—Principles of Accounting II	3
BE 331—Dictation and Transcription	4
Econ 202—Principles of Economics II	3
Sci/Math elective	3
Ed 209—Foundations in Secondary Education	2
PE—Activity course	1
	16

JUNIOR YEAR

First Semester	
Acct—Elective—upper division	3
Eng—Literature electives	3
Ed 310—Principles of Adolescent Development for secondary teachers	3
BE 240—Duplicating Processes	1
BE 250—Filing Systems	1
Humanities elective	3
Hlth 150—Personal Health	2
	16
Second Semester	
BE 375—Teaching Typing and Office Practice	2
BE 376—Teaching Shorthand and Transcription	1
Humanities elective	3
BE—Machine Transcription	1
BA 461—Business Law I	3
Electives (Gen. Bus.)	5
Elective	1
	16

SENIOR YEAR

First Semester

BE 475—Teaching Accounting and Basic Business	2
BE 471—Seminar in Business Education	1
Electives (Gen. Bus.)	6
Spch 370—Business and Professional Speech	3
—Elective in Secretarial Studies	3
	15

Second Semester

Ed 477—Professional Semester	17
(The professional semester may be taken either semester of the senior year.)	

Major in Secretarial Studies with Teacher's Certificate

FRESHMAN YEAR

First Semester

Eng 101—Composition I	3
PE—Activity course	1
BE 212—Intermediate Typewriting	3
—Social Sciences elective	3
Sci—Biological Science	3
Psy 154—Life-Oriented General Psychology	3
	16

Second Semester

Eng—Composition elective	3
BE 136—Business Calculations	4
BE 213—Advanced Typewriting	3
—Social Sciences elective	3
Sci—Physical Sciences	3
	16

SOPHOMORE YEAR

First Semester

BE 221—Business Communications	3
BE 240—Duplicating Processes	1
PE—Activity course	1
Ed 209—Foundations in Secondary Education	2
Social Sciences elective	3
Sci/Math Elective	3
Hlth 150—Personal Health	2
	15

Second Semester

BE 250—Filing Systems	1
BE—Machine Transcription	1
Acct 281—Principles of Accounting I	3
Math—Elective	3
F10 Social Sciences Elective	3
Humanities elective	3
Literature elective	3
	17

JUNIOR YEAR

First Semester

BE 232—Intermediate Shorthand	4
Ed 310—Principles of Adolescent Development for Secondary Teachers	3
Humanities elective	3
Electives	6
	16

Second Semester

Spch 370—Business and Professional Speech	3
BE 331—Dictation and Transcription	4
BE—Elective	2
BE 376—Teaching Shorthand and Transcription	1
Electives	6
	16

SENIOR YEAR

First Semester

BE 471—Seminar in Business Education	1
BE 375—Teaching Typewriting and Office Practice	2
Electives	12
	15

Second Semester

Ed 477—Professional Semester	17
(The professional semester may be taken either semester of the senior year.)	

Major in General Business with Teacher's Certificate

FRESHMAN YEAR

First Semester

Eng 101—Composition I	3
PE—Activity course	1
BE 136—Business Calculations	4
Sci—Biological Sciences	3
Social Sciences elective	3
Hlth 150—Personal Health	2

Second Semester

Eng—Composition elective	3
PE—Activity course	1
BE 212—Intermediate Typewriting	3
Math—Elective	3
Sci—Physical Sciences	3
Social Sciences elective	3
	16

SOPHOMORE YEAR

First Semester

Acct 281—Principles of Accounting I	3
BA 200—Introduction to Data Processing	3
BE—Machine Transcription	1
Econ 201—Principles of Economics I	3
Sci/Math elective	3
Psy 154—Life-Oriented General Psychology	3
	16

Second Semester

Acct 282—Principles of Accounting II	3
BE 240—Duplicating Processes	1
Social Sciences elective	3
Literature elective	3
Ed 209—Foundations in Secondary Education	2
Elective	4
	16

JUNIOR YEAR

First Semester

Acct—Elective—upper division	3
BE 250—Filing Systems	1
Business elective	1
Spch 370—Business and Professional Speech	3
Humanities elective	3
Electives	5
	16

Second Semester

BE 221—Business Communications	3
BA 461—Business Law	3
BE 375—Teaching Typewriting and Office Practice	2
Humanities elective	3
Electives	5
	16

SENIOR YEAR

First Semester

Ed 310—Principles of Adolescent Development for Secondary Teachers	3
BE 471—Seminar in Business Education	1
BE 475—Teaching Accounting and Basic Business	2
Electives	9
	15

Second Semester

Ed 477—Professional Semester	17
(The professional semester may be taken either semester of the senior year.)	
	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.

Business Education 135. Introduction to Electronic Calculators. (1-0-1); I. The course is designed primarily as a service course for those students or employed persons who desire to familiarize themselves with the operation and capabilities of electronic calculators without the necessity of pursuing the in-depth course required of business education majors or minors.

Business Education 136. Business Calculations. (4-0-4); I, II. Business problem solutions with aid of calculating machines. Payroll,

banking, credit, insurance, investments, depreciation, amortization, weights and measures.

Business Education 211. Beginning Typewriting. (2-2-3); I, II, III. 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.

Business Education 212. Intermediate Typewriting. (1-3-3); I, II, III. Prerequisite: Business Education 211 or equivalent, or consent of instructor. Development of speed and accuracy. Business letter styles, manuscripts, and various business forms emphasized.

Business Education 213. Advanced Typewriting. (1-3-3); I, II, III. Prerequisite: Business Education 212 or equivalent. Production typewriting stressed. Emphasis on typing business letters, memorandums, manuscripts, statistical reports, and specialized business forms and reports.

Business Education 221. Business Communications. (3-0-3); I, II, III. Recommended: English 102 and typewriting competency. Current principles in business letter and report writing stressed, employing the human relations approach.

Business Education 231. Beginning Shorthand. (4-1-4); I, II. Prerequisite: Business Education 211 or equivalent. Fundamental principles of Gregg Shorthand, Diamond Jubilee Series. The development of skill in reading, writing, and transcribing. Designed primarily for students with no previous shorthand instruction.

Business Education 232. Intermediate Shorthand. (4-1-4); I, II. Prerequisite: Business Education 231 or equivalent, or consent of instructor. Mastery of principles of Gregg Shorthand, Diamond Jubilee Series, emphasizing speed and accuracy in dictation and transcription, vocabulary, punctuation, spelling, and mailability.

Business Education 240. Duplicating Processes. (1-1-1); I, II. Prerequisite: Business Education 212. The four primary equipment processes used in offices are: (1) fluid duplicating, (2) stencil duplicating, (3) offset duplicating, and (4) copiers. Each process has its advantages and limitations, and no one process is designed for all purposes. All other systems described as electrofax copying, hybrid copying/duplicating, quick-copy offset, and micrographics are offshoots of the four primary processes.

Based on individual job requirements and cost, students are provided with opportunities to exercise judgment in selecting the most desirable duplicating process.

Business Education 250. Filing Systems. (1-0-1); I, II. Mastery of filing rules and their application in alphabetic, numeric, geographic, and subject filing systems.

Business Education 260. Machine Transcription - General. (1-0-1); I, II.

Prerequisite: Business Education 212. Mastery of transcription techniques on office correspondence using belt and cassette machine transcribing units. Brief introduction to machine dictation.

Business Education 261. Machine Transcription - Legal. (1-0-1); II. Prerequisite: Business Education 212. Mastery of machine transcription techniques using legal office correspondence. Legal vocabulary stressed. Introduction to machine dictation.

Business Education 262. Machine Transcription - Medical. (1-0-1); I. Prerequisites: Business Education 212 and Nursing and Allied Health 302. Mastery of machine transcription techniques using medical office correspondence. Medical terminology emphasized. Introduction to machine transcription.

Business Education 290. Office Accounting. (3-0-3); I, II, III. Accounting systems and financial records for professions, small business, and institutions. Designed for one- and two-year paraprofessional students. Does not substitute for Accounting.

Business Education 330. Office Personnel Seminar. (1-0-1); I, II, III. Prerequisites: Recommended for a last semester course for one- and two-year preparatory programs for office employees. To provide the office worker with information not available in prescribed course work which will enable her/him to become more knowledgeable with regard to the overall involvement of personnel.

Business Education 331. Dictation and Transcription. (4-1-4); I, II. Prerequisite: Business Education 212 and 232 or equivalents. Accuracy and speed emphasized. Dictation and transcription of five-minute speed tests and mailable letters of increased difficulty. Office-style dictation and transcription of business correspondence.

Business Education 332. Executive Secretarial Procedures. (3-0-3). Prerequisite: Business Education 331. Materials, methods and techniques for the well-trained secretary. Includes communications, mail handling procedures, human relations, and travel services.

Business Education 340. Simulated Office Education. (2-2-3); I, II. Prerequisites: Business Education 136, 212, 221, 240, 250, and 260. Bridging the gap between theoretical classroom learning and employment preparation through simulation of the real work involved in office occupations. Materials provided for a realistic flow of work in several office positions within a specific company.

Business Education 345. Dictating Techniques for the Modern Office. (1-0-1); I, III. Techniques are mechanics of machine and person-to-person dictation. Planning, organizing, and dictating correspondence and reports in simulated situations.

Business Education 350. Records Management. (2-0-2); I, II, III. Prerequisite: Business Education 250 or permission of instructor. Emphasis on methods and systems for storing, retrieving, and retaining records.

Business Education 362. Consumer Education. (3-0-3); I, II, III. (See Home Economics 362.)

Business Education 363. Office Management. (3-0-3); I, II, III. Management of data; effects of office environment as related to production. Human relations, systems analysis, and implications of automated data processing.

Business Education 375. Teaching Typewriting and Office Practice. (2-0-2); I, II.

Prerequisites: Business Education 136, 212, 240, 250, 260, and formal admission to teacher education program. Behavioral objectives, lesson plans and presentation of materials, micro-teaching, simulation, cooperative education, instructional materials, evaluation, and professional development.

Business Education 376. Teaching Shorthand and Transcription. (1-0-1); I, II.

Prerequisites: Business Education 232 and formal admission to teacher education program. Behavioral objectives, lesson plans, and presentation of materials, micro-teaching, instructional materials, evaluation, and professional development.

Business Education 398. Supervised Field Experience. (One to six hours); I, II, III. To provide work experience in an occupational area. Student works under supervision in approved position. Credit commensurate with time worked, type of work, variety of work experience.

Business Education 471. Seminar in Vocational Business Education and Office Administration. (1-0-1); I, II.

Prerequisite: Senior standing and formal admission to teacher education program. Professional business education, special problems concerning vocational education.

Business Education 475. Teaching Accounting and Basic Business. (2-0-2); I, II.

Prerequisite: Accounting 281, 282 and formal admission to teacher education program. Behavioral objectives, course content, unit and lesson planning, and presentation of materials, micro-teaching, instructional materials, evaluation, and professional development.

Business Education 476. Special Problems. (One to three hours); I, II, III.

Prerequisite: Senior standing and prior consent of instructor. Independent research of a problem selected by the student.

Business Education 516. Educational Data Processing. (3-0-3); II. Basic concepts pertaining to unit-record equipment and computers. Applications in education, research, and administration. Designed primarily for students without previous data processing instruction.

Business Education 585. Principles and Philosophy of Vocational Education. (3-0-3); I, II, III.

Prerequisite: Senior or graduate standing. Background, development, objectives, principles, philosophy, status, and trends of vocational education; interpretation of legislation affecting vocational education; and organization and administration of vocational education at all levels.

Business Education 590. Economic Education for Business Teachers. (2-0-2); III.

Prerequisite: Senior or graduate standing. Fundamental economic concepts and their application and integration in business education.

Business Education 591. Machine Shorthand Workshop. (2-0-2).

Prerequisite: Senior or graduate standing and competency in manual shorthand. Theory, keyboard, methodology, and basic techniques necessary for teaching machine shorthand.

Economics

The Department of Economics offers the following programs:

an OPTION in the Bachelor of Business Administration

(B.B.A.) degree;

a MAJOR in Economics leading to either the Bachelor of Science or Bachelor of Arts degree; and

a MINOR in Economics leading to either the Bachelor of Science or Bachelor of Arts degree.

B.B.A. Degree—Economics Option

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

Degree Requirements:

	Sem. Hrs.
B.B.A. Core: Acct 281, 282; BA 200, 252, 301, 304, 360, 461, 472; Econ 350, 351; BE 221	33
Economics Option: Econ 302, 342, 351, 541, 547 and 6 hours of electives in Bus. and Econ. approved by the adviser	21
General Education:	
Communications and Humanities (Speech 370 required)	18
Social Sciences (Economics 201, 202 required)	12
Mathematics and Science (Math 160, 354 required)	12
Health and Physical Education	4
Free Electives	26

Major—B.S. or B.A. Degree

Requirements:

	Sem. Hrs.
Economics 210, 202, 342, 350 and 351	15
*Electives in Economics approved by the adviser	15
	30

Minor

Requirements:

Economics 210, 202, 342, 350 and 351	15
*Electives in Economics approved by the adviser	6
	21

In addition to requirements listed, all students completing a major or minor in Economics must take Mathematics 160 (Math for Bus. and Econ.) and 354 (Business Statistics).

*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:

	Sem. Hrs.
Econ 301—History of Economic Thought	3
Econ 302—Labor Economics	3
Econ 305—Comparative Economic Systems	3
Econ 343—Investments	3
Econ 348—History of North Atlantic Community	3
Econ 476—Special Problems	3
Econ 500—Mathematical Economics	3
Econ 501—Environmental Economics	3
Econ 503—Urban and Regional Economics	3
Econ 540—World Manufacturing	3
Econ 541—Public Finance	3
Econ 547—International Economics	3
Econ 555—Economic Development and Growth	3
Econ 560—Financial Markets	3
Econ 580—American Business History	3

Suggested Course Sequences for Baccalaureate Programs

The following programs have been devised to help students in selecting their courses and arranging their schedules. These suggested programs need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

Major in Economics—B.S. or B.A. FRESHMAN YEAR

First Semester	
Econ 201—Principles of Economics I	3
Math 160—Math for Bus and Econ.	4
Eng 101—Composition I	3
Hlth 150—Personal Health	2
PE—Activity course	1
Sci 103—Physical Science	3
Electives**	1
	17
Second Semester	
Econ 202—Principles of Economics II	3
Eng—Composition elective	3
Sci 105—Biological Sciences	3
Social Sciences elective	3
PE—Activity course	1
Electives**	3
	16

SOPHOMORE YEAR

First Semester	
Econ 342—Money and Banking	3
Math 354—Business Statistics	3
Communications/Humanities elective	3
Social Sciences elective	3
Electives**	5
	17
Second Semester	
Econ 350—Microeconomic Theory	3
Elective*	3
Eng 202—Introduction to Literature	3
Electives**	8
	17

JUNIOR YEAR

First Semester	
Econ 351—Microeconomic Theory	3
Econ—Elective*	3
Communications/Humanities elective	3
Electives**	6
	15
Second Semester	
Econ—Elective*	3
Communications/Humanities elective	3
Electives**	9
	15

SENIOR YEAR

First Semester	
Econ—Elective*	3
Electives**	12
	15
Second Semester	
Econ—Elective*	3
Electives**	13
	16

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

**Electives (non-economic) must be arranged to include the second major or minor field. Additionally, those working for teacher certification must complete the major or minor requirements in seven semesters.

BBA Degree with Economics Option FRESHMAN YEAR

First Semester	
Econ 201—Principles of Economics I	3
Math 160—Mathematics for Bus. and Econ.	4
Eng 101—Composition I	3
Hlth 150—Personal Health	2
PE—Activity course	1

Sci 103—Physical Science	3
Electives**	1
	17

Second Semester

Econ 202—Principles of Economics II	3
Eng—Composition elective	3
PE—Activity course	1
Sci 105—Biological Sciences	3
Social Sciences elective	3
PE—Activity course	1
BA 200—Introduction to Data Processing	3
	16

SOPHOMORE YEAR

First Semester

Acct 281—Principles of Accounting I	3
BA 252—Math of Finance	3
Communications/Humanities elective	3
Social Sciences elective	3
Econ 302—Labor Economics	3
Electives**	1
	16

Second Semester

Acct 282—Principles of Accounting II	3
BE 221—Business Communications	3
Econ 350—Microeconomic Theory	3
Math 354—Business Statistics	3
Eng—Literature Elective	3
Electives	1
	16

JUNIOR YEAR

First Semester

BA 301—Principles of Management	3
BA 304—Marketing	3
Econ 342—Money and Banking	3
Econ 351—Microeconomic Theory	3
Communications/Humanities Elective	3
Electives	**17

Second Semester

BA 360—Business Finance	3
Econ 547—International Economics	3
Spch 370—Business and Professional Speech	3
BA 472—Business Policies and Problems	3
Electives**	3
	15

SENIOR YEAR

First Semester

Econ 541—Public Finance	3
BA 461—Business Law I	3
Econ—Elective*	3
Electives**	6
	15

Second Semester

Econ—Elective*	3
Electives**	13
	16

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

**Electives (non-economic) may include courses from any field chosen by student.

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); as needed.

Prerequisite: Membership in University Honors program. Analysis of contemporary economic problems and policy alternatives. Topics discussed may vary semester to semester.

Economics 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 Economics 201 or equivalent.)

Economics 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.

Economics 202. Principles of Economics II. (3-0-3); I, II, III.
Prerequisite: Economics 201. A continuation of Economics 201 with emphasis on the theory of the firm, resource allocation and international economics.

Economics 211. Economic Geography. (3-0-3); I, II, III. (See Geography 211.)

Economics 301. History of Economic Thought. (3-0-3); as needed.
Prerequisites: Economics 201 and 202. The origin and development of economic theories from the Mercantilist through modern times.

Economics 302. Labor Economics. (3-0-3); I, II.
Prerequisite: Economics 201 or junior standing. Labor management relations, the labor movement, labor legislation, government control and regulation, economic inequality, standards of living and industrial conflicts.

Economics 305. Comparative Economic Systems. (3-0-3); as needed.
Prerequisites: Economics 201 and 202. A study of influential theories of the major economic systems: Capitalism, Marxism, and Communism. Descriptive analyses of the operation of the corresponding economies.

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

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

Economics 348. Economic History of the North Atlantic Community. (3-0-3); as needed.
Prerequisite: Junior standing or consent of instructor. A survey of the evolution of economic institutions in Europe and North America from feudal times to the present. Emphasis will be placed on the cultural, commercial and industrial development of the entire North Atlantic Community.

Economics 350. Microeconomic Theory. (3-0-3) I, II, III.
Prerequisites: Economics 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.

Economics 351. Macroeconomic Theory. (3-0-3); as needed.
Prerequisites: Economics 201 and 202. National income accounting; macroeconomic theories of output determination, employment, inflation, and growth; monetary and fiscal policies to control aggregate economic activity.

Economics 389. Social Science Statistics. (2-2-3); II. (See Sociology 389.)

Economics 476. Special Problems. (One to three hours); as needed.
Prerequisites: Open to majors or minors in economics with prior con-

sent 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.

Economics 500. Mathematical Economics. (3-0-3); as needed.
Prerequisites: Mathematics 152 and 353. Application of mathematical and statistical techniques to the theory of the firm, market and national income models.

Economics 501. Environmental Economics. (3-0-3); II.
Prerequisites: Economics 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.

Economics 503. Urban and Regional Economics. (3-0-3); II.
Prerequisites: Economics 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.

Economics 540. World Manufacturing. (3-0-3); as needed. (See Geography 540.)

Economics 541. Public Finance. (3-0-3); I.
Prerequisites: Economics 201 and 202 or consent of instructor. Public expenditures; public revenue; taxation; public credit; financial administration of government.

Economics 547. International Economics. (3-0-3); as needed.
Prerequisites: Economics 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.

Economics 555. Economic Development and Growth. (3-0-3); as needed.
Prerequisites: Economics 201 and 202 or consent of instructor. Classical and modern theories of growth and development and their application in both advanced and underdeveloped nations.

Economics 560. Financial Markets. (3-0-3); II.
Prerequisites: Accounting 281 and Economics 202. (See Business Administration 560.)

Economics 570. Research Problems in Economics. (One to three hours); as needed.
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.

Economics 580. American Business History. (3-0-3); I, II. (see History 580.)

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. The organization of these courses includes:

1. A two-year preparation program for auxiliary and para-professional personnel leading to an associate of applied arts degree.
2. A pre-service preparation program for teachers leading to initial certification and the baccalaureate degree.

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. The attainment of sophomore standing.
2. A cumulative grade-point average of 2.0 or higher on work completed at Morehead State University.
3. The recommendation of the student's major department.
4. A demonstrated proficiency in written and oral communication.
5. A satisfactory rating in health, speech, hearing and sight.
6. The satisfactory evaluation from faculty advisers regarding personal-social-ethical fitness for teaching.
7. Copy of check sheet 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 re-apply 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
BE 375	Teaching Typewriting and Office Practice
BE 376	Methods of Teaching Shorthand
BE 471	Seminar in Business Education
BE 475	Teaching Accounting and Basic Business
Ed 310	Principles of Adolescent Development
Ed 321	Teaching of Arithmetic
Ed 322	Teaching Social Studies in the Elementary School
Ed 323	Language Arts for the Elementary School
Ed 333	Fundamentals of Elementary Education
Ed 336	Reading in the Primary Grades
Ed 337	Reading in the Intermediate Grades
Ed 410	Human Growth and Development II
Ed 425	Supervised Teaching Practicum (Elementary)
Ed 425S	Teaching Practicum (Elementary)
Ed 427	Professional Semester (Elementary)
Ed 435	Student Teaching
Ed 436	Special Education Student Teaching (TMR)
Ed 472	Fundamentals of Secondary Education
Ed 475	Supervised Teaching Practicum (Secondary)
Ed 475S	Teaching Practicum (Secondary)
Ed 477	Professional Semester (Secondary)
Ed 529	Practicum in Early Childhood Education
Ed 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
IE 300	General Shop Organization
IE 471	Seminar for Industrial Arts
IE 520	Industrial Arts for the Elementary Teacher
LS 575	School Library Practice
PE 300	Physical Education in the Elementary School
PE 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:

Ed 425 Supervised Teaching Practicum (Elementary)
 Ed 427 Professional Semester-Elementary
 Ed 529 Practicum in Early Childhood Education
 Ed 475 Supervised Teaching Practicum (Secondary)
 Ed 477 Professional Semester-Secondary
 Ed 425S Teaching Practicum-Elementary
 Ed 475S Teaching Practicum-Secondary
 Ed 435 Student Teaching
 Ed 436 Special Education Student Teaching (TMR)
 Ed 675 Practicum in Special Education
 Ed 669 Practicum in Guidance and Counseling
 Rec 290 Field Experience I
 Rec 490 Field Experience II
 Rec 477 Recreation Internship
 LSM 575 School Library Practice

Admission to Professional Laboratory Experiences in Lieu of Student Teaching

For experienced teachers, 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.
Ed 209—Foundations of Secondary Education	2
Ed 310—Principles of Adolescent Development	3
Ed 477—Professional Semester - Secondary	3
Ed 410—Human Growth and Development II	3
Ed 472—Fundamentals of Secondary Education	4
LSM 412—Media Strategies	2
Ed 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.

Education 205. Mental Health. (3-0-3); I, II, III.

Prerequisite: Psychology 154 or 155. A study of the models of man, philosophy of life, standards of mental health, social factors in mental illness, stress and its effect, parent-child relations, and school problems. (Same as Health 205.)

Education 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.)

Education 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.)

Education 374. Improvement of Instruction in the Secondary School. (3-0-3). A study of the problems of curriculum organization, effective staff relationships, and pertinent problems concerning instruction and management.

Education 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.

Education 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.

Education 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.

Education 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.

Education 477. Professional Semester. (9-30-17); I, II.

Prerequisites: Education 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.)

Education 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.

Education 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.)

Education 581. Educational Statistics. (2-2-3); II, III. An introductory study of the application of statistical and graphical methods to educational and psychological data. Includes areas of descriptive and inferential statistics that apply to educational research.

Education 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.

Education 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.

Education 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.

Education 105. Career Planning. (2-0-2); I, II. The course provides systematic information and guidance in career development which assists the student to make a realistic career decision consistent with needs, abilities, attitudes and personal goals.

Education 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.

Education 364. Career and Vocational Guidance. (3-0-3); II. Study of meaning, appreciation and value of work; place and use of testing in vocational choice; methodology for teachers to implement career and vocational development in the classroom. (Same as IE 364.)

Education 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.

Education 566. Introduction to Vocational Rehabilitation Services. (3-0-3); I, III. History of the 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.

Education 567. Rehabilitation of Special Groups. (3-0-3); I, III. Prerequisites: Education 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.

Education 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 non-testing procedures. Investigations of major types of tests; administration, scoring and interpretation of test results. (Same as Psychology 580.)

Education 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
Ed 208—Foundations of Elementary Education	2
Ed 210—Human Growth and Development I	3
Ed 321—Teaching of Arithmetic	3
Ed 322—Teaching Social Studies in Elementary School	3
Ed 323—Language Arts for the Elementary School	3
Ed 336—Reading in the Primary Grades	3
Ed 337—Reading in the Intermediate Grades	3
Ed 427—Professional Semester includes:	
Ed 410—Human Growth & Development II	3
LSM 412—Media Strategies	2
Ed 333—Fundamentals of Elementary Education	4
Ed 425—Supervised Teaching Practicum	8
COMMUNICATIONS & HUMANITIES	18
Eng—Composition	6
Eng—Literature electives	6
Spch—Speech electives	3
Communications or Humanities elective	3
SCIENCE	12
Physical Science elective	3
Sci—Biological Science elective	3
Sci 590—Science for the Elementary Teacher	3
Math elective	3
SOCIAL SCIENCE	18
Geog—Geography elective	3
Hist—American History elective	3
PS—Political Science elective	3
Soc—Sociology elective	3
Phil—Philosophy elective	3
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
LSM 227—Literature & Materials for Children	3
PSYCHOLOGY	3
Psy 154—Life-oriented General Psychology	3
ART	4
Art 121—School Art I	2
Art 221—School Art II	2
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
PE 300—PE in the Elementary School	2
PE—Activity courses	2
ADDITIONAL COURSES	14
Approved electives	14

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.

Education 101. Workshop. (One to three hours); I, II, III. A workshop for specifically designated persons for task orientation in education.

Education 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.

Education 111. Developmental Reading II. (1-2-2); I, II. A continuation of Developmental Reading I.

Education 199. Selected Topics. (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.

Education 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; provision of opportunities for the student to analyze his personal qualifications for teaching. (Laboratory experiences are an integral part of this course.)

Education 210. Human Growth and Development I. (3-0-3); I, II, III. Prerequisite: Psychology 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.)

Education 250. Practicum. (One to six hours); I, II, III. Experiences include placement in either a classroom or in a simulated classroom laboratory.

Education 280. Problems in Rural Education. (3-0-3). This course is designed to meet the needs of students who are working in rural communities. Problems and activities are selected according to the conditions prevailing in the local school system.

Education 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.

Education 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.)

Education 323. Language Arts for the Elementary School. (3-0-3); I, II, III. Prerequisite: Admission to the teacher education program. Focuses on role of language arts program in elementary school curriculum. Identification of language arts skills and subsequent teaching techniques of those skills will be central to the course. Skills emphasized are in areas of listening, speaking, writing, and spelling. (Laboratory experi-

ences are an integral part of this course.)

Education 333. Fundamentals of Elementary Education. (3-1-4); I, III. When taken separately, approval of the head of the department is required.

Prerequisite: Admission to the teacher education program. The purpose and organization of the elementary school and the role of the teacher. Systematic observation and participation in all phases of instruction is an integral part of the course.

Education 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.)

Education 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 and related language arts in grades 4-8. (Laboratory experiences are an integral part of this course.)

Education 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.

Education 410. Human Growth and Development II. (3-0-3); III. (When taken separately, approval of the head of the department is required.)

Prerequisites: Education 208, 210 and admission to the teacher education program. A continuation of Education 210.

Education 425. Supervised Teaching Practicum-Elementary. (Four to eight 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 meetings, and out-of-school activities are also required.

Education 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 Education 208, 210, 321, 333, 336 or 337, and 410; at least one semester or residence credit earned at Morehead State University. Experiences cover all classroom activities except teaching. (Application made through the Director of Professional Laboratory Experiences.)

Education 427. Professional Semester (Elementary) (9-30-17); I, II. The professional semester is comprised of Education 333, 410, 425 and LSM 412.

Prerequisites: Education 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.)

Education 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.)

Education 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.)

Education 529. Practicum in Early Childhood Education. (1-4-4); I, II, III.

Prerequisites: Education 527, 528, and admission to the teacher education program.

tion 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.)

Education 562. Remedial Reading. (2-2-3); I, II, III.

Prerequisite: Education 336 or 337, or the equivalent. Materials, methods of diagnosing and treating reading difficulties. (Laboratory experiences are an integral part of this course.)

Education 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, and recreation. 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:

Health 160, 203, 205, 301, 320, 303, 341, 342, 360, 402, 471, 475, and 532. 33
Recommended Support Courses: Speech 110, Biology 331, Biology 332.

For a Minor:

Health 160, 203, 205, 301, 303, 320, 360 and 475. 23
Additional requirement for teacher certification - Health 304.

For a Minor in Safety Education:

Health 203, 500, 505, 501, 503, 504, and 512. 21

For an Endorsement in Driver Education:

Health 203, 500, 505, and 512. 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.

Health 150. Personal Health. (2-0-2); I, II, III.

(Course will not be accepted as credit toward a major, minor, or emphasis in health education.) Principles and practices of healthful living: personal, family, and community aspects of health.

Health 160. Introduction to Health. (2-0-2); I, II.

Prerequisite: Major, minor, or emphasis in health education. Foundations of health, physical health, mental health, social health, environmental health.

Health 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.

Health 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.)

Health 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.

Health 205. Mental Health. (3-0-3); I, II, III.

Prerequisite: Psychology 154 of 155. (Same as Education 205.)

Health 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.)

Health 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 Physical Education 301.)

Health 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.

Health 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.)

Health 320. Elements of Nutrition. (3-0-3); I, II, III. (Same as Home Economics 320.)

Health 341. Affiliation in School Health. (0-2-1); I, II.
Prerequisite: Major in health education. Health 304, and permission of instructor. Guided observation and assisting in school health. (Laboratory experiences are an integral part of this course.)

Health 342. Affiliation in Community Health. (0-2-1); I, II.
Prerequisite: Major in health education. Health 303, and permission of instructor. Guided observation and reporting in community health. (Laboratory experiences are an integral part of this course.)

Health 360. Family Health. (3-0-3); I, II, III.
Prerequisite: Major, minor, or emphasis in health education, or senior standing. Study of the family and family living; the nature of the family, love, marriage preparation, marriage, family living.

Health 402. Kinesiology. (3-0-3); I, II, III.
Prerequisite: Biology 332. Study of human action: anatomy, physiology, mechanics, analysis, application. (Same as Physical Education 402.)

Health 471. Seminar. (1-0-1); I, II, III.
Prerequisite: Major, minor, or emphasis in health education, and senior standing. Seminar relative to current issues, problems, and research in the field of health.

Health 475. The School Health Program. (3-0-3); I.
Prerequisite: Major, minor, or emphasis in health education, and Health 300 or 304. Study of all aspects of elementary and secondary level school health: philosophy, organization and administration, environment, services, education, evaluation.

Health 500. Introduction to Driver Education. (3-1-3); I, II, III.
Prerequisite: Sophomore standing. 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 310.)

Health 501. Organization and Administration of Driver and Traffic Education. (3-0-3); I, II.
Prerequisites: Health/PE 310 and Health/PE 410. The organization 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 Physical Education 501.)

Health 503. The Administration and Supervision of Safety Education. (3-0-3); I, II.
Prerequisite: Health 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 Physical Education 503.)

Health 504. Methods of Teaching Secondary Driver and Traffic Education (3-0-3); I, II.
Prerequisite: Health/PE 310. The 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 Physical Education 504.)

Health 505. Intermediate Driver Education. (2-2-3); I, II, III.
Prerequisite: Health 310. 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 Physical Education 410.)

Health 512. Advanced Driver Education. (3-0-3); I, II, III.
Prerequisites: Physical Education/Health 310 and 410. Teaching the psycho-physical problems of human behavior as it relates to safety and driver education. To analyze the cause of problems involving accidents. (Same as Physical Education 512.)

Health 518. Use and Abuse of Drugs. (3-0-3); I, II, III. The course is designed to survey the field of psychoactive drugs with particular emphasis on the behavioral effects of these agents. The course will give an understanding of the social, therapeutic, and research uses of psychoactive drugs. Emphasis will also be centered on current instructional techniques and model drug curriculums now in use.

Health 519. Emergency Medical Techniques. (5-1-6); I, II.
Prerequisite: Health 203. The course emphasizes the development of skills in recognition of symptoms of illnesses 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.)

Health 532. Physiology of Exercise. (2-0-2); I, II, III.
Prerequisite: Health 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 Physical Education 532.)

Health 599. Workshop. (One to three hours); I, II, III. A workshop for specifically designated task orientation in health. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

Physical Education Requirements

For a Major in Physical Education (Men):

	Sem. Hrs.
Physical Education 104, 120, 130 or 131, 132, 150,	
203, 204, 301, 303, 401, 402, 532 and 575.	26
Selected from Physical Education 222 or 223	2
Selected from Physical Education 309, 319,	
409, or 419	2
Six activity courses approved by the department	6
Recommended Support Courses	
Biol. 331,332	36

For a Major in Physical Education (Women):

Physical Education 104, 120, 130, or 131, 132,	
150, 203, 222, 223, 301, 303, 309W, 319W, 401, 402,	
532, and 575	32
Four activity courses approved by the department	4
Recommended Support Courses	
Biol. 331,332	36
Students wishing to have this certificate validated for grades K through 8 must also complete Physical Education 206, 300, 311, 312, Education 210, 333 (total 18 hours).	

For a Minor in Athletic Training:

Physical Education 302, 502, 514, 515, 516, 517.	13
Health/Physical Education 203, 402, 532	8
Health 320	3
	24

State requirement for EMT Certification: Health 519.

Other Courses for N.A.T.A. Certification:

Biol. 331**, 332**, Psychology 154**, Education 310;
Physical Education 309M, 319M, 409M, 575; and Health 150. 22

** Counts toward general education or professional preparation requirements.

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.

Physical Education 100. Golf. (0-2-1); I, II, III. Emphasis on skill, knowledge and techniques for individual participation.

Physical Education 101. Tennis. (0-2-1); I, II, III. Emphasis on skill, knowledge, tactics and techniques for individual participation.

Physical Education 102. Badminton. (0-2-1); I, II, III. Emphasis on skill, knowledge, tactics and techniques for individual participation.

Physical Education 103. Archery. (0-2-1); I, II, III. Emphasis on skill, knowledge, tactics, and techniques for individual participation.

Physical Education 104. Gymnastics. (0-2-1); I, II. Emphasis on self-testing activities. Locomotor activities, rolls, springs and dual stunts will be stressed.

Physical Education 105. Conditioning. (0-2-1); I, II. Emphasis on developing physical fitness through a variety of exercises and activities.

Physical Education 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.

Physical Education 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.

Physical Education 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.)

Physical Education 109. Elementary Horsemanship. (0-2-1); I, II. (Same as Agriculture 109.)

Physical Education 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.

Physical Education 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.

Physical Education 112. Handball and Squash. (0-2-1); I, II. Emphasis on knowledge, tactics, skill and techniques for individual participation.

Physical Education 113. Soccer. (0-2-1); I, II. Rules, techniques and participation in soccer.

Physical Education 114. Track and Field. (0-2-1); I, II. Emphasis on skill, knowledge and techniques for individual participation.

Physical Education 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.

Physical Education 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.

Physical Education 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.

Physical Education 118. Volleyball. (0-2-1); I, II, III. Rules, techniques and participation in volleyball.

Physical Education 119. Intermediate Horsemanship. (0-2-1); I, II. Prerequisite: PE 109 or equivalent. (Same as Agriculture 119.)

Physical Education 120. Basic Rhythms. (0-2-1); I, II, III. An activity course designed to develop both skills and knowledge in the fundamentals of dance.

Physical Education 121. Modern Dance. (0-2-1); I, II. Modern dance technique, composition, and production. An introduction to movement as a means of self expression.

Physical Education 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.

Physical Education 123. Folk and Square Dance. (0-2-1); I, II. Traditional social dances of people of many nations, including the American square dance.

Physical Education 124. Canoeing. (0-2-1); I, III. Emphasis on skill, knowledge, and tactics in all types of streams. (Same as Recreation 124.)

Physical Education 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.

Physical Education 127. Racquetball. (0-2-1); I, II. Emphasis on skill, knowledge and strategy.

Physical Education 130. Beginning Swimming. (0-2-1); I, II, III. Learning to swim well enough to care for one's self under ordinary conditions.

Physical Education 131. Intermediate Swimming. (0-2-1); I, II, III. Perfection of standard strokes; diving.

Physical Education 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.

Physical Education 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.

Physical Education 135 (For Women). Field Hockey. (0-2-1); II. Designed to familiarize the student with fundamental skills and techniques in field hockey.

Physical Education 136 (For Women). Basketball. (0-2-1); I, II. Designed to familiarize the student with fundamental skills and techniques in basketball.

Physical Education 138. Fencing. (0-2-1); I, II. Emphasis on skill, knowledge and strategy.

Physical Education 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.

Physical Education 203. Safety and First Aid. (3-0-3); I, II, III. (Same as Health 203.)

Physical Education 204. Officiating. (2-0-2); I, II. Interpretation of rules for all major sports. Methods and techniques of officiating; laboratory experience in officiating.

Physical Education 206. Rhythmical Activities in the Elementary School. (1-1-2); I, II.

Prerequisite: Physical Education 120. 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.

Physical Education 222 (For Men). Individual Sports I. (2-0-2); I, II, III.

Prerequisites: Tennis, badminton, and golf. Emphasis on the development of performance skill and teaching techniques in tennis, badminton, and golf.

Physical Education 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.

Physical Education 223 (For Men). Individual Sports II. (2-0-2); I, II, III.

Prerequisites: Wrestling, gymnastics and swimming. Emphasis on the development of performance skills and teaching techniques in wrestling, gymnastics, and swimming.

Physical Education 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.

Physical Education 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.)

Physical Education 301. Evaluation in Health, Physical Education, and Recreation. (3-0-3); I, II, III. (Same as Health 301.)

Physical Education 302. Athletic Injuries. (2-0-2); III. Theory and practice of massage, bandaging, taping and caring for athletic injuries.

Physical Education 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.

Physical Education 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.)

Physical Education 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.

Physical Education 309 (For Men). Team Sports I. (2-0-2); I, II. Emphasis on the development of performance skill and teaching techniques in basketball.

Physical Education 309W (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.

Physical Education 311. Movement Exploration. (2-1-3); I, II. Emphasis will be on all the basic movements of the body.

Physical Education 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.

Physical Education 319 (For Men). Team Sports II. (2-0-2); I, II, III. Emphasis on the development of performance skill and teaching techniques in baseball.

Physical Education 319W (For Women). Team Sports II. (1-1-2); I, II. Emphasis on the development of performance skills, teaching techniques, and officiating in basketball and field hockey.

Physical Education 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.

Physical Education 402. Kinesiology. (3-0-3); I, II, III.
Prerequisite: Biology 332. (Same as Health 402.)

Physical Education 409 (For Men). Team Sports III. (2-0-2); I, II. Emphasis on the development of performance skill and teaching techniques in football.

Physical Education 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.

Physical Education 500. Introduction to Driver Education. (3-0-3); I, II, III. (Same as Health 310.)

Physical Education 501. Organization and Administration of Driver and Traffic Education. (3-0-3); I, II. (Same as Health 501.)

Physical Education 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.

Physical Education 503. The Administration and Supervision of Safety Education. (3-0-3); I, II. (Same as Health 503.)

Physical Education 504. Methods of Teaching Secondary Driver and Traffic Education. (3-0-3); I, II. (Same as Health 504.)

Physical Education 505. Intermediate Driver Education. (2-2-3); I, II, III.
Prerequisite: Physical Education 310. (Same as Health 410.)

Physical Education 512. Advanced Driver Education. (3-0-3); I, II, III.
Prerequisite: Physical Education 310 and 410. (Same as Health 512.)

Physical Education 514. Training Room Modalities. (1-1-2); I, II.
Prerequisites: Physical Education 203, 302. Emphasis on participation and use of machinery by the students involved with training room procedures.

Physical Education 515. Medical Aspects of Athletic Training. (1-1-2); I, II.
Prerequisites: Physical Education 203, 302. The study of relationships existing between training programs and medical society, including case history studies.

Physical Education 516. Training Room Practice. (0-3-3); I, II.
Prerequisites: Physical Education 203, 302. Actual work-participation situation involving the student in training room work.

Physical Education 517. Diagnostic Techniques of Athletic Injuries. (1-1-2); I, II.
Prerequisites: Physical Education 203, 302. Diagnosis of athletic injuries.

Physical Education 520. Coaching Women's Inter-Scholastic Athletics. (2-0-2); I, II.
Emphasis will be on the coaching techniques of women's inter-scholastics.

Physical Education 532. Physiology of Exercise. (2-1-2); I, II, III. (Same as Health 532.)

Physical Education 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.

Physical Education 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.

Physical Education 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 Requirements For a Major:

Sem. Hrs.

Recreation 201, 209, 285, 286, 288, 290,
305, 310, 375, 388, 471, 475, 477, 490,
and 580 31

For a Minor 21

Arrangements for this minor made with the chairman of the department.

For the Associate Two-Year Program in Recreation:

Recreation 201, 209, 285, 286, 288, 290,
305, 310, 375, 475, 580 25
Physical Education 100, 101, 102, 103, 107,
112, 113, 118, 132, 203, 222, 223, 300 18
English 101, 102 6
Psychology 154 3
Education 210 3
Sociology 101, 203 6

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.

Recreation 124. Canoeing. (0-2-1); I, III. (Same as Physical Education 124.)

Recreation 201. Outdoor Recreation. (3-0-3); II, III. Scope and history of outdoor recreation. Development of camp craft skills.

Recreation 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.)

Recreation 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.

Recreation 286. Recreation Leadership. (2-0-2); I, II, III. History, theory, and philosophy of recreation. Practical techniques of leadership for low organization activities.

Recreation 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.

Recreation 305. Social Recreation. (2-0-2); II. Practical application of planning, demonstration and conducting activities and programs for various social events and gatherings.

Recreation 310. Youth Organizations. (2-0-2); II. History, principles, purposes of the major youth service organizations with emphasis on leadership techniques and programming.

Recreation 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 Theatre 375.)

Recreation 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.

Recreation 390. Field Experience I. (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.)

Recreation 471. Seminar (1-0-1); I, II. Discussion and reporting of current issues and problems in the recreation profession.

Recreation 475. Recreation for the Handicapped. (3-0-3); II, III. Philosophy, objectives and basic concepts of therapeutic recreation. Emphasis on rehabilitation needs within institutional and community settings.

Recreation 477. Recreation Internship. (Four to eight 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.)

Recreation 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.)

Recreation 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.

Recreation 580. Outdoor Interpretation. (2-2-3); II, III. Procedures for conducting and supervising naturalist and outdoor interpretive programs.

Recreation 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 and 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 areas of study:
 - 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

	Sem. Hrs.
Ed 209—Foundations of Secondary Education	2
Ed 310—Principles of Adolescent Development	3
Ed 333—Fundamentals of Elementary Education	4
Ed 410—Human Growth and Development II	3
Ed 336—Reading in Primary Grades	3
OR	
Ed 576—Reading in the Secondary School	3
Ed 472—Fundamentals of Secondary Education	4

Library Science

LSM 477—School Media Library Practicum I	4
LSM 577—School Media Library Practicum II	4

Specialization Component

LSM 201—Careers in Media Librarianship	3
LSM 227—Literature and Materials for Children	3
LSM 301—Library Organization and Administration	3
LSM 511—Cataloging and Classification	3
LSM 521—Literature and Materials for Young People	3
LSM 523—Reference and Bibliography	3
Elective	3

Instructional Media

LSM 382—Utilization of Instructional Media	3
LSM 542—Selection and Evaluation of Media	3
LSM 583—Producing Audio-Visual Materials	3

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 Semester, II-Spring Semester and III-Summer Term.

Library Science and Instructional Media 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.

Library Science and Instructional Media 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.

Library Science and Instructional Media 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.

Library Science and Instructional Media 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.

Library Science and Instructional Media 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.

Library Science and Instructional Media 301. Library Organization and Administration. (3-0-3); I, II, III. An overview of the functions, organizations 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) 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.

Library Science and Instructional Media 382. Utilization of Instructional Media. (2-2-3); I, III. How to use existing media hardware and software (materials) along with a general overview of the field, development of basic techniques and applications are central in the course. Competence in operation of all common types of media equipment is developed in audiovisual laboratory experience.

Library Science and Instructional Media 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 practical laboratory work in which competence is developed in the use of the major types of audiovisual equipment found in a modern school.

Library Science and Instructional Media 477. School Media Library Practicum I. (0-10-4); I, II.

Prerequisites: Education 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.

Library Science and Instructional Media 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.

Library Science and Instructional Media 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.

Library Science and Instructional Media 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.

Library Science and Instructional Media 521. Literature and Material 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.

Library Science and Instructional Media 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.

Library Science and Instructional Media 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.

Library Science and Instructional Media 575. School Library Practice. (Three to four hours); I, II, III.

Prerequisite: All other library science courses required for certification except those taken at the same time as practice work. Practical application of procedures in modern school library. Reading guidance, story telling, book talks, organization of teaching materials are stressed. (Application made through the Director of Professional Laboratory Experiences.)

Library Science and Instructional Media 577. School Media Library Practicum II. (0-10-4); I, II.

Prerequisites: Education 209, 310, and admission to the teacher education program. This course is a continuation and expansion of Library Science 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.)

Library Science and Instructional Media 542. Selection and Evaluation of Media. (3-0-3); II, III.

Prerequisite: Instructional Media 382 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.

Library Science and Instructional Media 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.

Library Science and Instructional Media 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 schools. Lectures, demonstrations and practical applications of widely available audiovisual equipment, materials, and methods are used.

Library Science and Instructional Media 583. Producing Audiovisual Materials. (3-0-3); II.

Prerequisite: Instructional Media 382 or equivalent. Production of various types of audiovisual learning materials with emphasis upon the design and production of overhead transparencies, photographic copying, extreme closeup photography, "Super 8mm" filming as applicable to school programs and audio technology.

Library Science and Instructional Media 599. Workshop. (One to six hours); 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 in special education.

Requirements for a Major:

Sem. Hrs.

Psychology 154, 155, 581, and 585. 12
Electives in psychology approved by the department 18
30

Additional requirement - Statistics.

Ed 581 or Math 353. 3
33

Requirements for a Minor:

Psychology 154 or 155.....	3
Electives in psychology approved by the department.....	18
	21
Additional requirement - Statistics.	
Ed 581 or Math 353.....	3
	24

Description of Courses

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

Psychology 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.

Psychology 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.

Psychology 199. Selected Topics. (One to three hours); I, II, III. Directed study of specific areas in psychology. The topic must be approved in advance by the instructor. Conferences with the instructor are by arrangement.

Psychology 221. Child Psychology. (3-0-3); I. Prerequisite: Psychology 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.

Psychology 222. Adolescent Psychology. (3-0-3); II. Prerequisite: Psychology 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.

Psychology 353. Industrial Psychology. (3-0-3); I, II. Prerequisite: Psychology 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.

Psychology 390. Psychology of Personality. (3-0-3); I, II, III. Prerequisite: Psychology 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.

Psychology 422. Comparative Psychology. (3-0-3); II. Prerequisite: Psychology 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.

Psychology 521. Physiological Psychology. (3-0-3); I. Prerequisite: Psychology 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.

Psychology 554. Social Psychology. (3-0-3); II. Prerequisite: Psychology 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.

Psychology 555. Environmental Psychology. (3-0-3); II. Prerequisite: Psychology 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.

Psychology 556. Introduction to Clinical Psychology. (3-0-3); I. Prerequisite: Psychology 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.

Psychology 558. Psychological Testing. (3-0-3); I, III. Prerequisite: Psychology 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.

Psychology 559. Behavior Modification. (2-2-3); II, III. Prerequisite: Psychology 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.)

Psychology 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.

Psychology 580. Measurement Principles and Techniques. (3-0-3); I, II, III. (Same as Education 580).

Psychology 581. Experimental Psychology I. (2-2-3); I. Prerequisite: Psychology 154 or 155 and Ed 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.)

Psychology 582. Experimental Psychology II. (2-2-3); II. Prerequisite: Psychology 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.)

Psychology 583. Sensory Psychology. (3-0-3); I. Prerequisites: Psychology 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.

Psychology 584. Perception. (2-2-3); III. Prerequisite: Psychology 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.)

Psychology 585. Systems and Theories. (3-0-3); I. Prerequisite: Psychology 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.

Psychology 586. Motivation. (2-2-3); II. Prerequisite: Psychology 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.)

Psychology 589. Psychology of Learning. (3-0-3); II, III. Prerequisite: Psychology 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.

Psychology 590. Abnormal Psychology. (3-0-3); I, II, III. Prerequisite: Psychology 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.

Psychology 599. Workshop. (One to six hours); I, II, III. Supervised practice in working in specific areas of psychology.

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.

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.

Requirements for an Area of Concentration in Learning and Behavior Disorders (includes both area and general education requirements).

SPECIAL EDUCATION	24
Ed 230—Education of Exceptional Children.....	3
Ed 550—Nature & Needs of Exceptional Children.....	3
Ed 537—Educational Assessment of Exceptional Children.....	3
Ed 551—Curriculum for Pre-School Exceptional Children.....	3
Ed 557—Curriculum for Elementary Exceptional Children.....	3
Ed 553—Curriculum for Secondary Exceptional Children.....	3
Ed 555—Teaching Children with Learning & Behavior Disorders.....	3
Ed 231—Field Experience with Children with Learning & Behavior Disorders.....	3
EDUCATION	41
Ed 208—Foundation of Elementary Education.....	2
Ed 210—Human Growth & Development I.....	3
Ed 321—Teaching of Arithmetic.....	3
Ed 322—Teaching Social Studies in the Elem. School.....	3
Ed 323—Language Arts for the Elementary School.....	3
Ed 333—Fundamentals of Elementary Education.....	4
Ed 336—Reading in the Primary Grades.....	3
Ed 337—Reading in the Intermediate Grades.....	3
Ed 410—Human Growth & Development II.....	3
Ed 412—Media Strategies.....	2
Ed 435—Student Teaching.....	12
COMMUNICATIONS & 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
Mus 100—Rudiments of Music.....	2
Mus 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. History, 4. Political Science, 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
PE 300—Physical Education in the Elementary School.....	2

PE—Activity courses.....	2
ELECTIVES	4
TOTAL	128

Requirements for a Major (Non-Teaching)

Sem. Hrs.

Education 230, 550, 555 or 556, 336 or 337, 320, 537 and 559.....	21
Electives in Special Education to be selected from the following: Recreation 288 or 475 or Physical Education 575, Psychology 585, Psychology 590; Psychology 390, Psychology 589, Psychology 558, and Education 562, Education 581, Education 552, Education 321, Music 100 and Art 121.....	9
Laboratory Experience, Education 435 or 436.....	4-8
TOTAL	34-38

Requirements for a Minor (Non-Teaching)

Sem. Hrs.

Education 230, 550, 555 or 556, 336 or 337, 537, 559.....	18
Electives in Special Education approved by the department.....	3
TOTAL	21
Laboratory Experience, Education 435 or 436.....	4
Education 230 is a prerequisite for all special education courses.	

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.

Education 101, Workshop. (One to three hours); I, II, III. A workshop for specifically designated persons for task orientation in special education.

Education 199, Selected Topics. (One to three hours); I, II, III. Directed study of specific areas in special education. The topic must be approved in advance by the instructor. Conferences with the instructor are by arrangement.

Education 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.

Education 231, Field Experiences in Learning and Behavior Disorders. (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 Education 230 or 550.

Education 320, Introduction to Corrective Speech. (3-0-3); I, II. Introductory course in speech correction for the classroom teacher. (Same as Speech 320.)

Education 435, Student Teaching. (Four to twelve hours). 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. Twelve weeks are spent in public school special education and elementary education classrooms. (Application made through the Director of Professional Laboratory Experiences.)

Education 436, Special Education Student Teaching (TMR). (Four to eight hours). 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 on the basis of one week placement for each one credit hour unit. (Application made through the Director of Professional Laboratory Experiences.)

Education 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.

Education 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.

Education 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 perceptual-motor activities, prosthetic devices, and system approaches in special education will be featured.

Education 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.

Education 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.

Education 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.

Education 556. Teaching The Mentally Retarded (TMR). (2-2-3); II.

Prerequisite: Education 230. Application of methods and materials for teaching the trainable mentally retarded. The construction and use of instructional aids to be used with the retarded individual.

Education 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.

Education 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.

Education 559. Behavior Modification. (2-2-3); I, II, III.

Prerequisite: Psychology 154 or 155. (Same as Psychology 559.)

Education 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
PE—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
PE—Activity course	1
Sci 105—Intro. to Biological Sci.	3
FA 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
Hist 141—Intro. to Early Amer. Hist.	3
*Electives	6
	15
Second Semester	
Eng—Literature elective	3
Spch 110—Basic Speech	3
Hist 142—Intro. to Recent Amer. Hist.	3
PS 141—Government of the U.S.	
or	
Econ 201—Principles of Economics I	3
*Electives	5
	17
Minimum for the degree	66
* 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.

Fine Arts 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.

Fine Arts 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.

Fine Arts 660. Comparative Arts. (3-0-3); on demand. A study of music, literature, and the visual arts in relation to their social, religious, and historical backgrounds.

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:*

For an Area of Concentration:		Sem. Hrs.
Art 101, 103, 202, 204, 213, 216, 245, 251, 263, 264, 283, 291, 294, 300, 304, 313, 316, 321, 465 or 565, 342 or 345 or 394, 555, 571, plus eight hours of elective credit in art.		54

For a Major:*

Art 101, 103, 202, 204, 213, 216, 300, 304, 241 or 245, 251, 263 or 264, 465 or 565, 291, 294, 321, 571, plus two hours of elective credit in art.	35
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For a Minor:*

Art 101, 103, 204, 213, 216, 300, 304, 241 or 245, 263 or 264 or 465 or 565, 291, 294, 321.	25
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* Students wishing to have this certificate validated for service in the elementary grades must include Education 333, Fundamentals of Elementary Education, in their programs.

Suggested Program

The following program for freshman and sophomore years has been devised to help students in selecting their courses and making their schedules. These suggested schedules need not be followed specifically from semester to semester. However, close adherence to them will aid the student in meeting all requirements prior to the time a check sheet is completed.

Provisional High School Certificate with an Area of Concentration in Art

FRESHMAN YEAR

First Semester	
Eng. 101—Composition I	3
PE—Activity course	1
Sci 103—Intro. to Physical Sci.	3
Art 101—Drawing I	2
Art 264—History of Painting	3
Hlth 150—Personal Health	2
Elective	2
	16
Second Semester	
Eng 102—Composition II	3
PE—Activity course	1
Sci 105—Intro. to Biological Sci.	3
Art 103—Drawing II	2
Art 263—Hist. of Arch. and Sculp.	3
Art 291—Color and Design	2
Ed 208—Foundations of Elementary Education (Elementary Art Education majors)	2
or	
Ed 209—Foundations of Secondary Education (Secondary Art Education majors)	2
	16

SOPHOMORE YEAR

First Semester	
Eng—Literature elective	3
Psy 154—Life-Oriented General Psychology	3
Sci. or Math elective	3
Art 202—Comp. and Draw. I	2
Art 204—Figure Drawing	2
Elective	2
	15
Second Semester	
Social Science elective	3
Ed 310—Principles of Adolescent Development	3
Art 213—Oil Painting I	2
Art 216—Water Color I	2
Art 251—Printmaking I	2
Art 294—Sculpture I	2
Elective	2
	16

Proposed Schedule of Classes for Students in the Commercial Art Program

FRESHMAN YEAR

	First Semester	Sem Hrs
Eng 101—Composition I	3	3
Sci 103—Intro. to Physical Sci.	3	3
Art 101—Drawing I	2	2
Art 291—Color and Design	2	2
Art 104—Lettering, Layout and Design	3	3
Elective	3	3
		16
	Second Semester	
Eng 192—Technical Composition	3	3
Sci 105—Intro. To Biological Sci.	3	3
Art 292—Three Dimensional Design	3	3
Art 103—Drawing II	2	2
Art 216—Water Color I	2	2
PE—Activity course	1	1
Elective	3	3
		17

SOPHOMORE YEAR

	First Semester	
Art 283—Photographic Design II	2	2
Art 202—Comp. & Drawing	2	2
Eng 202—Intro to Literature	3	3
Math or Science elective	3	3
Humanities elective	3	3
Art 251—Printmaking I	2	2
PE—Activity course	1	1
		16
	Second Semester	
Art 284—Commercial Photography	2	2
Art 316—Water Color II	2	2
Nath—Elective	3	3
Art 204—Figure Drawing I	2	2
Social Science elective	3	3
Art 303—Commercial Illustration	3	3
Hlth 150—Personal Health	2	2
		17

JUNIOR YEAR

	First Semester	
Art 304—Figure Drawing II	2	2
Art 290—Graphic Design I	3	3
Art 203—Fashion Illustration	2	2
General elective	6	6
Soc 101—General Sociology	3	3
		16
	Second Semester	
Jour 483—Advertising Copy Writing	2	2
Art 565—Arts of U.S.	3	3
Art 351—Printmaking II	2	2
Art 353—Commercial Layout & Design	3	3
Humanities elective (upper division)	3	3
Electives (upper division)	3	3
		16

SENIOR YEAR

	First Semester	
Art 502—Adv. Composition & Drawing	2	2
Art 551—Printmaking III	2	2
Social Science elective (upper division)	3	3
Humanities elective (upper division)	3	3
IE 351—Graphic Duplication	3	3
Electives	2	2
		16
	Second Semester	
Art 383—Photographic Design II	2	2
Art 390—Graphic Design II	3	3
Art 571—Seminar	1	1
Social Science elective (upper division)	3	3
Electives	6	6
		15

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. (2-2-2); I, II, III. Introduction to objective and subjective drawing using various graphic media.

Art 103. Drawing II. (2-2-2); I, II, III.
Prerequisite: Art 101. A continuation of Art 101.

Art 104. Lettering, Layout and Design (3-3-3); I, II, III. Introduction to lettering principles and their application. Rough and comprehensive layout in black and white, and color with emphasis on design.

Art 121. School Art I. (2-0-2); I, II, III. Introduction to art and to the teaching of art in the lower (1-3) elementary grades.

Art 202. Composition and Drawing. (2-2-2); I, II, III.
Prerequisites: Art 101 and 103. A continuation of objective and subjective drawing with emphasis on composition.

Art 203. Fashion Illustration. (2-2-2); I, II, III. 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. (2-2-2); I, II.
Prerequisite: Art 101. An introduction to the human figure as an expressive form; composition, gesture, proportion and anatomical observations.

Art 213. Oil Painting I. (2-2-2); 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. (2-2-2); 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. (2-0-2); 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. (2-2-2); I, II, III. Creative and technical processes of weaving, fabric design, metal, and jewelry making.

Art 245. Ceramics I. (2-2-2); I, II, III. Introduction to ceramic forms in hand-building, wheel-throwing, glazing, and decorative techniques.

Art 251. Printmaking I. (2-2-2); I, II.
Prerequisites: Art 101 and 103. Creative experiments with the printing processes of silkscreen, etching, drypoint, aquatint, collography, monoprint, wood-block, and lithography.

Art 263. History of Architecture and Sculpture. (3-0-3); I, II. A historical survey of architecture and sculpture and a study of influences that produced them.

Art 264. History of Painting. (3-0-3); I, II. Paintings are studied in their respective periods and schools and comparative studies of paintings of different periods are made.

Art 283. Photographic Design I. (2-2-2); I, II, III. Experimental and standard photographic processes and techniques are approached with an aesthetic view of the medium.

Art 290. Graphic Design I. (3-3-3); I, II, III. A study of three dimensional design with emphasis on product and package design.

Art 291. Color and Design. (2-2-2); 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. (3-3-3); I, II, III. A study of three dimensional design with emphasis on product and package design.

Art 294. Sculpture I. (2-2-2); 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. (2-0-2); I, II.
Prerequisite: Acceptance into the teacher education program. Presentation of the background and philosophy of elementary art in education.

Art 303. Commercial Illustration. (3-3-3); 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. (2-2-2); 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. (2-2-2); 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. (2-2-2); 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. (2-0-2); I, II.

Prerequisite: Acceptance into the teacher education program. Presentation of the background, philosophy, and techniques for the teaching of art in the secondary school.

Art 342. Crafts II. (2-2-2); I, II, III.

Prerequisite: Art 241. Advanced experimentations with techniques of weaving, fabric design, metal and jewelry making.

Art 345. Ceramics II. (2-2-2); 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. (2-2-2); 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. (3-3-3); 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 383. Photographic Design II. (2-2-2); I, II, III.

Prerequisite: Art 283. Advanced work in the use of photographic design concepts and techniques.

Art 390. Graphic Design II. (3-3-3); 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. (2-2-2); I, II, III.

Prerequisite: Art 294. Studio problems involving the manipulation of various sculpture media.

Art 465. 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 502. Advanced Composition and Drawing. (2-2-2); I, II, III.

Prerequisite: Permission of the department. Advanced studio work in drawing with an emphasis on composition.

Art 513. Oil Painting III. (2-2-2); I, II, III.

Prerequisites: Art 213 and 313. Experiences leading toward individual achievements in styles and techniques.

Art 516. Water Color III. (2-2-2); I, II, III.

Prerequisites: Art 216 and 316. Experiences leading toward individual interpretation.

Art 521. Art Workshop. (3-3-3); (taught during intersession). Participation in art activities according to individual needs.

Art 537. Jewelry and Metal Work. (2-2-2); I, II, III.

Prerequisite: Permission of the department. Advanced techniques in the design and production of jewelry and household objects in precious metals.

Art 545. Independent Studio. (Two to four hours.) I, II, III.

Prerequisite: Permission of the department required. Independent studio for advanced students in studio art.

Art 551. Printmaking III. (2-2-2); I, II, III.

Prerequisite: Art 351. Advanced studio in printmaking. Emphasis is given to the processes of etching and engraving.

Art 555. Advanced Art Problems. (2-2-2); I, II, III.

Prerequisite: Permission of the department required. An inviolate course involving research in an art area of the student's choice.

Art 565. Arts of the United States. (3-0-3); I, II, III.

Prerequisite: Permission of the department. An in-depth study of the social, political, and cultural movements which affected the course of American artistic development.

Art 571. Seminar. (1-0-1); I, II.

Prerequisite: Permission of the department required.

Art 583. Photographic Design III. (2-2-2); I, II, III.

Prerequisites: Art 383 and permission of the department. Individual problems in photographic design.

Art 594. Sculpture III. (2-2-2); 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 students appreciation of man's expressive achievements.

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 and 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

Journalism 204, 285, 301 or 380, 364 or 383.	11
Electives in Journalism.	9
Electives in Communications.	4
Total	24

Specific Requirements—Emphasis in Radio-Television

Radio-TV 250, 340, 344 or 353.	10
Electives in Radio-Television.	11
Electives in Communications.	3
Total	24

Specific Requirements—Emphasis in Speech

Speech 110, 200, 382, 383, 385, 595.	18
Electives in Speech.	3
Electives in Communications.	6
Total	27

Specific Requirements—Emphasis in Theatre

Speech 382 or 383, 595.	6
Theatre 210, 284, 322, 380.	12
Electives in Theatre.	3
Electives in Communications.	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 Sequence:

Journalism 101, 201, 204, 285, 380, 365, and 504*	20
Communications 247, or 347, or 477.	1
Approved journalism electives.	9
Total	30

* 504 required only for teacher certification; may be substituted with another 3-hour journalism course for anyone not seeking certification.

For a Major, Print-media Sequence:

Journalism 101, 201, 204, 285, 305 and 365.	17
Communications 247, 347 or 447.	1
Approved journalism electives.	12
Total	30

For a Major, Broadcast-media Sequence:

Journalism 101, 201, 240, 285, 344 or 365.	17
Communications 247, 347 or 447.	2
Approved journalism electives.	11
Total	30

For a Major, Advertising-Public Relations Sequence:

Journalism 101, 201, 204, 285 or 386, 383, 482, and 483.	21
Electives to be chosen from a list below.	9
Total	30

Electives for Advertising-Public Relations Sequence:

Journalism 240 and 464
Speech 370
Communications 247, 347 or 447

Sociology 376
Business Education 221
Business Administration 200, 304

For a Minor, General and Print-media Sequences:

Journalism 101, 201, 285, 240 and 344	11
Electives in 300 series from journalism	10
	21

For a Minor, Broadcast-media Sequence:

Journalism 101, 201, 285, 240 and 344	14
Electives in 300 series from journalism	7
	21

For a Minor, Advertising—Public Relations Sequences:

Journalism 101, 201, 285, 382, 383, 482, 483	19
Electives from courses listed above for major in sequences	2
	21

For the Associate of Applied Arts (Journalism) (required courses only)

Journalism 101, 201, 204, 285 or 386, 365, 383	17
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Suggested Program

The following program has been devised to help students in selecting 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.

FRESHMAN YEAR

First Semester

	Sem. Hrs.
Jour 101—Introduction to Mass Communications	3
Eng—Composition	3
BE 211—Beginning Typewriting*	3
PE—Activity course	1
Electives	5
	15

Second Semester

Jour 201—News Writing and Reporting	3
Eng—Composition	3
FA 160—Appreciation of Fine Arts	3
Social Sciences elective	3
R-TV 155—Broadcast Performance	3
PE—Activity or Health Course (1 or 2 hrs.)	1-2
	16-17

SOPHOMORE YEAR

First Semester

Jour 204—Copyreading and Editing	3
Comm 247—Internship	1
Jour 285—Introduction to Photojournalism**	2
Eng—Literature elective	3
Sci—Science elective	3
Electives	5
	17

Second Semester

Jour 382—Principles of Public Relations	2
Jour 383—Prin. of Advertising	3
Spch 370—Business and Professional Speech	3
Social Sciences elective	3
Geog 211—Economic Geography	3
Electives	3
	17

* Or show proficiency in typing.

** Or Journalism 386 if proficiency is shown in photography.

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

Communications 139-539. Field Experiences. The Division of Communications offers a series of cooperative study courses—Communications 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.

Internships

Communications 247. Internship (One to three hours); I, II, III. Competency-based practical experience aimed at increasing proficiency of the student in the specified positions to which he is assigned.

Communications 347. Internship. (One to three hours); I, II, III. Competency-based practical experience aimed at increasing the proficiency of the student in the specified positions to which he is assigned.

Communications 447. Internship. (One to three hours); I, II, III. Competency-based practical experience aimed at increasing the proficiency of the student in the specified positions to which he is assigned.

Journalism

Journalism 101. Introduction to Mass Communications. (3-0-3); I, II. Survey of history, functions, career openings, and interrelationship of newspapers, radio, television, other media and attendant agencies.

Journalism 155. Broadcast Performance. (3-2-3); I, II. (See Radio-TV 155.)

Journalism 192. Technical Composition. (3-0-3); I, II, III. (See English 192.)

Journalism 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.

Journalism 204. Copyreading and Editing. (3-0-3); I. Copy correcting (using some "live" wire-copy news), proof-reading, headline writing, editing, and executing page layouts.

Journalism 240. Radio-TV Continuity Writing. (3-0-3); I, II. (See Radio-TV 240.)

Journalism 285. Introduction to Photojournalism. (1-1-2); I, II, III. Lecture and laboratory, introduction to camera use, darkroom operation, photo layout, and practices in reporting news pictorially.

Journalism 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.

Journalism 305. Newspaper Typography and Design. (3-0-3); I. Prerequisite: Journalism 204. A study of the elements of newspaper design, with emphasis on typography and photo display.

Journalism 344. Broadcast News and Public Affairs. (3-0-3); I. Prerequisite: 9 hours of undergraduate Radio-TV or consent of the faculty. (See Radio-TV 344.)

Journalism 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.)

Journalism 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.)

Journalism 364. Feature Writing. (3-0-3); I, II. The researching, organizing, and composing of non-fiction articles, including feature items.

Journalism 365. Editorial Writing. (3-0-3); I. A study of the purposes and methods of editorial writing, including ethics and values.

Journalism 380. History of Journalism. (3-0-3); I. (See History 380.)

Journalism 382. Principles of Public Relations. (2-0-2); I. A study of purposes, methods, and responsibilities in the profession of public relations.

Journalism 383. Principles of Advertising. (3-0-3); II. A study of advertising principles and practices.

Journalism 386. Photo Essay and Editing. (2-0-2); I. Prerequisite: Journalism 285 or photography proficiency. An emphasis upon photographic composition and selection of pictures for various kinds of publications.

Journalism 464. Magazine Writing and Editing. (3-0-3); II. A study of practices in writing for and editing magazines.

Journalism 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.

Journalism 482. Public Relations Campaigns. (3-0-3); II. A study of specific practices in carrying out campaigns in public relations.

Journalism 483. Advertising Copy Writing (2-0-2); I. A study of methods used to convey the advertising message with emphasis on

coordinating copy with design of print media advertising, and including television story boards.

Journalism 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.)

Journalism 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.

Journalism 558. Public Broadcasting. (3-0-3); II. Prerequisite: Junior standing and consent of the faculty. (See Radio-TV 558.)

Journalism 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.

Journalism 591. Technical Writing I. (3-0-3); I, II, III. (See English 591.)

Journalism 592. Technical Writing II. (3-0-3); I, II, III. (See English 592.)

Journalism 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.
Radio-TV 101, 151, 155, 240, 250, 340	18
Electives/Internships	12
	30

For a Minor (Non-Teaching):

Radio-TV 101, 151, 155, 240	11
Electives/Internships	10
	21

Suggested Program

Associate of Applied Arts

Radio and Television Broadcasting

FRESHMAN YEAR

First Semester

	Sem. Hrs.
R-TV 101—Intro. to Mass Communications	3
R-TV 151—Broadcast Techniques	2
R-TV 155—Broadcast Performance	3
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	2
Jour 201—News Writing and Reporting	3
Electives/Internships	7
	16

SOPHOMORE YEAR

First Semester

R-TV 340—Video Production and Direction	3
R-TV 344—Broadcast News and Public Affairs	3
Jour 382—Prin. of Public Relations	2
Electives/Internships	8
	16

Second Semester

R-TV—Internship	3
R-TV 353—Program Planning	3
R-TV 440—Advanced Video Production & Direction	4
Jour 383—Prin. of Advertising	3
Electives/Internships	4
	17
TOTAL	64

Radio-Television, Four-Year Program

First Two Years

Freshman Year Radio-Television Courses

R-TV 101—Introduction to Mass Communications

R-TV 151—Introduction to Broadcast Techniques

R-TV 155—Broadcast Performance

Sophomore Year Radio-Television Courses

R-TV 240—Radio-TV Continuity Writing

R-TV 250—Audio Production and Direction

R-TV 340—Video Production and Direction I

No 300-level courses in R-TV should be taken before the junior year, except for R-TV 340, which may be taken during the second semester of the sophomore year.

Description of Courses

NOTE: (3-0-3) following courses 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.

Radio-TV 101. Introduction to Mass Communications. (3-0-3); I. (See Journalism 101.)

Radio-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.

Radio-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.

Radio-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.

Radio-TV 250. Audio Production and Direction. (3-2-4); II. Prerequisite: Radio-TV 151 and 155 or permission of instructor. Basic work in all areas of audio production, including radio, television, audio, and film audio.

Radio-TV 283. Photographic Design I. (2-2-2); I, II. Experimental and standard photographic processes and techniques are approached with an aesthetic view of the medium.

Radio-TV 338. FCC License. (1-0-1); I, II. (See Industrial Education 338.)

Radio-TV 340. Video Production and Direction I. (2-2-3); I, II. Prerequisite: Radio-TV 250 or permission of instructor. Basic television production techniques and introduction of directing skills in a laboratory situation.

Radio-TV 344. Broadcast News and Public Affairs. (3-0-3); I. 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.

Radio-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.)

Radio-TV 358. Sports Writing. (3-0-3); II. Philosophy and techniques in writing sports news and sports analysis or commentary for print media.

Radio-TV 383. Photographic Design II. (2-2-2); I, II. Prerequisite: Radio-TV 283. Advanced work in the use of photographic design concepts and techniques.

Radio-TV 440. Video Production and Direction II. (3-4-4); I, II. Prerequisite: Radio-TV 340. An extension of Radio-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.

Radio-TV 476. Special Problems. (1 to 3); I, II, III. Prerequisite: Major in communications and prior arrangement with the instructor. Research or an original project with appropriate written report, within a subject area.

Radio-TV 558. Public Broadcasting. (3-0-3); II. Prerequisite: Junior standing and consent of the faculty. A study of the development of public broadcasting from both theoretical and operational standpoints.

Radio-TV 583. Photographic Design III. (2-2-2); I, II. Prerequisite: R-TV 383. Individual problems in photographic design.

With the exception of R-TV 340, which may be taken during the second semester of the sophomore year, students must take courses in proper sequence, i.e. 100-level courses during the freshman year, 200-level courses during the sophomore year, etc.

Speech and Theatre

Requirements

For a Major in Speech and Theatre (Teaching):

	Sem. Hrs.
Speech 100, 110, 382 or 383	9
Radio-TV 155 or 250	3
Theatre 100, 200, 210, 284, and 380	15
Electives in speech and theatre, to be approved by the division	9
	36

For a Major in Speech and Theatre (Non-Teaching):

Speech 110, and 382 or 383	6
Radio-TV 155 or 250	3
Theatre 100 and 200	6
To be selected with the approval of the division	15
	30

For a Major in Speech:

Speech 100, 110, 200, 382 or 383, and 385	15
To be selected with the approval of the division (Non-teaching majors may select nine hours of the elective credit from related areas within the Division of Communications.)	15
	30

For a Minor in Speech

Speech 100, 110, 200, and 382 or 383	12
Electives in speech approved by the division	9
	21

For a Minor in Theatre:

Theatre 100, 200, 210 and 284	12
Electives in theatre approved by the division	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.

Provisional High School Certificate with a Major in Speech

FRESHMAN YEAR

First Semester

Spch 100—Voice and Articulation	3
or	
Spch 110—Basic Speech	3
Eng 101—Composition I	3
Biological Science elective	3
Health elective	2
PE—Activity course	1
Soc Sci—Elective	3
	15

Second Semester

Spch 100—Voice and Articulation	3
or	
Spch 110—Basic Speech	3
Eng 102—Composition II	3
Physical Science elective	3
Social Science elective	3
PE—Activity course	1
Elective or minor	3
	16

SOPHOMORE YEAR

First Semester

Eng 202—Intro. to Literature	3
Thea 200—Intro. to Dramatic Literature	3
Thea 284—Acting Techniques	3
Spch 200—Oral Interpretation	3
Social Science elective	3
Speech or Drama activity	1
	16

Second Semester

Ed 209—Foundations of Secondary Education	2
Spch 220—Introduction to Communication Theory	3
R-TV 155—Broadcast Performance	3
Approved minor elective	3
Humanities electives	3
Speech or Drama activity	2
	16

Provisional High School Certificate with a Major in Speech and Theatre

FRESHMAN YEAR

First Semester

Eng 101—Composition I	3
Biological Science elective	3
PE—Activity course	1
Thea 100—Fundamentals of the Theatre	3
General Education and/or electives	7
	17

Second Semester

Eng 102—Composition II	3
Hlth—Personal Health	2
Physical Science elective	3
PE—Activity course	1
Spch 100—Voice and Articulation	3
Thea 210—Technical Production	3
Elective	2
	17

SOPHOMORE YEAR

First Semester

Spch 200—Oral Interpretation	3
or	
Spch 210—Listening	3
Spch 220—Introduction to Communication Theory	3
Literature Elective	3
PS 310—Current World Problems	3
Elective or minor	5
	17

Second Semester

Spch 200—Oral Interpretation	3
or	
Spch 210—Listening	3
Soc 203—Contemporary Social Problems	3
Math or Sci—Elective	3
Elective or minor	6
	15

Bachelor of Arts with a Major in Speech

FRESHMAN YEAR

First Semester

Spch 100—Voice and Articulation	3
or	
Spch 110—Basic Speech	3
Eng 101—Composition I	3
Biological Sciences Elective	3
Health Elective	2
PE—Activity course	1
Social Science Elective	3
	15

Second Semester

Spch 100—Voice and Articulation	3
or	
Spch 110—Basic Speech	3
Eng 102—Composition II	3
Physical Science Elective	3
Social Science Elective	3
PE—Activity course	1
Elective or minor	3
	16

SOPHOMORE YEAR

First Semester

Spch 200—Oral Interpretation	3
or	
Spch 210—Listening	3
Spch 220—Introduction to Communication Theory	3
Literature Elective	3
PS 310—Current World Problems	3
Elective or minor	5
	17

Second Semester

Spch 200—Oral Interpretation.....	3
or	
Spch 210—Listening.....	3
Soc 203—Contemporary Social Problems.....	3
Math or Sci. Elective.....	3
Elective or minor.....	6
	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 the course is normally offered: I-fall; II-spring, and III-summer.

Speech

Speech 100. Voice and Articulation I. (3-0-3); I, II. Essentials of distinct utterance, phonetic transcription, and other uses of the vocal mechanism.

Speech 110. Basic Speech. (3-0-3); I, II, III. Development of proficiency in the use of oral language presentations.

Speech 200. Oral Interpretation. (3-0-3); I, II. Study of communicating the meanings of prose, poetry and dramatic literature through the use of body, voice, thought, and emotion.

Speech 210. Listening. (3-0-3); I, II. The study and practice of skills in both retentive and empathetic listening.

Speech 220. Introduction to Communication Theory. (3-0-3); I, II. A survey of communication theory with emphasis on the interpersonal aspects.

Speech 280-281. Debate Practicum I. (2-2-1); I, II. Activity and research for students involved in intercollegiate debate.

Speech 300. Oral Communications. (3-0-3); I, II, III. Development of appropriate classroom voice through study, exercise, and practice in reading, describing and motivating. Designed for elementary teaching majors.

Speech 301. Advanced Voice and Articulation II. (3-0-3); II. Prerequisite: Speech 100. To develop the ability to use major dialects essential to interpretation of dramatic literature and radio scripts.

Speech 305. Advanced Oral Interpretation. (3-0-3); I, II. Prerequisite: Speech 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.

Speech 320. Introduction to Corrective Speech. (3-0-3); I, II. Introductory course in speech correction for the classroom teacher.

Speech 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.

Speech 380-381. Debate Practicum II. (2-2-1); I, II. Continuation of Speech 280-281.

Speech 382. Argumentation and Debate. (3-0-3); I. Instruction in making rational decisions through the debate process entailing analysis, evidence, briefing, and refutation.

Speech 383. Group Discussion. (3-0-3); II. Analysis of the roles of participants and leaders in problem solving with experience in conducting formal and informal groups.

Speech 385. Persuasion. (3-0-3); I, III. Study of the nature and methods of persuasion for influencing group opinion and action. Recommended for business majors.

Speech 386. Speech Practicum I. (2-0-2); I, II. Prerequisites: Speech 100 and 110 and approval of the division chairman. Provides independent guided study for the development of specialization in specific areas of speech.

Speech 387. Speech Practicum II. (2-0-2); I, II. Prerequisites: Speech 386 and approval of the division chairman. Continuation of Speech 386.

Speech 388. Speech Practicum III. (2-0-2); I, II. Prerequisites: Speech 387 and approval of the division chairman. Continuation of Speech 387.

Speech 471. Speech-Dramatic Arts Seminar. (1-0-1); I, II. Study of resources and research techniques in speech and dramatic arts.

Speech 476. Special Problems. (1-0-3); I, II, III. Prerequisite: Major in communications and permission of the instructor. Research on an original project, with appropriate written report, within an approved subject area.

Speech 480-481. Debate Practicum III. (2-2-1); I, II. Continuation of Speech 380-381.

Speech 510. Advanced Public Speaking. (3-0-3); I, II. Preparation and delivery of longer and more complex speeches.

Speech 527. American Public Address I. (3-0-3). Speeches, speakers and movements in America from the colonial period through the Civil War era.

Speech 528. American Public Address II. (3-0-3). Speeches, speakers and movements from Reconstruction through the New Deal.

Speech 530. Contemporary Public Address. (3-0-3). Major speeches, speakers and movements from the 1930's to the present.

Speech 570. Parliamentary Procedure. (2-0-2); II. Theory and application of procedures used by profit and non-profit organizations.

Speech 571. Interviewing for Employment. (1-0-1); II. Theory and practice of interviewing techniques for prospective employees.

Speech 583. Advanced Group Discussion and Leadership. (3-0-3). Prerequisite: Speech 383 or permission of instructor. Current theory and related concepts regarding the discussion process.

Speech 595. Administering the Communications Program. (3-0-3); I, II. Development and management of communications programs, including co-curricular activities.

Speech 597. Administering and Supervising the Co-Curricular Communication Arts Program. (3-0-3); II.

Prerequisite: Speech 110 and Speech 220. 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

Theatre 100. Fundamentals of the Theatre. (3-0-3); I, II. An introduction to the theatre as an art form, its historic and organizational structure.

Theatre 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.

Theatre 120. Drawing for the Theatre. (0-4-2); I. The study and practice of basic techniques which uniquely apply to theatrical design.

Theatre 130. Summer Theatre I. (3-0-3); III. Prerequisite: Acceptance to summer theatre or by permission. Practical experience in production with work in laboratory environment.

Theatre 131. Summer Theatre II. (3-0-3); III. Prerequisite: Acceptance to summer theatre or by permission. Continuation of Theatre 130.

Theatre 200. Introduction to Dramatic Literature. (3-0-3); I, II. A study of representative dramatic literature from Greek antiquity to the present.

Theatre 210. Technical Production. (3-0-3); I, II. A study of the technical elements in theatrical production: set construction, lighting, and sound.

Theatre 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.

Theatre 300. Elements of Play Production. (3-0-3); I. Problems of play production: choice of script, casting production and backstage organization, and directing.

Theatre 310. Stage Movement. (2-0-2); I. Prerequisites: Theatre 100 or approval of instructor. The study and practice of stage fighting and movement in various historical periods.

Theatre 311. Theatre Practicum I. (2-0-2); I, II, III. Prerequisites: Theatre 100 or approval of instructor. To provide independent guided study for the development of specialization in specific areas of the theatre.

Theatre 312. Theatre Practicum II. (2-0-2); I, II, III. Prerequisite: Theatre 311. A continuation of Dramatic Arts 311.

Theatre 313. Theatre Practicum III. (2-0-2); I, II, III. Prerequisite: Theatre 312. A continuation of Dramatic Arts 312.

Theatre 315. Stage Make-up. (0-4-2); II. Prerequisite: Theatre 201. Study and appreciation of make-up techniques for the stage.

Theatre 316. Stage Properties. (0-4-2); II. Prerequisite: Theatre 210. The practice of making and repairing stage properties; the study of furniture history.

Theatre 317. Scene Painting. (0-4-2); I.

Prerequisites: Theatre 210 or permission of instructor. The study and practice of fundamental painting techniques as applied to the stage.

Theatre 321. Stage Lighting. (3-0-3); I.

Prerequisite: Theatre 210. The mechanical and artistic approach to stage lighting; study of electrical theory and instrument utilization.

Theatre 322. Scene Design. (3-0-3); II.

Prerequisite: Theatre 210. Creation of set designs with emphasis on drawing and rendering techniques.

Theatre 323. Scenographic Techniques. (0-2-1); I.

Prerequisite: Theatre 322. The study and practice of mechanical working drawings for stage scenery.

Theatre 325. Costuming. (3-1-3); I. A study of the history of costuming and application of design techniques.

Theatre 326. Stage Costume Design. (0-4-2); II.

Prerequisites: Theatre 120 and Theatre 325 or permission of instructor. Creation of costume design with emphasis on the principles of design and rendering techniques.

Theatre 330. Summer Theatre II. (3-0-3); III.

Prerequisite: Theatre 130 and acceptance to summer theatre company. Crew assignments in areas other than those completed in Theatre 130.

Theatre 331. Summer Theatre II. (3-0-3); III.

Prerequisite: Theatre 130 and acceptance to summer theatre company. A continuation of Theatre 330.

Theatre 375. Creative Dramatics. (3-0-3); II, III. An analysis and application of principles of creative dramatics as applied to classroom curricular activities.

Theatre 380. Play Directing. (3-0-3); I.

Prerequisites: Theatre 210. Theories and principles of directing; director's interpretation; casting; planning action and making the prompt-book.

Theatre 410. Advanced Scene Design. (0-4-2); II.

Prerequisites: Theatre 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.

Theatre 425. Advanced Costuming. (0-4-2); I.

Prerequisite: Theatre 326. Advanced study in stage costume design affording the student an opportunity to realize his work in production.

Theatre 476. Special Problems. (1-0-3); I, II, III.

Prerequisite: Major in communications and permission of the instructor. Research on an original project, with appropriate written report, within an approved subject area.

Theatre 530. Summer Theatre III. (3-0-3); III.

Prerequisite: Theatre 300 and acceptance to summer theatre company. Advanced assignments in set and costume design or advanced acting and directing.

Theatre 531. Summer Theatre IV. (3-0-3); III.

Prerequisite: Theatre 300 and acceptance to summer theatre company. A continuation of Theatre 530.

Theatre 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.

Theatre 553. Modern Dramatic Literature. (3-0-3); II. A detailed study of the drama from the growth of realism to the present day.

Theatre 554. Theatre History. (3-0-3); II.

Prerequisite: Theatre 200. A study of the origins and development of theatre.

Theatre 562. Advanced Acting. (2-2-3); II.

Prerequisite: Theatre 284. Advanced study of acting, including analysis and development of characters in acting situations.

Theatre 563. Advanced Costuming. (3-0-3).

Prerequisite: Theatre 325 or permission of instructor. Designing costumes for theatrical productions, making patterns, and the fabrication of garments for the stage.

Theatre 564. Advanced Scene Design. (3-0-3).

Prerequisite: Theatre 210, 312 or permission of instructor. To develop greater proficiency in the skills of scenic design as applied to specific problems and theatrical productions.

Theatre 565. Advanced Stage Lighting. (3-0-3).

Prerequisite: Theatre 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.

Theatre 570. Children's Theatre. (3-0-3); II.

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

Requirements

(In addition to the requirements listed, a minimum of one year of a foreign language is required of students completing an area or major in English. Two years of a foreign language are recommended.)

For an Area of Concentration*

English 101, 102 or 192
At least one but no more than two literature courses at 200 level
At least one course in advanced composition
At least one course in American literature
English 435 Shakespeare
English 505 Linguistics: Grammar
No more than two literature classes at 300 level
All remaining (four to eight) electives at 400 and 500 level
Speech 100 or 110, and 200
Theatre elective
Journalism 201

Total semester hours 54

For a Major*

English 101, 102 or 192
At least one but no more than two literature courses at 200 level
At least one course in advanced composition
At least one course in American literature
English 435 Shakespeare
Eng. 505 Linguistics: Grammar
No more than two literature courses at 300 level
All remaining (two to six) electives at 400 and 500 level

Total semester hours 36

For a Minor*

English 101, 102 or 192
At least one but no more than two literature courses at 200 level
At least one course in advanced composition
At least one course in American literature
Eng. 505, Linguistics: Grammar
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 English 500 and one of the following: 215, 393, 409, 431, 434, 501, 516. MINOR must take as one of his electives English 500. Certification requires a course in the teaching of reading; Education 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

PE—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
PE—Activity course	1
Sci 105—Intro. to Biological Sci.	3
*Psy 154—Life-Oriented General Psychology	3
Foreign language	3
*Ed 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
*Ed 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
PE—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
PE—Activity course	1
Sci 105—Intro. to Biological Science	3
Social Sciences elective	3
Foreign language	3
Ed 209—Foundations of Secondary Ed.	2
Elective	1
	16

SOPHOMORE YEAR**First Semester**

Eng—Elective	3
*Psy 154—Life-Oriented General Psychology	3
Science or Math elective	3
Foreign language	3
Electives (Hist. 351)	5
	17

Second Semester

Eng—Electives	6
*Ed 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.

English 101. Composition I. (3-0-3); I, II, III. Development of writing ability; basic problems of structure of language, frequent papers.

English 102. Composition II. (3-0-3); I, II, III. Continuation of English 101; emphasis on critical thinking; frequent papers, including a short research paper.

English 103. Composition III. (3-0-3); I. For entering freshmen of high ability, this course covers composition with more emphasis on rhetoric than English 101 and 102.

English 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.

English 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.)

English 211. World Literature to 1650. (3-0-3); I, II. Analysis of selected masterpieces of literature from the early Greeks to the Renaissance.

English 212. World Literature since 1650. (3-0-3); I, II. Analysis of selected masterpieces of literature from the Renaissance to the present.

English 215. Structure of English. (3-0-3); on demand. The structures of the English language from the perspective of descriptive and structural linguistics.

English 231. English Literature to 1750. (3-0-3); I, II. A survey of English literature from its beginning to the end of the neoclassical period in the eighteenth century.

English 232. English Literature since 1750. (3-0-3); I, II. A survey of English literature from 1750 to the present.

English 241. American Writers before 1850. (3-0-3); I, II. A survey of puritan and colonial backgrounds, the essayists of the early national period, early poets and novelists.

English 242. American Writers since 1850. (3-0-3); I, II. A survey of American literature from Whitman to the present.

English 293. Advanced Creative Composition 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.

English 294. Advanced Creative Composition II. (3-0-3); I, II, III. Continuation of English 293.

English 325. Religious Literature of the World. (3-0-3); on demand. The literature of the major religions of the world.

English 344. The Short Story and the Novel. (3-0-3); I, II. Study of representative forms of the short story and the novel.

English 365. Literature of the South. (3-0-3); on demand. Readings in the major representative Southern authors.

English 367. Old Testament Literature. (3-0-3); I. A critical study of the history and literature of the Old Testament with emphasis upon the major events, central figures, important religious and ethical ideas, and symbols.

English 368. New Testament Literature. (3-0-3); II. A critical study of the history and literature of the New Testament with emphasis upon the major events, central figures, important religious and ethical ideas, and symbols.

English 372. Oriental Literature. (3-0-3); on demand. The major literary figures and genres of the literatures of China, Japan, India, Arabia, and Iran.

English 393. History of the Language. (3-0-3); annually. The English language from an early Germanic dialect to its present form.

English 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.

English 431. Introduction to Old English. (3-0-3); on demand. Introduction to the language and the literature of the period.

English 434. Chaucer. (3-0-3); on demand. Intensive reading of some of the major works of Chaucer with emphasis on his language.

English 435. Shakespeare. (3-0-3); I, II, III. Study of selected histories, comedies, tragedies, and sonnets.

English 436. The English Renaissance. (3-0-3); on demand. Selected poetry and drama from 1500-1600 - excluding Shakespeare.

English 441. Neoclassical Writers. (3-0-3); on demand. Representative selections from English prose and poetry of the Neoclassical Period.

English 442. Romantic Writers. (3-0-3); on demand. Representative selections of English prose and poetry from the Romantic Period.

English 443. Victorian Writers. (3-0-3); on demand. Representative selections from English prose and poetry of the Victorian Period.

English 444. Twentieth Century British Literature. (3-0-3); on demand. Study of modern British poetry, novels, and short stories.

English 466. American Poetry. (3-0-3); on demand. The development of American poetry from its beginnings to the present.

English 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.

English 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.

English 473. European Literature 1800 to the Present. (3-0-3); on demand. Selected works by such major writers as Chekhov, Dostoevsky, Proust, Kafka, Mann, and Nabokov.

English 499. Senior Seminar. (3-0-3); on demand. Intensive study of a single topic or figure in the literature of the world. Open only to senior English majors with at least a 3.0 in their English courses.

English 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.

English 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.

English 502. Non-print Materials and Literary Types for Teachers. 7-12. (3-0-3); I, II, III.

Prerequisite: English 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.

English 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.

English 516. Reading and Linguistics. (3-0-3); on demand. Basic elements essential to good reading; centers on phonology and morphology; major emphasis is phonological.

English 528. Modern Literary Criticism. (3-0-3); on demand. Study of selected critics such as the New Humanists, New Critics, neo-Aristotelians, and various linguistic structuralists.

English 533. English Fiction. (3-0-3); on demand. Development of the English novel from its beginnings to the twentieth century.

English 539. Milton. (3-0-3); on demand. Intensive reading of Milton's poetry and major prose.

English 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.

English 545. Jacobean and Restoration Literature. (3-0-3); on demand. Representative works of seventeenth century England.

English 552. Early Dramatic Literature. (3-0-3); on demand. Representative dramas from the Greeks to the mid-nineteenth century.

English 553. Modern Drama. (3-0-3); on demand. Representative dramas from the advent of realism to the present.

English 560. Early American Authors. (3-0-3); on demand. The writings and backgrounds of Bradford, Taylor, Edwards, Franklin, Paine, and Jefferson.

English 562. Nineteenth Century American Fiction. (3-0-3); on demand. The development of American fiction from Charles Brockden Brown to Stephen Crane.

English 564. Twentieth Century American Fiction. (3-0-3); on demand. The development of American fiction from 1900 to the present.

English 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.

English 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.

English 592. Technical Writing II. (3-0-3); I, II, III. Continuation of English 591.

English 593. Fiction and Poetry Writing I. (3-0-3); I, II, III. Practicum in sustained writing. Evaluation and marketing of manuscripts.

English 594. Fiction and Poetry Writing II. (3-0-3); I, II, III. Continuation of English 593.

English 595. Linguistics: Composition. (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:

	Sem. Hrs.
French 101, 102, 201, 202, 203, and 435	18
Approved electives	12
	30

For a Minor in French:

French 101, 102, 201, 202, and 203	15
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.

French 101. Beginning French I. (3-2-3); I, II. Drill in hearing and speaking; reading of simple texts; basic points of grammar.

French 102. Beginning French II. (3-2-3); I, II. Review of grammar; stress on active use of the language; reading, speaking, writing, and understanding.

French 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.

French 202. Conversation and Composition. (3-0-3); II. Intensive training in correct writing and fluent speech. Subject matter taken from literary selections.

French 203. Introduction to France. (3-0-3); I. The elements which have contributed to the culture of France.

French 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.

French 322. Seventeenth-Century Literature. (3-0-3); II. Study of French Classicism through representative plays.

French 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.

French 324. Nineteenth-Century Literature. (3-0-3); II. Examination of representative works illustrating the development of literature from Romanticism to Realism and Symbolism.

French 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.

French 435. Twentieth-Century Literature. (3-0-3); on demand. Selected works of recent writers: France, Romains, Gide, Proust, Giraudou, Sartre, and others.

French 541. The French Novel. (3-0-3); on demand. Intensive study of a few selected novels considered to be representative of the genre.

French 542. The French Drama. (3-0-3); on demand. Intensive study and analysis of selected plays viewed as representative of the genre.

French 543. French Lyric Poetry. (3-0-3); on demand. Intensive study and analysis of masterpieces of French lyric poetry.

French 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.

French 551. Reading French II. (3-0-3); on demand. Prerequisite: French 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:

	Sem. Hrs.
German 101, 102, 201, 202, 301, 302	18
Approved electives	12
	30

For a Minor in German:

	Sem. Hrs.
German 101, 102, 201, and 202 or 203	12
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.

German 101. Beginning German. I. (3-2-3); I, II. Fundamentals of structure; basic vocabulary; reading, writing, pronunciation and some conversation.

German 102. Beginning German II. (3-2-3); I, II. A continuation of German 101.

German 201. Intermediate German I. (3-0-3); I. A review of grammar and pronunciation, with emphasis on reading of contemporary writings.

German 202. Intermediate German II. (3-0-3); II. Prerequisite: German 201. A continuation of German 201.

German 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.

German 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.

German 302. Composition and Conversation. (3-0-3); on demand. A continuation of German 301 with greater emphasis on stylistics.

German 303. Advanced Expository German. (3-0-3); on demand. Extensive reading in the contributions of the German-speaking world to the fine arts, business, and social and exact sciences.

German 310. The German Novelle. (3-0-3); on demand. The Novelle from Goethe to the present.

German 311. German Literature to 1880. (3-0-3); on demand. A general survey of German literature from old High German to Hebbel and Ludwig.

German 312. German Literature since 1880. (3-0-3); on demand. A survey of German literature from Hauptmann to the present.

German 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.

German 330. The German Lyric. (3-0-3); on demand. An intensive study of German lyric poetry from 1730 to the present.

German 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.

German 420. German Drama of the Nineteenth Century. (3-0-3); on demand. Study of major representative plays and their background.

German 440. Literature of the Twentieth Century. (3-0-3); on demand. Study of major modern German writers.

German 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

In addition to training teachers of Latin for the schools, the Latin courses serve an additional two-fold purpose of providing students in the arts 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.

Requirements

For a Minor:

	Sem. Hrs.
Latin 101, 102, 201, and 202	12
Approved electives	9
	21

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.

Latin 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.

Latin 102. Beginning Latin II. (3-2-3); I, II. A continuation of 101.

Latin 201. Intermediate Latin I. (3-0-3); I. Selections from Catullus, Cicero, Horace, Pliny, Martial, Livy, and Ovid.

Latin 202. Intermediate Latin II. (3-0-3); II. Writings of Cicero; his life and influence.

Latin 301. Advanced Latin I. (3-0-3); I. Poets of the Augustan Age, together with the history of the period.

Latin 302. Advanced Latin II. (3-0-3); II. Further study of the poetry of the Augustan Age. Selections from Vergil's Aeneid.

Latin 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.

Latin 402. Latin Literature II. (3-0-3); II. Selections from Livy, Tacitus, Suetonius, Caesar, and others. Rotation of course content allows students to repeat the course for additional credit.

Russian

Objectives

1. To develop the ability to speak, read, write and understand the Russian language.

- To provide students an introduction to the culture of the Russian-speaking world.
- To develop a better understanding of Russian society and history through a study of Russian literature.
- To prepare teachers of Russian for the elementary and secondary school.

Requirements

For a Minor:

Russian 101, 102, 201, 202, 301, 302, 405	Sem. Hrs. 21
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NOTE: Students desiring a minor in Russian are advised to begin the program in the freshman year and take courses without interruption.

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.

Russian 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.

Russian 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.

Russian 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.

Russian 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.

Russian 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.

Russian 302. Advanced Readings in Russian Literature. (3-0-3).
Prerequisite: Russian 301. Readings in Russian from Lermontov, Turgenyev, Tolstoy, Gogol, Dostoyevski, and others. Assigned readings on Russian culture and history. Review of Russian grammar as necessary.

Russian 405. Linguistics and Language Teaching. (3-0-3).
Prerequisite: Minor 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:

Spanish 101, 102, 201, 202, 301, 302, and 401	Sem. Hrs. 21
Approved electives	9
	30

For a Minor:

Spanish 101, 102, 201, 202, 301, and 302	18
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 indicate the term in which the course is normally offered: I-fall; II-spring; and III-summer.

Spanish 101. Beginning Spanish I. (3-2-3); I, II. Practice in hearing and speaking through patterns.

Spanish 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.

Spanish 201. Intermediate Spanish. (3-1-3); I.
Prerequisite: Spanish 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.

Spanish 202. Advanced Conversation. (3-1-3); II.
Prerequisite: Spanish 102 or permission of the instructor. Intensive training in conversation. Films, magazines, and books will be used to practice different kinds of language.

Spanish 220. Grammar and Composition. (3-0-3); I.
Prerequisite: Spanish 202 or permission of the instructor. Study and analysis of speaking and writing styles. Emphasis on written composition.

Spanish 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.

Spanish 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.

Spanish 311. Spanish and Spanish American Poetry. (3-0-3); II. A study of Juglares, Cantares de Gesta, Romances, Mistica, Poesia del Siglo de Oro, Romancismo, Post Romanticismo, Modernismo, Siglo XX.

Spanish 312. Spanish Theatre. (3-0-3); on demand. A study of the evolution of the theatre from Juan Del Encina to Garcia Lorca.

Spanish 313. Spanish Novel. (3-0-3); on demand. A survey of the novel from the thirteenth century, la Novela de Caballeria, la Picaresca, la Morisca, la Pastoril, Cervantes, el Costumbrismo, la Generacion del 98, el Siglo XX.

Spanish 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.

Spanish 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.

Spanish 523. Don Quixote de la Mancha. (3-0-3); on demand. A study of this masterpiece of Spanish literature.

Spanish 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.

Spanish 540. Seminar in Hispanic Literature. (3-0-3); on demand. Group instruction and practice in research methods peculiar to Hispanic literature.

Spanish 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 Garcia Lorca, Casona, and Buero Vallejo.

Spanish 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.

Spanish 555. Lope de Vega. (3-0-3); on demand. A study of the major dramatic and nondramatic works of Lope de Vega.

Music

The Department of Music offers programs of study which prepare students for careers in teaching and performing. The department also offers musical training and performance opportunities for students who are not planning for 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
Private lessons	6
Senior recital	1
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 studio teachers. It does not meet the requirements for certification to teach in the public schools.

1. Music Theory	16
Music Theory I-III	9
Music Reading I-III	5
Form Analysis I	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 will take either instrumental or choral conducting. To complete their conducting requirement, they will take *Rehearsal Techniques for Jazz Ensembles* (Music 473).

5. Specialization	40
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 Harpsichord	
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

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	6
Class or Private Piano	2
Music Theory	6
Music Theory I and II	6
Music Literature I and II	4
Music Electives	3
	21

For the Associate of Applied Arts Degree—Music Emphasis:

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
Applied Music	12
	36

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
Mus 131—Music Theory I	3
Mus 133—Music Reading I	1
Mus 111P—Class Piano I	1
Mus 157—Private Applied	1
Ensemble	1
Student Recital	0
Elective	1
	17

Second Semester	
Eng 102—Composition II	3
Sci 105—Intro. to Biological Science	3
Hlth 150—Personal Health	2
PE—Activity Course	1
Mus 132—Music Theory II	3
Mus 134—Music Reading II	1
Mus 112P—Class Piano II	1
Mus 211—Class Instrument or Voice	1
Mus 158—Private Applied	1
Ensemble	1
Student Recital	0
	17

SOPHOMORE YEAR

First Semester	
Eng—Literature Elective	3
Mus 231—Music Theory III	3
Mus 233—Music Reading III	3
Mus 211P—Class Piano III	1
Mus 161—Music Literature I	2
Mus 211—Class Instrument or Voice	1
Mus 257—Private Applied	1
Ensemble	1
Student Recital	0
Gen. Ed. Elective	2
	17

Second Semester	
PE—Activity Course	1
Mus—Theory Elective	2
Mus 212P—Class Piano IV	1
Mus 162—Music Literature II	2
Mus 211—Class Instruments or Voice	2
Mus 258—Private Applied	1
Ensemble	1
Student Recital	0
General Ed. Elective	7
	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
Mus 131—Music Theory I	3
Mus 133—Music Reading I	1
Mus *157P—Private Piano	3
Mus *187P—Piano Ensemble	1
Elective	1
Student Recital	0
	17

Second Semester	
Eng. 102—Composition II	3
Sci 105—Intro. to Biological Sci.	3
PE—Activity Course	1
Mus 132—Music Theory II	3
Mus 134—Music Reading II	1
Mus *158P—Private Piano	3
Mus *188P—Piano Ensemble	1
Mus *151—Private Organ or Harpsichord ..	1
Elective	1
Student Recital	0
	17

SOPHOMORE YEAR	
First Semester	
Mus 161—Literature or Music I	2
Mus 231—Music Theory III	3
Mus 233—Music Reading III	3
Mus *257P—Private Piano	3
Mus *111W—Class Voice	1

Mus *152P—Private Organ or Harpsichord	1
Mus *287P—Piano Ensemble	1
Student Recital	0
Elective	3
	17

Second Semester

Eng—Literature Elective	3
Mus 162—Literature of Music II	2
Mus—Theory Elective	2
Mus *258—Private Piano	3
Mus *157W—Private Voice	1
Mus *251—Private Organ or Harpsichord	1
Mus *288P—Piano Ensemble	1
Student Recital	0
Elective	3
PE—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.

Class and Private Applied Music Courses

Applied music courses may be taken through either class or private instruction. Private instruction may be taken by students who are not following a music curriculum, in which case the requirements are different from those which are established for music students. Music students may take private lessons on instruments other than their applied major. These will be referred to as secondary instruments. Course numbers will be assigned from the following sequences of numbers. In order to progress from one level to the next a minimum grade of C must have been earned.

- 111-212. Class Applied Music. One hour
117-518. Private Applied Music (non-music students). One hour.

- 151-552. Private Applied Music (secondary instruments or voice). One hour.
157-558. Private Applied Music (major instruments or voice). One to four hours.

The instrument or family of instruments being studied will be indicated by a postscript to the course number. The letters to be used and their meanings are as follows:

A—Woodwinds	N—Percussion
B—Flute	O—Organ
C—Oboe	P—Piano
D—Bassoon	Q—Harpsichord
E—Clarinet	R—Strings
F—Saxophone	S—Violin
G—Trombone	T—Viola
H—Brasswinds	U—Cello
I—Horn	V—Double Bass
J—Trumpet	W—Voice
K—Euphonium	X—to be specified
M—Tuba	Y—Winds and Percussion

Course numbers will be assigned in sequence. Eligibility to register for the first course in the graduate sequence (500 level) will be determined by an audition.

The amount of credit in private applied music is variable. A student is expected to practice at least one hour per day for each hour of credit being earned. The number of lessons in a given area of private study will not ordinarily exceed two half-hours per week.

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.

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.

Fine Arts 187W-588W. 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.

Music 187H-488H. Brass Choir. (0-2-1); I, II. Open to brass players with the consent of the instructor.

Music 187N-488N. Percussion Ensemble. (0-2-1); I, II, III. Open to all students who play percussion instruments, with the consent of the instructor.

Music 187P. Piano Sight Reading I. (0-2-1); I, II. Designed to develop competent sight reading. Required for piano majors.

Music 188P. Piano Sight Reading II. (0-2-1); I, II. Continuation of Music 187P.

Music 287P. Keyboard Harmony. (0-2-1); I, II. Designed to develop mastery of applied keyboard harmony.

Music 288P. Piano Ensemble. (0-2-1); I, II. Preparation and performance of piano ensemble literature.

Music 387P. Accompanying I. (1-2-1); I, II. Two hours of studio accompanying per week.

Music 388P. Accompanying II. (1-2-1); I, II. Continuation of 387P.

Music 131. Music Theory I. (2-2-3); I, II.
Prerequisite: Music 101 or demonstration of equivalent competencies on the Music Department Entrance Examination. An intensive 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.

Music 132. Music Theory II. (2-2-3); I, II.

Prerequisite: Music 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.

Music 187-488Y. Traditional Music Ensemble. (0-2-1); I, II.

Prerequisite: Some playing experience. (It is intended that this course will include players of modest ability as well as those of considerable proficiency.) Performance of traditional American and English music by ear and from printed sources.

Music 487P. Recital Accompanying. (1-2-1); I, II. Performance of accompaniments for junior or senior recitals. Consent of piano faculty required.

Music 488P. Recital Accompanying. (1-2-1); I, II. Continuation of 487P.

Music 187R-488R. Orchestra. (0-2-1); I, II. Open to all string students and to selected wind and percussion players as needed.

Music 187W-488W. Concert Choir. (0-3-1); I, II. Seventy-voice choir. Frequently performs with orchestra. Admission by audition.

Music 187W-488W. Chamber Singers. (0-3-1); I, II. Select group of sixteen singers. Concerts on and off campus. Admission by audition.

Music 187W-488W. University Chorus (0-3-1); I, II. Open to all university students interested in singing.

Music 187Y-488Y. Concert Band. (0-3-1); II. Open to all students.

Music 187Y-488Y. Marching Band. (0-5-1); I. Open to all students. Required for brasswind, woodwind, and percussion music students.

Music 187Y-488Y. Jazz Ensemble. (0-2-1); I, II. Open to all students. Admission by audition.

Music 187Y-488Y. Symphony Band. (0-4-1); II. Admission by audition.

Music 187Y-488Y. Studio Improvisation. (0-2-1); I, II. Jazz styles, improvisational theories and techniques, with emphasis on small group playing and supervised improvisation.

Music 101. Introduction to Music Theory. (1-2-2); I, II. An introduction to the basic elements of music theory.

Music 102. Introduction to Music Reading. (1-2-2); I, II. An introduction to the concepts and applications of reading music, vocally and instrumentally.

Music 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.

Music 133. Music Reading I. (0-2-1); I, II.

Prerequisite: Music 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.

Music 134. Music Reading II. (0-2-1); I, II:

Prerequisite: Music 133. Continuation of Music 133.

Music 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.

Music 162. Literature of Music II. (2-0-2); II. Continuation of Music 161.

Music 221. Music for the Elementary Teacher. (2-0-2); I, II, III.

Prerequisite: Music 100, 101, 132, or 133. Music fundamentals and methods for teaching music to elementary school children.

Music 231. Music Theory III. (2-2-3); I, II.

Prerequisite: Music 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.

Music 233. Music Reading III. (2-2-3); I, II.

Prerequisites: Music 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.

Music 245. Jazz Keyboard I. (0-2-1); I.

Prerequisite: Music 112P or consent of the instructor. An introduction

to jazz keyboard techniques, with primary emphasis on ensemble playing.

Music 246. Jazz Keyboard II. (0-2-1); II.

Prerequisite: Music 245. Continuation of Music 245.

Music 263. Elementary Composition I. (1-1-2); I.

Prerequisite: Music 232 or consent of the instructor. Study and practice of basic formal compositional principles.

Music 264. Elementary Composition II. (1-1-2); II.

Prerequisite: Music 263. Continuation of Music 263.

Music 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.

Music 329. Church Music. (2-0-2); on demand. Brief history; techniques of hymn and anthem playing and/or directing; planning the worship service.

Music 331. Counterpoint. (2-0-2); II.

Prerequisite: Music 132. Writing of sixteenth and eighteenth century strict and free counterpoint, canon, invention, fugue. Some twentieth century techniques.

Music 335. Field Experience. (1-3); on demand. Two full days weekly of teaching under supervision in public schools in nearby communities.

Music 336. Field Experience. (1-3); on demand. A continuation of Music 335.

Music 345. Jazz Keyboard III. (0-2-1); I.

Prerequisite: Music 246. Jazz keyboard techniques with special emphasis on solo playing.

Music 346. Jazz Keyboard IV. (0-2-1); II.

Prerequisite: Music 345. Continuation of Music 345.

Music 360. Junior Recital. (1-0-1); I, II, III. A solo public recital of at least thirty minutes.

Music 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.

Music 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.

Music 363. Intermediate Composition I. (1-1-2); I, II.

Prerequisite: Music 264. Study and writing of students' original creative work. One hour weekly in private study; one hour in composition seminar-colloquium.

Music 364. Intermediate Composition II. (1-1-2); I, II.

Prerequisite: Music 363. Continuation of Music 363.

Music 365. Jazz History and Literature. (3-0-3); I. A survey of jazz history from its beginning (ca. 1850) to the present.

Music 375. Vocal Materials and Methods. (2-0-2); II.

Prerequisite: Music 325. The teaching of general music in the junior and senior high schools with emphasis on choral activities.

Music 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.

Music 377. Instrumental Repair and Maintenance. (1-1-1); I. Demonstration and practice in simple repairs and maintenance of band and orchestral instruments.

Music 378. Piano Pedagogy. (2-1-2); II. Survey and evaluation of materials and methods for teaching class and private piano.

Music 379. Double-Reed Making. (1-0-1); I. Concepts and skills of double-reed making; oboe through contrabassoon.

Music 433. Arranging for Jazz Ensembles I. (2-0-2); I. Techniques of arranging for large and small jazz ensembles.

Music 434. Arranging for Jazz Ensembles II. (2-0-2); II.

Prerequisite: Music 433. Continuation of Music 433.

Music 450. Senior Recital. (1-0-1); I, II, III. A solo public recital of approximately thirty minutes duration.

Music 460. Senior Recital. (2-0-2); I, II, III. A solo public recital of approximately one hour duration.

Music 465. Form Analysis I. (2-0-2); on demand.

Prerequisite: Music 132. A study of the elements of musical design through aural and score analysis.

Music 470. Composition Recital. (1-0-2); I, II, III. Preparation and performance in recital of students' original compositions.

Music 471. Choral Conducting. (2-0-2); I, II. Baton technique, rehearsal procedures, choral diction, and style and interpretation of choral works.

Music 472. Instrumental Conducting. (2-0-2); I, II, III. Baton technique, rehearsal procedures, and style and interpretation of instrumental works.

Music 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 480. Seminar. (1-0-1); I, II. Discussion of special problems related to the teaching of music; readings in literature in the field.

Music 531. Arranging. (2-0-2); on demand.

Prerequisite: Music 232 or the equivalent. Scoring, arranging, transcribing of selected or original materials for voices and/or instruments.

Music 532. Advanced Arranging. (2-0-2); on demand.

Prerequisite: Music 531. Continuation of Music 531.

Music 563. Advanced Composition I. (1-1-2); I, II.

Prerequisite: Music 364. Study, writing, and performance of students' original creative work. Private conferences and composition seminar in colloquium.

Music 564. Advanced Composition II. (1-1-2); I, II.

Prerequisite: Music 563. Continuation of Music 563.

Music 565. Music in America. (3-0-3); I. A survey of the history of American music from colonial times to the present.

Music 578. Teaching of Percussion. (2-0-2); II, III. A study of the development of percussion instruments, literature and performing techniques.

Music 579. Marching Band Workshop. (2-0-2); I, III. Techniques of preparing marching bands for performance.

Music 581. Literature of the Piano. (3-0-3); I. Survey of keyboard music from the sixteenth century to the present.

Music 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.

Music 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.

Music 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.

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 in Philosophy

For a Major:

Sem. Hrs.

Philosophy 200, 306, 505, and 506	12
Additional credit in philosophy approved by the department	18
Minimum for a major	30

For a Minor:

Philosophy 200, 306, 505, and 506	12
Additional credit in philosophy approved by the department	9
Minimum for a minor	21

Requirements in Religious Studies

For a Major:

Sem. Hrs.

Religion 221, 222, and Philosophy 200, 307	12
Additional credit in religious studies approved by the Department of Philosophy	18
Minimum for a major	30

For a Minor:

Religion 221, 222, and Philosophy 200, 307	12
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: Religion 321, Religion 322, Religion 323, Religion 476, English 325, English 367, English 368, and History 551.

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.

Philosophy

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
PE—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
PE—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—General Psychology	3
Humanities elective	3
Physical Science elective	3
Social Sciences elective	3
PE—Activity course	1
	16

Second Semester

Eng 102—Composition II	3
Phil 200—Introduction to Philosophy	3
Second major	3
Biological Science elective	3

Social Science elective.....	3
PE—Activity course.....	1
	16

SOPHOMORE YEAR**First Semester**

Eng—Literature elective.....	3
Ed 209—Foundations of Secondary Education.....	2
Philosophy elective.....	3
Second Major.....	3
Social Sciences elective.....	3
Health elective.....	2
	16

Second Semester

Phil 306—Logic.....	3
Elective in Philosophy.....	3
Second major.....	3
Math elective.....	3
Social Sciences elective.....	3
	15

Provisional High School Certificate with a Minor 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
Physical Sciences elective.....	3
Social Sciences elective.....	3
Health elective.....	2
PE—Activity course.....	1
Elective.....	2
	17

Second Semester

Eng 102—Composition II.....	3
Phil 200—Introduction to Philosophy.....	3
Major.....	3
Biological Science elective.....	3
Social Sciences elective.....	3
PE—Activity course.....	1
	16

SOPHOMORE YEAR**First Semester**

Eng—Literature elective.....	3
Ed 209—Foundations of Secondary Education.....	2
Philosophy elective.....	3
Major.....	3
Humanities elective.....	3
Elective.....	3
	17

Second Semester

Phil 306—Logic.....	3
Philosophy elective.....	3
Major.....	3
Math elective.....	3
Social Sciences elective.....	3
Elective.....	2
	17

Bachelor of Arts Degree with a Minor in Philosophy (without a certificate)**FRESHMAN YEAR****First Semester**

Eng 101—Composition I.....	3
Humanities elective.....	3
Physical Science elective.....	3
Social Sciences elective.....	3
PE—Activity course.....	1
Elective.....	3
	16

Second Semester

Eng 102—Composition II.....	3
Phil 200—Introduction to Philosophy.....	3
Major.....	3
Biological Science elective.....	3
Social Sciences elective.....	3
Health elective.....	2
	17

SOPHOMORE YEAR**First Semester**

Eng—Literature elective.....	3
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Philosophy elective.....	3
Major.....	3
Math elective.....	3
Social Sciences elective.....	3
PE—Activity course.....	1
	16

Second Semester

Phil 306—Logic.....	3
Philosophy elective.....	3
Major.....	3
Math or Science elective.....	3
Social Sciences elective.....	3
Elective.....	2
	17

Religious Studies**Bachelor of Arts Degree with a Major 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
PE—Activity course.....	1
	16

Second Semester

Eng 102—Composition II.....	3
Rel 222—World Religions II.....	3
Phil 200—Introduction to Philosophy.....	3
Biological Science elective.....	3
Social Sciences elective.....	3
PE—Activity course.....	1
	16

SOPHOMORE YEAR**First Semester**

Eng 102—Literature Elective.....	3
Religious Studies elective.....	3
Second major or elective.....	3
Math elective.....	3
Social Sciences elective.....	3
Health elective.....	2
	17

Second Semester

Phil 307—Philosophy of Religion.....	3
Second Major or elective.....	3
Math or Science elective.....	3
Social Sciences elective.....	3
Elective.....	3
	15

Provisional High School Certificate with a Major 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
Second major.....	3
Psy 154—Life-oriented General Psychology.....	3
Physical Science elective.....	3
PE—Activity course.....	1
	16

Second Semester

Eng 102—Composition II.....	3
Rel 222—World Religions II.....	3
Second major.....	3
Phil 200—Introduction to Philosophy.....	3
Biological Science elective.....	3
PE—Activity course.....	1
	16

SOPHOMORE YEAR**First Semester**

Eng—Literature elective.....	3
Religious Studies elective.....	3
Second major.....	3
Ed 209—Foundations of Secondary Education.....	2
Social Sciences elective.....	3
Health elective.....	2
	16

Second Semester

Religious Studies elective.....	3
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Second major.....	3
Humanities elective.....	3
Math elective.....	3
Social Sciences elective.....	3
Elective.....	1
	16

Provisional High School Certificate with a Minor in Religious Studies and a Major in a Teaching Subject

FRESHMAN YEAR

First Semester

Eng 101—Composition I.....	3
Rel 221—World Religions I.....	3
Major.....	3
Psy 154—Life-oriented General Psychology.....	3
Physical Science elective.....	3
PE—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
PE—Activity course.....	1
	16

SOPHOMORE YEAR

First Semester

Eng—Literature elective.....	3
Religious Studies elective.....	3
Major.....	3
Ed 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
PE—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
PE—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.

Philosophy 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.

Philosophy 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.

Philosophy 303. Social Ethics. (3-0-3); I, II, III. A study of theoretical and practical problems of moral conduct and proposed solutions to them.

Philosophy 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.

Philosophy 307. Philosophy of Religion. (3-0-3); II, III.

Prerequisite: Any one of the following courses: Philosophy 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.

Philosophy 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.

Philosophy 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.

Philosophy 310. Analysis of Ideas. (3-0-3); on demand.

Prerequisite: philosophy 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.

Philosophy 311. Ordinary Language Philosophy. (3-0-3); I.

Prerequisite: Any one of the following courses: Philosophy 200, 505, 506. An introduction to a contemporary philosophy which attempts to solve philosophical problems by appealing to language as ordinarily used.

Philosophy 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.

Philosophy 313. American Philosophy. (3-0-3); on demand.

Prerequisite: Philosophy 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.

Philosophy 410. Contemporary Philosophy. (3-0-3); II.

Prerequisite: Any one of the following courses: Philosophy 200, 505, 506. An examination, interpretation, and evaluation of the philosophic ideas of leading representatives of twentieth-century philosophies.

Philosophy 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.

Philosophy 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.

Philosophy 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.

Religion 221. World Religions I. (3-0-3); I, III.

Prerequisite: Philosophy 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.

Religion 222. World Religions II. (3-0-3); II.

Prerequisite: Philosophy 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.

Religion 321. Early and Medieval Christian Thought. (3-0-3); on demand.

Prerequisite: Philosophy 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.

Religion 322. Modern Christian Thought, (1500 to 1900). (3-0-3); on demand.

Prerequisites: Religion 321 and/or Philosophy 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.

Religion 323. Twentieth-Century Christian Thought. (3-0-3); on demand.

Prerequisite: Religion 322 or Philosophy 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.

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

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 in environmental studies.

Associate of Science Degrees

General Science

Suggested curriculum for the individual who desires a two-year general program with emphasis on the sciences and/or mathematics.

Requirements:

	Sem. Hrs.
English	9
Physical Science	3
Biological Science	3
Mathematics	6
Psychology	3
Health and P.E.	3
Social Sciences	9
Philosophy	3
Electives	4
Electives from two fields in sciences and/or mathematics (to be approved by adviser)	21
Minimum for the associate degree	64

Laboratory Technology

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

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 courses of study in the professional programs of medicine, dentistry, medical technology, pharmacy, and 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 an Area of Concentration in Science (Emphasis on Biology) with a Provisional High School Certificate.

Required Courses:

	Sem. Hrs.
Biol 206—Biological Etymology	1
Biol 208—Invertebrate Zoology	3
Biol 209—Vertebrate Zoology	3
Biol 215—General Botany	4
Biol 317—Principles of Microbiology	4
Sci 471—Seminar	1
Biology electives (300 level or above)	6
	22

Additional Requirements:

Chem 111, 111A, 112, and 112A	8
Chem 326 and 327	8
Physics 201, 202, and 350	12
Geosciences 510	3
Mathematics 121 and 152 (or equivalent)	6

For a Major in Biology:

Required Courses:

	Sem. Hrs.
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

Students majoring in biology are also required to take the following courses:

Chem 111, 111A, 112 and 112A	8
Physics 201 and 202	8
Geoscience 510	3
Mathematics 141 and 152 (or equivalent)	6

Electives

Students majoring in biology must earn a minimum of six hours credit from the following categories.

(1) Biol 337	Comparative Anatomy
(2) Biol 338	Vertebrate Embryology
(3) Biol 514	Plant Pathology
Biol 515	Food Microbiology
Biol 518	Pathogenic Microbiology
Biol 519	Virology
(4) Biol 320	Microtechniques
Biol 520	Histology
Biol 574	Biological Techniques
(5) Biol 540	Parasitology
Biol 545	Medical Entomology
(6) Biol 550	Plant Anatomy
(7) Biol 356	Environmental Biology
Biol 357	Environmental Testing Methods
(8) Biol 513	Plant Physiology
Biol 525	Animal Physiology
Biology Elective Hrs.	6
TOTAL HOURS—BIOLOGY MAJOR	34

NOTE: Not more than one course from any single category may be used as an elective.

For a Minor in Biology:

	Sem. Hrs.
Biology 206, 208, 209, and 215	11
Approved electives in advanced biology	10
Minimum for a minor	21

Students minoring in Biology are also required to take Chemistry 111 and IIIA.

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	3
Biol 208—*Invertebrate Zoology	3
Chem 111	
and 111A—**General Chemistry I	4
Math 152—College Algebra or equivalent	3
Hlth 150—Personal Health	2
PE—Activity	1
	16

Second Semester

Eng—Composition elective	3
Biol 331—Human Anatomy	3
Chem 112	
and 112A—**General Chemistry II	4
Math 123—Intro to Statistics or equivalent	3
Social Science elective	3
	16

SOPHOMORE YEAR**First Semester**

Eng—Literature elective	3
Biol 206—*Biological Etymology	1
Phys 201—Elementary Physics I	4
Chem 223—**Quantitative Analysis	4
Psy 154—Life-Oriented General Psychology	3
PE—Activity	1
	16

Second Semester

Phys 202—Elementary Physics II	4
Biol 332—Human Physiology	3
Biol 317—*Prin. of Microbiology	4
Humanities elective	3
Social Sciences elective	3
	17

JUNIOR YEAR**First Semester**

Biol 304—*Genetics	3
Biol 333—Human Physiology Lab	1
Biol 518—*Pathogenic Micro	3
Chem 326—**Organic Chemistry	4
Humanities elective	3
Social Sciences elective	3
	17

Second Semester

Biol 380—*General Physiology	3
Biol 540—*General Parasitology	3
Humanities elective	3
Social Sciences elective	3
Advanced Science elective	3
	15

Recommended electives related to program:

Biol 520—*Histology	2
Chem 560—**Instrumental Analysis	3
Chem 595—**Biochemistry	4
* counts toward major in biology	
** counts toward major in chemistry	

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.

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.

For purposes of scheduling, course selection, and complete preparation for professional school, the pre-chiropractic student must work closely with his faculty adviser.

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 dental schools. Pre-dental students should have a good background in sciences and mathematics beyond the minimum requirements and they should also cultivate interests in literature, music, art, speech, languages, social sciences, and psychology. For purposes of scheduling, course selection, and complete preparation for professional school, the pre-dental student must work closely with 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 pre-medical 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-Pharmacy

Students who plan to take a degree in pharmacy should consult the catalog of the school of pharmacy which they plan to attend to be certain that they fulfill the requirements of the chosen school. For purposes of scheduling, course selection, and complete preparation for profes-

sional school, the pre-pharmacy student must work closely with his faculty adviser.

Pre-Physical Therapy

Students who plan to take a degree in physical therapy should consult the catalog of the school of physical therapy which they plan to attend to be certain that they fulfill the requirements of the chosen school. For purposes of scheduling, course selection, and complete preparation for professional school, the pre-physical therapy student must work closely with his faculty adviser.

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.*

Biology 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.)

Biology 206. Biological Etymology. (0-2-1); I, II. Root-concepts of terms necessary for a better understanding of the biological sciences.

Biology 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.

Biology 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.

Biology 209. Vertebrate Zoology. (2-2-3); I, II. Prerequisite: Biology 208. General characteristics, anatomy, physiology, taxonomy, ecology, and evolution of the vertebrates.

Biology 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.

Biology 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.

Biology 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.

Biology 232. Anatomy and Physiology. (3-2-4); I, II. Prerequisite: Science 105 or equivalent. Anatomy and physiology of the major systems of the human body. (Not accepted for a major in biology.)

Biology 304. Genetics. (2-2-3); I, II. Prerequisite: Biology 209 and 215. Mendelism, chromosomes and heredity, gene theory, cytological and physiological analyses, and population genetics.

Biology 317. Principles of Microbiology. (2-4-4); I, II, III. Prerequisites: Biology 209 and Chemistry 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.

Biology 318. Local Flora. (1-4-3); I.* Prerequisite: Biology 215. Identification and classification of plants native to the area. Collection and herbarium techniques.

Biology 320. Basic Microtechniques. (0-4-2); II - on demand. Prerequisites: Biology 209 or 215 and Chemistry 111 and 111A. Techniques for preparing plant and animal tissues for microscopic study; preparation of microscope slides.

Biology 331. Human Anatomy. (3-0-3); I, II, III. Prerequisite: Science 105 or equivalent. Human organism with emphasis on gross morphology. Course will not be accepted as credit for the biology major.

Biology 332. Human Physiology. (3-0-3); I, II, III. Prerequisite: Biology 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.

Biology 333. Laboratory for Human Physiology. (0-2-1); I, II.

Prerequisites: Biology 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.

Biology 334. Entomology. (2-2-3); II - on demand.*

Prerequisite: Biology 208. General structure of insects, life histories, common orders and families; insects in relation to man.

Biology 337. Comparative Anatomy. (1-4-3); I, II.

Prerequisite: Biology 209. Vertebrate structure based on the recognition of morphological deviation in body plan.

Biology 338. Vertebrate Embryology. (2-2-3); I, II.

Prerequisite: Biology 209. Vertebrate development from gamete formation through the fetal stage; emphasis on comparative structural development.

Biology 350. Heredity, Evolution, and Society. (3-0-3); I, II.

Prerequisite: Science 105 or equivalent. See Science 350.

Biology 355. Population, Resources, and Environment. (3-0-3); I, II, III.

Prerequisite: Science 103 and 105 or equivalent. See Science 355.

Biology 356. Environmental Biology. (3-0-3); II.

Prerequisite: Science 355, or consent of instructor. Basic ecological principles and population and community ecology are discussed as they apply to current environmental problems. Biology 357 is a companion course, although either may be taken separately.

Biology 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. Biology 356 is a companion course, although either may be taken separately.

Biology 380. General Physiology. (2-2-3); I, II.

Prerequisites: Biology 209, 215, and Chemistry 112 and 112A. (Chemistry 326 helpful.) Physiology of organisms from the cellular to organismic level. Biological, chemical, and physical aspects of physiological processes.

Biology 413 - 1. Medical Technology Hospital Internship I.

Biology 414 - 2. Medical Technology Hospital Internship II.

Biology 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. Biology 413 - 1, 414 - 2, 415 - 3 will be offered in fall, spring, and summer, respectively, for a maximum of 36 semester hours of credit.

Biology 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.

Biology 510. Limnology. (1-4-3); I.*

Prerequisites: Biology 209, 215, and Chemistry 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.

Biology 513. Plant Physiology. (2-2-3); I - on demand.

Prerequisites: Biology 215 and Chemistry 327 or equivalent. Diffusion, osmosis, cell wall and membrane structure, mineral nutrition, photosynthesis, respiration, macromolecules, photoperiodism, and other aspects of plant growth and development.

Biology 514. Plant Pathology. (1-4-3); I - on demand.

Prerequisite: Biology 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.

Biology 515. Food Microbiology. (1-4-3); I.

Prerequisite: Biology 217 or 317. Microbiology of food production, food spoilage, and food-borne diseases.

Biology 518. Pathogenic Microbiology. (2-2-3); I.

Prerequisite: Biology 217 or 317. Microbial diseases of man and animals; host responses to diseases.

Biology 519. Virology. (2-2-3); II - on demand.

Prerequisite: Biology 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.

Biology 520. Histology. (2-2-3); I.

Prerequisite: Biology 209. Characteristics of tissues and organs of vertebrates.

Biology 525. Animal Physiology. (2-2-3); I - on demand.

Prerequisites: Biology 209 and Chemistry 326 or equivalents. Comparison of fundamental physiological processes in representatives of invertebrate and vertebrate animals.

Biology 534. Ichthyology and Herpetology. (1-4-3); II - on demand.*

Prerequisite: Biology 209. Anatomy, physiology, taxonomy, adaptations, and natural history of fishes, amphibians, and reptiles; emphasis on groups common to Eastern North America.

Biology 535. Mammalogy. (1-4-3); I - on demand.*

Prerequisite: Biology 209. Mammals of Eastern North America with emphasis on mammals of Southeastern North America. Taxonomy, adaptation, natural history, and methods of skin preparation.

Biology 537. Ornithology. (1-4-3); II.*

Prerequisite: Biology 209. Anatomy, physiology, classification, and identification of birds; life histories, habits, migration, and economic importance of native species.

Biology 540. General Parasitology. (1-4-3); II.

Prerequisite: Biology 209. Protozoan, helminth, and arthropod parasites of man and domestic animals; emphasis on etiology, epidemiology, diagnosis, control and general life histories of parasites.

Biology 545. Medical Entomology. (2-2-3); I.

Prerequisite: Biology 334, or consent of instructor. Arthropod vectors of diseases with special emphasis on insects of medical importance. Anatomy, physiology, identification, ecology, and control measures.

Biology 550. Plant Anatomy. (2-2-3); I.

Prerequisite: Biology 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.

Biology 551. Plant Morphology. (2-2-3); II.

Prerequisite: Biology 215. Fossil and living non-vascular plants (except bacteria) and vascular plants; emphasis on morphology, ecology, and evolution.

Biology 553. Workshop in Environmental Biology. (3-0-3); III.

Prerequisite: Consent of instructor. See Science 553.

Biology 561. Ecology. (2-2-3); I.*

Prerequisites: Biology 209 and 215. Energy flow, biochemical cycles, limiting factors, and ecological regulators at the population, community, and ecosystem levels.

Biology 574. Biological Techniques. (1-2-2); II.

Prerequisites: Biology 209 and 215. Collecting, preserving, and caring for biological materials; rearing and culturing a variety of animals and plants under laboratory conditions; construction and maintenance of laboratory equipment.

Biology 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.

Biology 595. Biochemistry I. (2-4-4); I.

Prerequisite: Chemistry 327 or 332 or consent of instructor. (See Chemistry 595)

Biology 596. Biochemistry II. (2-4-4); II.

Prerequisite: Biology 595. (See Chemistry 596)

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 of 19 hours:

	Sem. Hrs.
Science 355 and 471	4
Biology 356	3
Geoscience 376	3
Economics 501	3
Political Science 505	3
Geography 505	3

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:

Environmental Studies Core courses	19
Biology 208, 209, 215, 357, 510, 561 plus one course chosen from Biology 318, 334, 534, 535, or 537	21
Supplemental Requirements:	
Chemistry 101-101A or 111-111A	4
Chemistry 102-102A or 112-112A	4
Geoscience 240	3
Mathematics 353	3

For a Major in Environmental Studies with the Geology Option:

Environmental Studies core courses	19
Geoscience 100 or Science 107	3
Geoscience 101 and 240	6
Geoscience electives approved by adviser	9
Supplemental Requirements:	
Mathematics 353	3
Biology 357	2
Any three courses chosen from Chemistry 101-101A and 102-102A or 111-111A and 112-112A or Physics 201 and 202	12

For a Major in Environmental Studies with the Social Sciences and Economics Option:

Environmental Studies core courses	19
Geography 211 and 390	6
Economics 201 and 541	6
Political Science 500 and 540	6
Social Sciences and Econ. electives approved by adviser	12
Supplemental Requirements:	
Geoscience 240	3
Biology 357	2

For a Major in Environmental Studies with the Chemistry and Physics Option:

Environmental Studies core courses	19
Chemistry 101-101A, 102-102A, 223, and 560	15
Physics 201, 202, 350 and 361	15
Supplemental Requirements:	
Geoscience 240	3
Mathematics 353	3
Biology 357	2

For a Minor in Environmental Studies (for students desiring to supplement other majors):

Geoscience 240 and 376	6
Science 355 and 471	4

Biology 356	3
Political Science 505	3
Two courses chosen from Philosophy 303, Mathematics 353, Biology 357, Economics 501, Geography 505, Agriculture 512 and Biology 553 (a maximum of one course may be chosen from the last three 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 Mathematics 141 and 152, or Mathematics 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.

Requirements

For a Major:

	Sem. Hrs.
Mathematics 175, 275, and 471	9
Electives in mathematics above 170 except mathematics 231, 232, and 260	6
Electives in mathematics above 300 as approved by the Head of the Department of Mathematical Sciences	15
	30

For a Minor:

	Sem. Hrs.
Mathematics 175, 275	8
Electives in Mathematics above 170 except Mathematics 231, 232, and 260	6
Electives in mathematics above 300 as approved by the Head of the Department of Mathematical Sciences	7
	21

For a Minor in Statistics:

A student should consult the Head of the Department of Mathematical Sciences for approval of one of the following options.

OPTION I

	Sem. Hrs.
Mathematics 123, 132, 260, 301, 353 or 501*, 553, 555	21

OPTION II

	Sem. Hrs.
Mathematics 301, 312, 353 or 501*, 519, 520, 553, 555	21
* A student may not take both 353 and 501 for credit toward a minor in statistics.	

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.

Mathematics 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.

Mathematics 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.

Mathematics 131. General Mathematics I. (3-0-3); I, II. Sets, logic, induction, flow-charting, and number theory.

Mathematics 132. General Mathematics II. (3-0-3); I, II.

Prerequisite: Mathematics 131. Computers; algebraic sentences; probability; expectation; and statistics.

Mathematics 135. Mathematics for Technical Students. (3-0-3); I, II. Practical mathematics as applied to technical programs to include a study of fractions, ratio and proportion, percentage, elementary algebra, formulae, areas, volumes, and right triangle trigonometry.

Mathematics 141. Plane Trigonometry. (3-0-3); I, II.

Prerequisite: Mathematics 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.

Mathematics 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.

Mathematics 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.

Mathematics 173. Pre-calculus Mathematics I. (3-0-3); I, II. Sets of logic; relations and functions; number systems through the reals; systems of equations.

Mathematics 174. Pre-calculus Mathematics II. (3-0-3); I, II. Exponential, logarithmic, and trigonometric functions; complex numbers; theory of equations; sequences and series.

Mathematics 175. Analytic Geometry and Calculus I. (4-0-4); I, II.

Prerequisite: Satisfactory score on the Mathematics Placement Examination, or Mathematics 141 and 152. Functions and graphs; linear equalities and inequalities; conic sections; limits and continuity; differentiation and its applications; the definite integral.

Mathematics 231. Mathematics for the Elementary Teacher I. (3-0-3); I, II, III. (For elementary teachers only.) Number systems; primes and divisibility; fractions.

Mathematics 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.

Mathematics 260. FORTRAN Programming. (3-0-3); II.

Prerequisites: BA200; 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.

Mathematics 275. Analytic Geometry and Calculus II. (4-0-4); I, II.

Prerequisite: Mathematics 175. Definite integral with applications; trigonometric and exponential functions; methods and applications of integration; infinite series.

Mathematics 276. Analytic Geometry and Calculus III. (4-0-4); I, II.

Prerequisite: Mathematics 275. Solid analytic geometry; space and plane vectors; systems of linear equations; matrices; partial differentiation; multiple integration.

Mathematics 301. Elementary Linear Algebra. (3-0-3); I.

Prerequisite: Mathematics 175. Vector spaces; determinants; matrices; linear transformations; eigenvectors.

Mathematics 304. Mathematical Logic and Set Theory. (3-0-3); I, II. Propositional calculus; sets; relations; functions; Boolean algebras; cardinality.

Mathematics 310. Calculus IV. (3-0-3); I, II.

Prerequisite: Mathematics 275. Algebraic and topological properties of the reals; limits and continuity; differentiation; infinite series; Riemann integration.

Mathematics 312. Numerical Analysis. (3-0-3); II.

Prerequisite: Mathematics 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.

Mathematics 350. Introduction to Higher Algebra. (3-0-3); II.

Prerequisite: Mathematics 304. Groups; rings; integral domains; related topics.

***Mathematics 353. Statistics.** (3-1-3); I, II, III.

Prerequisite: High School Algebra II or equivalent. Introduction to basic statistics with applications.

***Mathematics 354. Business Statistics.** (3-1-3); I, II, III.

Prerequisite: High School Algebra II or equivalent. Introduction to basic statistics with applications to business.

Mathematics 363. Differential Equations. (3-0-3); II.

Prerequisite: Mathematics 275. Special types of first order differential equations; linear differential equations; operator methods; Laplace transforms; series methods; applications.

Mathematics 372. College Geometry. (3-0-3); I, II.

Prerequisite: Mathematics 175. Rigorous development of elementary geometry as a logical system based upon postulates and undefined terms.

Mathematics 373. Principles and Techniques of Mathematics. (3-0-3); I, II.

Prerequisite: Mathematics 275. For prospective teachers of secondary mathematics. Material from advanced mathematics extends topics of high school mathematics.

Mathematics 390. Theory of Numbers. (3-0-3); II.

Prerequisite: Mathematics 275. Postulates; division algorithm; divisibility; prime numbers; linear and quadratic congruences.

Mathematics 391. Classical Mechanics. (4-0-4); I, in alternate years.

(See Physics 391.)

Mathematics 481. Mathematical Physics. (3-0-3); on demand.

(See Physics 481.)

Mathematics 501. Design and Analysis of Experiments. (3-2-4); III.

Prerequisite: Mathematics 123 or 152. Basic statistics with applications. Analysis of enumeration data; hypothesis testing; confidence intervals; analysis of variance; correlation; regression.

Mathematics 504. Topology. (3-0-3); II.

Prerequisites: Mathematics 304 and 350, or consent of instructor. Elementary set theory; topological spaces; metric spaces; compactness and connectedness; mapping of topological spaces; related topics.

Mathematics 510. Real Variables. (3-0-3); I.

Prerequisite: Mathematics 310. Topological properties of Euclidean space; theory of differentiation and integration; sequences and series of functions; metric spaces.

Mathematics 511. Functional Analysis. (3-0-3); I.

Prerequisites: Mathematics 301 and 510 or consent of instructor. Linear spaces; normed and Banach spaces; Hilbert spaces; applications to sequence spaces and Fourier series.

Mathematics 519. Probability. (3-0-3); I.

Prerequisite: Mathematics 275. A first course in mathematical probability and its applications to statistical analysis.

*A student may not receive credit toward graduation in both Mathematics 353 and Mathematics 354.

Mathematics 520. Mathematical Statistics. (3-0-3); II.

Prerequisite: Mathematics 519. Hypothesis testing and estimation; bivariate and multivariate distributions; order statistics; test of fit; nonparametric comparison of locations; distribution theory.

Mathematics 553. Statistical Methods. (3-0-3); I.

Prerequisites: Mathematics 353 or 501. A second course in basic statistical methods with applications. Analysis of variance; general regression analysis; hypothesis testing; confidence intervals.

Mathematics 555. Nonparametric Statistics. (3-0-3); II.

Prerequisite: Math 353 or 501. A course in basic nonparametric statistical methods with applications.

Mathematics 573. Projective Geometry. (3-0-3); III.

Prerequisites: Mathematics 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.

Mathematics 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.

Mathematics 585. Vector Analysis. (3-0-3); I.

Co-requisite: Mathematics 276. Vector algebra; vector functions of a single variable; scalar and vector fields; line integrals; generalizations and applications.

Mathematics 586. Complex Variables. (3-0-3); II.

Prerequisites: Mathematics 310 or 585, or permission of instructor. Algebra of complex variables; analytic functions; integrals; power series; residues and poles; conformal mappings.

Mathematics 599. Mathematics Curriculum Workshop. (One to six hours); III.

Prerequisite: Consent of instructor. New curricula developments in mathematics.

Physical Sciences

Chemistry Geoscience Physics

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. The area of concentration is designed for those students who may have scientifically oriented career objectives which do not fit easily into any other curriculum or who wish a broader scope in preparation for teaching in the secondary schools.

Requirements

For an Area of Concentration in Science (Emphasis on Chemistry)

	Sem. Hrs.
Twenty-four hours in chemistry.....	24

Additional requirements:

Biology 208, 209, 215, and three hours elective in advanced biology.....	13
Physics 201, 202 and 350.....	12
Geoscience 100.....	3
Mathematics 141 and 152 (or their equivalent).....	6

For a Major in Chemistry (for those students planning to become professional chemists).

	Sem. Hrs.
Chemistry 111-111A, 112-112A, 223, 330, 331, 332, 350 541, 542, 550, 560, Science 471 plus one course chosen from Chemistry 351, 595, and Science 476.....	46-48

Additional Requirements:

Mathematics 175, 275, 276.....	12
Physics 231, 232.....	10
German 101, 102.....	6
Advanced technical elective.....	3-4

This curriculum is designed to meet the standards of the American Chemical Society.

For a Major in Chemistry: (for students who desire a strong background in chemistry; recommended for certification for high school teachers).

Thirty-two hours of chemistry including Chemistry 541.....	32
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For a Minor in Chemistry:

Twenty-one hours in chemistry.....	21
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Description of Courses

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

Chemistry 100. Basic Chemistry. (3-2-4); II. (To fulfill the general education science requirement, also recommended for nursing students.) a survey of chemistry with emphasis on health and life processes.

Chemistry 101. General Chemistry I. (3-0-3); I, II, III. Chemistry

applied to home economics and agriculture. Atomic theory, oxygen, hydrogen, metals, non-metals, acids, bases, salts, and periodic arrangement of the elements.

Chemistry 101A. General Chemistry I Laboratory. (0-2-1); I, II, III. Laboratory for Chemistry 101.

Chemistry 102. General Chemistry II. (3-0-3); I, II, III.

Prerequisite: Chemistry 101. Continuation of Chemistry 101. Major emphasis on introduction to organic chemistry and topics relating to foods, nutrition, and textiles.

Chemistry 102A. General Chemistry II Laboratory. (0-2-1); I, II, III. Laboratory for Chemistry 102.

Chemistry 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.

Chemistry 111A. General Chemistry I Laboratory. (0-2-1); I, II, III. Laboratory for Chemistry 111.

Chemistry 112. General Chemistry II. (3-0-3); I, II, III.

Prerequisite: Chemistry 111. Continuation of Chemistry 111. Kinetics, equilibria, electrochemistry, and descriptive chemistry of selected groups of elements.

Chemistry 112A. General Chemistry II. Laboratory. (0-2-1); I, II, III. Laboratory for Chemistry 112.

Chemistry 223. Quantitative Analysis. (1-6-4); I, II.

Prerequisite: Chemistry 102 and 102A or 111 and 111A. Principles and practices of volumetric analysis including electrometric titrations.

Chemistry 326. Organic Chemistry I. (3-2-4); I, II, III.

Prerequisite: Chemistry 102 and 102A or 111 and 111A. Homologous series of alkanes, alkenes, alkynes, alicyclic compounds, benzenoid compounds, alcohols, phenols, and molecular structure.

Chemistry 327. Organic Chemistry II. (3-2-4); II.

Prerequisite: Chemistry 326. Continuation of Chemistry 326. Aldehydes, ketones, acids, and compounds of biological interest.

Chemistry 331. Organic Chemistry I. (2-6-5); I, in alternate years.

Prerequisite: Chemistry 112. Structure, spectra, and electron delocalization of organic molecules. Organic stereochemistry, conformational analysis, and formation of various functional groups.

Chemistry 332. Organic Chemistry II. (2-6-5); II, in alternate years.

Prerequisite: Chemistry 331. Organic synthesis, the carbonyl functional groups, aromaticity, mono- and polysaccharides and proteins, and heterocyclic chemistry.

Chemistry 350. Inorganic Chemistry I. (3-0-3); I, in alternate years.

Prerequisite: Chemistry 112 and 112A. Electronic structure and bonding in inorganic compounds. Physical properties related to structure and acid-base theories.

Chemistry 351. Inorganic Chemistry II. (2-2-3); II, on demand.

Prerequisite: Chemistry 350. Complexion and transition metal chemistry. Introduction to non-aqueous solvents.

Chemistry 410. Spectral Interpretation in Chemical Analysis. (2-0-2); II, on demand.

Prerequisite: Chemistry 326 or 331. Methods used in the interpretation of nuclear magnetic resonance spectra, mass spectra, infrared and ultraviolet spectra of inorganic and organic molecules.

Chemistry 541. Physical Chemistry I. (3-2-4); I, in alternate years.

Prerequisites: Chemistry 223; Mathematics 275; Physics 202 or 232. Gases, liquids, and solids; thermodynamics, properties of solutions, thermochemistry; equilibria and electro-chemistry.

Chemistry 542. Physical Chemistry II. (3-4-5); II, in alternate years.

Prerequisite: Chemistry 541; Co-requisite: Mathematics 276. Chemical kinetics, quantum theory, molecular structure, and nuclear chemistry.

Chemistry 550. Qualitative Organic Analysis. (2-4-4); II, in alternate years.

Prerequisite: Chemistry 326 or 332. Qualitative analysis of organic compounds; physical and chemical methods.

Chemistry 560. Instrumental Analysis. (1-4-3); II.

Prerequisite: Chemistry 102 and 102A or 112 and 112A. Theory and practice of instrumental analysis. Opticometric and electrometric methods.

Chemistry 595. Biochemistry I. (2-4-4); I.

Prerequisite: Chemistry 327 or 332 or consent of instructor. Carbohydrates, lipids, and proteins, intermediary metabolism; protein synthesis, enzymology, blood chemistry, bioenergetics, fluid electrolyte balance, vitamin and steroid chemistry.

Chemistry 596. Biochemistry II. (2-4-4); II.

Prerequisite: Chemistry 595. Continuation of Biochemistry I. Inter-

mediary metabolism of carbohydrates, lipids, proteins, and nucleic acids; function and mechanism of action of enzymes; energetics of living systems, and regulation of life processes.

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.

Requirements For a Major in Geology:

	Sem. Hrs.
Geoscience 100, 101, 260, 261, 300, 314, 325, 377, 378, 400, and Science 471.....	31
Students desiring to pursue graduate study in geology also must take:	
Biology 208.....	3
Chemistry 111-111A and 112-112A.....	8
Mathematics 141 and 152 or their equivalent).....	6
Physics 201 and 202, or Physics 231 and 232.....	8-10
It is recommended that students who major in geology and desire to pursue graduate study take one year of foreign language (French, German, or Russian), Mathematics 175, and attend a summer geology field camp.	

However, students seeking careers in industry and state or federal agencies are requested to take up to 15 semester hours in other supportive courses approved by adviser.

For a Minor in Geology:

	Sem. Hrs.
Geoscience 100, 101, 250 or 260, 400 and 510.....	15
Electives approved by adviser.....	6
Minimum for a minor.....	21

For a Major in Earth Science:

	Sem. Hrs.
Science 200.....	3
Geoscience 100, 101, 250 or 260, 400, 511 and Science 471.....	16
Agriculture 211.....	3
Geography 390.....	3
Electives approved by adviser.....	6
Minimum for a major.....	31

For a Minor in Earth Science:

(For teacher certification only, the earth science minor must be taken in conjunction with a major or minor in another science or in mathematics).

	Sem. Hrs.
Science 200.....	3
Geoscience 100, 101, and 400.....	9
Geography 390.....	3
Electives approved by adviser.....	6
Minimum for a minor.....	21

Students seeking teacher certification with a major or minor in Earth Science also must take:

	Sem. Hrs.
Biology 208.....	3
Mathematics 141 and 152 or their equivalent).....	6
A minimum of 12 hours from the following:	
Chemistry 101-101A and 102-102A (or 111-111A and 112-112A) and Physics 201-202 (or 231-232).....	12

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.

Geoscience 100. Physical Geology. (2-2-3); I. Weathering, erosion, vulcanism, diastrophism, common minerals and rocks, topographic maps, geologic features and processes.

Geoscience 101. Historical Geology. (2-2-3); II.*

Prerequisite: Geoscience 100. Physical events in the earth's history; structure of sedimentary facies of each major stratigraphic subdivision; fossil record from the Precambrian period.

Geoscience 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.

Geoscience 250. Minerals and Rocks. (2-2-3); on demand.*

(Geology majors will not receive credit for this course.)

Prerequisite: Geoscience 100. Principal rock-forming and economic minerals and their occurrence.

Geoscience 260. Mineralogy I. (1-4-3); I.

Prerequisites: Geoscience 100 and Chemistry 112 and 112A. Physical and chemical properties of minerals; crystal models, crystals, chemical methods, and rock relationships.

Geoscience 261. Mineralogy II. (1-4-3); II.

Prerequisite: Geoscience 260. Continuation of Geoscience 260 with a systematic survey of common mineral groups.

Geoscience 300. Petrology. (2-2-3); I, in alternate years.

Prerequisite: Geoscience 261. Modes of occurrence and origin of igneous and metamorphic rocks in relation to geologic processes; methods of identifying and classifying rocks.

Geoscience 301. Economic Geology I. (Metals). (3-0-3); on demand.*

Prerequisite: Geoscience 100. Formations and occurrence of metallic ore deposits. Economic factors affecting the mining industry.

Geoscience 302. Economic Geology II. (Non-metals). (3-0-3); on demand.*

Prerequisites: Geoscience 100 or consent of instructor. Formation and occurrence of non-metallic mineral deposits. Methods and equipment used in exploration. Sampling and evaluation of mineral properties. Uses and economic factors.

Geoscience 314. Principles of Stratigraphy. (2-2-3); II, in alternate years.*

Prerequisite: Geoscience 101 or 510. Geologic correlation of surface and subsurface stratal units; facies analysis and biostratigraphic studies.

Geoscience 325. Structural Geology. (2-2-3); II, in alternate years.*

Prerequisites: Geoscience 101 and Mathematics 141 (or its equivalent). Mechanical properties of rocks and the dynamics of rock deformation. Folds, faults, joints, cleavage, igneous structures.

Geoscience 350. Geomorphology. (2-2-3); on demand.

Prerequisite: Geoscience 100, or Science 107, or Geography 101. Land surfaces; topographic form and geologic history; morphologic analysis.

Geoscience 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.

Geoscience 377. Invertebrate Paleontology I. (2-2-3); I, in alternate years.*

Prerequisites: Geoscience 101; Biology 208 or Geoscience 510. Invertebrate animals, their morphology, classification, paleoecology, phylogeny, and stratigraphic succession.

Geoscience 378. Invertebrate Paleontology II. (2-2-3); II, in alternate years.*

Prerequisite: Geoscience 377. Continuation of Geoscience 377. Faunal assemblages and research techniques.

Geoscience 381. Principles of Sedimentation. (1-4-3); on demand.*

Prerequisite: Geoscience 101. Mechanics of sedimentary rocks, with emphasis on chemical and mechanical analysis. Laboratory work based in part on required field studies.

Geoscience 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.

Geoscience 415. History of Geology. (2-0-2); on demand. Development of geological thought; important men and their contributions to our knowledge of the earth.

Geoscience 510. Geological History of Plants and Animals. (2-2-3); I, II.

Prerequisites: Biology 208 and 215, or Geoscience 101. The evolutionary history of plants and animals throughout geological time.

Geoscience 513. Micropaleontology. (2-2-3); on demand.*

Prerequisites: Geoscience 378 or 510. Collection, preparation,

microscopic investigation, classification, paleoecology and stratigraphic succession of microfossils.

Geoscience 520. Optical Mineralogy. (2-2-3); on demand.

Prerequisites: Geoscience 261. Behavior of light in isotropic and anisotropic minerals. Identification of minerals with polarizing microscope.

Geoscience 525. Petroleum Geology. (2-2-3); on demand.

Prerequisites: Geoscience 314 and 325. Origin, migration and accumulation of oil and gas. Exploration methods, reservoir development; logging, testing and completing wells.

Geoscience 560. Geological Oceanography. (3-0-3); II, in alternate years.

Prerequisites: Geoscience 101 or 510. Marine erosion, transportation and deposition, continental shelves, slopes and ocean basins; marine environments. Shoreline processes and analysis.

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.

Requirements

For a Major in Physics:

	Sem. Hrs.
Physics 231*, 232*, 332, 340, 341, 352, 391, 593; Science 471.....	29
Electives in physics, 400-level.....	3
	32

For a Major in Physics: (for those students desiring to teach Physics in secondary schools)

	Sem. Hrs.
Physics 231*, 232*, 340, 350, 352, 374, Science 471.....	24
Electives in Physics, 300-level or above.....	6
	30

All Physics majors are also required to complete the following:

	Sem. Hrs.
Mathematics 175, 275, 276.....	32
Mathematics elective 300-level or above.....	3
Chemistry 111-111A and 112-112A.....	8
	43

For a Minor in Physics:

	Sem. Hrs.
Physics 231*, 232*.....	10
Physics electives, 300-level or above as approved by adviser.....	11
	21

* Physics 201, 202, and 212 may be substituted for Physics 231 and 232. (Substitution is recommended only to students who decide to major or minor in Physics after completing Physics 201 and 202.)

Special Programs in Physics:

Pre-Engineering/Associate of Science Degree in Engineering Science

The two-year pre-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.

FIRST YEAR

First Semester

	Sem. Hrs.
Eng 101—Composition I.....	3
*Math 175—Analytical Geometry and Calculus I.....	4
Chem 111—General Chemistry I.....	3
Chem 111A—General Chemistry I Laboratory.....	1
IE 103—Technical Drawing I.....	3
**PE—Activity course.....	1

Second Semester

	Sem. Hrs.
Eng 192—Technical Composition.....	3
*Math 275—Analytical Geometry and Calculus II.....	4
Chem 112—General Chemistry II.....	3

Chem 112A—General Chemistry II Laboratory.....	1
**Hist 142—Introduction to Early American History.....	3
**Hlth 150—Personal Health.....	2

SECOND YEAR

First Semester

Math 276—Analytic Geometry and Calculus III.....	4
**Hist 142—Intro. to Recent American History.....	3
Phys 231—Engineering Physics I.....	5
**Econ 201—Principles of Economics I.....	3
**PE—Activity.....	1

Second Semester

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.

** Substitutions can be made with approval of adviser.

Pre-Optometry

The Commonwealth of Kentucky has approved a financial plan to aid in the support of several students in pursuing the optometry program at the University of Houston. The pre-optometry program at Morehead State University is designed to meet entrance requirements at the University of Houston School of Optometry and is generally accepted at other universities.

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.

Physics 170. Perspectives in Modern Physics. (1-0-1); I, II, III. Non-mathematical presentation of current developments in physics and their impact on society. Nuclear power reactors, laser applications in fusion, energy research, holography, communications and medicine. Astronomy, neutron stars, and black holes.

Physics 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.

Physics 202. Elementary Physics II. (3-2-4); I, II, III.

Prerequisite: Physics 201. Electricity and magnetism, light, nuclear and atomic physics.

Physics 212. General Physics Problems. (2-0-2); on demand.

Prerequisites: Physics 202 and Mathematics 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 Physics 201 and 202, and are interested in taking additional upper-division physics courses. For courses for which Physics 231 and 232 are the recommended prerequisites, the sequence Physics 201, 202, and 212 is acceptable in lieu of Physics 231 and 232.)

Physics 231. Engineering Physics I. (4-2-5); I.

Co-requisite: Mathematics 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.

Physics 232. Engineering Physics II. (4-2-5); II.

Prerequisite: Physics 231. Electromagnetism, optics, atomic and nuclear physics.

Physics 250. Light, Color, Cameras, and Perception. (3-0-3); I, II, A. 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.

Physics 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.

Physics 332. Electricity and Magnetism. (4-0-4); II, in alternate years.

Prerequisite: Physics 232. Classical electricity and magnetism; Maxwell's equations, Lorentz force equation; electrodynamics, electrostat-

ics, and magnetostatics; circuit theory, electromagnetic waves and radiating systems.

Physics 340. Experimental Physics I. (0-4-2); I.

Prerequisite: Physics 232. Selected experiments in mechanics, electricity and magnetism, and optics. The computer is utilized in analyzing data.

Physics 341. Experimental Physics II. (0-4-2); on demand.

Prerequisite: Physics 232. Selected experiments in atomic and nuclear physics. Computer analysis of experimental data is treated.

Physics 350. Nuclear Science. (3-2-4); II.

Prerequisite: Physics 202 or 232. Interdisciplinary course in nuclear science for students in pre-medicine, environmental studies, physics, chemistry, geology, pre-dentistry, and pre-veterinary medicine.

Physics 352. Concepts of Modern Physics. (3-0-3); I, in alternate years.

Prerequisite: Physics 232. Special relativity, quantum mechanics, atomic and molecular structure, solid state, and nuclear physics.

Physics 361. Fundamentals of Electronics. (1-4-3); II.

Prerequisites: Physics 202 or 232. Laboratory oriented electronic principles, components, basic circuits, servo systems, amplifiers, feedback control and digital circuits; transistor and vacuum tube devices.

Physics 374. Physics for Secondary Teachers. (2-4-4); I, in alternate years.

Prerequisite: Physics 202 or 232. For prospective teachers of high school physics, Harvard Project Physics, PSSC.

Physics 391. Classical Mechanics. (4-0-4); I, in alternate years.

Prerequisite: Physics 232. Vector analysis; statics and dynamics of particles and rigid bodies; oscillations; Lagrangian and Hamiltonian formulations.

Physics 410. Solid State Physics. (3-0-3); on demand.

Prerequisite: Physics 352. Lattice dynamics, electrons in metals, semiconductors, and dielectric and magnetic properties of solids.

Physics 411. Thermodynamics and Statistical Mechanics. (3-0-3); on demand.

Prerequisite: Physics 232. A unified thermodynamics and statistical mechanics. Quantum systems, entropy, thermodynamic laws, kinetic theory, Fermi-Dirac and Bose-Einstein distributions.

Physics 412. Light and Physical Optics. (3-0-3); on demand.

Prerequisite: Physics 232. Dualistic nature of light; interference, refraction, reflection, diffraction, polarization, laser action, and spectra.

Physics 452. Nuclear Physics. (3-0-3); on demand.

Prerequisite: Physics 232. Binding energies, nuclear forces, transmutation of nuclei; natural and artificial radioactivity, etc.

Physics 481. Mathematical Physics. (3-0-3); on demand.

Prerequisite: Mathematics 276. Series solutions of differential equations, Legendre polynomials, Bessel functions, partial differential equations, integral transforms, and applications of mathematics to physical problems.

Physics 520. 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.

Physics 593. Quantum Mechanics. (3-0-3); on demand.

Prerequisite: Physics 391 or consent of the instructor. The wave function; Hermitian operators and angular momentum; Schrodinger's equation, barriers wells harmonic 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

Science 103, 105, 551, 552, or equivalents, and twelve additional hours of Electives approved by the Department of Science Education.

Sem. Hrs.

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.

Science 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 sciences and physics.

Science 105. Introduction to Biological Sciences. (3-0-3); I, II, III. Fundamental life processes: photosynthesis, respiration, reproduction, growth, evolution. Emphasis on man.

Science 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.

Science 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.

Science 350. Heredity and Society. (3-0-3); I, II.

Prerequisite: Science 105 or equivalent. Evolutionary processes and intricacies of genetic transmission. Evolution in human thought, experience, and affairs.

Science 355. Population, Resources, and Environment. (3-0-3); I, II, III.

Prerequisites: Science 103 and 105 or equivalent. Human ecology with special emphasis on relationships between man, his resources, and his environment.

Science 471. Seminar. (1-0-1); I, II.

Prerequisite: Senior standing. Designed to give the student an introduction to research and literature in the sciences.

Science 476. Special Problems. (One to three hours); I, II, III.

Prerequisite: Consent of instructor. Topic to be approved prior to registration.

Science 551. Plant Natural History. (3-0-3); II, III in odd years.

Prerequisite: Science 105 or equivalent. The survey of major taxonomic groups, with emphasis on the natural history of local plants.

Science 552. Animal Natural History. (3-0-3); I, III in even years.

Prerequisite: Science 105 or equivalent. The survey of major taxonomic groups, with emphasis on the natural history of local animals.

Science 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.)

Science 570. Earth Science. (3-0-3); I, II, III. The fundamentals of the geological sciences. (Especially designed for in-service and pre-service teachers.)

Science 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.

Science 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.

Science 591. Science for the Junior High 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 pedagogy, science content, and techniques applicable to the teaching of science to junior high and intermediate children.

Science 592. Science for the Secondary Teacher. (2-2-3); II, III.

Prerequisite: Permission of instructor. Admission to the Teacher Education Program. Concepts of teaching high school science with emphasis on curriculum innovations.

School of SOCIAL SCIENCES

Department of Geography
Department of History
Department of Political Science
Department of Sociology, Social Work,
and Corrections

The School of Social Sciences consists of the Departments of Geography, History, Political Science, and Sociology, Social Work, and Corrections. Baccalaureate degree programs are offered by each of these departments and master's degree programs are offered in history and sociology.

The School of Social Sciences provides, through the Department of Political Science, a number of internship programs (legislative and administrative internships in state government). The Department also offers an interdisciplinary major in public affairs.

The Department of Sociology, Social Work and Corrections offers a four-year undergraduate program in social work. This is an area of concentration composed of a social work core and includes practice methods and experiential learning, social and behavioral sciences, and humanities courses designed to prepare professional social work personnel for social welfare agencies and certified school social workers.

Area of Concentration in Social Sciences

Requirements

	Sem. Hrs.
Economics 201—Principles I	3
Economics 202—Principles II	3
Geography 100—Fundamentals	3
Geography 211—Economic Geography	3
History 131—Intro. to Civilization I	3
History 132—Intro. to Civilization II	3
History 141—Intro. to Early American History	3
History 142—Intro. to recent American History	3
Advanced additional credit in history	9
Political Science 141—Government of U.S.	3
Political Science 242—State and Local Gov't	3
Sociology 101—General Sociology	3
Sociology 505—Sociological Theory	3
Advanced electives from either geog., pol sci., or sociology	12
Total	57

Suggested Program

The following program outline has been devised to help students in selecting their courses and arranging their schedules. These schedules need not be followed specifically from semester to semester, but close adherence to them will aid students in meeting the requirements for graduation.

FRESHMAN YEAR

First Semester

Eng—Composition	3
PE—Activity courses	1
Sci—Physical Science	3
Geog 100—Fund. of Geog.	3
Hist 131—Intro. to Civilization I	3
Hlth—Health	2
Elective	2
Total	17

Second Semester

Eng—Composition	3
PE—Activity course	1
Sci—Biological Sci.	3
Ed 209—Foundations of Secondary Ed.	2

Hist 132—Intro. to Civilization II	3
PS 141—Govt. of the U.S.	3
Elective	2
Total	17

SOPHOMORE YEAR

First Semester

Eng—Literature elective	3
Hist 141—Intro. to Early American History	3
Soc 101—General Sociology	3
Econ 201—Prin. of Econ. I	3
PS 242—State & Local Govt.	3
Elective	2
Total	17

Second Semester

Geog 211—Economic Geography	3
Hist 142—Intro. to Recent American History	3
Ed 310—Principles of Adolescent Development	3
Econ 202—Prin. of Econ. II	3
Math elective	3
Elective	2
Total	17

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

For a Major:

	Sem. Hrs.
Geography 100, 101, 211 and 241	12
Electives in Systematic Geography	9
Electives in Regional Geography	9
Minimum for a major	30

For a Minor:

Geography 100, 101, 211, and 241	12
Elective in Systematic Geography	3
Other Geography credit	6
Minimum for a minor	21

Suggested program

The following program has been devised to help students in selecting their courses and making their schedules. 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.

*Provisional High School Certificate with Major in Geography

FRESHMAN YEAR

First Semester

Eng—Composition	3
PE—Activity course	1
Sci—Physical Science	3
Geog 100—Fundamentals of Geog.	3
Social Sciences elective	3
Minor	3
Total	16

Second Semester

Eng—Composition	3
PE—Activity course	3
Hlth 150—Personal Health	2
Hlth 150—Personal Health	2
Geog 101—Physical Geog.	3
Minor	3
Total	15

SOPHOMORE YEAR

First Semester

Eng—Literature elective	3
Geog 211—Econ. Geography	3
Math elective	3
Minor	3
Social Sciences elective	3
Ed 209—Foundations of Secondary Education	2
Total	17

Second Semester

Humanities elective	3
Geog 241—Anglo-America	3
Sci. or Math Elective	3
Ed 310—Prin. of Adolescent Development	3
Minor	3
	15

*If teacher certification is not desired, consult your advisor.

Description of Courses

NOTE: (3-0-3) following course title indicates: 3 hours lecture, 0 hours laboratory and 3 hours credit. Roman numerals I, II, and III indicate the term in which the course is normally offered: I—Fall Semester, II—Spring Semester and III—Summer Term. *Indicates Systematic Geography courses.

Geography 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.

Geography 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.

Geography 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.

Geography 241. Anglo-America. (3-0-3); I, II, III. Major land-use regions of the United States and Canada, their physical and cultural landscapes.

Geography 300. Regional 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.

Geography 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.

Geography 319. Middle America. (3-0-3); II. Mexico, the Central American Republics, and the islands of the Caribbean; emphasis upon cultural and historical traditions.

Geography 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.

Geography 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.

Geography 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.

Geography 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.

Geography 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.

***Geography 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.

***Geography 350. Cartography II.** (3-0-3); II. Prerequisite: Geography 349. Selection of source material for the base and body of the map; mechanical reproduction; construction of complex projections; basic aerial photo interpretation.

***Geography 360. Physiography of the United States.** (3-0-3); I. Prerequisites: Physical Geography or Geology. Description and detailed analysis of the physiographic provinces. An explanation and interpretation of surface features and their evolution.

***Geography 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.

Geography 375. The Teaching of Social Studies. (3-0-3); I, II. (See History 375.) (Does not count in major or minor.)

Geography 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.

***Geography 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.

Geography 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.

Geography 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.

***Geography 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.

***Geography 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.

Geography 515. Seminar. Geography Field Tour. (0-0-3); on demand. Geographic reconnaissance of selected regions. Directed reading and briefing sessions followed by lecture and observation in the field; interpretation and analysis for a written report.

***Geography 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.

Geography 550. Geography for Teachers. (3-0-3); on demand. A study of the basic concepts, materials and techniques for the teaching of geography.

***Geography 590. Advanced Meteorology.** (3-0-3); II. Prerequisite: Geography 390. Weather elements; emphasis on meteorological skills; application to industrial, aviation, maritime, and military needs.

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 political science, law, medicine, business administration, and library science.

Requirements

For a Major:

	Sem. Hrs.
History 131, 132, 141, and 142	12
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 advisors with care taken to avoid undue concentration of courses in only one field of history.

The courses offered by the department are classified into three fields: American history, European history, and Non-Western history. For matters of convenience, non-western history refers to African, Latin-American, Middle Eastern, and Asian studies.

For those students seeking teacher certification, History 375, The Teaching of Social Studies, is required in addition to the major. It is recommended that History 375 be taken the semester prior to the professional semester.

For a Minor:

History 131, 132, 141, and 142	12
Advanced credit in history	9
Minimum for minor	21

Suggested Program

The following program has been devised to help undergraduate students in selecting their courses and arranging their schedules. 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.

The Provisional High School Certificate with a Major in History*

FRESHMAN YEAR

First Semester

Eng—Composition	3
PE—Activity course	1
Sci—Physical Science	3
Hist 131—Intro. to Civilization I	3
or	
Hist 141—Intro. to Early American History	3
Social Sciences elective	3
Elective	3
	16

Second Semester

Eng—Composition	3
PE—Activity course	1
Sci—Biological Science	3
Hist 132—Intro. to Civilization II	3
or	
Hist 142—Intro. to Recent American History	3
Hlth 150—Personal Health	2
Elective	3
	15

SOPHOMORE YEAR

First Semester

Eng—Literature elective	3
Hist 141—Intro. to Early American History	3
or	
Hist 131—Intro. to Civilization I	3
Elective	3
Ed 209—Foundations of Secondary Education	2
Humanities elective	3
Elective	2
	16

Second Semester

Humanities elective	3
Hist 142—Intro. to recent American History	3
or	
Hist 132—Intro. to Civilization II	3
Sci—Elective	3
Social Sciences elective	3
Minor	3
Elective	2
	17

* If teacher certification is not 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.

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.

History 131. Introduction to Civilization I. (3-0-3); I, II, III. From early man to the end of the religious wars.

History 132. Intro. to Civilization II. (3-0-3); I, II, III. From the Age of Reason to the Atomic Age.

History 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.

History 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.

History 251. 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.

History 287. 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.

History 325. The Old South. (3-0-3); I, III. The growth of southern sectionalism and the development of regional characteristics.

History 326. The Civil War and Reconstruction. (3-0-3); II. The role of the southern states in the rebirth of the American nation.

History 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.

History 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.

History 330. Ancient History. (3-0-3); I. The rise of civilization with emphasis on the cultural contributions of the Greeks and Romans.

History 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.

History 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.

History 333. Medieval Europe. (3-0-3); II. Western man from the collapse of Rome to the Renaissance of the sixteenth century.

History 334. The Renaissance and Reformation. (3-0-3); I. A social and intellectual history of the beginning of the modern world.

History 335. Revolutionary Europe, 1648-1815. (3-0-3); II. Europe from the Age of Absolutism to the overthrow of the Napoleonic Empire.

History 338. Nineteenth Century Europe. (3-0-3); I, II. The political isms, nationalistic trends and unification movements leading to World War I.

History 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.

History 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.

History 345. The American Frontier. (3-0-3); I, II, III. The Westward Movement in the shaping of American life and institutions.

History 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.

History 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.

History 351. England to 1660. (3-0-3); I. The political, social and economic institutions of England to the fall of the Puritan Commonwealth.

History 352. England Since 1660. (3-0-3); II. A history of England from the Restoration to the rise of the British Commonwealth.

History 353. Russia to 1917. (3-0-3); I. Russia from Kievan times to the overthrow of the Romanov dynasty.

History 354. Russia Since 1917. (3-0-3); II. A detailed history of Soviet Russia from the revolution to the Cold War.

History 356. American Urban History (3-0-3); I. An examination of the rise of the American city from colonial days to twentieth century ghettos.

History 363. History of Witchcraft. (3-0-3); I, II. A survey of witchcraft and the occult from ancient times to the contemporary.

History 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.

History 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.

History 375. The Teaching of Social Studies. (3-0-3); I, II.
Prerequisite: Open only to majors in the social sciences with a minimum of eighteen credit hours, during the semester preceding student teaching. 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.)

History 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.

History 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.

History 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.

History 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.

History 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.

History 388. History of Corrections. (3-0-3); I. (See Corrections 388.)

History 540. Colonial America. (3-0-3); I. The nation from the Age of Discovery to the Revolutionary War.

History 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.

History 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.

History 545. The United States, 1900-1939. (3-0-3); I. The American people from the Progressive Period through the New Deal.

History 546. The United States, 1939-1970. (3-0-3); II. America from World War to world leadership. Emphasis is placed upon the resultant social problems.

History 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.

History 549. American Life and Thought. (3-0-3); I. A survey of the American intellectual heritage from Puritanism to the "mod" world.

History 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.

History 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.

History 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.

History 555. European Intellectual History. (3-0-3); I. The stream of European thought from the French Revolution to the Atomic Age.

History 558. The Slavery Controversy. (3-0-3); I, III. The issues growing out of differences concerning slavery within voluntary societies.

History 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.

History 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.

History 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.

History 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.

Political Science

The Department of Political Science 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 a type of 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 political science major requirements. Those wishing to specialize in public administration should select courses in public administration, finance, and personnel.

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:

	Sem. Hrs.
Political Science 141, 242, and 330 or 450	9
Approved electives in Political Science	21
Minimum for a major	30

For a Minor:

Political Science 141, 242, and 330 or 450	9
Approved electives in Political Science	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.
PS 141—Government of the United States	3
PS 242—State and Local Government	3
PS 300—Municipal Government	3
PS 540—Public Administration	3
PS 541—Public Finance	3
PS 546—Public Personnel Administration	3
	18

Suggested Electives

Acct 528—Government Accounting	
Geog 349—Cartography I	
Geog 510—Urban Geography	
Hist 556—American Urban History	
PS 346—Intergovernmental Relations	
PS 555—Internship in Public Affairs	
Rec 388—Community Centers and Playgrounds	
Soc 323—Urban Sociology	
Total for the degree	36

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

The following program has been devised to help students in selecting their courses and arranging their schedules. These suggested schedules need not be followed specifically from semester to semester, but close adherence to them will aid the students in meeting all requirements for graduation.

Provisional High School Certificate with a Major in Political Science*

FRESHMAN YEAR

First Semester

Eng—Composition	3
PE—Activity course	1
Sci—Physical Sci.	3
PS 141—Gov't of U.S.	3
HLth 150—Personal Health	2
Soc. Science elective	3
	15

Second Semester

Eng—Composition	3
PE—Activity course	1
Sci—Biological Sci.	3
PS 242—State and Local Gov't.	3
Social Sciences elective	3
Minor	3
	16

SOPHOMORE YEAR

First Semester

Eng—Literature elective	3
PS 330—Parliamentary Democracies	3
Ed 209—Foundations of Secondary Education	2
Math—Elective	3
Humanities elective	3
Minor	3
	17

Second Semester

Humanities elective	3
PS—Elective	3
Science or Math elective	3
Minor	3
Elective	3
	15

Junior and senior year programs may be worked out with adviser.

*If teacher certification is not desired, consult your adviser.

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.

Political Science 141. Government of the United States. (3-0-3); I, II, III. The nature, organization, powers, and functions of the United States government.

Political Science 242. State and Local Government. (3-0-3); I, II, III. The nature, organization, powers, and functions of American state and local governments.

Political Science 275. Introduction to Political Research. (3-0-3); I. Prerequisite: Political Science 141. Government of the United States, or consent of the instructor. Methods and mechanics of political research, writing and oral expression.

Political Science 300. Municipal Government. (3-0-3); I, II. The nature, organization, powers, and functions of American municipal governments.

Political Science 305. Introduction to Political Behavior. (3-0-3); I. Prerequisite: Political Science 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.

Political Science 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.

Political Science 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.

Political Science 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.

Political Science 340. Public Opinion and Propaganda. (3-0-3); II. The nature, formation, and role of public opinion, techniques, strategies and effects of propaganda.

Political Science 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.

Political Science 344. Kentucky Government. (3-0-3); I, II. The nature, organization, powers, and functions of Kentucky state government.

Political Science 348. The Legislative Process. (3-0-3); II. Prerequisite: Political Science 141 or consent of the instructor. Legislative behavior in the context of the political system; procedures and influences in the formation of public policy.

Political Science 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.

Political Science 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.

Political Science 364. Intergovernmental Relations. (3-0-3); I. Prerequisites: Political Science 141 and 242. Structure, allocation of power, and the political process relating to activities and programs involving different levels of government.

Political Science 366. Political Geography. (3-0-3); I, II. (See Geography 366.)

Political Science 375. The Teaching of Social Studies. (3-0-3); I, II. (See History 375.) (Does not count in the major or minor.)

Political Science 380. American Courts and Civil Rights. (3-0-3); I. Prerequisite: Political Science 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.

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

Political Science 444. The American Constitution. (3-0-3); II. Prerequisite: Political Science 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.

Political Science 450. International Relations. (3-0-3); I. Prerequisite: Political Science 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.

Political Science 470. American Chief Executives. (3-0-3); on demand. Prerequisite: Political Science 141, 242, or consent of instructor. Analysis of executive position and leadership in federal, state, and local governments.

Political Science 476. Special Problems. (One to three hours); on demand. Prerequisite: Consent of the instructor. Original research project or readings in a particular subject area.

Political Science 480. Comparative Political Systems. (3-0-3); on demand. Prerequisites: Political Science 330 or permission of instructor. An examination, on a comparative basis, of existing governmental systems: Liberal democratic states, totalitarianism, and Third World states.

Political Science 500. Pressure Groups and Politics. (3-0-3). Prerequisite: Political Science 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.

Political Science 505. Politics of Ecology. (3-0-3); II.

Prerequisite: Political Science 141 or consent of the instructor. A political analysis of the problems of the environmental crises.

Political Science 510. Law of Corrections. (3-0-3); on demand. See Corrections 510.

Political Science 540. Public Administration. (3-0-3); I.

Prerequisite: Political Science 141 or consent of the instructor. Historical evolution; theory of organization and administration; personnel, financial, and legal aspects of public administration.

Political Science 541. Public Finance. (3-0-3); I.

Prerequisites: Economics 201 and 202. See Economics 541.

Political Science 546. Public Personnel Administration. (3-0-3); II, III.

Prerequisite: Political Science 540 or consent of the instructor. Manpower utilization; concepts, principles and practices of the merit system; leadership; decision-making process; motivation of public employees.

Political Science 555. Internship in Public Affairs. (One to six hours); on demand.

Prerequisite: Consent of the instructor. On-the-job work study experience in government.

Sociology, Social Work, and Corrections

A variety of programs spanning three academic and career-oriented areas of study is 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.

Students may choose from the following programs:

- I. Major in Sociology
- II. Major in Sociology with an Emphasis in Corrections
- III. Minor in Sociology

Requirements

For a Major in Sociology:

	Sem. Hrs.
Sociology 101	3
Sociology 305, 389 or 550, and 505	9
Sociology electives of which 12 hours must be on the 300 level or above	18
Minimum for a major	30

For a Major in Sociology with an Emphasis in Corrections:

Sociology 101, 203, 354, 374, 505, and 550	18
Corrections 201, 301, 320, and 590	15
Advanced corrections elective	3
Minimum for a major in sociology with an emphasis in corrections	36

For a Minor in Sociology:

Sociology 101, 203, 389 or 550, and 505	12
Advanced sociology electives on the 300 level and above approved by the adviser	9
Minimum for a minor in sociology	21

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.

Students may choose from two programs of study:

- I. Bachelor of Social Work Degree
- II. Associate of Arts Degree in Social Work - two-year program.

Requirements

For a Bachelor of Social Work:

	Sem. Hrs.
Social Work 210, 230, 310, 322, 325, 389 or 550, 490, 510, 525, and 530	33
Electives in Social Work	6
Sociology 101, 203, 305, 354, 374, 505 or 510	18
Economics 101	3
Political Science 242 and 380	6
Psychology 154 and 390 or 590	6
Philosophy 200	3
English 591 or 592	3
Total	78

For an Associate of Arts in Social Work:

	Sem. Hrs.
Social Work 210, 230, 310, 315, 322, and 325	18
Sociology 101, 203, and 354	9
Economics 101	3
English 101 and 102 or 192	6
Philosophy 200	3
Political Science 141 and 242	6
Psychology 154	3
Health 150	2
Approved electives	14
Total	64

Corrections

Corrections is a rapidly expanding field which provides 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 man 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.

Students may choose from three programs of study:

- I. Bachelor of Arts in Corrections
- II. Minor in Corrections
- III. Associate of Arts Degree in Corrections - two-year program.

Requirements

For a Bachelor of Arts in Corrections:

	Sem. Hrs.
Corr 201, 301, 320, 510, 515, 550, and 590	24
Advanced electives in Corrections	12
Sociology 101, 203, 354, 374, and 505	15
Advanced electives in Sociology	6
Social Work 520 and 535	6
Psychology 154 or 155 and 590	6
English 591 or 592	3
Total	72

For a Minor in Corrections:

Corrections 201, 301, and 320	9
Advanced electives in corrections	12
Total	21

For the Associate of Arts Degree in Corrections— Two-Year Program:

	Sem. Hrs.
Corrections 201, 301, 320, 390	12
Advanced Corrections electives	9
Sociology 101, 203, 354, and 374	12
Social Work 210 and 315	6
Political Science 380	3
Psychology 154 or 155	3
English 101, 102 and 192	9
Mathematics 131	3
Approved electives	7
Total	64

Suggested Programs

The following programs have been devised to help students in selecting their courses and arranging their schedules. These suggested programs need not be followed specifically from semester to semester, but close adherence to them will aid the student in meeting all requirements for graduation.

The Provisional High School Certificate with a Major in Sociology*

FRESHMAN YEAR

First Semester

Eng 101—Composition I	3
PE—Activity course	1
Sci—Biological Science	3
Soc 101—General Sociology	3
Psy 154—Life-Oriented General Psychology	3
Humanities elective	3
Total	16

Second Semester

Eng—Composition elective	3
PE—Activity course	1
Sci—Physical Science	3
Soc—Elective (200 level)	3
Elective	1
Math—Elective	3
Hlth 150—Personal Health	2
Total	16

SOPHOMORE YEAR

First Semester

Eng—Literature elective	3
Ed 209—Foundations of Secondary Education	2
Soc. Sci. elective	3
Minor elective	3
Soc—Elective	3
Elective	2
Total	16

Second Semester

Phil 200—Intro. to Phil.	3
Minor electives	6
Soc. Sci. elective	3
Soc. 305—Cult. Anthropology	3
Elective	1
Total	16

Bachelor of Social Work

FRESHMAN YEAR

First Semester

Eng 101—Composition I	3
PS 242—State and Local Government	3
Psy 154—Life-oriented General Psychology	3
Soc 101—General Sociology	3
Hlth 150—Personal Health	2
PE—Activity	2
Total	16

Second Semester

Eng—Composition Elective	3
Econ 101—Intro. to the American Economy	3
SW 210—Orientation to Social Welfare	3
Phil 200—Introduction to Philosophy	3
General electives	4
Total	16

SOPHOMORE YEAR

First Semester

Eng—Literature elective	3
Soc 203—Contemporary Social Problems	3

SW 230—Social Work Values & Policy	3
Math—Elective	3
Sci 103—Intro. to Physical Science	3
Total	15

Second Semester

SW 322—Human Behavior in the Social Environment	3
Sci 105—Intro. to Biological Sciences	3
SW—Elective	3
PS 380—American Courts & Civil Rights	3
Hum—Elective (Speech suggested)	3
Elective (History suggested)	3
Total	18

JUNIOR YEAR

First Semester

SW 325—Social Work Basic Skills	3
SW 310—Field Experience in Social Work	3
Psy 390—Psychology of Personality	3
or	
Psy 590—Abnormal Psychology	3
Soc 305—Cultural Anthropology	3
SW—Elective	3
Total	15

Second Semester

Soc 354—Social Psychology	3
Soc 374—American Minority Problems	3
Soc 505—Sociological Theory	3
or	
Soc 510—Advanced General Sociology	3
SW—Elective	3
General electives	6
Total	18

SENIOR YEAR

First Semester

SW 525—Social Work Advanced Skills	3
SW 510—Practicum in Social Work	6
SW 530—Social Policy and Planning	3
Eng 591—or	
Eng 592—Technical Writing	3
Total	15

Second Semester

SW 490—Senior Seminar	3
SW 389—Social Science Statistics	3
or	
SW 550—Research Methodology	3
General electives	9
Total	15

Bachelor of Arts in Corrections

FRESHMAN YEAR

First Semester

Eng 101—Composition I	3
PE—Activity course	1
Sci—Biological Science	3
Soc 101—General Sociology	3
Elective	3
Total	16

Second Semester

Eng—Composition elective	3
PE—Activity Course	1
Sci—Physical Science	3
Soc 203—Contemporary Social Problems	3
Cor 201—Introduction to Corrections	3
Humanities elective	3
Total	16

SOPHOMORE YEAR

First Semester

Eng—Literature elective	3
Hlth 150—Personal Health	2
Soc 354—Social Psychology	3
Cor 301—Contemporary Treatment Concepts	3
Sci—Elective	3
Elective	2
Total	16

Second Semester

Soc 374—American Minority Problems	3
Cor 320—Probation and Parole	3
Eng 591—Technical Writing	3
Humanities elective	3
Electives	4
Total	16

*Junior and senior year programs may be worked out with adviser.

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

Sociology 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.

Sociology 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.

Sociology 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.

Sociology 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.

Sociology 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.

Sociology 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.

Sociology 305. Cultural Anthropology. (3-0-3); I, II, III. An introduction with special emphasis on man's biological and cultural development.

Sociology 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.

Sociology 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.

Sociology 323. Urban Sociology. (3-0-3); II. The rise of modern cities; theoretical explanations of urbanization; and the analysis of modern urban problems.

Sociology 354. Social Psychology. (3-0-3); I, II. The influence of group processes on individual behavior. Topics covered include personality formation, social perception, conformity and deviance, attitude formation and change; small group behavior and leadership patterns.

Sociology 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 intergroup relations; the reactions of minorities to their disadvantaged status; and means by which prejudice and discrimination may be combated.

Sociology 375. The Teaching of Social Studies. (3-0-3); I, II. (See History 375.) (Does not count in the major or minor.)

Sociology 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.

Sociology 389. Social Science Statistics. (2-2-3); II. Basic statistical methods applicable to the social sciences. Frequency distribution; charts and graphs; measures of central tendency and dispersions; probability theory; point and interval estimation; hypothesis testing; analysis of variance; regression and correlation; sampling.

Sociology 476. Special Problems. (One to three hours); I, II, III. Arranged with the department to study some particular aspect of the field of sociology.

Sociology 501. Criminology. (3-0-3); I, II, III. Cause, treatment and prevention of crime.

Sociology 505. 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.

Sociology 510. Advanced General 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.

Sociology 515. Advanced Family Analysis. (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.

Sociology 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.

Sociology 540. Gerontology. (3-0-3); I, II. (See Social Work 540.)

Sociology 545. Death and Dying. (3-0-3); on demand. (See Social Work 545.)

Sociology 550. 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.

Social Work

Social Work 210. Orientation to Social Welfare. (3-0-3); 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.

Social Work 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.

Social Work 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.

Social Work 315. Child Welfare Services. (3-0-3); I, II. Local, state, and national programs and services for care, protection, and support of children.

Social Work 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.

Social Work 325. Social Work Basic Skills. (3-0-3); I, II. The course is designed to give the student an understanding of the social work principles, practice skills, and processes which are essential in facilitating change in various individual and social systems.

Social Work 389. Social Science Statistics. (2-2-3); I, II. (See Sociology 389.)

Social Work 490. Senior Seminar. (3-0-3); 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.

Social Work 500. Special Problems. (1-3); I, II, III. Arranged with department to study a particular topic in the social work field.

Social Work 510. Practicum in Social Work. (0-0-6); 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.

Social Work 515. Correctional Counseling. (3-0-3); II. (See Corrections 515.)

Social Work 520. 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.

Social Work 525. Social Work Advanced Skills. (3-0-3); I, II. The course is designed to give the student an understanding of how the

application of the basic social work problem-solving methods and systems analysis are applied to group work and community organization.

Social Work 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.

Social Work 535. Group Dynamics. (3-0-3); I. This course is designed to give the student an understanding of group method 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.

Social Work 540. Gerontology: Problems and Services to the Aging. (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.

Social Work 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.

Social Work 550. Research Methodology. (3-0-3); I, II, III.
(See Sociology 550.)

Corrections

Corrections 210. 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.

Corrections 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.

Corrections 306. Juvenile Delinquency. (3-0-3); I, II.
(See Sociology 306.)

Corrections 310. The Sociology of Deviance. (3-0-3); I, II.
(See Sociology 310.)

Corrections 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.

Corrections 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.

Corrections 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.

Corrections 501. Criminology. (3-0-3); I, II, III.
(See Sociology 501.)

Corrections 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.

Corrections 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.

Corrections 515. Correctional Counseling Services. (3-0-3); on demand. The basic concepts and principles involved in interviewing, counseling, group therapy, etc., which are employed in correctional facilities.

Corrections 550. Research Methodology. (3-0-3); I, II, III.
(See Sociology 550.)

Corrections 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.

DEPARTMENT OF MILITARY SCIENCE

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 military service upon graduation.

National Security (NS 100)

This is an elective course covering the various aspects of America's security system. The course is structured around a series of guest lecturers whose subjects concern the establishment and maintenance of our nation's security. The course, which carries one semester hour of credit, is offered to all students.

Military Science Minor

	Sem. Hrs.
* NS 101, 102.....	4
* MS 201, 202.....	4
MS 301, 302.....	4
MS 401, 402.....	4
	16

Electives of particular interest and value to military service..... 7 to 9 hrs.
Total 23

*Placement credit for these courses may be given to veterans, graduates of college level ROTC summer programs, and participants in high school level ROTC programs.

The following criteria must be met by all students in order to minor in military science:

1. Acceptance into the advanced course.
2. A cumulative grade-point average of 2.3 or higher.
3. A grade-point average of 2.5 or better in 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.

Scholarship Program

The U.S. Army Scholarship Program provides financial

assistance to highly qualified, highly motivated students who are in the ROTC program.

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.

Military Science 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.

Military Science 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.

Military Science 111. Basic Rifle Marksmanship. (1-0-1). Techniques, skills, and procedures used in Basic Rifle Marksmanship and competitive rifle matches.

Military Science 201. Leadership Principles and Techniques. (2-0-2); I. Study of leadership and management principles and techniques related to both military and civilian applications.

Military Science 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.

Military Science 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.

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

Military Science 339. Cooperative Education in Military Leadership. (4-0-4); III. Attendance at ROTC Advanced Summer Camp (six weeks in duration).

Military Science 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.

Military Science 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.

PERSONAL DEVELOPMENT INSTITUTE

The Personal Development Institute serves the public schools, industry, higher education, government, clubs and volunteer civic groups. The Institute provides the opportunity for individuals and groups on campus to enroll for a definite period of time as well as off-campus groups for education, government, civic clubs and volunteer organizations to participate in workshops and seminars.

The Personal Development Institute was established to encourage the development of the personal values and standards of moral and ethical character in the individuals who enroll. The objectives of the Personal Development Institute are:

1. To identify and better understand the forces that affect the personal development potential of students and adults in today's changing social, economic, and professional climate.
2. To develop in those who attain knowledge and skills, confidence, poise, personal appearance, and self-assurance.
3. To assist the student in a realistic assessment of himself and his surroundings.
4. To develop in the student a set of personality traits to carry him to the successful completion of any endeavor.
5. To assist the student in developing attractive voice quality, good speech habits and the art of conversation.

Personal Development Institute 100. Personal Development. (1-0-1). This is an elective course structured in the Institute format. The course carries one semester hour of credit and 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.

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 John Vanhooose, instructor, M.S., Morehead State University, at MSU since 1976
 Thomas M. Vogl, assistant professor, B.S., Creighton University, at MSU since 1976
 Minton E. Whitt, assistant professor, Ed.S., Eastern Kentucky University, at MSU since 1968

Department of Nursing and Allied Health

Doris E. Blair, autotutorial laboratory coordinator, R.N., Western State University and Rutgers University, at MSU since 1977
 Janice Brumagen, assistant professor, M.A., Morehead State University, at MSU since 1972
 Diane Childs, instructor, B.S.N., University of Delaware, at MSU since 1975 (Leave)
 Gail Franks, instructor (part-time), B.S., University of Kentucky, at MSU since 1977
 Susan Hamlin, instructor (part-time), B.S., Berea College, at MSU since 1977
 Jane Ray Kelly, associate professor, M.A., Murray State University, at MSU since 1973
 Marilyn Maud, assistant professor, M.H.E., Morehead State University, at MSU since 1973
 Betty Nordholm, assistant professor, M.S.N., University of Kentucky, at MSU since 1973
 Betty M. Porter, assistant professor, M.H.E., Morehead State University, at MSU since 1971
 Pauline Ramey, assistant professor, M.H.E., Morehead State University, at MSU since 1973
 Virginia Shifley, assistant professor, MS., University of Kentucky, at MSU since 1977
 Rosemary Stokes, instructor, R.N. Mercy Hospital School of Nursing, at MSU since 1976
 Elizabeth L. Tapp, assistant professor, M.S., Morehead State University, at MSU since 1972
 Pamela Thompson, instructor, B.S.N., Eastern Kentucky University, at MSU since 1975

Faculty, School of Business and Economics

Department of Accounting

John M. Alcorn, assistant professor, M.B.A., Georgia State University, at MSU since 1976
 John Graham, assistant professor, M.H.E., Morehead State University, at MSU since 1967
 Robert E. Hansen, professor, D.B.A., Indiana University, at MSU since 1974
 Christopher Kitchen, assistant professor, M.B.A., Morehead State University, at MSU since 1974
 John W. Osborne, assistant professor, M.B.A., Eastern Kentucky University, at MSU since 1977
 David Rees, assistant professor, M.A., Utah State University, at MSU since 1976
 William Sharp, instructor, M.B.E., Morehead State University, at MSU since 1970
 Larry Stephenson, assistant professor, M.A., Morehead State University, at MSU since 1967
 Gary VanMeter, assistant professor, M.B.A., Southern Illinois University, at MSU since 1976

Department of Business Administration

Joseph D. Barber, assistant professor, M.B.A., Miami University (Ohio), at MSU since 1976
 Richard P. Baxter, professor, Ph.D., Michigan State University, at MSU since 1973

Larry Brumbaugh, assistant professor, M.S., University of Kentucky, at MSU since 1976
 Ying I. Chien, associate professor, Ph.D., University of Kentucky, at MSU since 1972
 Alex D. Conyers, associate professor, M.B.A., University of Kentucky, at MSU since 1958
 Robert R. Irwin, assistant professor, M.B.A., Cornell University, at MSU since 1976
 David F. Kephart, assistant professor, M.S., University of Arizona, at MSU since 1974
 Eugene Martin, professor, Ed.D., University of Cincinnati, at MSU since 1972
 Buddy Salyer, instructor (part-time), J.D., University of Kentucky, at MSU since 1973
 James E. Thomas, assistant professor, Ph.D., Michigan State University, at MSU since 1976
 Vinson A. Watts, assistant professor, M.A., Eastern Kentucky University, at MSU since 1968
 Charles West, associate professor, M.B.A., Cornell University, at MSU since 1974
 William M. Whitaker, III, professor, Ph.D., University of Kentucky, at MSU since 1975

Department of Business Education

Anna Marie Burford, assistant professor, A.M., Western Kentucky University, at MSU since 1967
 Jack Henson, assistant professor, M.S.E., Arkansas State University, at MSU since 1970
 Ernest E. Hinson, associate professor, A.M., George Peabody College, at MSU since 1967
 Sue Y. Luckey, associate professor, A.M., Appalachian State University, at MSU since 1963
 George F. Montgomery, professor, Ed.D., University of North Dakota, at MSU since 1969
 Carole C. Morella, assistant professor, M.A., Morehead State University, at MSU since 1966
 Helen K. Northcutt, assistant professor, A.M., Morehead State University, at MSU since 1966
 Gail C. Ousley, assistant professor, M.B.E., Morehead State University, at MSU since 1969
 Mildred L. Quinn, associate professor, Ed.D., University of Kentucky, at MSU since 1968
 James M. Smiley, associate professor, Ph.D., Ohio State University, at MSU since 1973
 Steve Schafer, instructor, M.A., Morehead State University, at MSU since 1970

Department of Economics

Stephen J. Buckley, assistant professor, M.A., University of Missouri-Columbia, at MSU since 1976
 Charles Buechel, assistant professor, M.A., University of Kentucky, at MSU since 1976
 Joe B. Copeland, assistant professor, Ph.D., University of Arkansas, at MSU since 1975
 Louis S. Magda, professor, Ph.D., Jozsef Nador University, at MSU since 1966
 Thomas C. Morrison, professor, Ph.D., North Carolina State University, at MSU since 1969

Faculty, School of Education

Department of Administration, Supervision, and Secondary Education

Sherman Arnett, assistant professor, M.A., Morehead State University, at MSU since 1972
 Reedus Back, professor, Ed.D., University of Kentucky, at MSU since 1962
 Russell Bowen, Jr., professor, Ed.D., University of Kentucky, at MSU since 1969
 Buford Crager, assistant professor, M.H.E., Morehead State University, at MSU since 1967
 Jerry Franklin, assistant professor, M.Ed., Xavier University, at MSU since 1969

Harry Gilbert, assistant professor, M.A., University of Kentucky, at MSU since 1969
 Lawrence E. Griesinger, professor, Ed.D., University of Cincinnati, at MSU since 1965
 Rondal Hart, associate professor, M.S., Morehead State University, at MSU since 1958
 Charles Hicks, professor, Ph.D., Southern Illinois University, at MSU since 1971
 Elaine R. Kirk, assistant professor, M.Ed., University of Louisville, at MSU since 1964
 Harry C. Mayhew, associate professor, Ed.D., Ball State University, at MSU since 1963
 Michael McCord, associate professor, Ed.D., University of Georgia, at MSU since 1974
 Rodney Don Miller, associate professor, Ed.D., Indiana University, at MSU since 1966
 Billy F. Moore, associate professor, Ph.D., University of Iowa, at MSU since 1970
 Ottis Murphy, professor, Ed.D., University of Kentucky, at MSU since 1968
 Robert C. Needham, professor, Ed.D., University of Kentucky, at MSU since 1961
 Ben K. Patton, Jr., professor, Ph.D., Louisiana State University, at MSU since 1960
 James E. Pack, associate professor, Ph.D., Miami University, at MSU since 1977
 John W. Payne, professor, Ed.D., University of Kentucky, at MSU since 1969
 James H. Powell, professor, Ed.D., University of Kentucky, at MSU since 1968
 Randall Wells, associate professor, M.A., Morehead State University, at MSU since 1968
 Clark D. Wotherspoon, professor, Ed.D., North Texas State University, at MSU since 1966

Department of Adult, Counseling and Higher Education

C. J. Bailey, visiting instructor, M.A.C.E., Morehead State University, at MSU since 1971
 Wanda Bigham, instructor, M.H.E., Morehead State University, at MSU since 1973
 James Bolen, assistant professor, Ed.D., University of Kentucky, at MSU since 1974
 Richard Daniel, associate professor, Ed.D., North Carolina State University, at MSU since 1976
 Paul F. Davis, professor, Ed.D., Indiana University, at MSU since 1966
 John R. Duncan, professor, Ed.D., Indiana University, at MSU since 1964
 George W. Eyster, associate professor, Ed.S., Michigan State University, at MSU since 1968
 Charles F. Martin, professor, Ed.D., University of Kentucky, at MSU since 1970
 Morris Norfleet, professor, Ph.D., Purdue University, at MSU since 1962
 Dean Owen, assistant professor, Ph.D., University of Florida, at MSU since 1977
 Robert E. Peters, associate professor, Ph.D., Ohio State University, at MSU since 1970
 William Pierce, associate professor, Ed.D., Wayne State University, at MSU since 1964
 Linda Ratliff, assistant professor, Ed.D., University of Virginia, at MSU since 1975
 Harold Rose, professor, Ph.D., Florida State University, at MSU since 1968
 Stephen Taylor, associate professor, Ph.D., Florida State University, at MSU since 1973
 Dan Thomas, associate professor, Ph.D., University of Southern Mississippi, at MSU since 1969
 William Weikel, assistant professor, Ph.D., University of Florida, at MSU since 1975

Department of Elementary and Early Childhood Education

- Kathleen Barr, assistant professor, M.A., University of Arizona, at MSU since 1973
Joseph Baust, associate professor, Ed.D., University of Tennessee, at MSU since 1977
Leonard Burkett, professor, Ed.D., University of Kentucky, at MSU since 1967
Kent Freeland, assistant professor, Ph.D., University of Iowa, at MSU since 1977
Coletta Grindstaff, assistant professor, A.M., East Tennessee State University, at MSU since 1969
William Hampton, professor, Ed.D., University of Kentucky, at MSU since 1959
Noah Logan, associate professor, Ed.D., University of Missouri, at MSU since 1966
Mary Northcutt, professor, Ed.D., George Peabody College, at MSU since 1955
Diane Ris, S.P., assistant professor, Ed.D., Ball State University, at MSU since 1977
Layla Sabie, associate professor, Ed.D., George Peabody College, at MSU since 1965
John Stanley, associate professor, M.S., Mississippi State College, at MSU since 1964
Kelly Thompson, associate professor, Ed.D., University of Alabama, at MSU since 1974
Patricia Watts, assistant professor, M.H.E., Morehead State University, at MSU since 1970

Department of Health, Physical Education and Recreation

- John E. Allen, assistant professor, M.A., Morehead State University, at MSU since 1954
Earl J. Bentley, professor, Ed.D., University of Southern Mississippi, at MSU since 1959
Laradean Brown, assistant professor, M.A., Morehead State University, at MSU since 1972
W. Michael Brown, associate professor, Ph.D., University of Southern Mississippi, at MSU since 1966
Rod Butler, instructor, M.A., University of Illinois, at MSU since 1977
Rex Chaney, associate professor, R.E.D., Indiana University, at MSU since 1961
Donna Clark, instructor (part-time), M.A., Morehead State University, at MSU since 1977
A. L. Dawson, assistant professor, M.A., Georgetown College, at MSU since 1973
Steve Hamilton, instructor, M.A., Morehead State University, at MSU since 1976
Jim Hastings, assistant instructor, B.A., Morehead State University, at MSU since 1977
Bruce Herdman, assistant instructor, B.A., Youngstown State, at MSU since 1977
Kathryn Kincer, instructor, MS., Furman University, at MSU since 1977
Edward Lucke, professor, Ed.D., George Peabody College, at MSU since 1969
Sue Lucke, assistant professor, M.A., Morehead State University, at MSU since 1969
William J. Mack, assistant professor, M.A., University of Kentucky, at MSU since 1957
Michael Mincey, instructor, M.A., Morehead State University, at MSU since 1975
G. E. Moran, associate professor, M.A., West Virginia University, at MSU since 1974
Rafford Mullins, instructor, M.S., Morehead State University, at MSU since 1972
Elizabeth Nesbitt, assistant professor, M.Ed., University of Southern Mississippi, at MSU since 1973
Howard Nesbitt, professor, Ed.D., Columbia University, at MSU since 1973
Gretta Gaye Osborne, assistant professor, M.A., Ball State University, at MSU since 1965

- James Osborne, assistant professor, M.A., Morehead State University, at MSU since 1967
Richard Rachel, assistant instructor, A.B., Parsons College, at MSU since 1976
Paul A. Raines, professor, Ph.D., University of Iowa, at MSU since 1966
James Russell, instructor, M.Ed., University of Mississippi, at MSU since 1974
Mohammed Sabie, professor, Ed.D., George Peabody College, at MSU since 1964
George A. Sadler, associate professor, M.A., Western Kentucky University, at MSU since 1966
Mark Sheehan, instructor, B.A., Morehead State University, at MSU since 1976
Patricia Sorenson, instructor (part-time), M.A., Morehead State University, at MSU since 1977
Harry F. Sweeney, associate professor, Ed.D., University of Tennessee, at MSU since 1969
Charles B. Thompson, professor, Ed.D., University of Southern Mississippi, at MSU since 1963
Isaac Unseld, instructor, M.A., Morehead State University, at MSU since 1974
Robert M. Wells, assistant professor, M.A., Morehead State University, at MSU since 1966
Larry Wilson, assistant professor, M.A. Morehead State University, at MSU since 1968
Steve Wright, instructor, M.A., Morehead State University, at MSU since 1969

Coaches

- Wayne Chapman, head football coach, M.A., Morehead State University, at MSU since 1976
Jack Schalow, head basketball coach, B.S., University of the Pacific, at MSU since 1974

Department of Library Science and Instructional Media

- Thompson R. Cummins, assistant professor, MLS, Indiana University, at MSU since 1977
Opal LeMaster, assistant professor, M.A., Marshall University, at MSU since 1965
William T. Rosenberg, assistant professor, A.M., Morehead State University, at MSU since 1970
Stephen Young, assistant professor, M.A., Morehead State University, at MSU since 1968

Department of Psychology and Special Education

- Daniel Berch, associate professor, Ph.D., University of New Mexico, at MSU since 1975
M. Adele Berrian, professor, Ph.D., University of Colorado, at MSU since 1964
Alan W. Childs, assistant professor, Ph.D., University of Tennessee, at MSU since 1975
L. Bradley Clough, professor, Ph.D., University of Connecticut, at MSU since 1966
Carol Ann Georges, assistant professor, M.A., University of Kentucky, at MSU since 1970
James E. Gotsick, professor, Ph.D., Syracuse University, at MSU since 1968
Anna L. Hicks, assistant professor, Ed. Spec., Southern Illinois University, at MSU since 1971
Robert Monahan, assistant professor, A.M., Marshall University, at MSU since 1970
Francis Osborne, professor, Ph.D., Syracuse University, at MSU since 1967
Larry D. Smyth, assistant professor, Ph.D., Michigan State University, at MSU since 1976
George S. Tapp, associate professor, Ph.D., University of Kentucky, at MSU since 1968
George E. Troutt, Jr., professor, Ph.D., University of Connecticut, at MSU since 1976

University Breckinridge School

- Elizabeth Anderson, assistant professor, A.M., Morehead State University, at MSU since 1966

Shirley Blair, instructor, A.M., Morehead State University, at MSU since 1970
 Frank Burns, assistant professor, M.A., Morehead State University at MSU since 1973
 Nell Collins, assistant professor, A.M., University of Kentucky, at MSU since 1969
 Kathryn Crusie, instructor, M.A., Morehead State University, at MSU since 1974
 Larry Dales, assistant professor, A.M., Brigham Young University, at MSU since 1967
 Thomas Daugherty, instructor, M.A., Morehead State University, at MSU since 1973
 Dienzel Dennis, assistant professor, A.M., Eastern Kentucky University, at MSU since 1966
 Joy Dennis, instructor, A.M., Morehead State University, at MSU since 1966
 Gretta Duncan, assistant professor, A.M., Morehead State University, at MSU since 1968
 Charlotte Gillum, assistant professor, A.M., Morehead State University, at MSU since 1970
 Karen Hammons, instructor, M.A.C.E., Morehead State University, at MSU since 1972
 Coleene Hampton, instructor, A.M., Morehead State University, at MSU since 1973
 Terry Hoffman, assistant professor, M.A., Morehead State University, at MSU since 1971
 Lois Howell, instructor, A.M., Morehead State University, at MSU since 1972
 Lois Huang, assistant professor, A.M., University of Michigan, at MSU since 1969
 Bernice Jackson, assistant professor, A.M., Morehead State University, at MSU since 1959
 Mary Lynn Jordan, instructor, Ed.S., Morehead State University, at MSU since 1975
 Paul B. Kozma, instructor, MA., Morehead State University, at MSU since 1977
 Jessie Mangrum, instructor, A.M., Morehead State University, at MSU since 1968
 Hazel Martin, instructor, M.A., Miami University, at MSU since 1965
 Michael R. Newman, assistant instructor (part-time), A.B., Marshall University, at MSU since 1977
 Dreama Price, instructor, M.A., Morehead State University, at MSU since 1974
 Roy L. Pyle, assistant instructor (part-time), B.M.E., Morehead State University, at MSU since 1975
 James Reeder, assistant professor, A.M., Morehead State University, at MSU since 1968
 Elizabeth Sadler, assistant professor, A.M., Western Kentucky University, at MSU since 1966
 Joyce Saxon, assistant professor, A.M., Morehead State University, at MSU since 1964
 Sue Wells, assistant professor, A.M., Morehead State University, at MSU since 1968

Faculty, School of Humanities

Department of Art

Douglas G. Adams, associate professor, M.A., Morehead State University, at MSU since 1967
 Franz Altschuler, assistant professor, B.A., Illinois Institute of Technology, at MSU since 1978
 Bill R. Booth, professor, Ph.D., University of Georgia, at MSU since 1970
 Louise T. Booth, instructor (part-time), M.A., George Peabody College, at MSU since 1971
 Ryan Howard, associate professor, Ph.D., University of Michigan, at MSU since 1972
 Roger H. Jones, associate professor, Ed.D., Indiana University, at MSU since 1965
 Jose M. Maortua, professor, M.F.A., Maryland Institute College of Art, at MSU since 1965

Gene Pyle, assistant professor, A.B., Colorado College; Dip., Kansas City Art Institute, at MSU since 1972
 Joe D. Sartor, assistant professor, M.A., University of Missouri, at MSU since 1968
 Maurice Strider, associate professor, M.A., University of Kentucky, at MSU since 1966
 Donald B. Young, assistant professor, M.A., Morehead State University, at MSU since 1967

Department of Communications

Richard Bayley, associate professor, Ph.D., University of Illinois, at MSU since 1976
 W. David Brown, associate professor, M.A., Louisiana State University, at MSU since 1966
 George Burgess, assistant professor, M.A., Morehead State University, at MSU since 1964
 Joyce Crouch, instructor, M.A., Morehead State University, at MSU since 1975
 Myron Doan, instructor, M.M.E., Morehead State University, at MSU since 1976
 Howard Gee, instructor, M.A., University of Utah, at MSU since 1977
 Harlen Hamm, assistant professor, A.M., Bowling Green State University, at MSU since 1965
 Martin Huffman, instructor, B.S., Morehead State University, at MSU since 1967
 Keith Kappes, instructor, M.H.E., Morehead State University, at MSU since 1969
 Sylvia Layne, instructor (part-time), M.A., University of Northern Colorado, at MSU since 1976
 William J. Layne, associate professor, Ph.D., Northwestern University, at MSU since 1971
 Gaylon Eugene Murray, assistant professor, M.A., Ohio University, at MSU since 1968
 Larry Netherton, assistant professor, A.M., Morehead State University, at MSU since 1968
 Marvin J. Philips, associate professor, M.F.A., Carnegie Institute of Technology, at MSU since 1967
 James E. Quisenberry, professor, Ph.D., Ohio University, at MSU since 1968
 David Ricker, assistant instructor, B.A., DePauw University (Indiana), at MSU since 1977
 Mark Rowe, instructor, M.A., Morehead State University, at MSU since 1976
 Don Russell, instructor, M.A., Morehead State University, at MSU since 1976
 James Sawyer, assistant professor, M.S., Syracuse University, at MSU since 1976
 Tom E. Scott, III, instructor, M.A., Morehead State University, at MSU since 1976
 Sandra Shackleford, instructor (part-time), M.A., Morehead State University, at MSU since 1976
 Marcia Timmel, instructor, M.A., Wake Forest University, at MSU since 1977
 Frederick Voigt, professor, Ph.D., Southern Illinois University, at MSU since 1966
 Roger Weaver, assistant instructor, B.A., Morehead State University, at MSU since 1977
 Jack E. Wilson, professor, Ph.D., Michigan State University, at MSU since 1967
 Thomas L. Yancy, instructor, B.S., University of Texas at Austin, at MSU since 1977

Department of Languages and Literature

Lewis W. Barnes, professor, D. Lit., Ph.D., London University (England) at MSU since 1963
 Ruth B. Barnes, professor, D.Lit., Ph.D., London University (England) at MSU since 1963
 Hazel H. Calhoun, assistant professor, A.M., George Peabody College, at Morehead since 1965
 Glenna E. Campbell, assistant professor, M.A., Morehead State University, at MSU since 1966
 Joyce B. Chaney, assistant professor, M.A., Morehead State University, at MSU since 1961

Robert A. Charles, professor, Ph.D., Pennsylvania State University, at MSU since 1971
 Betty M. Clarke, assistant professor, M.A., Morehead State University, at MSU since 1965
 Donald H. Cunningham, professor, Ph.D., University of Missouri, at MSU since 1972
 G. Ronald Dobler, professor, Ph.D., University of Iowa, at MSU since 1972
 Marc D. Glasser, associate professor, Ph.D., Indiana University, at MSU since 1972
 Bernard G. Hamilton, assistant professor, A.M., University of Mississippi, at MSU since 1963
 Frances L. Helphinstine, assistant professor, M.A., Morehead State University, at MSU since 1966
 Ina M. Lowe, assistant professor, M.A., Morehead State University, at MSU since 1970
 George A. Mays, assistant professor, M.H.E., Morehead State University, at MSU since 1969
 Edward E. Morrow, assistant professor, A.M., George Peabody College, at MSU since 1961
 Olga Mourino, professor, Ph.D., Universidad de la Habana (Cuba), at MSU since 1963
 Mary M. Netherton, assistant professor, M.A., University of Kentucky, at MSU since 1964
 Rose Orlich, associate professor, Ph.D., Notre Dame University, at MSU since 1970
 Essie C. Payne, assistant professor, A.M., Auburn University, at MSU since 1966
 Charles Pelfrey, professor, Ph.D., University of Kentucky, at MSU since 1962
 Glenn C. Rogers, associate professor, Ph.D., University of North Carolina, at MSU since 1967
 Judy Rogers, associate professor, Ph.D., University of North Carolina, at MSU since 1967
 M. K. Thomas, professor, Ed.D., Tulsa University, at MSU since 1964
 Emma Troxel, assistant professor, A.M., George Peabody College, at MSU since 1967
 Victor A. Venetozzi, associate professor, M.A., Morehead State University, at MSU since 1960

Department of Music

Walter L. Barr, associate professor, Ed.D., Arizona State University, at MSU since 1973
 Anne Beane, instructor (part-time), M.A., Morehead State University, at MSU since 1972
 James R. Beane, associate professor, M.M., Louisiana State University, at MSU since 1959
 William M. Bigham, professor, Ph.D., Florida State University, at MSU since 1965
 Harold Leo Blair, assistant professor, M.F.A., Ohio University, at MSU since 1975
 Suanne H. Blair, assistant professor (part-time), M.M., University of Southern California, at MSU since 1966
 James W. Bragg, associate professor, M.M., New England Conservatory of Music, at MSU since 1963
 Martin Crum, assistant instructor, B.M., Morehead State University, at MSU since 1976
 Johnson E. Duncan, professor, Ph.D., George Peabody College, at MSU since 1956
 Joe W. Figg, assistant professor, M.S., University of Illinois, at MSU since 1972
 R. Ray Flippin, assistant professor, M.M., Morehead State University, at MSU since 1969
 E. Glenn Fulbright, professor, Ph.D., Indiana University, at MSU since 1960
 Christopher S. Gallaher, associate professor, Ph.D., Indiana University, at MSU since 1972
 Pamela Hakl, assistant instructor, B.M., Indiana University, at MSU since 1975
 Robert V. Hawkins, professor, Ed.D., Columbia University, at MSU since 1967

Katherine Joanne Keenan, instructor (part-time), M.M., Morehead State University, at MSU since 1976
 Larry W. Keenan, associate professor, M.M., Indiana University, at MSU since 1967
 Milford Kuhn, assistant professor, M.M., University of Miami, at MSU since 1976
 Charles A. Lee, assistant professor, M.M., Morehead State University, at MSU since 1974
 Elizabeth Lee, instructor, MACE, Morehead State University, at MSU since 1977
 Earle L. Louder, associate professor, D.M., Florida State University, at MSU since 1968
 Edward Malterer, assistant professor, M.M., Northwestern University (Illinois), at MSU since 1977
 Frederick A. Mueller, professor, D.Mus., Florida State University, at MSU since 1967
 Eugene C. Norden, assistant professor, M.M., Morehead State University, at MSU since 1968
 Frank Oddis, instructor, M.M., East Carolina University, at MSU since 1977
 Karl A. Payne, assistant professor, M.M., Indiana University, at MSU since 1965
 Robert D. Pritchard, II, instructor, M.M., Duquesne University, at MSU since 1972
 John K. Stetler, associate professor, M.M., Wichita State University, at MSU since 1959
 Lucretia M. Stetler, assistant professor, M.M., Morehead State University, at MSU since 1964
 Vasile J. Venetozzi, assistant professor, M.M., Eastman School of Music, at MSU since 1966
 Russell White, instructor, B.M., University of Cincinnati, at MSU since 1977

Department of Philosophy

Betty R. Gurley, associate professor, Ph.D., Southern Illinois University, at MSU since 1969
 George M. Luckey, associate professor, M.A., University of Kentucky, at MSU since 1961
 Franklin M. Mangrum, professor, Ph.D., University of Chicago, at MSU since 1959

Faculty, School of Sciences and Mathematics

Department of Biological Sciences

David M. Brumagen, professor, Ph.D., University of Kentucky, at MSU since 1965
 Fred M. Busroe, assistant professor, M.A., University of Virginia, at MSU since 1967
 Gerald L. DeMoss, associate professor, Ph.D., University of Tennessee, at MSU since 1968
 Richard G. Eversole, assistant professor, M.A., Morehead State University, at MSU since 1965
 Margaret B. Heaslip, professor, Ph.D., Ohio State University, at MSU since 1955
 Allen L. Lake, associate professor, Ed.M., State University of New York at Buffalo, at MSU since 1957
 David T. Magrane, assistant professor, Ph.D., University of Arizona, at MSU since 1976
 Leslie E. Meade, assistant professor, M.S., Morehead State University, at MSU since 1971
 Ted Pass, III, associate professor, Ph.D., Virginia Polytechnic Institute and State University, at MSU since 1972
 Madison E. Pryor, professor, Ph.D., University of Tennessee, at MSU since 1964
 David J. Saxon, professor, Ph.D., Southern Illinois University, at MSU since 1967
 Howard L. Setser, associate professor, M.S., Kansas State University, at MSU since 1964
 James R. Spears, associate professor, Ph.D., University of Kentucky, at MSU since 1965

Center for Environmental Studies

Jerry F. Howell, Jr., professor, Ph.D., University of Tennessee, at MSU since 1972

Department of Mathematical Sciences

- Lake C. Cooper, associate professor, M.A., Morehead State University, at MSU since 1956
 Ben Flora, Jr., professor, Ph.D., Ohio State University, at MSU since 1972
 Johnnie G. Fryman, associate professor, Ed.D., University of Kentucky, at MSU since 1969
 Charles Rodger Hammons, associate professor, Ph.D., University of Kentucky, at MSU since 1971
 Glenn E. Johnston, professor, Ph.D., Texas Tech. University, at MSU since 1969
 Charlie L. Jones, associate professor, M.A., Morehead State University, at MSU since 1962
 Robert J. Lindahl, professor, Ph.D., University of Oregon, at MSU since 1970
 Nell F. Mahaney, assistant professor, M.A., Morehead State University, at MSU since 1963
 James D. Mann, assistant professor, M.M., University of South Carolina, at MSU since 1966
 Dixie M. Moore, assistant professor, M.A., Marshall University, at MSU since 1963
 Gordon Nolen, assistant professor, M.S., University of Kentucky, at MSU since 1967
 Steven F. Thomson, assistant professor, M.S., University of Kentucky, at MSU since 1976

Department of Physical Science**Chemistry**

- Charles J. Jenkins, associate professor, M.S., Auburn University, at MSU since 1959
 Charles A. Payne, professor, Ph.D., Auburn University, at MSU since 1966
 Lamar B. Payne, professor, Ph.D., University of Alabama, at MSU since 1962
 Toney C. Phillips, associate professor, M.A., George Peabody College, at MSU since 1951
 Verne A. Simon, professor, Ph.D., Florida State University, at MSU since 1968

Geoscience

- James R. Chaplin, associate professor, M.S., University of Houston, at MSU since 1961
 Jules R. DuBar, professor, Ph.D., University of Kansas, at MSU since 1967
 David K. Hylbert, professor, Ph.D., University of Tennessee, at MSU since 1963
 John C. Philley, professor, Ph.D., University of Tennessee, at MSU since 1960

Physics

- Russell M. Brengelman, professor, Ph.D., Georgia Institute of Technology, at MSU since 1967
 David R. Cutts, professor, Ph.D., University of Tennessee, at MSU since 1968
 Charles J. Whidden, professor, Ph.D., Virginia Polytechnic Institute and State University, at MSU since 1968

Department of Science Education

- Maurice E. Esham, associate professor, Ed.D., Virginia Polytechnic Institute and State University, at MSU since 1968
 William R. Falls, professor, Ed.D., Indiana University, at MSU since 1961
 Ronald L. Fiel, associate professor, Ed.D., Indiana University, at MSU since 1972
 Carl Victor Ramey, associate professor, Ed.D., Indiana University, at MSU since 1973

Faculty, School of Social Sciences**Department of Geography**

- Roland L. Burns, associate professor, Ed.D., University of Southern Mississippi, at MSU since 1972

- William T. Clark, professor, Ph.D., University of Kentucky, at MSU since 1964
 Gary C. Cox, professor, D.A., University of Northern Colorado, at MSU since 1970
 Robert B. Gould, professor, Ph.D., University of Tennessee, at MSU since 1963
 James R. Robinson, assistant professor, M.A., Morehead State University, at MSU since 1965

Department of History

- Elmer Anderson, assistant professor, M.A., Morehead State University, at MSU since 1966
 Donald F. Flatt, professor, Ph.D., University of Kentucky, at MSU since 1962
 John J. Hanrahan, professor, Ph.D., Fordham University, at MSU since 1969
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