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1976-77 Catalog

Eastern Kentucky University

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EASTERN KENTUCKY UNIVERSITY

General Catalog 1976-77



MEMBERSHIP ACCREDITATIONS

Member of

American Association of Colleges for Teacher Education

American Association of State Colleges and Universities

American Association of Collegiate Schools of Business

National Association for Business Teacher Education

Association for Field Services in Teacher Education

American Association of University Women

American Council on Education

American Technical Education Association

American Society of Allied Health Professions

Council of Graduate Schools in the United States

Accredited by

American Chemical Society

American Medical Record Association

Southern Association of Colleges and Schools

National Council for Accreditation of Teacher Education

National Association of Schools of Music

National League for Nursing (Associate Degree)

Bulletin

Vol. 67

July 1976

No. 1

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Catalog 1976-77



Eastern Kentucky University

BULLETIN • VOLUME 67 • NUMBER 1

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Eastern Kentucky University is an Equal Opportunity-Affirmative Action employer and does not discriminate on the basis of race, color, religion, sex, or national origin in the admission to, or participation in, any educational program or activity which it conducts, or discriminate on such basis in any employment opportunity. Any complaint arising by reason of alleged discrimination shall be directed in writing to Dr. Rebecca Broaddus, Jones Building, E.K.U. Campus, telephone number 622-1258.

The Board of Regents of Eastern Kentucky University does hereby reaffirm that neither race, nor creed, nor color, nor sex shall be a criterion for admission to any part of any program or activity conducted by Eastern Kentucky University.

Eastern Kentucky University is an equal educational opportunity institution.

*This bulletin was prepared by Eastern Kentucky University,
and paid from state funds.*

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UNIVERSITY ARCHIVES

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1976 — University Calendar — 1977

FIRST SEMESTER

- August 21 — Saturday
9:00 a.m. Assembly of Faculty and Administrative staff.
10:30 a.m. College and departmental meetings.
- August 22 — Sunday
10:00 a.m. Dormitories open.
3:30 p.m. President's greeting to parents, Hiram Brock Auditorium.
- August 23 — Monday
8:00 a.m. Orientation for new students not participating in summer orientation-registration program, and transfer students, Alumni Coliseum.
1:00 p.m. Registration of students in upper division colleges and graduate students.
- August 23 — Monday
1:00 p.m. ACT test for freshmen who have not previously taken this test and had scores reported to ECU-Combs 318.
- August 24 — Tuesday
8:00 a.m. Registration of students in upper division colleges and graduate students.
10:30-12 noon Previously enrolled Central University College students whose schedules were not approved in the spring should see advisors in their offices.
1:00 p.m. Registration of Central University College students.
- August 25 — Wednesday
8:00 a.m. Registration of Central University College students.
- August 26 — Thursday
Classes begin.
5:30-6:30 p.m. Registration of evening students enrolling in a Thursday night class.
- August 26-September 4
Late registration and schedule changes.
- August 28 — Saturday
8:00-10:00 a.m. Registration of evening and Saturday students.
10:30-11:30 a.m. All Saturday classes meet.
- August 30 — Monday
First day to apply for student teaching for Spring Semester, 1977.
- September 4 — Saturday
Last day to enter a class.
Last day to change from audit to credit.
- September 6 — Monday
Labor Day — No Classes.
- September 15 — Wednesday
Last day to:
— drop a class without a grade.
— change to or from "pass-fail".
— change from credit to audit.
- September 24 — Friday
Last day to apply for student teaching for Spring Semester, 1977.
- September 25 — Saturday
Undergraduate Record Examination for first semester graduates.
- October 22 — Friday
Mid-semester reports to Registrar.

- October 29 — Friday
 May and August, 1977 graduates must apply for graduation by this date in their college dean's office.
- November 2 — Tuesday
 Presidential Election Holiday — No Classes.
- November 23 — Tuesday
 Classes close at the end of the day for Thanksgiving holiday. Evening classes will meet as scheduled.
- November 29 — Monday
 Classes resume.
 Last day to drop a course.
- December 6-8
 Pre-registration for Spring Semester.
- December 13-18
 Final examinations.

SECOND SEMESTER

- December 6-8
 Pre-registration for Spring Semester.
- January 9 — Sunday
 12:00 noon Dormitories open for all students.
- January 10 — Monday
 Registration of students in upper division colleges and graduate students.
 Central University College advisors will be available in their offices. Advisors will be assigned to students not enrolled fall semester, 1976, in Room 130, Keith Building.
- January 11 — Tuesday
 Registration of students in Central University College.
- January 12 — Wednesday
 Registration of students in Central University College.
- January 13 — Thursday
 Classes begin.
 5:30-6:30 p.m. Registration of evening students enrolling in a Thursday night class.
- January 13-22
 Late registration and schedule changes.
- January 15 — Saturday
 8:00-10:00 a.m. Registration of evening and Saturday students.
 10:30-11:30 a.m. All Saturday classes meet.
- January 17 — Monday
 First day to apply for student teaching for Fall Semester, 1977.
- January 22 — Saturday
 Last day to enter a class.
 Last day to change from audit to credit.
- February 5 — Saturday
 Undergraduate Record Examination for May and August graduates.
- February 11 — Friday
 Last day to apply for student teaching in Fall Semester, 1977.
- February 21 — Monday
 Washington's Birthday — No Classes.
- March 11 — Friday
 Mid-semester reports to Registrar.

- March 14-19 Spring Vacation.
- March 21 — Monday
8:00 a.m. Class work resumes.
- April 8 — Friday
Good Friday — No Classes.
- April 14 — Thursday
Last day to drop a class.
- April 25-28
Pre-registration for Fall Semester.
- April 29 — Friday
December 1977 graduates must apply for graduation by this date in their college dean's office.
- May 9-14
Final examinations.
- May 15 — Sunday
Baccalaureate services and commencement exercises.
- May 30 — Monday
Memorial Day — No Classes.
- May 16-June 10
Spring Intersession.

SUMMER SCHOOL

- June 13 — Monday
Summer school registration.
- June 14 — Tuesday
8:00 a.m. Classes begin.
- June 16 — Thursday
Last day to:
— register for a full load.
— enter a course.
— change from audit to credit.
- June 22 — Wednesday
Last day to:
— drop a course without a grade.
— change from credit to audit.
— change to or from "pass-fail".
- July 4 — Monday
No Classes.
- July 15 — Friday
Last day to drop a course.
- August 4 — Thursday
Commencement.
- August 5 — Friday
Close of Summer School.
- August 8-20
August Intersession.

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EASTERN KENTUCKY UNIVERSITY . . .

Dedicated to Serving Kentucky Since 1906

Introduction

Eastern Kentucky University is a regional coeducational public institution of higher education offering general and liberal arts programs, pre-professional and professional training in education and various other fields at both the undergraduate and graduate levels. Located in Richmond, Madison County, Kentucky, Eastern has a distinguished record of more than six decades of educational service to the Commonwealth. The institution is recognized as one of the nation's leading producers of teachers with about half of its 33,900 graduates having entered the teaching profession.

Richmond is on the main line of the L & N Railroad, 112 miles south of Cincinnati, Ohio. Situated twenty-six miles southeast of Lexington, Kentucky, Richmond is conveniently reached by automobile over North-South Interstate 75 and over U. S. Route 25 (Dixie Highway) from Southeastern Kentucky. Richmond is also served by U. S. Route 227 and Kentucky Route 52. Combinations of major highways in the state with these highways make Richmond easily accessible from Eastern and Northeastern Kentucky as well as the Bluegrass and Central Kentucky area and the Metropolitan area of Louisville.

Completion of Interstate Highways, I-64 (East-West) and I-75 (North-South), and the Eastern Kentucky Turnpike, provide even greater convenience in automobile travel to Richmond, since the city is located near the convergence of these arterial highways.

Richmond, the county seat of Madison County, is an expanding community of approximately 17,000 population. Served by fine churches representing most Christian faiths, the community provides an excellent environment for the University student.

In and around Richmond are many areas of historic and scenic interest. Boonesborough State Park, birthplace of Kentucky, is located twelve miles to the north. Many other historical places are within easy driving distance. Scenic and recreational areas surround this section of the state.

History

The General Assembly of 1906 enacted legislation establishing the Eastern Kentucky State Normal School. Governor J. C. Beckham signed the bill into law on March 21, 1906, and on May 7 of that year, the Normal School Commission, meeting in Louisville, selected the campus of the old Central University, founded in 1874, in Richmond, Kentucky, as the site of the new school. On June 2, 1906, Ruric Nevel Roark was chosen President of the Normal School and the training of teachers was initiated.

In 1922, Eastern became a four-year institution known as the Eastern Kentucky State Normal School and Teachers College. The first degrees were awarded by this institution in 1925. In 1928, the College was accredited by the Southern Association of Colleges and Secondary Schools. In 1930, the General Assembly renamed the school as the Eastern Kentucky State Teachers College.

In 1935, a graduate program was approved at Eastern, leading to the Master of Arts in Education. In 1948, the General Assembly removed the word "Teachers" from the name of the College and granted the College the right to award non-professional degrees.

The most significant day since its founding came for Eastern February 26, 1966, when Governor Edward T. Breathitt signed into law a bill renaming the institution Eastern Kentucky University and sanctioning the awarding of graduate degrees in academic fields other than education.

During this period of time, Eastern Kentucky University has increased rapidly in size and stature. Beginning with a few students engaged in short review and certificate courses, the University today serves thousands of Kentucky's young men and women by offering a curriculum leading to the Associate of Arts, baccalaureate degrees and an expanding graduate program that presently offers degrees at the Master's level in many other fields as well as the already well-established Master of Arts degree in Education and the various fifth- and sixth-year leadership programs in education. Specialist degree programs have been implemented in Education and Technology. In addition to these programs, Eastern offers joint doctoral programs with cooperating institutions.

Ever-mindful of the purpose of its founding, Eastern continues to recognize its historic function of preparing quality teachers for the

elementary and secondary schools of the Commonwealth. However, a strong liberal arts curriculum leading to appropriate degrees, together with pre-professional courses in several areas and graduate programs, enable Eastern to uniquely serve the Commonwealth as a regional university.

Purpose

Within its statutory responsibilities, Eastern Kentucky University seeks to provide intellectual and cultural opportunities which will develop habits of scholarship and intellectual curiosity; which will provide a deep understanding of American democracy and the citizen's role in maintaining its strength and vitality; which will impart an understanding of man and his aspirations; which will enable effective and efficient communication; and which will prepare productive and responsive citizens. The University will remain responsive and flexible in order to serve in unique and needed ways.

Within these general responsibilities and purposes, the University has three specific functions — teaching, public service, and research — and places emphasis on the three in this order. Through its colleges and schools, the University seeks to offer quality instruction at a variety of degree levels in general education, the arts, the sciences, business, education, pre-professional and professional areas, and applied and technical disciplines. Through consultative services, continuing education, and the extended campus, the University seeks to provide service to the community and region. Research seeks both to advance knowledge in the subject matter areas with which the University is concerned and to support the primary function of teaching.

Central University College

The Central University College has two basic purposes: 1) to supervise and co-ordinate the General Education Program and 2) to supervise a centralized advising program to assist students during their first two years of academic work.

College of Allied Health and Nursing

The College of Allied Health and Nursing has as its major objective the education and preparation of students in the various health disciplines to provide graduates to serve in a variety of health care

programs and delivery systems. The college is committed to the preparation of personnel for new patterns of health care delivery to meet the challenges of a growing complex society. The programs in the College of Allied Health and Nursing are designed for students to meet necessary credentialing requirements for successful employment in their chosen health field.

College of Applied Arts and Technology

The specific purposes of the College of Applied Arts and Technology are stated in their order of emphasis: 1) to provide selected instructional programs for the preparation of people for careers in the applied arts and technologies; 2) to contribute to the professional growth of individuals in their careers and to the elevation of technical disciplines through public service; and 3) to intensify and broaden the base of knowledge within the applied arts and technologies through research.

College of Arts and Sciences

The College of Arts and Sciences has the following basic purposes: 1) to provide liberal arts courses for all undergraduate students in the university, some of which are designated general education courses; 2) to offer liberal arts courses leading to undergraduate and graduate degrees in arts and sciences; 3) to offer courses to prepare students for professional and pre-professional fields; 4) to provide academic specialization for students working for teacher certification in secondary education and to provide supporting courses for students working for teacher certification in elementary education; 5) to provide consultants from various disciplines for public service both in the state and in the nation as the need arises; and 6) to engage in research to advance knowledge and to improve classroom teaching methods.

College of Business

The purposes of the College of Business are: 1) to provide a wide variety of business subjects of general interest and technical instruction for people who have chosen business and accounting careers or the teaching of business as their field of interest; 2) to serve the community and region by encouraging the faculty to serve as consultants in their fields of specialization; and 3) to expand and advance knowledge by engaging in research in various fields of business.

College of Education

The major purposes of the College of Education are as follows: 1) to prepare teachers and other supporting school personnel; 2) to prepare certain non-school personnel for public service positions; 3) to provide public services to schools and other agencies it serves by making effective use of its faculty resources as consultants in their fields of specialization; and 4) to attain additional knowledge in the field of education by engaging in research on relevant issues.

College of Law Enforcement

The College of Law Enforcement has the following purposes: 1) to meet the needs of agencies in the public safety sector of society by preparing student personnel for careers within that sector and to upgrade the several agencies by providing the in-service professional with a sound educational foundation and the ability and knowledge to create a more viable professional group, organization, or agency; 2) to prepare student personnel for teaching and administrative careers in law enforcement and traffic safety; 3) to provide research in the broad areas of law enforcement and driver and traffic safety; 4) to provide public and consultative service programs pertinent to law enforcement and driver and traffic safety to public and private police agencies, probation and parole agencies, correctional institutions, universities and colleges, youth-service-oriented agencies, and administrators and supervisory personnel in the public safety sector.

Graduate School

The Graduate School has as its basic purpose the administrative responsibility of all programs beyond the baccalaureate level at the University. It is charged: 1) to provide coordination between the colleges in the development of the University's graduate offering; 2) to act as a central source of information; 3) to recruit, admit and register students in advanced programs; 4) to oversee the advising of graduate students; and 5) to coordinate the University's program of graduate assistantships.

Office for Community College Programs

The Office for Community College Programs has the following four basic functions: 1) to assist in the development, coordination,

and promotion of high quality instruction in a variety of technical, business, semi-professional, and service-oriented professions below the baccalaureate level; 2) to provide a centralized source of information and coordinate the dissemination of information on all programs offered within the university below the baccalaureate level; 3) to coordinate liaison between the University and the community and junior colleges within the state and region; and 4) to administer the special program of "student readmission" into associate degree programs.

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Expenses

Since registration and other fees and dormitory room rents are subject to change periodically, no attempt is made in this publication to itemize these costs. This information is available from the Office of Admissions prior to the beginning of each academic year.

Definition of Resident Student for Fee Assessment Purposes

The Policy on Classification of Student for Fee Assessment Purposes, adopted by the 1975 Kentucky Council on Public Higher Education, is applied to determine a student's eligibility for fees assessed Kentucky residents. The Policy provides the following rules and presumptions:

I. INTENT. Under current law the Council on Public Higher Education as a matter of policy establishes a higher fee or tuition for non-resident students attending public institutions than that charged Kentuckians. It is the intent of the Council on Public Higher Education that the state institutions of higher education in the Commonwealth of Kentucky shall apply uniform interpretations, as described in this policy and not otherwise, in determining whether students shall be classified as residents or non-residents for fee assessment purposes.

II. DEFINITIONS. Whenever used in this policy:

(1) The word "Institution" shall mean a college, university, or community college supported by appropriations made by the General Assembly of Kentucky.

(2) The word "Residence" or "Reside" shall denote continuous presence within this state, provided that temporary absence for short periods of time shall not affect the establishment of a residence.

(3) The word "Domicile" shall denote a person's true, fixed, and permanent home and place of habitation. It is the place where he intends to remain, and to which he expects to return when he leaves without intending to establish a new domicile elsewhere. Residence and domicile convey the same notion of permanence and principal home and are used interchangeably.

(4) The term "Emancipated Person" shall mean a person who has attained the age of 18 years, and whose parents: (A) have entirely

surrendered the right to the care, custody, and earnings of such person; (B) who no longer are under any legal obligation to support or maintain such person; (C) who no longer, in fact, voluntarily contribute substantial financial assistance; and (D) whose parents' income is not taken into account by any private or governmental agency furnishing financial educational assistance to such person, including scholarships, loans, and other assistance. If **ALL** of the aforesaid dependency tests are not met, said person shall be deemed an "Unemancipated Person."

(5) The word "Parent" shall mean a person's father or mother, or the parent having custody, or if there is a legal guardian or legal custodian of an unemancipated person, then such guardian or legal custodian; provided that such guardianship or custodianship was not created primarily for the purpose of conferring the status of resident on such unemancipated person.

(6) Attendance at a college or colleges in this state shall be deemed "Continuous" if the person claiming continuous attendance has been enrolled at a college(s) in this state as a full-time student, as such term is defined by the governing body of said college(s), for two consecutive regular semesters since the beginning of the period for which continuous attendance is claimed. Such person need not attend summer sessions or other such intersession in order to render his attendance "continuous."

(7) The word "His" shall apply to the female as well as to the male sex.

III. GUIDELINES FOR DETERMINATION OF STATUS.

(1) The domicile of an unemancipated person is that of his parent.

(2) Upon moving to this State, an emancipated person who provides persuasive evidence of domicile may apply for resident classification for his unemancipated children; and provided that said person is not himself in this State primarily as a full-time student, his unemancipated children may at once be so classified.

(3) Any person who remains in this State when his parent(s) theretofore been domiciled in this state, removes from this State, shall be entitled to classification as a resident *while in continuous attendance at the degree level in which he is currently enrolled*.

(4) An unemancipated person whose parent is a member of the Armed Forces and stationed in this State pursuant to military orders shall be **classified** as a resident. The student, while in continuous

attendance at the degree level in which he is currently enrolled, shall not lose his resident status when his parent is thereafter transferred on military orders.

(5) An emancipated person who moves to the Commonwealth within six months from the date of discharge from the military service with the stated intent of becoming a resident of the Commonwealth shall be permitted to count such time spent in the military service toward meeting the presumptions outlined in Section 4, provided the individual entered military service from the State of Kentucky or his home of record and permanent address at the time of discharge was Kentucky.

IV. PRESUMPTIONS. *Unless the Contrary appears from clear and convincing evidence, it shall be presumed that:*

(1) Except as provided in Section 4 (2), every person remaining in this state in a non-resident status for the twelve months immediately preceding the last date for enrollment in the institution shall be presumed to be a resident student for fee assessment purposes. No person having his domicile elsewhere than in this State shall be classified as a resident for fee assessment purposes.

(2) No emancipated person shall be deemed to have gained residence while attending any educational institution (public or private) in this State as a full-time student, as such status is defined by the governing board of such institution, in the absence of a clear demonstration that he has established domicile in the State. However, attending college in a part-time status will not prevent such person who has bona fide full-time employment in the State from establishing domicile.

(3) The domicile of a married person shall be determined by the provisions of these regulations independent of the residency of the spouse.

(4) A person does not gain or lose resident status for reason of his presence in any state or country while a member of the Armed Forces of the United States. However, a member of the Armed Forces of the United States stationed in Kentucky on military orders, except members of the Armed Forces specifically assigned for educational purposes to state-supported institutions of higher education is presumed to be domiciled in the State and shall be entitled to classification as a resident while on active duty in this State pursuant to such

orders. Resident status is similarly granted to his unemancipated children.

(5) In the event an unemancipated person's parents should have separate domiciles, his domicile shall be that of the parent having legal custody. In the event neither parent has legal custody, his domicile shall be that of the parent furnishing him the greater financial assistance.

(6) Use of records. A student whose admissions records show him to be a graduate of an out-of-state high school and his residence to be outside of Kentucky will normally be classified as a non-resident.

(7) Aliens. Aliens lawfully admitted to the United States for permanent residence under a permanent visa may establish Kentucky residence in the same manner as any other non-resident. An alien who possesses a student visa cannot be classified as a resident.

V. TYPES OF EVIDENCE TO BE CONSIDERED FOR ESTABLISHMENT OF DOMICILE. If a person asserts that he has established domicile in Kentucky for a period of twelve months immediately preceding the last date for enrollment in an institution, he has the burden of proving he has done so. The following statements pertain to the kinds of evidence that will be considered in reviewing an assertion by a person that he is domiciled in Kentucky.

(1) The following facts, although not conclusive, have probable value in support of a claim for resident classification: acceptance of an offer of permanent employment in this State; former residence in the State and the maintenance of significant connections therein while absent; or abandonment of a former domicile and establishing domicile in the State with attendance at an institution following and only an incident to such domicile.

(2) The following facts are not necessarily sufficient evidence of domicile: Employment by an institution as a fellow, scholar, assistant, or in any position normally filled by students; a statement of intention to acquire a domicile in this state; voting or registration for voting; the lease of living quarters; payment of local and state taxes; Kentucky automobile registration; Kentucky operators license; continued presence in Kentucky during vacation periods; marriage to a Kentucky resident; or the owning of any real property.

VI. RESIDENCY CLASSIFICATION AND APPEAL PROCEDURES. Each institution shall establish a Non-Resident Fee

Committee to consider changes in resident status based on the above criteria. Application for change of resident classification shall be made in writing to the Dean of Admissions or to the person who has been designated as the Chairman of the Non-Resident Fee Committee. The Chairman may present each case to the Committee for a final decision, and the student will be notified in writing as to the disposition of his application.

In the event of a ruling by the Non-Resident Fee Committee which is unsatisfactory to the student, the student may request that a copy of his file be submitted by the Dean of Admissions or the person designated by his institution to the Executive Director of the Council on Public Higher Education for referral to the Council's Committee on Residency Review for its recommendation to the institution.

Refund Policy

The advance housing payment will be refunded in full if cancellation is received by July 15 for the fall semester, December 15 for the spring semester or May 15 for the summer term respectively.

Refunds on fees and room rental charges, upon official withdrawal from the University shall be made on a schedule based on the time elapsed during the semester or summer term. During the semester, refund of a portion of the fees and room rental paid shall be made as follows: first and second weeks, 75%; third and fourth weeks, 50%; fifth and sixth weeks, 25%. After six weeks no refunds will be made. During the summer term, the following schedule will determine the portion refunded: first week, 75%; second week, 50% third week, 25%. After three weeks, no refund will be made. For the purpose of calculation, the week will begin with the first day of registration for the semester or summer term.

The percentage of refunds shall apply to all fees and room rental paid, except that no refund can be made on fees collected for student insurance premiums, class dues, and similar fees. In no case shall a refund of rent be made to a person who remains a student but moves from University housing at his convenience.

Refunds for reduction in course load for part-time students will be at the same percentage rate as for students who officially withdraw from the University. However, if the reduction in course load results from the cancellation of a class or the student having been permitted

to enroll for a class for which he was not eligible, a full refund of the registration fee for the course being dropped will be made. Refunds for reduction of course load must be approved by the Vice-President for Academic Affairs and Research.

Living Accommodations

Eastern Kentucky University maintains a number of Residence Halls. All single full-time undergraduate students under twenty-one years of age not residing with their parents are required to live in University Residence Hall facilities. Graduate students, married students and single undergraduate students over twenty-one years of age must secure special permission from the Director of Housing if they wish to occupy a room in a residence hall.

There are a number of large rooms in the dormitory housing that are designated for three person occupancy. These rooms are as follows: Burnam Hall: 39, 40, 41, 49, 121, 143, 243 and 343. Case Hall: 318, 320, 322, 418, 420 and 422. Sullivan Hall: 113, 125, 213, 214, 219, 225, 226, 313, 314, 319, 325 and 326.

The University provides sheets and pillowcases and a weekly linen exchange for residence halls. All other items are to be furnished by the student. Residence halls have modern coin-operated laundry and drying machines. Several laundries and dry cleaning establishments are located a short distance from the campus.

All students desiring housing at Eastern Kentucky University in residence halls must complete an application and a contract and forward it, along with a \$50 advanced payment for Fall and Spring semesters or \$20 advanced payment for the summer term, to the Bursar's Office, Eastern Kentucky University, Richmond, Kentucky.

The housing advanced payment is necessary before a reservation can be made. It will be applied to the rent for the first term following enrollment. Reservations will be held only through the day preceding the first day of classes unless students have made arrangements with the Director of Residence Halls for late arrival.

Room rent is paid by the semester and is due and payable at registration.

Married Student Housing

Requests for married student housing reservations in Brockton,

including the trailer courts, should be made to the Director of Housing, Office of Student Affairs. Applications must be accompanied by a \$25 security deposit which is refunded upon termination of rental period.

Food Service

The University operates several food service facilities on the campus. Large, air-conditioned cafeterias in the Powell Building, Martin Hall, and Sidney Clay Hall serve attractive, wholesome meals at reasonable prices. Students purchase food on an individual meal basis. In addition, snack bars are located in the Powell Building and Case Hall.

Office of Student Affairs

Through the Office of Student Affairs, the University relates to students the various aspects of campus life. Some of the more specific areas are: (1) admission and re-admission; (2) orientation of freshman and transfer students; (3) physical and mental health of students; (4) coordination of student activities and organizations; (5) housing assignments; (6) maintenance of certain personnel records; (7) housing center; (8) implementation of the Student Rights and Responsibilities policies; (9) social programs; (10) veterans affairs; and (11) student financial assistance.

The University faculty and administrative staff assists in various aspects of student personnel work co-ordinated through the Office of the Vice President for Student Affairs. Students are encouraged to become responsible citizens not only at Eastern but also in later life as citizens of communities, citizens of a democracy, and professional people. Immediate emphasis is directed toward those activities which assist students in attaining maximum personal, social, and academic growth in a stimulating environment.

Student Health Services

The mental and physical health of Eastern students is administered by the University Physician and his staff. The Infirmary is open during regular school hours, and a nurse is available for emergencies which might arise after regular office hours. The Infirmary has a limited number of beds for short-term illness or overnight care, when required. Serious illness or required surgery will be referred to the

new Pattie A. Clay Hospital, adjacent to the campus, at the patient's expense.

All new students must submit a medical form which is furnished the student when admissions information is being filed. The Medical Record is a part of admissions; and after the student is admitted to the University, the Medical Record becomes a part of the student's health folder and is filed at the University Infirmary. With this information, it is possible to be of greater assistance to all full-time students who use the Infirmary services.

In addition to Student Health Services, the University provides instruction in first aid, personal hygiene, safety, and community hygiene.

Counseling Center

The University Counseling Center has a staff of full-time counselors to assist students with problems of educational-vocational goal planning, through career seminars, personal-social adjustments and serves as a referral agent for the University Psychiatric Services.

Counseling is a professional consultation and may include tests of intelligence, vocational interest, personality, aptitudes and/or educational skills. The Center is equipped to administer the various tests at no cost to students. The Center maintains a file of vocational information which is easily accessible to the interested student.

Students may come to the Center on their own initiative or may be referred by teachers, advisors, or other University staff members.

Counseling records are considered professional information and are protected accordingly. Personal confidences are respected.

Financial Assistance

ROTC Scholarships. Under the provisions of Public Law 88-647 a limited number of one-year, two-year and three-year ROTC scholarships are available for award to outstanding military students. These scholarships provide for payment of tuition, fees, book costs, laboratory expenses and subsistence pay of one hundred dollars (\$100) per month. Selection of individuals will be based on criteria established by the Secretary of the Army and by action of an on-campus board consisting of the Professor of Military Science and other representatives from the faculty.

Nursing Scholarship Program. The purpose of this program is to assist students of exceptional financial need to undertake courses of study leading to careers in Nursing.

The maximum scholarship that may be received for any school year is \$1,500, or the amount of your financial needs, whichever is the lesser.

For application forms, write the Office of Student Financial Assistance.

Student Loans

The National Direct Student Loan. This Loan program provides loans for students whose family income and family assets place a limitation upon resources for educational purposes.

This is a low interest bearing, long term loan, interest free while in school, serving with the Peace Corps, Vista and the Armed Forces. The interest charge during the repayment period is 3%.

The borrower may discount 12.5% of the Loan per year up to a period of 4 years for serving in the Armed Services in a hostile area.

The borrower may also discount the Loan up to 100% of the total Loan, including interest, for teaching services in an economically deprived area.

Supplemental Educational Opportunity Grants Program. The Higher Education Act of 1965 initiates a program of Supplemental Educational Opportunity Grants to assist in making available the benefits of higher education to qualified high school graduates of exceptional financial need, and who would not be able to obtain the benefits of education without such aid. To qualify for the program, the student must be taking at least twelve semester hours of course work each semester and be an undergraduate in good standing.

The program is combined with other programs of financial assistance (the National Direct Loan Fund and the Work-Study Program) to the extent necessary to enable the student to meet his educational expenses.

It is the policy of the administration that prospective students should have a high school scholastic standing of "C" or better in order to apply for student financial aid. A statement from the stu-

dent's principal or guidance counselor should accompany the application to verify the high school scholastic standing.

For further information and an application form, write to the Office of Student Financial Assistance.

Federally Insured Loans. Eastern Kentucky University is a participant in the Federally Insured Loan plan which endorses loans made by home town financial institutions to deserving individuals who are either currently enrolled or have been accepted for admission to Eastern Kentucky University. The application for such a loan must be endorsed by Eastern Kentucky University before submission to the bank or other financial institution.

Under this program a student may borrow up to \$2,000 per academic year. In order to qualify for the interest free benefits the adjusted gross income may not exceed \$15,000. Applications and further information for the Federally Insured Loan may be obtained from the student's hometown lending institution or by writing the Office of Student Financial Assistance.

Law Enforcement Grants and Loans. As authorized by the Omnibus Crime Control and Safe Streets Act of 1968.

Loans: The Law Enforcement Student Loan Program makes available a ten-year interest bearing (7%) note of up to \$2,200 per academic year to full-time students enrolled in undergraduate or graduate programs leading to degrees in areas directly related to law enforcement. The loans may be cancelled at the rate of 25 percentum for each year of full-time employment in a public, state, local, or Federal law enforcement agency.

Grants: The Law Enforcement Student Grant Program makes available payment for direct expenses and may not exceed cost of tuition, fees, and cost of books. Beneficiaries must be full-time employees of a publicly funded law enforcement agency and must agree to remain in the service of the employing agency for a period of two years following completion of any course of study granted by a grant.

For further information and application, write the Office of Student Financial Assistance.

Basic Educational Opportunity Grants. This program provides for the payment of Basic Grant awards to students attending institutions

of higher education and is intended to be the foundation of a student's financial aid package. All other sources of aid will be given *in addition* to the Basic Grant. The maximum grant that a student can receive is \$1,400 less the expected family contribution *and* that no payment made to a student can exceed one-half of the cost of attendance at his school. Application forms may be obtained from the Office of Student Financial Assistance, the post office and federal buildings.

The Student Aid Society Inc. Loan Fund. This fund is designed to help worthy students complete their education. It has been augmented from time to time by gifts from different individuals and organizations and is being increased annually. Small loans are available to upper-class students who are currently enrolled. Those having high scholastic records will be given preference in the granting of loans. This fund makes it possible for a student to borrow a small amount of money on a personal note at a legal rate of interest. Students who desire further information concerning this fund should get in touch with the Chairman of the Student Aid Committee.

Nursing Student Loan Program. This program is intended to assist full-time students to achieve careers in Nursing by providing long-term, low-interest (3%) loans to help meet the cost of education.

A student may borrow up to \$1,500 for an academic year, or the amount of their financial need.

A Nursing Student, who is awarded a loan, is entitled to receive a cancellation of up to 85 percent of any such loan when employed full-time as a registered nurse (including teaching in any of the fields of nurse training and service as an administrator, supervisor or consultant in any of the fields of nursing) in a public or non-profit private agency, institution, or organization (including neighborhood health centers).

Student Employment

There is opportunity for student employment, whereby a limited number of students may earn part of their expenses by working in the cafeteria, library, bookstore, post office, dormitories, administrative office, University dairy and farm, maintenance department, and faculty offices. Some students may also secure part-time employment in Richmond stores, restaurants, and other businesses.

Student labor should be limited so that work hours will not take too much of the student's study time. While ten hours per week is an average labor load, circumstances may permit a student to work more hours. No student, however, should enter the University without sufficient money for the semester unless there is a definite guarantee of work to support him. For further information and application forms, write to the Office of Student Financial Assistance, Eastern Kentucky University.

The Work-Study Program. Under a grant from the Federal Government, made possible by the Economic Opportunity Act of 1964, eligible students may be employed on a part-time basis while in full-time employment at Eastern. This program supplements the part-time Institutional Program which has been in effect at Eastern for many years.

A student or prospective student from a low-income family is eligible for employment under the Federal Work-Study Program. The student must enroll for a minimum of twelve semester hours of course work each semester and maintain at least a "C" average.

Placement in jobs will depend upon the financial needs, skills, interests, and aptitudes of the student and the availability of positions open at a given time. Students may work up to 15 hours per week depending upon his needs. Payments are made to the student employee on a semi-monthly basis.

Other Financial Assistance

The Veterans Program at Eastern Kentucky University is approved by the Veterans Administration for the education of veterans and their eligible dependents. Students concerned with veterans training should have, at the time of registration, a Certificate of Eligibility. This is secured from the Regional office of the Veterans Administration. The University is responsible for the completion of certain Veterans Administration forms and for the other necessary information about students who receive this aid.

If you have completed courses while in the Armed Forces, ask the Registrar about the possibility of receiving credit for such courses.

VOCATIONAL REHABILITATION

Vocational Rehabilitation for students with physical handicaps of various kinds may be approved. They may receive financial benefits

as approved by the Department. Students who wish to consult with a representative relative to vocational rehabilitation should write the Department of Education, Department of Vocational Rehabilitation, Frankfort, Kentucky, for specific instructions.

VETERANS ADMINISTRATION BENEFITS

War Orphans, Widows, Children, and Wives of Deceased and Disabled Veterans should contact the Veterans Administration, 600 Federal Place, Louisville, Kentucky. Application forms are available in the Student Financial Aid Office.

Veterans wishing to receive advance payments should notify the Office of Veterans Affairs at least 30 days prior to the beginning date of classes.

For information concerning tutorial assistance or refresher courses contact the Office of Veterans Affairs.

Student Organizations and Activities

With its concern for the whole student, the University provides many services and activities. The mental and physical health, the social and academic well-being, and the desire to provide a more meaningful life experience for the student are goals of the entire faculty and staff.

The changing nature of the University community in its phenomenal growth precludes a complete listing of all organizations and activities that will be available during the year in this catalog. Students will find the available organizations and activities listed in official campus publications such as the University Handbook for Students and in notices posted on bulletin boards and in the *Eastern Progress*.

Social Activities

The University Center Board arranges a variety of social activities for the benefit of Eastern's students. Such activities as movies, dances, concerts, and parties are planned so the student can achieve maximum enjoyment. The School Calendar lists all approved social activities. The Director of Student Activities and Organizations coordinate the activities on campus. Students have the opportunity to participate in a variety of leisure time activities.

Student Identification Card

Each full-time student who has paid the full fees for his first semester will be issued a personal identification card. This card, properly validated, entitles the student to admission to all University athletic contests on the campus and to certain other programs by the University. It must be carried by the student at all times for official identification on the campus, and all full-time students must have a validated ID card before registration is completed.

Each part-time student is issued a non-laminated card for identification purposes only. It is not valid as an activity card.

If a student ID card is lost before graduation, application for replacement is made at the Office of Student Affairs. A replacement fee of \$10 is charged for a full-time student ID card.

Athletics and Recreation

The University offers a fine and varied athletic and recreational program for men and women. It consists of extensive intercollegiate, intramural, non-class and recreational activities.

Eastern Kentucky University is a member of the Ohio Valley Athletic Conference, The National Collegiate Athletic Association and The Association of Intercollegiate Athletics for Women.

The Ohio Valley Conference annually produces teams that have been top ranking among universities and colleges in the United States. In addition to conference teams, representative teams from other parts of the country are scheduled.

Intercollegiate competition is sponsored in the following sports: baseball, basketball, cross-country, field hockey, football, golf gymnastics, rifle, swimming and diving, tennis, track and field, volleyball and wrestling.

Student Organizations

The student organizations, societies and clubs form an intrinsic part of the program of Eastern Kentucky University that fulfills academic, social and religious functions. The student organizations at Eastern offer varied activities to encompass the interests of all students.

HONOR SOCIETIES:

Alpha Kappa Delta, Alpha Phi Gamma, Alpha Phi Sigma, Alpha

Psi Omega, Collegiate Pentacle, CWENS, Delta Psi Kappa, Delta Sigma Rho, Eta Sigma Gamma, Gamma Theta Upsilon, Iota Lambda Sigma, Kappa Delta Pi, Kappa Iota Epsilon, Kappa Mu Epsilon, Phi Alpha Theta, Phi Delta Kappa, Phi Kappa Phi, Phi Upsilon Omicron, Pi Omega Pi, Psi Chi, Scabbard and Blade, Sigma Delta Pi, Sigma Tau Delta, Sigma Tau Pi.

DEPARTMENTAL ORGANIZATIONS:

Accounting Club, Agriculture Club, American Institute of Interior Designers, National Society of Interior Designers, Assn. for Childhood Education, Assn. for Law Enforcement, Assn. of the U.S. Army, Athenian Shield, Biology Club, Caduceus Club, Chemistry Club, Counter-Guerilla Raiders, Delta Omicron, Dickey Chapelle Society, EKU Assn. of Nurses, Food and Nutrition Club, Geology Club, German Club, Home Economics Club, HPER, Industrial Education Club, Lambda Sigma Omicron, LeCircle Francais, Marketing Club, Military Police Company, Music Education National Council, Pershing Rifles, Phi Beta Lambda, Phi Mu Alpha Sinfonia, Philosophy Club, Physics Club, Recreation Club, Sociology Club, Soil Conservation Society, Spanish Club, Student Council for Excep. Children, Student National Education Assn., Interior Design Club, University Art Club, University Players, Phi Epsilon Kappa, Finance Club, Human Development and Family Relations Club, Polity Society, Psychology Graduate Student Organization, Social Work Club, and Society of Manufacturing Engineers.

Class Organizations: Freshman Class, Sophomore Class, Junior Class, Senior Class.

ACTIVITY ORGANIZATIONS

Catalina Club, College Democrats, College Republicans Club, Direction Eastern, E Club, Eastern Dance Theatre, Eastern Progress Staff, EKU Grotto Club, Little Colonels, Milestone Staff, People Who Care, University Ensemble, Cho Sun Cats, Civitan, EKU Bowling Club.

RELIGIOUS ORGANIZATIONS:

Baptist Student Union, Christian Science College Organization, Christian Student Fellowship, Inter-varsity Christian Fellowship, Lutheran Students, Newman Club, Wesley Foundation.

INTEREST GROUPS

Black Student Union, Chess Club, CIRCUNA, Civil Liberties Union, Explorer Post #634, International Student Assn., Lambda Alpha Epsilon, SIMS, Rookies, EKU Sports Association, Society for Human Equality, and Veterans Club.

Service Organizations: Kappa Delta Tau, Circle K International, Men's Interdormitory Council, Student Association, Women's Interdormitory Council, Pan-Hellenic Council, Inter-Fraternity Council, Women's Officiating Services.

Social Organizations

Alpha Delta Pi, Alpha Gamma Delta, Alpha Kappa Alpha, Chi Omega, Delta Sigma Theta, Kappa Alpha Theta, Kappa Delta, Phi Mu, Alpha Beta Tau, Beta Theta Pi, Delta Upsilon, Kappa Alpha, Kappa Alpha Psi, Omega Psi Phi, Phi Delta Theta, Pi Kappa Alpha, Sigma Alpha Epsilon, Sigma Chi, Sigma Nu, Tau Kappa Epsilon, Theta Chi.

Cultural Activities

Every effort is made at Eastern to surround the students with cultural advantages. The programs presented are planned as part of the student's education and much time and effort is put forth to provide programs that will be of benefit to students.

Concert Series are presented through the University Center Board. Students are admitted to these excellent programs without charge, but they must present identification cards for admission. These programs feature some of the outstanding individuals and groups in the nation.

Art Exhibits, arranged by the Art Department, are on continuous exhibition in the Fred P. Giles Gallery, Jane F. Campbell Building. Every effort is made to include in the exhibits the works of major artists, past and present, from across America and around the world. Also included are the works of art students, art majors, and faculty. In addition, special exhibits are sometimes arranged for showing in the Student Union Building.

Church Affiliation is recognized as an important factor in the life of any student. Eastern is a state-supported institution and is, therefore, non-denominational. The University has a basic objective in

helping to develop ethical character among all students. There is close cooperation between the institution and several fine churches in Richmond. Students are encouraged to attend church services in town. Eastern makes spaces available for several student church organizations to meet on the campus.

Presently, three downtown churches have student centers adjoining the campus. Other student centers will be built in the near future on sites which have already been purchased.

Plays presented by University players are a significant contribution to Eastern's cultural life. Three major productions each year, along with studio productions, and a drama program in the summer, provide numerous opportunities in acting, directing, and technical theatre. Participation in every aspect of the theatre program is open to all students.

Student Publications

THE EASTERN PROGRESS, weekly student newspaper, is the official student publication of the University, and all students are encouraged to take advantage of the journalism training offered by the Progress.

THE MILESTONE is the University yearbook. Published annually, this publication contains photographs and statistical records of events of the University year. The book is distributed during the last two weeks of the spring semester.

Both the **PROGRESS** and the **MILESTONE** have received numerous national awards in recent years and are ranked annually among the top student publications in the nation.

AURORA (formerly **BELLES LETTRES**) is a magazine of student writing published by its student staff in cooperation with the English Canterbury Club, an organization of English majors and minors who meet monthly to encourage interest in literary activity.

AURORA accepts poems, one-act plays, short stories, prose sketches, and essays from any Eastern student. Cash prizes are awarded for the best works at the time of the spring publication.

Student Automobiles

All student motor vehicles which are parked or operated on campus must be registered with the University.

Students desiring to register an automobile must present a valid operators license and a motor vehicle bill of sale or registration receipt (the vehicle to be registered must be owned by the student or a member of his immediate family).

The motor vehicle must meet the safety standards prescribed by the Kentucky Department of Public Safety and the University to be registered. If a student, who has a vehicle registered, permits his license to expire or has a license revoked, the registration permit will be revoked without notice.

Students who violate University motor vehicle regulations are subject to assessment for violating the policy and in more serious cases are subject to possible suspension from the University.

Placement Office

The Placement Office is maintained by the University and is a free service to assist students and alumni in obtaining positions in schools, business, and industry. Its concept is that it only helps job candidates to meet employers; it does not guarantee a job for the candidate.

Each year, schools, industry, business, and government agencies come to this office searching for graduates with specific background, experience, and ability to fill their positions and vacancies.

The Placement Office has available up-to-date job listings in numerous fields. It offers the applicant opportunities to have interviews with numerous prospective employers.

The Placement Office prepares and distributes bulletins to those alumni who have filed a request. The bulletins list employment opportunities supplied by employers by letter, telephone, telegraph, or through their own placement bulletins.

Students receive the information via campus bulletin boards, department heads, and alumni receive the listings by mail which they receive every two weeks.

The Alumni Association

The Alumni Association of Eastern Kentucky University has as its purpose to promote fellowship among the graduates and to stimulate mutual interest and concern between the University and the Alumni. Eastern now has nearly 33,000 graduates, many of whom hold more than one degree from the University.

All Eastern graduates are members of the Eastern Alumni Association, "with all the rights and privileges appertaining thereto." All former students who have as much as a semester's work at Eastern, former faculty and staff members are eligible for associate membership.

The Alumni Association encourages all alumni to make an annual gift to the Alumni Fund each year. This serves as the "dues" for active membership in the Association and is used by the Association's Alumni Office to help defray operating expenses. The remainder of any contribution over \$5.00 is used for the specific purpose designated by the contributor. Annual active membership is obtained by making an annual contribution. Single and joint life memberships are also available.

The Alumni Association sponsors Homecoming in the fall, a KEA get-together in the spring, and Alumni Day at commencement each year. The latter features an Alumni Dinner honoring the 15, 25, 40, 50, and 60 year classes, and the presentation of an Outstanding Alumnus Award.

In addition, Alumni Chapters which have meetings throughout the year are located in many Kentucky counties as well as in Ohio, Florida, and Washington, D.C.

The Eastern Alumni Association is a member of the American Alumni Council and the Joint Alumni Council of Kentucky, an organization made up of the alumni from the eight state-supported colleges and universities.

Provisions of the Family Educational and Privacy Act of 1974 Public Law 93-380

I. This is to serve notice to all students of Eastern Kentucky University of the rights and restrictions regarding the maintenance, inspection, and release of student records contained in the Family Education and Privacy Act of 1974. The University is composed of six colleges and offers a wide variety of services to students. Each college and service requires the maintenance of some records concerning students enrolled in a particular college or participating in a non-academic service. The location and type of record maintained by the University depends upon the field of study or service in which the student is enrolled. The following is a list of the types of records maintained by the University and the name and position of the

official responsible for the maintenance of each type record for undergraduate students.

A. Undergraduate records:

1. Grade reports
2. Transcripts
3. Curriculum information
4. Application for graduation
5. Correspondence with students, if any
6. Withdrawal records, if applicable
7. Admission forms
8. ACT test scores, if applicable
9. Student teacher evaluation, if applicable
10. Letters of recommendation, if applicable
11. Nominations for awards, if applicable
12. Biographical data
13. Evaluation forms, if applicable
14. Weekly student teacher logs, if applicable
15. Mid-term evaluation, if applicable
16. Records of school visitations, if applicable
17. Excuse from Military Science option
18. Physical Education requirement waiver
19. Field training evaluations and correspondence, if applicable
20. Professional conduct agreements and liability insurance coverage

B. In addition to the persons listed in paragraph C. below, the following persons have access to pertinent student records: The student's advisor, academic deans, or equivalent University official who have need of information in order to carry out their official responsibility.

C. Official records of students enrolled in any one of the following colleges are maintained by the person indicated.

1. College of Business, Howard A. Thompson, Dean
2. Central University College, Clyde Lewis, Dean
3. Law Enforcement, Robert Posey, Dean
4. College of Arts and Sciences, Frederic D. Ogden, Dean
5. College of Education: A. School of Health, Dr. Herman Bush, Chairman; B. Recreation and Park Administration, Dr. James McChesney, Chairman; C. Special Education and Rehabilitation, Dr. Wiests DeHopp, Chairman; D. Professional Laboratory Experience, Dr. David L. Rush, Director; E. Teacher Admissions, Certification,

and Evaluation, Dr. Glynn Creamer, Director; F. Physical Education, Dr. Anne Uhler, Co-Chairman — G. Dr. Fred E. Darling, Co-Chairman; H. Secondary and Higher Education, Dr. Joe Wise, Chairman; I. Elementary Education, Dr. Alfred Morris, Chairman; J. Educational Administration, Dr. Charles Ross, Acting Chairman; K. Educational Psychology and Counseling, Dr. Lola Doane, Chairman; L. Library Science, Juanita Phillips, Chairman; M. Athletic Records, Donald G. Combs, Director

6. College of Allied Health and Nursing, David Gale, Dean

7. College of Applied Arts and Technology: A. Agriculture, Dr. William Householder, Chairman; B. Home Economics, Dr. Ann Bardwell, Chairman; C. Industrial Education and Technology, Dr. Clyde Craft, Chairman

8. The Registrar, Donald Smith, is the official whose official responsibility is the maintenance of all the transcripts of grades, high school manuscripts, and transfer students' manuscripts.

D. If the student is enrolled in one of the following special programs, the applicable records listed in paragraph 1-A above are maintained in one of the following offices:

1. Office for Community College Programs, Jack A. Luy, Dean

2. Upward Bound, Louis A. Power, Director. In addition to the records set forth in paragraph A. above, the Upward Bound records include: Upward Bound Admission Application. (1), Student in-take form, (2) medical-dental release, (3) student activity page, (4) high school recommendation, high school transcript and most recent standardized test scores, acceptance notification letter, home visitation write up, student contract, weekend travel permission form (summer phase), choice sheets (summer phase), summer schedule, summer academic report, notification of dental services rendered (summer phase), WRIPT scores and interpretation (pre-test), PSAT scores, Standard Diagnostic Reading Test Scores, National Scholarship Service and Fund for Negro Students - referral report, tutor-counselors reports, student information in-take data, financial aid information, transcripts (not all students), grade reports, advisor assignment card, record (not all students), grade reports, advisor assignment card, record of individual counseling, ACT reports of scores (most students)

3. Veterans Upward Bound, Thomas L. Sexton, Director. The

records maintained in this program are the same as those set forth in paragraph C-2 above

4. Continuing Education, La Rue Cocanougher, Dean
5. Placement Services, John Vickers, Director

E. Foreign Students — Copies of Immigration and Naturalization Service (INS) Forms I-20B, I-538, and I-134 are maintained by Kenneth Clawson, Dean of Academic Services.

F. Student Affairs Records.

1. The following records are maintained in the office of the Vice President of Student Affairs Thomas D. Myers, and are accessible by members of his staff for purposes of gaining information pertaining to students: A. Application for admission; B. Student Rights and Responsibilities records; C. Letters of appreciation and commercial action; D. Reports of campus extracurricular activities, newspaper clippings pertaining to such; E. Parking violations; F. Correspondence with students; G. ID card photograph; H. Housing records, contracts, and assessments for damage.

2. The following are records maintained by the Counseling Center, Calvin J. Tolar, Director, and are accessible by the counseling staff for the purposes of providing counseling services: A. Intelligence test scores; B. Interest inventories; C. Personality inventories; D. Aptitude test scores; E. Case notes on treatment and student progress; F. Personal data sheet.

3. The following are records maintained by the Office of Student Financial Assistance, Herb Vescio, Director, and are accessible through members of his staff for purposes of granting such assistance and collecting delinquent accounts, and appropriate governmental agencies: A. Student's biographical information; B. Application forms; C. Parent's financial information; D. Student's income; E. ACT score, high school standing, and grade point average; F. References; G. Student's financial need.

4. Medical records are maintained by the Director of the student Health Service; however, access to such records is limited to the Director and his staff and such access is only for the purpose of treatment.

II. Graduate School:

A. Graduate School records:

1. Application for Admission to Graduate Study including personal and professional information supplied by the student

2. Copies of graduate and undergraduate transcripts of credits and grade reports for each student

3. Official G.R.E. and U.R.E. scores provided by the student as a condition for admission to a degree program

4. Letters of recommendation requested by the students in their behalf to support the Application for Admission to Graduate Study

5. Test of English as a Foreign Language scores for International students

6. Copies of reports provided by the Office of Student Affairs verifying hearings and/or disciplinary action concerning specific graduate students

7. Copies of correspondence to and from the student

8. Copies of routine actions inherent to the student's progress through his graduate program (i.e. Admission to Candidacy form, Report of Oral Comprehensive Examinations, Language-Statistics Report, Withdrawal form, etc.).

B. The Graduate Dean, Charles H. Gibson, is the school official responsible for the maintenance of student files in the Office of the Graduate School. Other persons who have access to these academic records would include:

1. The officially appointed academic advisor or departmental chairman for the students' program for the purpose of academic advising and evaluation

2. Upon request, academic deans or equivalent University officials who have need of information to carry out their official responsibilities (i.e. Vice President for Student Affairs, Registrar, and the President).

III. Students have the right to inspect any and all records directly related to them except as follows:

A. Students do not have the right to inspect confidential letters of recommendation placed in their files before January 1, 1975. Students may waive their right to inspect such letters furnished the University after January 1, 1975.

B. Students do not have the right to inspect records maintained by the University Department of Safety and Security.

C. Students do not have the right to directly inspect medical, psychiatric, or similar records which are used solely in the connection with treatment of a student; however, do have the right to have a

doctor or other qualified professional of their choice inspect such records.

D. Students do not have the right to their parents' confidential financial statements.

IV. A student or parent, whichever is applicable, shall have the opportunity to a hearing to challenge the contents of any University record on the ground that such record or records are inaccurate, misleading, or otherwise in violation of the privacy or other rights of the student and an opportunity for correction or deletion of any such record. If the student desires to challenge such a record, he shall do so by filing a written request in the office of the University Attorney stating which record is to be challenged and upon what ground. Such challenge of records shall be considered by the University Records Review Committee within a reasonable time not to exceed 30 days following such request. The student or parent will be allowed to present to the committee evidence, including witness, to the committee, in support of his challenge. This right to challenge also extends to former students of the University.

V. The University shall not release student records to persons other than authorized University officials to any individual, agency, or organization, other than the following, without the written consent of the student.

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 if desired, and have an opportunity to challenge the contents of the record.

C. To authorized representatives of the Comptroller General of the U.S., the Secretary of HEW, or an administrative head of an educational agency, in connection with an audit or evaluation of federally supported programs.

VI. The University shall not furnish in any form, any personally identifiable information contained in personal school records to any persons other than those listed in paragraph V above, unless there is a written consent from the student specifying records to be released, the reasons for such release and to whom, and with a copy of the records to be released to the student if desired, or in the event

records are lawfully subpoenaed or otherwise judicially ordered, the University shall notify the student of such subpoena or judicial order in advance of the compliance therewith.

VII. All persons, agencies, or organizations desiring access to the records of a student, shall be required to sign a written form which shall be kept permanently with the file of the student, indicating specifically the legitimate educational or other interest that such person, agency, or organization has in seeking the information.

VIII. The University will release directory information to individuals, agencies, or organizations. Directory information includes the student's name, social security number, address, telephone listing, dates of attendance, degrees and awards. It will also release grade point averages of students being considered for honorary societies, awards or other honorary recognition. This information will be released unless the student or parent notifies the University that such information shall not be released. Such notification should be sent to the office of the University Counsel.

IX. Copies of student records, except official transcripts, will be furnished to the student at a cost of \$.25 (twenty-five cents) per page.

X. Parents of dependent students have a right to information concerning the child as far as grades, without having to gain the student's consent.

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Admission To The University

I. **Methods of Admissions** — Candidates for admission to Eastern may be approved in any of the following ways:

A. High School Graduation.

1. Admit all graduates of accredited Kentucky secondary schools upon the recommendation of their principal or guidance counselor.
2. Admit graduates of out-of-state secondary schools in accordance with the regulations of the Kentucky Council on Public Higher Education and in such a manner that the student body will reflect adequately various localities and areas of social responsibility and who are recommended by their principal or guidance counselor.

B. By Special Approval.

1. Students who have one unit less than the number required for high school graduation, with superior grades, may be admitted provided the high school principal recommends that the student is qualified to do college work.
2. All honorably discharged veterans are admitted upon their initial enrollment following discharge, who meet the equivalency or are graduates of accredited secondary schools.
3. Persons over 21 years of age who wish to pursue courses as special students without reference to graduation may be granted the privilege if they have adequate preparation for the courses desired.

C. With Advanced Standing.

1. Students who have attended other colleges or universities are admitted to the University upon presentation and approval of credits from accredited institutions. So that proper evaluation and acceptance can be made, applicants transferring from other colleges and universities should present their applications at least ten days prior to the day of registration for the semester or summer term in which they plan to attend.
2. **Option 1:** Credits earned at an accredited institution are evaluated on the basis of 2.0 ("C") average, and the maximum hours allowed are assigned on this basis. All courses attempted are recorded and the evaluation on such courses is at the discretion of the college dean.

Option 2: Transfer credits will be accepted from accredited junior and senior colleges with appropriate grade points reflecting the grades that have been earned. The transfer student's complete academic record will be entered on the student's permanent record at Eastern in accordance with Eastern's policies. A transfer student's grade point standing at the university will, at any point in time, be based on all academic work attempted at Eastern and at the institution(s) from which the student transferred. As a condition for meeting graduation requirements of the university, the student must have a minimum of a 2.0 overall standing, including transfer credits *and* a minimum of a 2.0 standing on all course work completed at Eastern. All transferred courses are evaluated by the appropriate college dean in terms of applicability in meeting specified degree requirements.

3. A maximum of 67 semester hours may be accepted from an accredited junior college. The 67 hours shall include any work already completed in other institutions (including senior colleges) previous to the date of completion of work in the junior college. When a student has a total of 67 semester hours from one institution or from a combination of institutions, no additional work may be accepted for credit from a junior college. The student is advised to check with the Registrar of this institution before enrolling for work in any junior college after he has earned 60 semester hours.
4. All students requesting re-admission, who have been cleared by all divisions of the university and who meet academic standards, will be re-admitted. Students who have been out of Eastern one year or more due to failure to meet academic standards may be re-admitted.
5. A student may be placed in a more advanced class in some areas based upon his competence and/or previous courses taken in this area.
6. A student may challenge a college course by examination. Upon receiving a satisfactory grade, credit will be awarded without grade or quality points.
7. USAFL College level credit in most fields is accepted on transfer from the United States Armed Forces Institute.
8. CEEB Advanced Placement Program Credit — In cooperation with the College Entrance Examination Board's Ad-

vanced Placement Program, Eastern Kentucky University grants credit for CEEB approved high school advanced placement courses when a score of three (3) or higher is achieved on the appropriate CEEB EXAMINATIONS. Credit may be awarded in: American History, art, biology, chemistry, English, French, German, Latin, mathematics, music appreciation, physics, and Spanish.

9. CLEP. Eastern grants credit for satisfactory scores on the "General examinations" and most of the "subject examinations" of the CEEB. College Level Examination Program.

II. Applications for Admission — Applications for admission to Eastern Kentucky University cannot be unconditionally approved until transcripts of credits are filed in the Admissions Office. As soon as possible after an Application for Admission and a transcript of credits are received, the candidate will be notified whether or not he is accepted.

It is the responsibility of the applicant to have the following items sent to the Admission Office prior to the opening date of a term:

- A. An application for admission, properly filled out by the applicant, should be made upon a regulation blank furnished by the Dean of Admissions.
- B. All entering freshmen must submit scores on the American College Test (ACT). The American College Test should be taken on one of the five national testing dates during the student's senior year in high school. Each student should use the appropriate section of the ACT answer sheet to designate Eastern as a recipient of his scores. A student who fails to designate Eastern as a recipient of his scores at the time he takes the test may do so at a later date by writing the American College Testing Program and paying the late score transmittal fee. If an entering freshman has failed to take the ACT, he must take the ACT at the time designated during orientation week. This may delay his registration process.
- C. A transcript of the secondary school credit, issued after graduation, should be mailed directly by the principal to the Dean of Admissions.
- D. An official transcript of any college or university credits and a statement of honorable dismissal, regardless of whether or not the student received credit for the work, should be mailed

directly to: The Dean on Admissions, Eastern Kentucky University, Richmond, Kentucky 40475.

- E. Admission to graduate study is a process distinct from admission to an undergraduation program. Persons interested in graduate matriculation *including Eastern Kentucky University Alumni*, should make application to: Dean, The Graduate School, Eastern Kentucky University. *Two* official transcripts of credits not earned at Eastern Kentucky University should be mailed to The Graduate School to support application for admission.

Academic Programs

MAJORS

DEGREES

Accounting	AA, BBA, MBA
Administrative Office Services	AA
Agricultural Mechanization	AA, BS
Agriculture, Technical (Seven Options)	BS
Anthropology	BA
Art	BA, BFA, MA in Ed.
Banking	AA
Beef Herd Management	AA
Biology	BS, MA in Ed., MS
Broadcasting	BA
Broadcasting Engineering Technology	AA
Business Administration	BBA, MBA
Business Education	BS, MA in Ed.
Business and Industrial Security	AA
Chemical Technician	AA
Chemistry	BS, BA, MA in Ed., MS
Child Care	AA
Child Development	BS
Community Health Education	BS
Computer Electronics Technology	AA
Computer Science	BS
Correctional Services	AA, BS
Counseling—Elementary School	MA in Ed., Ed.S.
Counseling—Secondary School	MA in Ed., Ed.S.
Counseling—Industrial and Community Services	MA
Criminalistics	AA
Criminal Justice (Four Options)	MS

Dairy Herd Management	AA, BS
Dietetics	BS
Dietetic Technology: Nutrition Care	AA
Drafting and Design Technology	AA
Earth Science	BS, MA in Ed.
Economics	BA, BBA, MBA
Educational Administration and Supervision	Ed.S.
Electrical Power Technology	AA
Electronic Data Processing	AA, BBA
Elementary Education	BS, MA in Ed., Ed.S.
Elementary Education—Early Childhood	MA in Ed.
Elementary Education—Reading	MA in Ed.
Emergency Medical Care	AA
Engineering (Dual Degree Program)	BS
English	BA, MA in Ed., MA
Environmental Resources	BS
Executive Secretary	AA
Fashion Design	BS
Fashion Merchandising	BS
Finance	BBA, MBA
Fire Prevention and Control	AA, BS
Fisheries Management	BS
Floriculture and Floristry	AA
Food Service Administration	BS
Food Service Technology	AA
Forensic Science	AA
French	BA, MA in Ed., MA
General Business	BBA, MBA
General Science	MA in Ed.
Geography	BA, MA in Ed., MA
Geological Engineering Technician	AA
Geology	BS, MS
German	BA
Health, P.E., and Recreation (Area)	BS
Health Care Administration	AA, BS
Health (Allied Health Sciences Education)	MA in Ed.
Health (Public) Community Health or Environmental Sanitation	BS
Health (School)	BS, MA in Ed.
History	BA, MA, MA in Ed.
Homemaking Supervision	AA

Home Economics—General	BS
Home Economics Education	BS, MA in Ed.
Horticulture, Technical (Two Options)	BS
Inter-American Studies	BA
Individualized Studies	BS
Industrial Arts Teaching	BS, MA in Ed., MS, Tech.S.
Industrial Electronics Technology	AA
Industrial Technology (Eleven Options)	BS, MS
Instrumentation Electronics Technology	AA
Insurance	BBA
Interior Decoration	AA
Interior Design	BS
Joint Doctoral Program in Education	Ed.D.
Joint Doctoral Program in Criminal Justice	Ph.D.
Journalism	BA
Juvenile (Correctional Services)	AA
Latin	BA
Legal Assistance	AA, BA
Legal Secretary	AA
Library Science	BA, MA in Ed.
Management	AA, BBA, MBA
Manual Arts Therapy	BS
Marketing	BBA, MBA
Mathematics	BS, MA in Ed., MS
Medical Assisting Technology (Clinical)	AA
Medical Laboratory Technician	AA
Medical Record Administration	BS
Medical Record Technology	AA
Medical Secretary	AA
Medical Technology	BS
Microbiology	BS
Military Science	Commission
Music	BA, BM, BME, MM, MME, MA in Ed.
Nursing	AA, BS
Occupational Safety and Health Technology	BS
Occupational Therapy	BS
Office Administration	BBA
Ornamental Horticulture	AA
Pediatric Assisting	AA
Performing Arts	BFA
Philosophy	BA

Physical Education	BS, MA in Ed., MS, Ed.S.
Physics	BS, MA in Ed., MS
Planning and Development	BA
Police Administration	AA, BS
Political Science	BA, MA in Ed., MA
Pre-Dental Hygiene	(Transfer Program)
Pre-Engineering	(Transfer Program)
Pre-Forestry	(Transfer Program)
Pre-Medical Sciences	BS
Pre-Optometry	(Transfer Program)
Pre-Pharmacy	(Transfer Program)
Pre-Physical Therapy	(Transfer Program)
Pre-Veterinary Medicine	(Transfer Program)
Printing Technology	AA
Public Administration (Three Options)	MPA
Psychology	BS, MA, MS
Real Estate	AA, BBA
Recreation and Park Administration	BS, MS
Recreation Supervision	AA
Rehabilitation Education	BS
Retailing	AA
Russian	BA
School Social Work	MA in Ed.
School Psychometry	MA in Ed.
Secondary Education—Reading	MA in Ed.
Social Work	BA
Sociology	BA, MA, MA in Ed.
Spanish	BA, MA, MA in Ed.
Special Education	BS, MA in Ed., Ed.S.
Speech	BA
Speech Communications and Theatre Arts	BA
Speech Pathology and Audiology	BS
Speech and Theatre Arts	BA
Statistics	BS
Student Personnel Services (Higher Education)	MA, Ed.S.
Textiles	BS
Theatre Arts	BA
Therapeutic Recreation	BS
Transportation and Physical Distribution Management	BBA
Transportation Systems: Environmental Aspects	BA

Turf Management	AA
Vocational Administration and Supervision	MS
Vocational-Industrial and Technical Teaching ..	AA, BS, MS, Tech.S.
Wildlife Management	BS

Minors

Eastern Kentucky University offers minors in a number of fields. Certain minors are restricted as teaching or non-teaching. Students selecting a minor (not all majors require or provide for a minor) should refer to the appropriate department sections of the catalog for detailed descriptions of course requirements for minors. The following minors are offered:

Agriculture (specialization options available in agriculture mechanization, agronomy and natural resources, beef herd management, dairy herd management, farm management, floriculture, horticulture, livestock production, and turf management)

Anthropology

Applied Statistics

Art

Biology

Broadcasting

Business Administration

Business and Industrial Security

Chemistry

Computer Science

Correctional Services

Dance

Drama

Earth Science

Economics

Electronic Data Processing

Elementary Physical Education

English

Film

Fire Prevention and Control

French

Geography

Geology

German

Health

History

Home Economics (specialization options in child development, clothing, nutrition, and textiles)

Industrial Technology (specialization options in architectural drawing, communications electronics, computer electronics, electrical power, graphic arts, industrial electronics, instrumentation electronics, metals, technical drawing, and woods)

Journalism**Latin****Library Science****Mathematics****Military Science****Music****Philosophy****Physical Education****Physics****Police Administration****Political Science****Psychology****Public Relations****Recreation and Park Administration****Rehabilitation Education****Russian****School Health****Secretarial****Speech Communication and Human Relations****Sociology****Social Work****Special Education****Spanish****Speech****Theatre Arts****Traffic Safety****Transportation Systems**

Endorsements

The following programs leading to special endorsements are offered:

Counseling**School Psychometry**

School Social Work

Elementary Education

Kindergarten

Physical Education

Elementary P.E. (Secondary Major)

Corrective Therapy

Recreation Therapy

Athletic Coaching

Athletic Training (Health and P.E. Majors)

School Administration

(Graduate Students Only)

Elementary Principalship

School Business Administration

Secondary Principalship

Superintendency

Supervision

Pre-Professional Curricula

Pre-Engineering	203
Pre-Dental Hygiene	113
Pre-Forestry	204
Pre-Medical and Pre-Dentistry	207
Pre-Optometry	204
Pre-Pharmacy	206
Pre-Physical Therapy	114
Pre-Veterinary	205

Pre-Law Curriculum

No fixed, comprehensive pre-law curriculum is prescribed. However, prospective law students should keep in mind that a broad, basic and liberal education will equip one to study law and also prepare him for a vital role in the community once he has acquired his professional training. Courses in accounting, economics, English, history, Latin or a modern foreign language, mathematics, the natural sciences, philosophy, political science, psychology, sociology, and speech lend themselves to the breadth of background needed by a law student and a lawyer.

The importance of a sound background in use of the English language cannot be stressed too greatly. A fundamental knowledge of grammar, a good vocabulary, an ability to read rapidly with under-

standing, an ability to express one's thoughts in a clear and organized fashion, are all absolutely essential to success in the study of law.

Pre-law students can major in the following areas: accounting, anthropology, economics, English, foreign language, history, management, political science, psychology and sociology. Admission to an accredited law school is dependent upon a satisfactory undergraduate record and completion of the Law School Admission test. Students must have earned baccalaureate degrees prior to entering law school.

Academic advising is the responsibility of the departments involved; however, the contact person for the Association of American Law Schools is the chairman of the Department of Political Science.

Other Pre-Professional Curricula

The University affords courses for students who plan to do specialized work in library science, theology, and other professional fields.

In addition to standard four-year pre-professional curricula, Eastern may approve specially arranged combined curricula. In these curricula, the student completes three years as outlined at Eastern to meet basic requirements and then transfer a year of successful work from a highly rated professional school in order to secure a B.S. or A.B. degree from Eastern Kentucky University. This plan may shorten by one year the time needed for obtaining both a baccalaureate and a professional degree.

General Education Requirements

Baccalaureate Degree Programs

AREA I. English composition — six semester hours are required. New freshman students and transfer students who have not completed the requirement must enroll in a GSE course at each registration until the requirement is met.

- A. The requirement may be met by:
 - 1. GSE 101 — three semester hours
 - 2. GSE 102 — three semester hours
- B. The requirement may also be met in an Honors Program.
 - 1. GSE 105 — three semester hours
 - 2. An additional three semester hours to be earned by examination.

AREA II. Humanities — 12 semester hours in one of the patterns (A, B, or C) shown below. Part or all of this requirement may be

waived if met by major requirements as shown in the departmental section under upper-division colleges.

A. Literature, language, fine arts, and/or Philosophy.

1. Six semester hours of literature.

- a. ENG 209 or 211 — three semester hours
- b. ENG 210 or 212 — three semester hours

2. Six semester hours from the following:

ART 200	three semester hours
ART 390	three semester hours
ART 391	three semester hours
Foreign Language	three-six semester hours
HIS 398 (Cross Listed as PHI 398)	three semester hours
HIS 399 (Cross Listed as PHI 399)	three semester hours
MUS 271	three semester hours
MUS 371	three semester hours
MUS 372	three semester hours
PHI 110	three semester hours
PHI 130	three semester hours
PHI 240	three semester hours
PHI 300	three semester hours
PHI 301	three semester hours
REL 301	three semester hours
THE 100	three semester hours

3. General Humanities.

- GSH 124 — three semester hours
- GSH 126 — three semester hours
- GSH 228 — three semester hours
- GSH 230 — three semester hours

C. Combinations of A and B as indicated below.

- 1. ENG — six semester hours; fine arts, Foreign language, and/or philosophy — three semester hours; GSH — three semester hours
- 2. ENG — six semester hours; GSH — six semester hours
- 3. ENG — three semester hours; GSH — nine semester hours
- 4. ENG — three semester hours; GSH — six semester hours; fine arts, Foreign language, and/or philosophy — three semester hours.

AREA III. Social Sciences — 12 semester hours. Part (in B below) of this requirement may be waived if met by major requirements, as

shown in the departmental sections under upper-division colleges.

A. The following six semester hours are required:

1. GSS 246 or HIS 202 — three semester hours
2. GSS 247 or HIS 203 — three semester hours

B. Six semester hours as indicated below.

1. One course from the following group (each three semester hours):
ANT 120; ECO 230; GSS 142; GEO 101 or 102; POL 100 or 202; SOC 131.
2. One course from the following group (each three semester hours):
ANT 110; ECO 231; GSS 144 or 248; GEO 345, 402, or 422; POL 101 or 201; SOC 235 or 237.

AREA IV. Natural Science and Mathematics — 12 semester hours from courses listed below. A student must complete three semester hours in biological science and three semester hours in physical science. At least six of the 12 semester hours must provide laboratory experience. Part or all of this requirement may be waived if met by major requirements, as shown in departmental sections under upper-division colleges.

A. Laboratory courses (semester hours shown in parentheses).

1. Biological Science:
BIO 131 (4), 141 (4), 161 (3), 162 (3), 171 (3), and 378 (1)
GSC 101 (3) and 262 (3)
2. Physical Science:
CHE 101 (4), 102 (5), 111 (4), and 112 (5)
GSC 171 (3) and 172 (3)
GLY 108 (3), 109 (3), and 210 (4)
PHY 101 (3), 131 (5), 132 (5), 201 (5), and 202 (5)

B. Non-laboratory courses (semester hours shown in parentheses).

1. Biological Science:
BIO 301 (3), 317 (3), 300 (3), and 303 (3)
GSC 263 (3)
2. Physical Science:
AST 130 (3) and 330 (3)
GSC 173 (3)
GLY 302 (3) and 390 (3)
3. Non-specialized Science:

ANT 201 (3)

GSC 100 (3) and 280 (3)

PHI 211 (3)

SCI 310 (3)

4. Mathematics:

MAT 100 (3), 101 (3); CSC 102 (3); MAT 107 (3) or 109 (5) (both cannot be taken for credit); and STA 207 (3)

AREA V. Physical Education and Health — four semester hours are required as shown below. New freshmen and transfer students who have not met the physical education requirement must enroll in GSP 180 or 181 at each registration until the requirement is met.

1. GSP 180 — one semester hour
2. GSP 181 — one semester hour
3. GSP 281 — two semester hours

Military Science

Male students attending the University full time must be enrolled in courses meeting the Military Science requirement until that requirement is completed. The following regulations apply.

A. Definition of the requirement.

1. Male students who enter the University with less than 30 earned semester hours at the time of entry are required to complete MIL 101, 102, 201 and 202 or designated optional courses (see section below dealing with options).
2. Male students who enter the University with 30-44 earned semester hours are required to complete MIL 101 and 102 or optional courses (see below).
3. Male students who enter with 45 or more earned semester hours are exempted from the requirement.

B. Options to Military Science.

1. Any course(s) listed above under Areas II, III, and IV not being applied to other general education, major, or minor requirements.
2. Any of the courses listed below which are not applied to major or minor requirements:
 - ACC 108 — three semester hours
 - CSC 172 — one semester hour
 - ECO 110 — three semester hours
 - ECO 360 — three semester hours

EDF 200 — two semester hours
ENG 214 — three semester hours
ENG 215 — three semester hours
GEO 347 — three semester hours
HEA 315 — three semester hours
HIS 305 — three semester hours
IET 104 — one semester hour
MAT 111 — four semester hours
MGT 200 — three semester hours
NFA 201 — three semester hours
OAD 101 — three semester hours
PAD/COR 101 — three semester hours
PHE 315 — two semester hours
PHI 350 — three semester hours
PHI 360 — three semester hours
PHY 100 — two semester hours
REC 225 — three semester hours
SPE 100 — three semester hours

3. Restrictions on Options to military science courses.
 - a. Must yield at least eight semester hours credit.
 - b. Must be taken in the semester(s) during which military science courses would otherwise be required.
 - c. Must be identified as options at the time of registration.
 - d. Cannot be taken on a "Pass-Fail" basis.
- C. Excuses from the requirement may be granted under the following circumstances:
1. If student is not a citizen of the United States.
 2. If student is under 14 years of age; or if he cannot qualify for appointment as second lieutenant prior to reaching 28 years of age.
 3. If student has performed military service. This may include ROTC in high school or at another college or university. Students in this category will enroll at the level for which previous training qualifies them, or be excused from enrollment, as determined by the Professor of Military Science.

Associate of Arts Degree Programs

All programs of study leading to the Associate of Arts degree must include twenty-five per cent of the total requirements in general education courses. These include GSE 101 and GSE 102, English

Composition, plus additional hours to be selected from the courses approved for general education.

These additional hours must represent two different areas (see General Education Requirements in preceding section, pp. 00). SPE 100, Oral Communication, may be counted as a general education requirement in Associate Degree programs. All male students not otherwise exempt are subject to the military science requirement.

Academic Regulations

Catalog Applicable — A student will be governed by the catalog in force during the school year in which he enters unless he interrupts his resident status at this institution for more than one calendar year, in which case he comes under the requirements of the catalog in force at the time of re-admission. A student may elect to comply with the catalog currently in force. Exceptions to this policy must be approved by the dean of the college in which the student is enrolled and by the Vice President for Academic Affairs and Research.

Classification of Students — Students shall be classified as indicated below upon completion of the respective number of hours, provided that the student has removed all entrance conditions:

Freshman — Entrance requirements

Sophomore — 30 semester hours

Junior — 60 semester hours

Senior — 90 semester hours

Grading System — Grades are indicated by letters, to each of which is given a certain value in "grade points." The following is the interpretation placed upon the grading system:

Grade Meaning		Grade Points Per Semester Hour	Grade Meaning		Grade Points Per Semester Hour
A	Excellent	4	S	Passing	0
B	Good	3	U	Failure	0
C	Average	2	W	Withdrew	0
D	Poor	1	WP	Withdrew passing	0
F	Failure	0	WF	Withdrew failing	0
I	Incomplete	0	CR	Credit only	0

A grade of "D" gives credit toward a certificate or a degree, if with such credits the student's standing is 2.0 or more. A grade of "I" shall be assigned if in the opinion of the instructor the student

has been unable to complete the course on time because of unavoidable conditions. An "I" must be made complete within one month after the student reenters the University. Otherwise, a grade of "F" is assigned. If the student fails to reenter the University within one year, an "I" becomes "F".

A student's point average is obtained by dividing the total number of points earned by the total number of semester hours attempted, exclusive of courses when "S" or "U" grades are assigned. Courses in which the marks are "CR", "W", or "WP" are recorded but are not figured in computing the point average. In order for a student to fulfill the requirements for a certificate or a degree, he must offer a number of "grade points" at least twice as great as the number of semester hours attempted.

Pass-Fail ("S"- "U") Option — The Pass-Fail option is made available to encourage students to take courses they might otherwise avoid because of lack of background or concern for lowering grade point standings:

1. Students who have earned 30 or more semester hours of credit with a minimum grade point average of 2.0 may choose the Pass-Fail ("S"- "U") option for a total of 15 hours of free electives. Courses taken under the Pass-Fail option must be exclusive of general education, major, minor, and other course requirements for graduation. Eligible courses must belong to the exclusive category, free electives. Hours attempted under the Pass-Fail option will not be used in the computation of grade-point averages.

2. Students may choose the Pass-Fail option for no more than one course with a maximum of five credit hours per semester.

3. Students may choose the Pass-Fail option or choose to make a change from the Pass-Fail option to the usual grading procedure only during preregistration, registration, or up to the last date given in each semester's schedule when courses may be dropped without a grade.

4. Students may choose the Pass-Fail option for free electives as indicated above, but the instructors for these courses will not be informed when students in their classes are under the Pass-Fail option. Instructors for all classes will turn in, as usual, the designated end-of-course grades, and the Registrar will convert the assigned letter grade to an "S" or "U" grade, as applicable.

Repeating Courses — The following regulations apply to repeated courses:

1. The credits attempted and quality points earned will be counted only for the last taking of a repeated course.
2. The grade which is counted in a course that has been repeated is the last grade awarded regardless of whether it is higher or lower.
3. A student may enroll in the same course for a third, or subsequent, time only under unusual circumstances and with the written permission of the dean of his college.
4. Courses failed at Eastern may be repeated elsewhere for equivalent credit but such repeats do not affect the Eastern grade point average.
5. A transferred course which has been taken more than two times will not be accepted for credit.

Minimum Scholastic Standards for Baccalaureate and Associate Degree Programs — If a student's grade point average falls below the following levels he will be denied the privilege of reenrollment for at least one semester. He will be given serious consideration for readmission after one semester.

24-35 hours attempted	1.4 grade point average
36-43 hours attempted	1.6 grade point average
64-95 hours attempted	1.8 grade point average

Readmission is governed by the action of the Admissions Committee and all appeals to the committee for readmission should be received by the Dean of Admissions at least one week prior to the first day of registration for the term in which a student seeks to reenter the university.

A student who has attempted 96 or more hours in a baccalaureate degree program with a grade point average below 2.0 will be allowed to attempt a maximum of 32 additional hours to bring his average up to 2.0. A student who has attempted 96 or more hours in an associate degree program with a grade point average below 2.0 will not be permitted to reenroll.

A student who has been out of college for at least 12 months, who has been pursuing a baccalaureate program and wishes to reenroll in an associate degree program, may be permitted to reenroll with the provision that grades for previous courses not applicable to the associate degree requirements will not be considered in determining his grade point average. If the student subsequently is permitted to enter

a baccalaureate program, grades in all courses attempted will be included in the computation of the grade point average for the baccalaureate degree program.

Student Load — The normal semester load for undergraduate students is 16 credit hours. The minimum load to be a full-time student is 12 credit hours. A student who has established superior records may be permitted to enroll for more than 18 hours by the dean of the college in which he is majoring. The maximum load is 21 hours.

A correspondence course taken while in residence is counted as a part of the student's load regardless of the institution with which the student does correspondence work. Six to nine semester hours is considered a normal load for a summer session, less than six being a part-time load and more than ten not normally permitted.

Auditing a Course — A course may be audited, taken without credit, by permission of the instructor and the dean of the college. Registration procedures and fees are the same as for courses taken for credit.

Credit by Examination — To recognize competence attained through educational experiences other than university instruction, it is possible to earn academic credit by examination in certain undergraduate courses designated by the departmental faculty. Conditions which apply to credit by examination are:

1. Only admitted undergraduate students are eligible for credit by examination.
2. Credit earned by examination is recorded without a letter grade; hence, it has no effect upon overall grade point average.
3. A student may attempt to earn credit by examination in a particular course only once.
4. Credit may not be earned by examination in a course which has been failed without the approval of the dean of the college offering the course.
5. A special fee of \$10.00 per examination must be paid prior to taking an examination for credit.

Schedule Changes — Changes in schedule which involve adding courses must be accomplished before the end of the first week of classes in a semester or within the first three days of classes in a summer session. Such changes must be approved by the advisor and the dean of the student's college.

With the advisor's approval, a course can be dropped without a grade until the mid-point of the third week of classes in a semester or until the mid-point of the second week of classes in a summer session. Later dropping will result in the assignment of a "WP" or "WF" grade. No official dropping of classes is permitted within one month of the close of a semester or within two weeks of the close of a summer session.

If a student stops attending a class without officially withdrawing, he or she is subject to being assigned a grade of "F".

Withdrawal from the University — Students who find it necessary to leave the University during a semester under any circumstances must visit the Office of the Dean of Students and secure an Official Withdrawal card. This card must be carried by the student to several campus offices, where records must be cleared. **Unless the student follows this procedure, the permanent records in the Registrar's Office are incomplete. Therefore, students receive grades of "F" for the semester's work and will not be eligible for readmission.** Students failing to complete a Withdrawal Card within fifteen days will receive an unofficial withdrawal.

Class Attendance — Regular class attendance is expected of all students. Each instructor is responsible for recording absences and for dealing with them in a manner consistent with departmental policy for that course. Since attendance policies vary among departments and for courses within departments, it is essential to be familiar with the policy announced by each instructor.

A student who presents the instructor with an adequate and documented reason for an absence normally will be given an opportunity to make up the work missed, if this is feasible. Adequate reasons involve circumstances beyond the student's control, such as personal illness, critical illness or death in the immediate family, or participation in an approved University activity. The responsibility for initiating the request to make up class work missed is vested in the student.

Correspondence Credit — Up to 32 semester hours of credit may be earned through correspondence courses. A student who wishes to apply correspondence credit toward graduation requirements must meet all course requirements, including the final examination, by the following dates: December graduates by November 1, May graduates by March 1, and August graduates by July 1.

General Requirements for the Associate Degree

1. Completion of all course requirements in the degree program approved by the college dean.
2. Minimum of 64 semester credit hours.
3. Minimum grade point average of 2.0 on all work taken at Eastern.
4. A minimum of 16 semester hours must be earned at Eastern.
5. Minimum of 15 of last 18 hours must be earned at Eastern. This requirement may be waived upon recommendation by the department chairman and approved by the college dean.
6. Credits more than eight (8) years old may not be applied toward associate degree requirements unless validated by the college dean.

General Requirements for the Baccalaureate Degree

1. Completion of all course requirements in the degree program approved by the college dean.
2. Minimum of 128 semester credit hours with at least 43 hours above 200 level.
3. Minimum grade point average of 2.0 on all work taken at Eastern.
4. A minimum of 32 semester hours must be earned at Eastern.
5. Minimum of 30 of last 36 hours must be earned at Eastern. This requirement may be waived upon recommendation by the department chairman and approved by college dean.

Requirements for a Second Baccalaureate Degree

To be eligible for a second baccalaureate degree the student must meet all requirements for the second degree sought. Beyond the requirements for the first degree, he must complete a minimum of 32 credit hours in residence with an average of at least 2.0.

Application for Graduation — Students completing requirements for graduation in December should apply before the end of the preceding April; May and August graduates should apply by the end of the preceding October.

Commencement — Commencements are held at the close of the spring semester and at the end of the summer session. Students who are candidates for degrees are required to participate in the commencement exercises unless excused by the President. A student who completes the requirements for a degree during the fall semester will receive the degree at the following spring commencement.

*Honors for Baccalaureate Degree Graduates

1. Students are graduated "With High Distinction" who attain a

grade point average of 3.7 or higher on the last 64 hours attempted at Eastern.

Students are graduated "With Distinction" who attain a grade point average of 3.5 but less than 3.7 on the last 64 hours attempted at Eastern.

All courses and grades in the semester in which 64 hours are reached will be used in computing grade point averages for the purpose of honors recognition.

2. Students with less than 64 semester hours, but at least 48 semester hours completed at Eastern, may qualify for graduation "With High Distinction" and "With Distinction" by achieving a grade point average of not less than 3.8 and 3.6 but less than 3.8, respectively, on the last 48 semester hours attempted at Eastern.

All courses and grades in the semester in which 48 hours are reached will be used in computing grade point averages for the purpose of honors recognition.

*The above policy will be effective for students initially enrolling at Eastern for the 1976 Fall Semester and for former students whose enrollments have been interrupted and who would be governed by the regulations of the 1976-78 catalog.

Honors for Associate Degree Graduates

1. Students are graduated "With High Distinction" who attain a grade point average of 3.7 or higher on the last 32 semester hours attempted at Eastern.

Students are graduated "With Distinction" who attain a grade point average of 3.5 but less than 3.7 on the last 32 semester hours attempted at Eastern.

All courses and grades in the semester in which 32 hours are reached will be used in computing grade point averages for the purpose of honors recognition.

2. Students with less than 32 semester hours, but at least 24 hours completed at Eastern, may qualify for graduation "With High Distinction" and "With Distinction" by achieving grade point averages of not less than 3.8 and 3.6 but less than 3.8, respectively, on the last 24 semester hours attempted at Eastern.

All courses and grades in the semester in which 24 semester hours are reached will be used in computing grade point averages for the purpose of honors recognition.

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Course Prefixes

ACC—Accounting	HIS—History
AGR—Agriculture	IDH—Interior Design and Housing
AHN—Allied Health & Nursing	IET—Industrial Education and Technology
ANT—Anthropology	JOU—Journalism
ART—Art	LAS—Legal Assistant Courses
AST—Astronomy	LAT—Latin
BED—Business Education	LEN—Law Enforcement
BIO—Biology	LIB—Library Science
CAS—Interdisciplinary Courses	MAS—Medical Assisting Technology
CDF—Child Development and the Family	MAT—Mathematics
CHE—Chemistry	MGT—Management
COM—Communications	MKT—Marketing
COR—Correctional Services	MRS—Medical Records
CRJ—Criminal Justice	MUS—Music
CSC—Computer Science	NFA—Nutrition, Foods and Food Administration
DED—Distributive Education	NUR—Nursing
EAD—Educational Administration	OAD—Office Administration
EAE—Adult Education	OHO—Ornamental Horticulture
ECO—Economics	OSH—Occupational Safety & Health Technology
EDF—Educational Foundations	OTS—Occupational Therapy
EDP—Electronic Data Processing	PAD—Police Administration
EHE—Higher Education	PAS—Pediatric Assisting
ELE—Elementary Education	PHE—Physical Education
EMC—Emergency Medical Care	PHI—Philosophy
ENG—English	PHY—Physics
EPG—Guidance	PLA—Planning & Development
EPY—Educational Psychology	POL—Political Science
ESE—Secondary Education	PSY—Psychology
FIN—Finance	REC—Recreation
FNP—Family Nurse Practitioner	REL—Religion
FOR—Forensic Science	RHB—Rehabilitation Education
FPC—Fire Prevention and Control	RTV—Broadcasting
FRE—French	RUS—Russian
GBU—General Business	SCI—Science
GEO—Geography	SEC—Business and Industrial Security
GER—German	SED—Special Education
GLY—Geology	SOC—Sociology
GRE—Greek	STA—Statistics
GCC—College Colloquium	SWK—Social Work
GCS—Career Counseling	SPA—Spanish
GSC—Science	SPE—Speech
GSE—English Composition	TCF—Textiles, Clothing, and Fashion
GSH—Humanities	THE—Theatre Arts
GSL—Learning Laboratory	TRA—Transportation
GSO—Orientation	TRS—Traffic Safety
GSP—Physical Education and Health	
GSS—Social Science	
HEA—Health	
HEC—Home Economics	

Course Numbering

Courses are numbered according to the following plan:

Courses numbered 100 to 199 are primarily for freshmen.

Courses numbered 200 to 299 are primarily for sophomores.

Courses numbered 300 to 399 are primarily for juniors.

Courses numbered 400 to 499 are primarily for seniors.

Courses numbered 500 to 599 are for senior and graduate students.

Courses numbered 600 to 699 are for graduate students only.

A student may not take a course numbered more than one year below or above his classification level except with special permission from his advisor and the chairman of the department offering the course.

Semester When Courses Are Offered

I, II, and A used in the description of a course indicates the course will be offered the fall semester, spring semester, and by announcement, respectively.



Central University College

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CENTRAL UNIVERSITY COLLEGE

Clyde J. Lewis, Dean

L. L. Barlow, Associate Dean and
Director of Advising

Structure and Functions

Central University College functions at the lower division level to direct academic advising, supervise academic programs, and offer various curricular services for its students.

Curricular Services

The fundamental curricular units are the Learning Laboratory (GSL); the Departments of Military Science (MIL) and Social Science (GSS); and the General Studies Programs, including Natural Science (GSC), English Composition (GSE), Humanities (GSH), Basic Physical Education (GSP 180-181), Health (GSP 281), and Orientation (GSO 100). Because the curricular objectives are varied and general, these offerings are quite diverse. Faculty members are sometimes drawn from different disciplines and from outside the College; experimental techniques are often employed; and course content is integrated where this would seem to increase relevance or efficiency in learning.

The curricular function is intimately related to the general education program of the University, which includes Central University courses and a good many courses offered by departments in the College of Arts and Sciences. The University requirements comprise a combination of absolutes and variables, with the latter confined inside the limits of numerous options. Finally, the student in consultation with an advisor, selects courses from the remaining choices. The resulting experience provides a broad area of knowledge along with the skills valuable to the individual and to society. The direct relationship between the University program and Central University College is primarily an administrative one. The Dean of Central University College is Chairman of the General Education Committee, which initiates policy recommendations.

Supervision of Student Programs

In supervising student programs, the Records Office of the College

conducts a constant review of credits with a view toward certifying each student for advancement to an upper-division college. Periodic progress reports are furnished each student and advisor. Within the context of the system, every effort is made to move the student along in his program as quickly as possible. The ultimate purpose is to insure that each student follows a balanced curriculum during the crucial foundational years and that the later academic career may be relatively free for specialization in a major field. In accordance with this purpose, students must meet all requirements in Central University College before they are admitted to an upper-division college.

Transfers to upper-division colleges and other academic procedures are governed by the following regulations:

1. All students entering the institution with less than 60 semester hours will be enrolled in Central University College. Those entering two-year and other less than baccalaureate degree programs sponsored by the other colleges will be enrolled for advising and record keeping only. Their other academic affairs will be administered by the colleges sponsoring the programs. Please see Richmond Community College for a listing of programs.
2. Central University College will be responsible for administering all academic affairs of its students who are preparing for four-year programs. Decisions involving academic probation, change of courses, student load, waiving of courses, granting credit by examination, etc., must be approved by the Dean of Central University College. Policy decisions in such matters, however, must be made in cooperation with the dean of the college offering the course or courses. The Dean of Central University College will be responsible for administering the academic advising of students enrolled in the College.
3. Students preparing to enter four-year programs will normally be expected to complete their work in Central University College by the time they have acquired 75 hours of college credit.
4. Transfer from Central University College to an advanced college will require that students complete 60 semester hours, in addition to meeting the general education requirements of Central University College and the special admission requirements of the advanced colleges.
5. Transfer students who have earned less than 60 semester hours of credit or transfer students who do not meet other admission

requirements for advanced colleges must enroll in Central University College until such requirements are met.

Academic Advising

Guidance for the student in interpreting and following these regulations is provided by the Central University College Advising Office and a corps of advisors drawn primarily from the departments which offer degree programs. Each student, upon entering the College, is assigned to an advisor. At registration, all schedules must have the proper advisor approval; every important change in a student's program, including a change of major, or a request for change in an admission requirement for an advanced college, must be approved by the appropriate advisor. Students should understand that all questions concerning academic problems should be taken first to the advisor, and only later, when the problem remains unsolved, to the Advising Office or to the Dean.

Curricular Requirements in Central University College

Each enrollee in the College, unless granted status as a "special student," must follow a "preparatory curriculum" in working toward acceptance as a major in an advanced college. Such curricula contain three components or requirement patterns.

Military Science Requirements

The first of these is the military science requirement of 8 designated hours for men or 8 elective hours for women. Except for those who are exempted or excused*, all men enrolled full time in the University must also be enrolled in MIL 101, 102, 201, or 202, or in acceptable optional courses, until the requirement has been completed.** However, failure to complete the requirement will not prevent a student from being transferred to an upper-division college.

Central University College Requirements

The second component of each "preparatory curriculum" is the group of Central University College requirements. These total 23 semester hours, including GSO 100 and the following general education courses:

*See p. 58 for explanation of details.

**See pp. 57-58 for listing and explanation of the options.

GSE 101 and 102 or 105 (6)

GSP 180, 181, and 281 (4)

GSS 246 and 247 or HIS 202 and 203 (6)

General education laboratory science courses from the approved list (6)

These requirements must be met by all students prior to transferring from Central University College to an advanced college; no waivers or substitutions are permitted, although departments may specify courses for the laboratory requirement.

Admission Requirements for Upper Division Colleges

The third component of each "preparatory curriculum" consists of courses required for admission to the upper-division college and major department. These may include courses in the major field, courses in the minor field, supporting courses for the major, and/or general education courses other than those required by Central University College. Because these requirements are set by the upper-division departments, they may be waived or substitutions may be made by the departments. Upper-division college admission requirements are shown just below the headings of the "preparatory curricula" which follow.

Preparatory Curricula

Accounting

Preparatory curriculum for a major in Accounting

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Business: ACC 108, 109, and 225; ECO 230 and 231; MAT 107; and nine semester hours of general education required for graduation. See page 372 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Agriculture

Preparatory curriculum for majors in Agriculture and Ornamental Horticulture

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Applied Arts and Technology; 20 semester hours of AGR and/or OHO, to be selected with approval of the advisor; and nine semester hours of general education required for graduation. See pages 142-144 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Anthropology

Preparatory curriculum for a major in Anthropology

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: ANT 110, 120, and 201; PSY 214 or three semester hours of general education required for graduation; and nine semester hours of general education required for graduation. See pages 210-211 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Art

Preparatory curriculum for the Bachelor of Arts with an area in Art (teaching); a major in Art (teaching or non-teaching); or Bachelor of Fine Arts

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: ART 100, 101, 102, and 103; other Art courses to be selected with advisor's approval (0-12 semester hours); EDF 102, 202, and PSY 211 (for teacher certification); and six semester hours of general education required for graduation. See pages 220-223 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Biology

Preparatory curriculum for majors in Biology (teaching or non-teaching); Environmental Resources; Fisheries Management; Microbiology; and Wildlife Management

Central University College requirements: GSO 100; GSE 101 and 102, or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Arts and Sciences: BIO 131 or 141 and CHE 111; 0 to eight semester hours of Biology and five to 14 semester hours of CHE or MAT, to be selected with approval of advisor; EDF 102,

202, and PSY 211 (for teacher certification); and three to nine semester hours of general education required for graduation. See pages 229-232 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Broadcasting

Preparatory curriculum for majors in Broadcasting

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: COM 200; RTV 225 and 250; and 12 semester hours of general education required for graduation. See page 249 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Business Administration

Preparatory curriculum for majors in Electronic Data Processing, General Business, Finance, Insurance, Management, Marketing, Real Estate, or Transportation and Physical Distribution Management

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Business: ACC 108 and 109; ECO 230 and 231; MAT 107 or 109; and six semester hours of general education required for graduation. See pages 378, 381, 383, 386-387, 389-390, 392, and 393-394 for all graduation requirements in upper division curricula.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Business Education

Preparatory curriculum for majors in Business Education or Office Administration

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Business: ACC 108 and 109; ECO 230 and 231; typewriting and shorthand courses (2-9 semester hours); EDF 102, 202, and PSY 211 (for Business Education majors); MAT 107 or 109 and three semester hours of general education required for graduation (for

Office Administration majors). See pp. 395-398 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Chemistry

Preparatory curriculum for a major in Chemistry (teaching or non-teaching)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Arts and Sciences: CHE 111 and 112; MAT 109 and 111; EDF 102, 202, and PSY 211 (for teacher certification); PHY 131 or 201; and PHY 132 or 202. See pages 241-242 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Child Development

Preparatory curriculum for Child Development (with or without meeting guidelines for teaching kindergarten)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Applied Arts and Technology: NFA 201; nine semester hours from CDF, HEC, PSY, and TCF courses, to be selected with approval of advisor; BIO 301 and 378; CHE 101; PSY 211; SOC 131; EDF 102 and 202 (both only for kindergarten certification); and three semester hours of general education required for graduation. See page 154 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Computer Science

See Mathematical Science and Electronic Data Processing
under Business Administration

Corrections

See Law Enforcement

Dentistry

See Pre-Medical Sciences

Dietetics

Preparatory curriculum for Dietetics

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Applied Arts and Technology: NFA 121 and 201; three semester hours from CDF, HEC, NFA, or TFC courses, to be selected with approval of the advisor; ACC 108; CHE 101 and 102; ECO 230; and MGT 200 or PSY 211. See pp. 155 and 158 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Drama

See Speech and Theatre Arts

Earth Science

See Geology

Economics

Preparatory curriculum for majors in Economics

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Business: ACC 108 and 109; ECO 230 and 231; MAT 107 or 109; and six semester hours of general education required for graduation. See page 404 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Electronic Data Processing

See Business Administration

See also Computer Science under Mathematical Science

Elementary Education

Preparatory curriculum for a major in Elementary Education (with or without kindergarten certification)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Education: EDF 102, 202, and PSY 211; MAT 201; Geography requirement (GEO 101, 102, or 345) or

three semester hours of general education required for graduation; and 12 semester hours of general education required for graduation. See page 423 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Engineering

See **Pre-Engineering in this section and (for two year programs) in Arts and Sciences section**

English

**Preparatory curriculum for a major in English
(teaching or non-teaching)**

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: ENG 209 or 211; ENG 210 or 212; EDF 102, 202, and PSY 211 (for teacher certification); 12 semester hours (or equivalent) of Foreign Language; and three semester hours of general education required for graduation. See pages 256-257 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Fashion Design

Preparatory curriculum for Fashion Design

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Applied Arts and Technology: TCF 101 and 102; 12 semester hours from ART, CDF, HEC, NFA, TCF, to be selected with approval of the advisor; **CHE 101, 102**; and three semester hours of general education required for graduation. See page 155 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Fashion Merchandising

Preparatory curriculum for Fashion Merchandising

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Applied Arts and Technology: TCF 101, 201 and 202; ACC 108; nine semester hours from ART, CDF, HEC,

NFA, TCF and/or College of Business courses, to be selected with approval of the advisor; **CHE 101 and 102**; ECO 230. See page 156 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Finance

See **Business Administration**

Fire Prevention and Control

Preparatory curriculum for majors in Fire Prevention and Control

Central University College requirements: **GSO 100**; **GSE 101 and 102 or 105**; **GSP 180, 181, and 281**; **GSS 246 or HIS 202**; **GSS 247 or HIS 203**; and six semester hours of general education laboratory science.

Requirements for admission to the College of Law Enforcement: **FPC 100, 101, 120, 201, 221, 223, and 250**; and six semester hours of general education required for graduation. See page 475 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Fisheries Management

See **Biology**

Food Service Administration

Preparatory curriculum for Food Service Administration

Central University College requirements: **GSO 100**; **GSE 101 and 102 or 105**; **GSP 180, 181, and 281**; **GSS 246 or HIS 202**; **GSS 247 or HIS 203**; and three semester hours of general education laboratory science.

Requirements for admission to the College of Applied Arts and Technology: **NFA 121 and 201**; six semester hours from **CDF, HEC, NFA, or TFC** courses, to be selected with approval of the advisor; **ACC 108**; **CHE 101**; **ECO 230**; and **MGT 200 or PSY 211**. See page 158 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Foreign Language

Preparatory curriculum for a major in Foreign Language (teaching or non-teaching)

Central University College requirements: **GSO 100**; **GSE 101 and 102 or**

105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: nine semester hours of Foreign Language; six additional semester hours of Foreign Language (non-teaching) or EDF 102, 202, and PSY 211 (for teacher certification); ENG 209 or 211; and six semester hours of general education required for graduation see pages 264-269 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for a Comprehensive Area Major in Ibero-American Studies

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: courses in Foreign Language and the Social Sciences, to be approved by the advisor. See pages 266-267 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Forensic Science

See Law Enforcement

Forestry

See Pre-Forestry

General Business

See Business Administration

Geography

Preparatory curriculum for a major in Geography (teaching or non-teaching)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: GEO 210, 216, and 220; ECO 230, GLY 210, and MAT 107 (for non-teaching majors); EDF 102, 202, GLY 108, and PSY 211 (for teacher certification); and six semester hours of general education required for graduation. See pages 279-280 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for Planning and Development

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: PLA 220; ECO 230; GLY 108 or 210; POL 101; SOC 131; and nine semester hours of general education required for graduation. See pages 280-281 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Geology Earth Science

Preparatory curriculum for majors in Geology and Earth Science (teaching)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Arts and Sciences: GLY 210 and 211; BIO 141 or 162 or GSC 101; CHE 101 or 111 and CHE 102 or 112; MAT 107 and 108 or MAT 109; GLY 310 (for a BA Degree in Geology), or MAT 111 and PHY 131 (for a BS Degree in Geology), or EDF 102, 202, and PHY 211 (for Earth Science majors). See pages 286-287 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Health

Preparatory curriculum for a major in Public Health with an emphasis in Community Health Education

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Education: twelve semester hours of general education required for graduation. See pages 467-468 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for a major in Public Health with an emphasis in Environmental Health

Central University College requirements: GSO 100; GSE 101 and 102 or

105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Education: **CHE 101 or 111 and 102 or 112;** and twelve semester hours of general education required for graduation. See page 467 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for a major in School Health.

Central University College Requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and three semester hours of general education laboratory science.

Requirements for admission to the College of Education: **BIO 301 and 378; EDF 102 and 202; PSY 211;** and twelve semester hours of general education required for graduation. See pages 466-467 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Health Technology

**See Occupational Safety and Health Technology
Under Industrial Education and Technology**

Health Care Administration

Preparatory curriculum for a major in Health Care Administration

Central University College Requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Business: **ACC 108, 109, and 300; ECO 230 and 231; MAT 107;** and nine semester hours of general education required for graduation. See pages 372-373 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

History

Preparatory curriculum for a major in History (teaching or non-teaching)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 and 247; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: **HIS 202 and 203; EDF 102, and PSY 211 (for teacher certification);** and 12 semester hours of general education required for graduation. See pages 293-294 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Home Economics

Preparatory curriculum for General Home Economics

Central University College Requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and three semester hours of general education laboratory science.

Requirements for admission to the College of Applied Arts and Technology: NFA 201; TCF 201 or 202; nine semester hours of major courses, to be selected with approval of the advisor; CHE 101; and nine semester hours of general education required for graduation. See page 156 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for Home Economics Education

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Applied Arts and Technology: CDF 132; IDH 250; NFA 121; TCF 102; six semester hours from CDF, HEC, IDH, NFA, and/or TCF courses, to be selected with approval of advisor; CHE 101 and 102; EDF 102 and 202; PSY 211; in addition, six semester hours of general education required for graduation must be selected with approval of the advisor from ART 200, 390, and/or 391; BIO 301 and 378; ENG 209 or 211; ENG 210 or 212; ECO 230; and GSS 248. See pages 156-157 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Horticulture

See Ornamental Horticulture under Agriculture

Ibero-American Studies

See Foreign Language

Individualized Studies

Preparatory curriculum for a Bachelor's Degree in Individualized Studies

Central University College Requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: selected by

students with approval of advisor. See page 208 for all graduation requirements of this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Industrial Arts Education

Preparatory curriculum for a Comprehensive Area in Industrial Arts Education or Manual Arts Therapy

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Applied Arts and Technology: IET 104, 141, 180, 191, 242, 281, 292, and 311 or 351; EDF 102, 202, and PSY 211. See page 175 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for a Specialized Area in Industrial Arts Education

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Applied Arts and Technology: IET 104, 141, 180, 191, 242, and 281; MAT 109 or 107 and 108; EDF 102, 202, and PSY 211; and PHY 131. See page 175 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for an Area Major in Occupational Safety and Health

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Applied Arts and Technology: BIO 171; CHE 101; ECO 220; IET 105, 106, 141, 180, 191, 281; MAT 109 or 107 and 108; OSH 361 and 362; PHY 131. See page 177 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Industrial Technology

Preparatory curriculum for a major in Industrial Technology

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Applied Arts and Technology: IET 105, 106, 191, 244, 281, 292, 351, and 311; MAT 109 or 107 and 108; **PHY 131**; See page 176 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Insurance

See Business Administration

Interior Design

Preparatory curriculum for Interior Design

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Applied Arts and Technology: ART 100 and 102; IDH 221 and 250; IET 191; TCF 201; and ten semester hours from ART, IDH, or IET, to be selected with approval of the advisor. See page 157 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Journalism

Preparatory curriculum for a major in Journalism

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: COM 200; JOU 201; and 15 semester hours of general education required for graduation. See page 250 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Kindergarten Teaching

See Child Development and/or Elementary Education

Law Enforcement

Preparatory curriculum for a major in Correctional Services

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Law Enforcement: COR 100,

120, 220, and 250; and nine semester hours of general education required for graduation. See page 479 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for a major in Forensic Science

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Law Enforcement: CHE 111, 112, 361, 362; General Education Biological Science (3) hours; General Education Humanities (3) hours; General Education Social Science (Area III, B 1, 3 hours); MAT 208 or 111; PHY 131 or 201; and PHY 132 or 202. See page 483 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for a major in Police Administration

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Law Enforcement: PAD 101 and 203; HEA 202; OAD 151 (if not proficient in typing); and nine semester hours of general education required for graduation. See page 485 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Legal Assistant

See Political Science

Library Science

Preparatory curriculum for a major in Library Science (teaching)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Education: LIB 301; EDF 102, 202, and PSY 211; and 12 semester hours of general education required for graduation. See pages 429-430 for all graduation requirements in this curriculum.

Military Science or options for men or electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Management

See Business Administration

Manual Arts Therapy

See Industrial Arts Education

Marketing

See Business Administration

Mathematical Science

Preparatory curriculum for a major in Computer Science

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: CSC 110, 120, 210, 300; MAT (14-16 semester hours); and six semester hours of general education required for graduation. See pages 301-302 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for a major in Mathematics

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: MAT (14-17 semester hours); CSC (1 hour); supporting courses 6-10 semester hours; nine semester hours of general education required for graduation; and EDF 102, 202, and PSY 211 (for teaching certification). See pages 302-303 for all graduation requirements for this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for a major in Statistics

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: STA 270, 271, 370, 371; MAT (15-17 semester hours); CSC (2 hours); and six semester hours of general education required for graduation. See page 303 for all graduation requirements for this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Medical Science

See Pre-Medical Science

Medical Record Administration

Preparatory curriculum for a major in Medical Records Administration

Central University College requirements: **GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.**

Requirements for admission to the College of Allied Health and Nursing: **AHN 100, 101, 200, 208; BIO 171, 301, 378; EDP 312; MRS 203, 205, 206, 215; OAD 280 and 301; SPE 100.** See page 124 for all graduation requirements for this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Medical Technology

Preparatory curriculum for a major in Medical Technology

Central University College requirements: **GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.**

Requirements for admission to the College of Arts and Sciences: **BIO 141, 211, and 242; CHE 111, 112, and 361; and six to nine semester hours of restricted electives, to be selected with approval of advisor.** See page 231 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Music

Preparatory curriculum for Bachelor of Music Education (teaching), Bachelor of Music with majors in Applied Music or Church Music, and Bachelor of Arts with a major in Music

Central University College requirements: **GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.**

Requirements for admission to the College of Arts and Sciences: 22 semester hours of **MUS**, to be selected with approval of advisor; and **EDF 102, 202, and PSY 211** (for teacher certification). See pages 313-316 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Nursing

Preparatory curriculum for a major in Nursing

Central University College requirements: **GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.**

Requirements for admission to the College of Applied Arts and Technology: **NUR 301; NFA 201; BIO 171 and 273; CHE 101 and 102; PSY 211; and SOC**

131. See page 127 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Occupational Safety

See Occupational Safety and Health Technology
Under Industrial Education and Technology

Occupational Therapy

Preparatory curriculum for a major in Occupational Therapy

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for Admission to the College of Allied Health and Nursing: OTS 111; AHN 200; BIO 171, 301, and 378; IET 326; PSY 211 and 308; PSY 302 or SOC 232; SED 271; and 21 semester hours of general education required for graduation. See page 134 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Office Administration

See Business Education

Ornamental Horticulture

See Agriculture

Philosophy

Preparatory curriculum for a major in Philosophy

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 and HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: PHI 110, 130, 211, and 300; and six semester hours of general education required for graduation. See page 327 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Physical Education

Preparatory curriculum for a major in Physical Education (teaching or non-teaching)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Education: PHE 125, 215 and 216 or 3 hours from 220, 221, 222, 223, 224, 225, 226, 227 and 4 hours from 305, 306, 307, 308; EDF 102, 202, PSY 211 (for teacher certification); **BIO 162 or GSC 101; BIO 171 and 301**; and 12 hours of general education required for graduation. See page 452 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Physics

Preparatory curriculum for a major in Physics (teaching or non-teaching)

Central University College requirements: **GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.**

Requirements for admission to the College of Arts and Sciences: **PHY 201 and 202; CHE 111; CHE 112 (non-teaching); EDF 102, 202, and PSY 211 (for teacher certification); CSC 172; and MAT 109, 111, and 112.** See page 331 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Planning

See Planning and Development under Geography

Political Science

Preparatory curriculum for a major in Political Science (teaching or non-teaching)

Central University College requirements: **GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.**

Requirements for admission to the College of Arts and Sciences: **POL 100 and 101; EDF 102, 202, and PSY 211 (for teacher certification); and twelve semester hours of general education required for graduation.** See pages 337-338 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for a major in Legal Assistance

Central University College requirements: **GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.**

Requirements for admission to the College of Arts and Sciences: **LAS 101 and 102; OAD 151 and 152 (or demonstration of equivalent typing skills); POL 101; and nine semester hours of general education required for graduation.** See page 338 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for a major in Transportation Systems

Central University College Requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: POL 101; GLY 206 or GEO 210; and twelve semester hours of general education required for graduation. See page 339 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Pre-Engineering (3-2 Program)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to College of Arts and Sciences: CHE 111 and 112; IET 191*; CSC 172; MAT 109, 111, and 112; and PHY 201 and 202. See pages 203-204 for other requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

*Not required for chemical or metallurgical engineering.

Pre-Forestry

Preparatory curriculum for a major in Pre-Forestry**

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Arts and Sciences: BIO 131 and 211; CHE 111 and 112; MAT 109 and 111; and six semester hours of general education required for graduation. See page 204 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

**Students in a program which does not lead toward a degree at Eastern should follow the curriculum listed in this catalog under the Department of Agriculture in the College of Applied Arts and Technology (pages 146-147).

Pre-Medical Sciences

Preparatory curriculum for a major in Pre-Medical and Pre-Dental Sciences

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Arts and Sciences: BIO 141, 211, and 242; CHE 111, 112, and 325; and MAT 109 and 111. See page 207

for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Pre-Veterinary Medicine

Preparatory curriculum for a major in Pre-Veterinary Medicine*

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 and GSS 247.

Requirements for admission to the College of Arts and Sciences: AGR 221 or BIO 221; BIO 141 and 211; CHE 111, 112, and 361; MAT 109 or 111; and three semester hours of general education required for graduation. See page 206 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

*Students interested in a program which does not lead toward a degree from Eastern should follow a curriculum listed in this catalog under the Department of Agriculture in the College of Applied Arts and Technology (page 147).

Psychology

Preparatory curriculum for a major in Psychology (teaching or non-teaching)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: PSY 211 and 291; EDF 102 and 202 (for teacher certification); MAT 107; and twelve hours of general education required for graduation. See page 349 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Public Health

See Health

Real Estate

See Business Administration

Recreation

Preparatory curriculum for a major in Recreation Administration

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Education: REC 100, 163, 202, and 263. See page 462 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Rehabilitation Education

Preparatory curriculum for a major in Rehabilitation Education

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Education: BIO 171 and 301; PSY 211; SOC 131 and SWK 210; and six semester hours of general education required for graduation. See page 443 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Safety (Occupational)

See Occupational Safety and Health Technology
Under Industrial Arts Education

School Health

See Health

Sociology and Social Work

Preparatory curriculum for majors in Sociology (teaching or non-teaching) or Social Work

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: SOC 131 and 232; EDF 102, 202, and PSY 211 (for teacher certification); and nine semester hours of general education required for graduation. See pages 211-212 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Special Education

Preparatory curriculum for a major in Special Education

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Education: EDF 102 and 202; SOC 131; six semester hours of restricted electives, to be selected with approval of advisor; and six semester hour of general education required for graduation. See pages 441-442 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Speech and Theatre Arts

Preparatory curriculum for majors in Speech, Speech and Theatre Arts (teaching or non-teaching), Theatre Arts, or Bachelor of Fine Arts in The Performing Arts

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences: nine semester hours of SPE or THE, to be selected with approval of advisor; EDF 102, 202, and PSY 211 (for teacher certification); and six semester hours of general education required for graduation. See pages 355-357 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Preparatory curriculum for majors in Speech Communication and Human Relations

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and six semester hours of general education laboratory science.

Requirements for admission to the College of Arts and Sciences; nine semester hours of Speech, to be selected with approval of advisor; PSY 211; and six semester hours of general education required for graduation. See pages 354-355 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Speech Pathology and Audiology

Preparatory curriculum for a major in Speech Pathology and Audiology (teaching or non-teaching)

Central University College requirements: GSO 100; GSE 101 and 102 or 105; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Education: SED 275, 285, and 360; BIO 171 and BIO 301; EDF 102 and 202; GSC 171 or PHY 101; PSY 211; and SPE 100 and 250. See pages 442-443 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Statistics

See **Mathematical Science**

Technical Teacher Education

See **Vocational-Industrial
Technical Teacher Education**

Textiles

Preparatory curriculum for Textiles with minors in Art, Journalism, Business Administration, or Chemistry

Central University College requirements: GSO 100; GSE 101 and 102 or 05; GSP 180, 181, and 281; GSS 246 or HIS 202; and GSS 247 or HIS 203.

Requirements for admission to the College of Applied Arts and Technology: CCF 101 and 201; nine semester hours in major or minor courses, to be elected with approval of the advisor; CHE 111; CHE 112; and six semester hours of general education required for graduation. See page 159 for all graduation requirements in this curriculum.

Transportation Systems

See **Political Science**

Transportation and Physical Distribution Management

See **Business Administration**

Undecided

Preparatory curriculum for students who have not yet decided upon a major

Central University College requirements: GSO 100; GSE 101 and 102 or 05; GSP 180, 181, and 281; GSS 246 or HIS 202; six semester hours of general education laboratory science.

Additional general education required for graduation: nine semester hours. Military Science or options for men and electives for women (eight semester hours).

Students must select a major before entering the fourth semester.

Veterinary Medicine

See **Pre-Veterinary Medicine**

Vocational-Industrial and Technical Teacher Education

Preparatory curriculum for a major in Vocational-Industrial and Technical Teacher Education

Central University College requirements: GSO 100; GSE 101 and 102 or 05; GSP 180, 181, and 281; GSS 246 or HIS 202; GSS 247 or HIS 203; and x semester hours of general education laboratory science.

Requirements for admission to the College of Applied Arts and Technology: IET 160, 261, and 15 additional semester hours of IET Technical electives, selected with approval of advisor; and six semester hours of general education required for graduation. See page 181 for all graduation requirements in this curriculum.

Military Science or options for men and electives for women (eight semester hours).

Minimum semester hours required to clear Central University College: 60 (including all electives).

Wildlife

See Biology

General Studies Course Offerings

Orientation (GSO 100)

R. Barlow, Chairman

GSO ORIENTATION

100 Academic Orientation. One hour. I.

This course deals with the principal aspects of career choice. Students are also introduced to the study and use of the University Catalog, and emphasis is placed upon important academic regulations. Classes meet on alternate Wednesdays; attendance at two additional assembly meetings is required.

English Composition (GSE)

J. Long, Chairman; Coker, Sutton, Plummer, Whitaker, Zlotnik

GSE ENGLISH COMPOSITION

101 English Composition I. Three hours. I, II.

Formerly English 101.

Review of the mechanics of expression; word study and use of dictionary; primary emphasis on composition; some practice in more effective oral communication, reading, listening, and thinking.

102 English Composition II. Three hours. I, II.

Formerly English 102.

Prerequisite: GSE 101 (or equivalent).

Continued practice in composition; library paper, emphasis on reading and analysis, including the explication of literature.

105 English Composition Honors. Three hours. I, II.

Open only to beginning freshman honors students who, upon completion with a "C" or better, will receive three additional honors of credit-by-examination for GSE 101.

Review and application of rhetorical principles. Practice in types of expository and argumentative prose. Reading material may range from essays on contemporary issues to traditional masterworks.

Natural Science (GSC)

W. Dixon, Chairman; Maki, Martin
McLaren, Platte, Wernegreen

GSC NATURAL SCIENCE

- 100 Science as Human Endeavor. Three hours. I, II, S.**
This is a non-laboratory course which explores science as human experience. Discussions will include: science as a creative problem solving process; the potentials and limitations of scientific method; the material basis of science; case studies of scientific revolutions in planetary theory, evolution, and heredity; science and human values.
- 101 Environment, Life, and Man. Three hours. I, II.**
Formerly GSC 261.
This biological science course emphasizes the interactions between life and the environment which help us understand current and future problems facing mankind. The impact of population growth and technological growth on basic functions of life and man will be stressed. Two lectures and a laboratory class.
- 171 Man's Physical Universe. Three hours. I, II.**
A simple exploration of key ideas in physical science aimed at the curious non-scientist; the nature of science, cosmology, the many forms of energy, problems of nuclear power. Emphasis is on science as a human activity having a great impact on society. Two lectures and a laboratory-discussion class.
- 172 Man's Physical Environment. Three hours. I, II, S.**
This physical science course, intended for the non-science student, will include a study of atoms, molecules, their chemical and physical properties, and chemical topics pertinent to society. Processes underlying geology, weather and oceanography will be emphasized as important for man and his welfare. Two lectures and a laboratory-discussion class.
- 173 Man's Physical Environment. Three hours. I, II, S.**
This is a non-laboratory physical science. This course is the same as GSC 172 except that, instead of the laboratory, current selected topics emphasizing that impact of the physical sciences on society will be discussed.
- 262 Ecology and Human Affairs. Three hours. I, II.**
Basic principles developed from natural ecosystems are used in considering the role and impact on humans in the total environment. Topics include consequences of the use of fossil energy, impact of pollutants, land and water management problems related to human survival as population expands. Two lectures and a laboratory class.
- 263 Ecology and Human Affairs. Three hours. I, II.**
This is a non-laboratory biological science. This course is the same as GSC 262 except that, instead of the laboratory, current selected topics relative to the impact of humans on natural ecosystems will be discussed.
- 280 Science and Society. Three hours. I, II, S.**
This is a non-laboratory course involving selected case studies in contemporary science. Examples of topics to be considered; creativity in science; environmental uses and abuses; science and politics; science and religion; population problems; bio-engineering; science and military functions; biology of aging; race and behavior; science and the future.

Humanities (GSH)

A. Brooks, Chairman; Heerens, Holland, Shearon

GSH HUMANITIES

- 124 Introduction to the Study of Humanities. Three hours. I, II.**
This course introduces students to a consideration of what it means to be human. An interdisciplinary approach leads students to recognize basic human feelings, ideals, and strivings as they are expressed in selected examples of the literature, visual art, and music of the contemporary world, prehistoric societies, pre-literate cultures, and the ancient civilizations of Mesopotamia, Egypt, and Crete.
- 126 Humanistic Expression in Pre-Industrial World Civilizations. Three hours. I, II.**
This course explores universal aspects of human experience by focusing on human feelings, ideals, and strivings as they have been expressed in the literature, visual art, music, and philosophy of pre-industrial civilizations in the ancient Near East, India, China, Africa, and Europe during the Middle Ages, Renaissance, and Reformation.
- 228 Humanistic Expression in the Modern World. Three hours. I, II.**
This course explores universal aspects of human experience by focusing on human feelings, ideals, and strivings as they have been expressed in the literature, art, music, and philosophy of cultures during the transition to industrial civilization.
- 230 The Contemporary Crisis in Humanistic Experience. Three hours. II.**
This course leads students in a consideration of the problems of establishing and maintaining values in the contemporary world. This crisis is examined in selected examples of contemporary literature, visual art, and music. Students are encouraged to clarify their own values through a consideration of the values they believe will make their lives more meaningful.

Basic Physical Education (GSP)

J. Deck, Chairman

GSP PHYSICAL EDUCATION

- 180 Basic Physical Education. One hour. I, II.**
Formerly Physical Education 115.
A combination of lecture, assigned readings, and selected activities. Includes an interpretation of scientific data regarding the need for and biophysical values of muscular activity.

Activities for Men and Women

Beginning Swimming	Folk and Square Dance
Intermediate Swimming	Bowling
Advanced Swimming	Archery
Lifesaving	Badminton
Synchronized Swimming	Developmental Physical Education
Water Polo	Handball
Springboard Diving	Self Defense
Apparatus	Track and Field
Tumbling	Fencing
Golf	Physical Maintenance
Tennis	Social Dance
Body Form and Function	Modern Dance

Weight Control
Racquetball
Aerobics
Volleyball

Weight Training
Jogging
Adapted Physical Education

- 181 Basic Physical Education. One hour. I, II.**
Formerly Physical Education 116.
A continuation of GSP 180.

Health (GSP)

H. Bush, Chairman

GSP HEALTH

- 281 Personal and Community Health. Two hours. I, II.**
Formerly Health 201.

An interpretation of scientific findings in health concepts, nutrition, emotional health, family health, diseases, dependencies, physical fitness, environmental health and community health agencies. Emphasis placed on stressing intelligent self-direction of health behavior and acceptance for responsibilities in personal and community health.

Social Science (GSS)

K. Tunnell, Chairman; Barlow, Biesinger, Boyd, Campbell, Chase, Chittum, Clay, Ellis, Everman, Johnson, C. Lewis, M. Lewis, R. Lewis, McCord, Mylum, K. Nelson, Nichols, Nyerges, Orchard, Roberts, Roitman, A. Stebbins, Stone, M. L. Taylor, Webb.

GSS SOCIAL SCIENCE

- 142 Man, Culture, and Society. Three hours. I, II.**

The scientific approach to man: attitudes, methods, concepts; basic terms of social science; biological, psychological, and social foundations of human life; the principles of cultural change; patterns of cultural evolution; examples from non-literate cultures and ancient civilizations.

- 144 Ideologies and Institutions of Contemporary Society. Three hours. I, II.**

Ideologies which have dominated 20th century social thought and the institutions which are justified by these ideologies; liberalism, conservatism, socialism, and nationalism; the American economic and political systems; the Soviet political and economic systems; status and power in the American and Soviet systems.

- 246 Pre-Industrial World Civilization. Three hours. I, II.**

Theories and concepts for the analysis of civilization; contrast between the emerging industrial world and humanity's separate pre-industrial heritages; aspects of the past which conflict with and resist demands of the new scientific-technological age; global patterns and examples of pre-industrial civilization; the pre-conditions of industrial civilization.

- 247 Industrialism in World Civilization. Three hours. I, II.**

Examination of the developing and expanding industrial environment since 1800 with emphasis upon cultural change and problems of adjustment, Science and inventions, changing ideologies, nationalism, imperialism, collectivism, and the 20th century crisis.

- 248 **The Human Problem in the 20th Century. Three hours. I, II.**
The contemporary crisis, an assessment of the post-industrial world; the revolution of technology; social, political, and economic maladjustments; personal and social disorganization; scarcity economics and the promise of affluence; the interdependent world; the complexity of post-industrial society; the question of civilization's survival.

Learning Laboratory (GSL)

A. Algier, Supervisor; Brown, Conaway, Gray, Hunt,
Libbey, Maki, Warming

GSL LEARNING LABORATORY

- 111 **Rapid Reading-Study Skills. One hour. I, II.**
The seven-week course is designed to help college students improve study methods, vocabulary, reading comprehension and note taking skills. Emphasis is placed on active learning techniques.
- 201 **Vocabulary—Symbolics of Information. Two hours. I, II.**
Intensive and extensive vocabulary study to provide control of college reading materials. Practice in pronunciation, reading, and translation of wide-range college-level vocabulary. Course includes Greek and Latin roots for vocabulary analysis and symbol mastery.
- 002 **Refresher Mathematics. (Three hours equivalency). I, II.**
Non-credit review of fundamentals of mathematics, including pre-college algebra, fractions, and geometry.
- 003 **Refresher English. (Three hours equivalency). I, II.**
Non-credit review of fundamentals of English; includes spelling, grammar, usage, punctuation and problems of composition.
- 004 **Refresher Natural Science. (Three hours equivalency). I, II.**
Non-credit review of basic scientific terms in the natural science area; understanding diagrams, charts, and graphs, introduction to specific areas in biological and physical sciences.
- 005 **Refresher Social Science. (Three hours equivalency). I, II.**
Non-credit. A structural review of the United States, World History and economics, with special emphasis on interpretation of maps and graphs.
- 006 **Refresher Communication Skills. (Three hours equivalency). I, II.**
Non-credit developmental reading skills; comprehension, context clues, structural analysis, and vocabulary improvement.

Career Counseling

GCS CAREER COUNSELING

- 199 **Career Counseling Seminar. One hour.**
The eight-week course is designed to assist students in making wise career decisions. Course content is designed to develop self awareness, values, clarification, and awareness of career alternatives. Experiences are provided to develop decision making skills. A strong emphasis is given to exploring the world of work relative to job traits, demands, rewards, and future trends.

Military Science (MIL)

COL C. D. Phillips, Chairman; LTC J. Bisping, LTC McCullough, MAJ Little, CPT Bruner, CPT Cercone, CPT Dowling, CPT Fleming, CPT Fox, CPT Garwood, CPT Keller, CPT Clinger, CPT Smith

Eastern Kentucky University maintains a unit of the senior division of the Army Reserve Officers' Training Corps (ROTC) under provisions of the National Defense Act of 1916, as amended.

The Four Year ROTC Program

A complete Military Science Program is four years in length. Its successful completion qualifies students to be commissioned second lieutenant in one of seventeen branches of the United States Army. The following courses are required for successful completion: MIL 101, 102, 201, 202, 301, 302, 401, 402 or 403 (Military Police option, 403, in place of 402), and 410 (Military Science Practicum Advanced).

The four year program is divided into a two year Introduction to Military Science (100-200 level) and two years of Advanced Military Science (300-400 level). The objectives of the Introduction are to develop leadership potential, impart citizenship education, examine Defense Department roles and missions, and to motivate students for future useful service to the nation in whatever careers they may choose. The Advanced objective is to produce junior officers for the US Army — Active, Reserve or National Guard — who by education, experience, attitude and inherent qualities are suitable for continued development as career officers.

US Military veterans with one or more years of active federal service receive eight credit hours for the Introduction to Military Science and are eligible to begin the program at the Advanced level.

Students with three or more years in high school Junior ROTC are also eligible to begin the program at the Advanced level.

The Two Year ROTC Program

As with the Four Year ROTC Program, this is a complete Military Science Program; the successful completion of which qualifies students to be commissioned a second lieutenant as indicated above in the Four Year Program. The following courses are required for successful completion: MIL 210 (Military Science Practicum - Basic), 301, 302, 401, 402 or 403 (the Military Police option 403 may be taken in place of 402) and 410 (Military Science Practicum - Advanced).

The Military Science Practicum, MIL 210, is substituted for MIL 101, 102, 201 and 202, that are requisites for the Four Year Program, and receive the same hours of academic credit.

Minor in Military Science

A student may minor in Military Science by completing 10 hours of Advanced Military Science (MIL 301, 302, 401, and 402 or 403) and nine hours from the following electives: EDP 312, FIN 324, Foreign Language (six hours of same language), GEO 303, MGT 200, OAD 400, PHY 211, POL 370, PSY 211, and SPK 150. Courses used toward the minor may not be used to meet major or general education requirements.

Introduction to Military Science

MIL MILITARY SCIENCE

- 101 Group Dynamics of Leadership. Two hours.**
Illustrates combat unit group dynamics; develops leadership through situation-simulation and problem solving as both group member and group leader; analyzes the Constitutional and historical basis for the U.S. Army; traces the evolution and organization of the modern army; provides an orientation on the origins and forms of war, and the national responses to war; clarifies the role of the military in a democracy; and discusses the professional role of both the noncommissioned and commissioned officer in today's army.
- 102 Small Group Management and Leadership. Two hours.**
Introduces the dynamics of individual behavior and motivation; expands the principles to demonstrate group behavior and motivation; examines the leader's ability to define and direct group behavior and solidarity; illustrates the military unit as a human organization by discussing several diverse combat and non-combat types of small units; examines the development of leadership in a military unit; demonstrates several styles of leadership and counseling techniques; compares the similarities and differences in civilian and military leadership; defines tactics, strategy and the principles of war; and applies all the above material as a cohesive whole by dealing at length with various types of tactical decision-making.
- 201 Dynamics of Operational Teamwork. Two hours.**
Develops an ability at task-organizing human groups and material for accomplishment of various missions; provides leader/managerial experience through situation-simulation in civil-military, disaster relief, and combat operations; constructs illustrative models for case study solution in both conventional and political warfare; introduces the staff functions of Personnel, Intelligence, Operations, Logistics and Civil-Military Operations and their relationship to company-sized operations; and utilizes a basic skill-level at map reading as a vehicle for practicing all of the above.
- 202 American Military History, Past, Present and Future. Two hours.**
Examines U.S. military history from pre-Revolutionary times to post-Vietnam current military theory; defines the principles of war and the language of strategic maneuver; discusses the interaction of the military with political systems; develops leadership through a system of individual preparation and group contribution in case studies which apply the principles of war to all U.S. military historical periods; and analyzes the present-day and probable future organization and strategy of the U.S. Army based on current international developments.
- 210 Military Science Practicum (Basic). Eight hours.**
Introduces Military Science in a comprehensive, summer field course designed to be taken in lieu of MIL 101, 102, 201, and 202 for students who were unable to complete those courses; emphasizes practical field application and leadership development of academic course content.

Advanced Military Science

Prerequisites: Introduction to Military Science or prior military service; acceptance by the Professor of Military Science; pass standardized qualification test. (MIL 305 and 306 open to any EKU student.)

- 301 Leadership and Management 1. Four hours. II.**
Defines and illustrates principles of leadership and management; distinguishes between interpersonal communications and the nontactical and tactical environments; develops staff expertise and command presence thru management situation-simulation and problem solving as staff-member/commander; provides field training and command post exercises.
- 302 Fundamentals and Dynamics of the Military Team 1. One hour. I.**
Analyzes tasks and organizations of combat arms and technical services; develops leadership and command presence thru situation-simulation and problem-solving as staff-member/commander.
- 305 Theory and Dynamics of Aviation (Ground Training). Two hours. A.**
Introduces theoretical concepts of flight; analyzes aviation weather; illustrates navigation by pilotage, dead reckoning and radio aids; defines Federal Air Regulations; examines flight computer operations. Satisfactory completion should adequately prepare student to pass FAA's Private Pilots' Written Examination.
- 306 Theory and Dynamics of Aviation (Flight Training). Two hours. A.**
Introduces aircraft operations and safety; constructs patterns for basic flight maneuvers, cross-country navigation, in-flight emergency procedures; provides actual experience in basic and advanced (solo) airmanship. Satisfactory completion will lead to an FAA Private Pilot's Certificate.
- 401 Fundamentals and Dynamics of the Military Team 2. Four hours. I.**
Develops staff officer responsibilities, skills and procedures and instills command presence in analysis, decision-making and implementation of task-oriented orders thru management situation-simulation and problem-solving as staff-member/commander; demonstrates command supervision of military intelligence, law, and administrative/logistical management; discusses internal defense and development; establishes an analytical operating framework for application of modern scientific methods to materiel and personnel management.
- 402 Leadership and Management 2. One hour. II.**
Demonstrates the impact of world affairs on U.S. Armed Forces; defines the societal role of military officers to their nation, their men, and themselves; develops an objective awareness of geopolitical factors in warfare; establishes a basic understanding of the Geneva Conventions and Laws of Land Warfare applicable to any conflict situation the U.S. may encounter.
- 403 Leadership and Management 2 (MP Option). One hour. II.**
Defines Military Police authority and jurisdiction within U.S. and overseas; differentiates between organization and functions in garrison and in combat; establishes a basic understanding of prisoner of war operations, rear area security, and traffic reconnaissance; establishes a basic understanding of the Geneva Conventions and Laws of Land Warfare applicable to any conflict situation the U.S. may encounter.
- 410 Military Science Practicum (Advanced). Six hours. A.**
Develops leadership thru intensive six-week Summer Field course of rotating leader/command experience in problem analysis, decision-making and troop leading while providing in-depth coverage of technical and tactical subjects.

College of Allied Health and Nursing

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COLLEGE OF ALLIED HEALTH AND NURSING

David D. Gale, Dean

Charlotte Denny, Associate Dean

Major advances in biomedical knowledge in recent years have created an expanded need for numbers, as well as types, of personnel within the health sciences. The development of an extensive array of health-related programs has been a natural outgrowth of this development in terms of state, regional, and national needs. Although the College of Allied Health and Nursing is the newest academic center within the University, the need for education of professionals in health care has long been recognized by Eastern Kentucky University. The College of Allied Health and Nursing collaborates primarily with the College of Arts and Sciences for the basic sciences and other support courses.

Philosophy and Goals

The Allied Health and Nursing Programs comprise an academic community which has as its major objective to educate and train students in the various health disciplines to provide graduates who are prepared to better develop health care programs and delivery systems. These professions are committed to provide personnel for new patterns of health care delivery to meet the challenges of a growing complex society.

Programs in Allied Health and Nursing are designed for students to meet necessary credentialing requirements for successful employment in their chosen health field. Students practice in laboratories equipped to provide simulated situations. In addition, the student is provided with supervised clinical practice and on-the-job experiences. The College of Allied Health and Nursing has contractual agreements with all major health care institutions in the central region of Kentucky, including all acute care facilities in Lexington, Kentucky.

The programs are patient-oriented and designed to meet needs for health services, as well as preparing future educators for health programs. This array of people being educated in a health-oriented environment provides an opportunity for a close working relationship

between faculty, students, and those who are engaged in the actual delivery of health care. In order to further this relationship between the academic and clinical agencies, advisory groups from the various health institutions offer counsel for these programs. In addition, a large number of adjunct faculty serve as a link between the College of Allied Health and Nursing and the community at large.

Faculty members have obtained academic degrees in the disciplines in which they teach as well as fulfilling a requirement of having served as clinicians for a period of time. Faculty are encouraged to maintain both excellence as educators and as clinicians. Faculty in the basic sciences, in addition to providing offerings in biology, chemistry, and physics, provide courses which are designed to meet the special needs of the students in the health professions.

Objectives

The programs in the College of Allied Health and Nursing share common objectives as follows:

1. To provide opportunities, instruction and guided experiences by which the student may learn the basic knowledge and attain skills essential to the practice of his respective profession.
2. To investigate societal needs for health care and patterns of delivery.
3. To determine how additional or better-educated manpower can improve the quality and/or quantity of health care.
4. To encourage students to make meaningful contributions towards the promotion of better health and the prevention of illness.
5. To encourage development of learning experiences that will enhance the team concept in health care.
6. To prepare students to meet necessary credentialing requirements.
7. To provide for career mobility and continuing education within the various health professions.
8. To provide information and consultation to the community and the professions for planning and development.

Admissions Requirements

The College of Allied Health and Nursing accepts applications from all persons who are qualified for admission. Applications should be made well in advance of the expected date of matriculation. All

applicants must provide evidence of their ability to meet the academic standards established by the various programs.

General Admission Policies

1. Students must follow the general admission procedures and policies of the University prior to being considered by the College of Allied Health and Nursing.
2. Preference for admission will be given to Kentucky residents. Out-of-state students will be given appropriate consideration.
3. Careful attention will be given to the applicant's character, attitude, and mental and physical fitness for pursuing a career in one of the nursing or allied health professions.
4. Of necessity, some programs will have a limited enrollment and preference will be given to the best qualified candidates. This determination will be made by the College of Allied Health and Nursing.
5. In the event that a student is not accepted for a program, the student must re-apply by submitting a new application and re-dated materials which will be considered when a new class is accepted.

Students who have not reached a decision of a specific health career may obtain counseling through the Office of the Dean. Students will be provided guidance by program directors, as well as the Admissions Coordinator of the College of Allied Health and Nursing.

All students enrolled in the College of Allied Health and Nursing are required to sign an agreement statement prior to admission to the program which encompasses professional expectations related to the program.

Clinical Facilities

The University maintains formal contracts with over sixty clinical facilities within the Blue Grass region. Almost every specialty within the entire health care spectrum is available as resources to the programs.

Independent Study Laboratory

The purpose of the Independent Study Laboratory is to provide the allied health or nursing student an opportunity to develop skill expertise and self-confidence away from the clinical area. Audio-visual

materials, models, and simulated experiences are made available for the student to gain new knowledge and/or reinforce previous learning.

The objectives of the Independent Study Laboratory are to aid the student in increasing his awareness of:

1. an effective method to perform procedures through practicing the skill;
2. the scientific principles on which the procedure is based;
3. an understanding of the principles of allied health and nursing care;
4. the theoretical concepts in allied health and nursing, through the use of audio-visual materials;
5. the individual learning needs which require additional practice after initial instruction in the class has been given.

Degree and Certificate Requirements

The student is responsible for selection and registration for courses needed for reasonable progress towards their degree or certificate which will enable the student to satisfy requirements for graduation. A student may re-enroll in the same course for a subsequent time only under unusual circumstances and with the written permission of the Dean of the College of Allied Health and Nursing. Students who interrupt their program sequence must obtain approval of the Admissions Committee of the College of Allied Health and Nursing prior to re-entry.

Graduate Program: Master of Arts in Education Allied Health Emphasis

The College of Allied Health and Nursing cooperates with the College of Education and the Graduate School to provide a Master of Arts in Education for students desiring teacher preparation in allied health. The major emphasis of this program is for students who wish to teach in the various allied health disciplines. A core of courses is designed to meet the needs of the students, depending on their clinical backgrounds.

Family Nurse Practitioner Program

The College of Allied Health and Nursing will award a certificate to students completing requirements for the Family Nurse Practitioner

Program. The student must complete all courses and clinical experiences required for this program.

Bachelor of Science Degrees

The College of Allied Health and Nursing offers the Bachelor of Science degree in Medical Record Administration, Nursing, and Occupational Therapy.

Associate of Arts Degrees

The College of Allied Health and Nursing offers the Associate of Arts degree in Emergency Medical Care, Medical Assisting Technology, Pediatric Assisting Technology, Medical Technology, Medical Record Technology, and Nursing.

Certificates

All students completing the Emergency Medical Technician program at the first level (eighty hours) and the one-year program will be awarded a certificate. Students must complete the specified course and clinical requirements.

Degree Requirements

Baccalaureate Degree

1. A minimum of 128 hours with a grade point average of 2.0 overall and a minimum grade of 2.0 in all AHN, EMC, NUR MAS, MRS, OTS, and PAS Courses. Thirty of the last 36 hours must be earned at Eastern Kentucky University. Hours earned through challenge exams do not count toward the 30 required residence hours.
2. The 128 hours must include the following general education requirements:
 - 6 hours in communications
 - 12 hours in humanities
 - 12 hours in social science
 - 12 hours in mathematics and natural science
 - 2 hours in physical education
 - 8 hours in military science or in approved options (men only)(Refer to pp. 54-58 for detailed University general education requirements.)

3. All baccalaureate programs in the College of Allied Health and Nursing are area majors, with no room for a minor in another program.

Associate Degree

1. A minimum of 64 hours with a grade point average of 2.0 overall and a minimum grade of 2.0 in all AHN, EMC, NUR, MAS, MRS, and PAS courses.

All programs of study leading to the Associate of Arts degree must include twenty-five per cent of the total requirements in general education courses. These include GSE 101 and GSE 102, English Composition, plus additional hours to be selected from the courses approved for general education.

These additional hours must represent two different areas (see pp. 57-59). SPE 100, Oral Communication, may be counted as a general education requirement in some Associate Degree programs. All male students not otherwise exempt are subject to the military science requirement.

Requirements for Graduation

Students file an application for graduation in the Dean's office. They should apply by the end of April if they will complete requirements in December, and by the end of October if they will graduate in May or August. It is the student's responsibility to plan his program and to register for the proper courses so that he will have satisfied all requirements at the time he expects to graduate.

Preprofessional Curricula

Pre-Dental Hygiene

Students interested in becoming dental hygienists may take two years of pre-dental hygiene and transfer these credits to a school of dental hygiene. The curriculum complies with the general entrance requirements for dental hygiene schools, although some modification may be necessary to meet the specific requirements of a few schools. A minimum of 64 credit hours (exclusive of physical education and academic orientation) must be completed before transferring to a School of Dental Hygiene.

MAJOR REQUIREMENTS16 hours
 BIO 141, 211, 221, 242.

SUPPORTING COURSE REQUIREMENTS	30 hours
MAT 107; CHE 111, 112; SPE 100; NFA 201; PSY 211, 305; SOC 131, 320 or 335.	
GENERAL EDUCATION REQUIREMENTS	25 hours
GSO 100; GSE 101, 102; 6 hours Humanities; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women): Refer to pp. 54-59 for detailed University general education requirements.	
FREE ELECTIVES	3 hours
TOTAL CURRICULUM REQUIREMENTS	74 hours

Pre-Physical Therapy

Students who plan to enter the field of physical therapy may elect to take two years of pre-physical therapy and then transfer these credits to another university of their choice. Students in pre-physical therapy should discuss the admission requirements of the physical therapy school with their pre-physical therapy advisor. The two-year curriculum given below will meet the requirements of freshman and sophomore physical therapy curricula at most schools.

MAJOR REQUIREMENTS	12 hours
BIO 141, 211, 242.	
SUPPORTING COURSE REQUIREMENTS	28 hours
MAT 107; CHE 111, 112; PHY 131, 132; PSY 211, 312 or 308.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102; 12 hours of Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours of Social Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-59 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	83 hours

Associate of Arts Degree

Emergency Medical Care Program

Hammack, Thomas, Coordinator

This program is designed to provide the student with both the theoretical and practical aspects of emergency medical procedures, through the utilization of materials, skills, equipment and the art of emergency care. Upon satisfactory completion of the curriculum, the student is eligible to write the examination for certification by the National Registry of Emergency Medical Technicians. Three levels

of education available in this program are: (1) Basic Emergency Medical Technician, (2) Intermediate Emergency Medical Technician, and (3) Advanced Emergency Medical Technician. The second level leading to certification and the third level two-year program leading to an Associate Degree.

The program has been developed to prepare students to perform procedures in which the instruction is given under the general supervision of a licensed physician. Certain skills will be performed, in the absence of a physician, under the use of standing orders. Students working for an Associate Degree must complete both the required general education courses and the courses required for certification. Students interested in working for the certificate level only must complete the specialized clinical courses which include both theory and experience and maintain a 2.0 grade level in each of the courses completed.

National Registry of Emergency Medical Technicians

Satisfactory completion of the following courses will make a student eligible to take the National Registry of Emergency Medical Technicians examination and, if successful, be designated as a basic emergency medical technician.

AHN

110 Introduction to Emergency Medical Care. 5 hours.

The student will be introduced to the techniques of emergency medical care considered within the responsibilities of the Emergency Medical Care Technician. He will become familiar with the symptoms and treatment, and gain practical experience in the use of emergency medical equipment. The students will learn airway management in cardiopulmonary resuscitation and to take vital signs. The course meets state and national requirements for certification.

EMC

111 Clinical Experience I. 2 hours.

The student will be introduced to the functions of various departments of the hospitals and the policies and procedures employed in each of these areas. The student will assist with patient care, under the direct supervision of personnel in the clinical situation. Must be taken concurrently with AHN 110 for students seeking one year certification or associate degree.

Certificate Program — Emergency Medical Care Technician (One Year)

This Certificate Program is designated for persons desiring a rigorous program to prepare them to deal with emergency medical situations. It provides both the theoretical and practical aspects of emergency medical procedures through the utilization of the materials, equipment, skills and the art of emergency care. Employment is primarily with public agencies charged with providing emergency medical care.

TOTAL CURRICULUM REQUIREMENTS	38 hours
GSO 100; GSE 101; GSE 102; AHN 110, EMC 111, EMC 220; EMC 221; EMC 230; EMC 252; EMC 262; AHN 332; AHN 330.	

Associate of Arts Degree Curriculum Emergency Medical Care Technician

The Associate of Arts degree program is designed for persons desiring a rigorous program to prepare them to deal with emergency medical situations. It provides both the theoretical and practical aspects of emergency medical procedures through the utilization of materials, equipment, skills and the art of emergency care. Employment is primarily with public agencies charged with providing emergency medical care.

FRESHMAN YEAR	34 hours
GSO 100; GSE 101; GSE 102 or 105; GSP 180; GSP 181; MIL 101 or option; MIL 102 or option; AHN 110; EMC 111; EMC 220; EMC 221; BIO 171; BIO 301; GSP 281.	

SOPHOMORE YEAR	33 hours
EMC 230; EMC 252; EMC 262; AHN 330; AHN 332; MIL 201 or option; MIL 202 or option; LEN 101; GSS 142; POL 332; Humanities elective.	

TOTAL CURRICULUM REQUIREMENTS	67 hours
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Course Descriptions

AHN ALLIED HEALTH & NURSING

EMC EMERGENCY MEDICAL CARE

AHN 110

Introduction to Emergency Medical Care. 5 hours.

The student will be introduced to the techniques of emergency medical care considered within the responsibilities of the Emergency Medical Care Technician. He will become familiar with the symptoms and treatment, and gain practical experience in the use of emergency medical equipment. The students will learn airway management in cardiopulmonary resuscitation and to take vital signs. The course meets state and national requirements for certification.

EMC 111

Clinical Experience I. 2 hours.

The student will be introduced to the functions of various departments of the hospitals and the policies and procedures employed in each of these areas. The student will assist with patient care, under the direct supervision of personnel in the clinical situation. This course must be taken concurrently with AHN 110 for students seeking one year certification or associate degree.

EMC 220

Intermediate Emergency Medical Care. 5 hours.

The student will learn and gain experience in many techniques and skills used in treatment of medical emergencies. Introduction to intravenous fluid therapy, interpretation of EKG's and the use of various pieces of monitoring equipment. Study of cardiac problems, myocardial infarction and congestive heart failure.

AHN ALLIED HEALTH & NURSING**EMC EMERGENCY MEDICAL CARE****EMC****221****Clinical Experience II. 3 hours.**

Students will be rotated through anesthesiology, morgue, surgical pulmonary care, and emergency department. This course requires concurrent enrollment in EMC 220.

EMC**230****Advanced Emergency Care. 3 hours.**

A general review of the management of emergency medical care. Advanced techniques will be covered in this course. Pre-requisite: EMC 220.

EMC**252****Management of Trauma and the Acutely Ill. 4 hours.**

Students will be introduced to pathological changes that occur during trauma and methods of therapy involved in its correction. Pre-requisite: EMC 220.

EMC**262****Mobile Intensive Care Internship. 4 hours.**

The student will participate in an operational mobile intensive care team and apply the principles and knowledge that has been gained as a result of the educational experience. Pre-requisite: EMC 220, EMC 252.

AHN**330****Introduction to Pharmacology. 3 hours.**

Provides an introduction to the classification, nature and uses of drugs including dosages, solutions, effects and side effects and contraindications of drugs. Pre-requisite: EMC 220 or permission of instructor.

AHN**332****Legal Principles for Health Care Professionals. 2 hours.**

This course will cover the basic aspects of the practice of law and its implications for health care workers. The course will cover malpractice, consents, contracts, and individual rights.

Associate of Arts Degree**Medical Assisting Technology and
Pediatric Assisting Technology****Thurman, M., Coordinator; Berge**

The Medical Assisting Technology Program and the Pediatric Assisting Program prepare individuals for employment in physicians' offices, clinics and other health care settings. The focus of both programs embodies the health sciences and the appreciation of individual human dignity.

Since the public is demanding and deserves better medical care, qualified personnel are needed in all the health care facilities. Most practicing physicians and community health care agencies need skilled assistants to expedite the many responsibilities in providing optimum health care.

The curricula combine both general education and specialized education in the fields of Medical Assisting and Pediatric Assisting. Instruction includes both formal class work and directed practice experience in hospitals, physicians' offices, child care agencies, and other health care settings.

The curricula can be completed in four semesters and one summer session. Upon successful completion of either program, the graduate receives an Associate of Arts Degree.

Medical Assisting Technology

The Medical Assisting Technology Program is accredited by the Council on Medical Education of the American Medical Association in collaboration with the American Association of Medical Assistants. Graduates of the program are eligible to take the Certification Examination administered once a year by a national organization, the American Association of Medical Assistants. Graduates of the Medical Assisting Technology Program are prepared:

1. in the physical and psychological preparation of the patient for examination by the physician;
2. in skills such as taking blood pressure, temperature, pulse, and respiration; administering injections; assisting with minor surgery and other treatments; applying heat by diathermy machine;
3. in giving emergency care when necessary;
4. in maintaining and sterilizing equipment;
5. in ordering medical and office supplies;
6. in performing basic laboratory tests such as urinalysis, complete blood count, simple blood chemistries, EKG's and culturing specimens;
7. in scheduling appointments and keeping records;
8. in general secretarial-bookkeeping procedures.

Associate of Arts Degree Curriculum Medical Assisting Technology (MAS)

The curriculum is designed to prepare students for specialized employment in physicians' offices, clinics, and other health agencies.

FRESHMAN YEAR	32-36 hours
ACC 108; AHN 200; BIO 171; CHE 101; GSE 101, 102, or 105; GSO 100; GSP 180, 181; HEA 202; MAS 100, 110; MIL 101, 102 (or options for men); OAD 152.	
SUMMER TERM	4 hours
BIO 273.	

SOPHOMORE YEAR	33-37 hours
AHN 101, 208; BIO 301; MAS 220, 221, 225; MIL 201, 202 (or options for men); NFA 201; OAD 303; PSY 211; elective 3 hours*.	

TOTAL CURRICULUM REQUIREMENTS	69-77 hours
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*Guided elective in Social Science or Humanities.

Associate of Arts Degree in Medical Assisting Technology

MAJOR REQUIREMENTS	18 hours
MAS 100, 110, 220, 221, 225.	

SUPPORTING COURSE REQUIREMENTS	29 hours
ACC 108; AHN 101, 200, 208; BIO 273; HEA 202; NFA 201; PSY 211; OAD 152, 303.	

GENERAL EDUCATION REQUIREMENTS	19-27 hours
BIO 171, 301; CHE 101; GSE 101, 102; GSO 100; GSP 180, 181; MIL 101, 102, 201, 202 (or options for men).	

*GUIDED ELECTIVE	3 hours
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TOTAL CURRICULUM REQUIREMENTS	69-77 hours
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*A guided elective in Social Science or Humanities.

Course Descriptions

MAS MEDICAL ASSISTANT TECHNOLOGY

- 100 Introduction to Medical Assisting. Three hours. I, II.**
Medical assisting responsibilities; medical ethics, etiquette and law; human relations; communications; health insurance plans; medical records.
- 110 Introduction to Clinical Skills in Medical Assisting. Three hours. II.**
Co-requisite: MAS 100.
Clinical skills performed in medical offices with emphasis on: quality control; specimen collection; urinalysis; hematology; asepsis; vital signs; and related pathology and physiological conditions. Six lecture-laboratory hours.
- 220 Medical Office Laboratory Procedures. Four hours. I.**
Prerequisite: CHE 101 and MAS 100, 110.
Co-requisite: BIO 273.
Continuation of MAS 110 with emphasis on: blood chemistries; screening and definitive laboratory tests; electrocardiogram; X-ray safety; and limited physiotherapy. Selected clinical experiences required. Two lecture and eight laboratory hours.
- 221 Medical Assisting Techniques. Four hours. I.**
Prerequisite: MAS 110.
Co-requisite: MAS 220.
Continuation of MAS 110 with emphasis on: physical assessment and medical history; pharmacology and drug administration; major diseases and conditions effecting body systems; emergency procedures; and diet modifications. Selected clinical experiences required. Two lecture and eight laboratory hours.

MAS MEDICAL ASSISTANT TECHNOLOGY**225 Medical Office Externship. Four hours. II.**

Prerequisite: Sophomore standing, enrolled in Medical Assisting Program and minimum grade point standing (GPA) of 2.0 (C).

Supervised practice in physicians' offices, clinics, and other health agencies. Eighteen laboratory hours.

Pediatric Assisting Technology

The pediatric assistant is prepared as a medical assistant who specializes in child health care skills and is employed primarily by pediatricians. The pediatric assistant may also be utilized in well baby clinics, child care centers, community and neighborhood health centers, and other ambulatory child health care facilities supervised by a physician.

Graduates of the Pediatric Assisting Program are prepared to:

1. function as a member of the pediatric health care team;
2. establish and maintain a continuing relationship with the pediatric patient;
3. offer guidance and supervision to the parent in the provision of health care to the well child through knowledge of growth and development;
4. assist the physician in providing health care to children. He or she will possess the knowledge and skills to:
 - a. gather medical data
 - b. perform developmental, auditory, visual, and laboratory screening tests
 - c. identify acute and chronic illnesses
 - d. administer specified medications
 - e. evaluate and temporarily manage emergency situations
5. support the pediatric patient and family during diagnostic and therapeutic procedures through knowledge of human development and behavior.

Associate of Arts Degree Curriculum Pediatric Assisting (PAS)

The curriculum is designed to prepare students to perform general administrative functions and specialized clinical procedures in pediatric health care settings.

FRESHMAN YEAR33-37 hours

AHN 200; BIO 171, 301; CHE 101; GSE 101, 102; GSO 100;
GSP 180, 181; MAS 100, 110; MIL 102, 102 (or options
for men); OAD 152; PSY 211.

FRESHMAN SUMMER	6 hours
NFA 201; PSY 312.	
SOPHOMORE YEAR	30-34 hours
AHN 101, 208, 300, 332; BIO 273; MAS 220, 221; MIL 201, 202 (or options for men); PAS 222, 226.	
TOTAL CURRICULUM REQUIREMENTS	69-77 hours

Associate of Arts Degree in Pediatric Assisting

MAJOR REQUIREMENTS	21 hours
MAS 100, 110, 220, 221; PAS 222, 226.	
SUPPORTING COURSE REQUIREMENTS	29 hours
AHN 101, 200, 208, 300, 332; BIO 273; NFA 201; PSY 211, 312; OAD 152	
GENERAL EDUCATION REQUIREMENTS	19-27 hours
BIO 171, 301; CHE 101; GSE 101, 102; GSO 100; GSP 180, 181; MIL 101, 102, 201, 202 (or options for men).	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	69-77 hours

Course Descriptions

PAS PEDIATRIC ASSISTING

- 222 Comprehensive Child Health Care. Three hours. II.**
Prerequisite: MAS 220, MAS 221, PSY 312.
Principles and methods used in providing health care to children with emphasis on: developmental screening tests; infectious diseases; immunizations; acute and chronic childhood conditions; and treatments and procedures performed in medical settings under the supervision of a physician. Selected interdisciplinary supervised practice required. Two lecture and four laboratory hours.
- 226 Pediatric and Medical Office Externship. Four hours. II.**
Prerequisite: Sophomore standing, enrolled in Pediatric Assisting Program and minimum grade point standing (GPA) of 2.0 (C).
Supervised practice in pediatricians' offices, medical offices, child health clinics and other child health agencies. Eighteen laboratory hours.

Associate of Arts Degree

Major in Medical Record Technology

Holmes, E., Coordinator; Baker, Dale, Germann, Koch

The curriculum is designed to prepare students for work with medical records in various types of health care facilities. This two-year program is approved by the Council on Medical Education of the American Medical Association in collaboration with the Committee

on Education and Registration of the American Medical Record Association and leads to an Associate of Arts Degree. Graduates are eligible to take the national accreditation examination to become an Accredited Record Technician. Accredited Record Technicians serve as specially trained assistants to Registered Record Administrators, carrying out the many technical activities within a medical record department.

The objectives of the Medical Record Technology Program are:

1. To prepare students at the Associate Degree level to work in any type of health care facility in the performance of the following functions:
 - a. the storage, retrieval, integration and coordination of patient information
 - b. the quantitative analysis of medical records in accordance with existing standards and regulations
 - c. the release of information from medical records in accordance with the established local, state and federal regulations
 - d. the coding and indexing of diseases and operations, and the maintenance of secondary records and indices
 - e. the compilation of appropriate statistical reports
 - f. the transcription of medical reports
 - g. the assistance to other health professionals in research, audit, and forms design
 - h. the provision of education, information and training of professional and clerical staff
 - i. the supervision of the day-to-day operation of a medical record department;
2. To provide a career-ladder core curriculum for training medical record practitioners (Medical Record Administrators and Medical Record Technicians).

Associate of Arts Degree Curriculum Medical Record Technology (MRT)

FRESHMAN YEAR	37-41 hours
AHN 100, 101, 200, 208; BIO 171, 301, 378; GSE 101, 102, or 105; GSO 100; GSP 180, 181; HIS 202 or GSS 246, HIS 203 or GSS 247; OAD 280; (Military Science Requirements).	
SOPHOMORE YEAR	30-34 hours
EDP 312; GSP 281; MRS 203, 205, 206, 215; OAD 301; SPE 100; (Military Science Requirements).	
TOTAL CURRICULUM REQUIREMENTS	67-75 hours

Bachelor of Science Degree Area Major in Medical Record Administration

Holmes, E., Coordinator; Baker, Dale, Germann, Koch

The Medical Record, two-plus-two (MRT-MRA) Program offers a curriculum leading to an Associate of Arts Degree in Medical Record Technology and/or a Bachelor of Science Degree in Medical Record Administration. This program is comprised of four levels (Pretechnical, Technical, Preprofessional and Professional). Students desiring to become Medical Record Technicians are required to successfully complete the pretechnical and technical levels of the MRT-MRA curriculum. Students who are A.R.T.s and those interested only in becoming Medical Record Administrators are required to successfully complete the preprofessional and professional levels of the MRT-MRA curriculum.

The curriculum is flexible and is designed to meet the needs of potential Medical Record Students.

The objectives of the professional curriculum in Medical Record Administration are to prepare the student, by means of theoretical and practical instruction:

1. To develop and demonstrate the ability to plan, perform, supervise, and evaluate the performance of the following functions:
 - a. the storage, retrieval, integration and coordination of patient information
 - b. the quantitative analysis of medical records in accordance with existing standards and regulations
 - c. the release of information from medical records in accordance with established local, state and federal regulations
 - d. the coding and indexing of diseases and operations, and the maintenance of secondary records and indices
 - e. the compilation of appropriate statistical reports
 - f. the transcription of medical reports
 - g. the assistance to other health professionals in research, audit, and forms design
 - h. the provision of education, information and training of professional and clerical staff;
2. To develop and demonstrate competence in the techniques of organization and management;
3. To develop and demonstrate an awareness of the technologies

- and equipment affecting information storage and retrieval, and to develop the ability to utilize these resources appropriately;
4. To develop and demonstrate an understanding of the history and development of the medical record profession, with emphasis on current and future trends;
 5. To develop and demonstrate an understanding of the responsibilities of the medical record profession, and its relationship to other professions;
 6. To develop an awareness of the need for continued professional education and growth;
 7. To develop an interest in the promotion of the medical record profession, and encourage potential candidates toward this goal.

Bachelor of Science Degree Curricula Medical Record Administration (MRA)

MAJOR REQUIREMENTS	64 hours
AHN 100, 200, 208, 450, 460; BIO 171, 301, 378; MRS 203, 205, 206, 215, 303, 313, 402, 403, 404, 405, 412, 413.	
SUPPORTING COURSES	24 hours
AHN 101; EDP 312; HEA 416, 450; OAD 280, 301, 560; SPE 100.	
GENERAL EDUCATION	41- 49 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203 and 6 hours of Social Science; 6 Hours of Natural Science and/or Mathematics; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	129-137 hours

Course Descriptions

MRS MEDICAL RECORD SCIENCE

- 203 Introduction to Medical Science. Three hours. I, II.**
An introduction to medical science including study of the nature, cause and treatment of disease.
- 205 Basic Foundation for Health Information Systems. Five hours. I, II.**
(Formerly MRS 110, 111, 212).
The medical record organizations, the medical record administrator, the medical record technician and organizational structure of the medical record department; the medical record, its content and origin of clinical information; basic skill in methods of securing, identifying, numbering, filing, preserving and retrieving medical records; standards of documentation — qualitative and quantitative analysis of medical records with regard to standards; nomenclature and classification systems. (Laboratory Experience and Directed Practice Required.)

MRS MEDICAL RECORD SCIENCE

- 206 Directed Practice and Seminar in Health Record Technology and Supervision. Six hours. I, II.**
Students assigned to health information centers the last half of the semester for additional experiences in the technical aspects of medical records. A two-hour seminar per week is designed for students to explore potential methods of identifying and solving specific types of problems encountered during their directed practice. Prerequisite or Corequisite: MRS 205, 215.
- 215 Management of Health Data. Five hours. I, II.**
(Formerly MRS 210, 211)
Designed to teach the manual, mechanical and electronic techniques for processing medical information; statistical and research techniques; accreditation standards for health care facilities; federal, state and local laws and regulations as they pertain to medical records and the health care field; organization and management principles as applied to administration of health record services. (Laboratory Experience and Directed Practice Required.)
- 303 Organization and Management of Health Information Centers. Three hours. I, II.**
(Formerly MRS 323, 424.)
Organization and management principles as applied to administration of medical record sciences; principles and systems design, analysis and control as applied to the processing of health record information; development of information and management systems. (Laboratory experience required.) Prerequisite: MRS 205, 215.
- 313 Current Trends in Health and Health Information Systems. Three hours. I, II.**
(Formerly MRS 423.)
A seminar course discussing the current trends in health care delivery; recent research, theory, issues and developments in the field of medical record administration; changing roles of health care providers; current status of health information systems and applications of automated data processing techniques to the health field; security in health data — moral and legal principles involving control and use of health information and confidentiality of medical information.
- 402 Computerized Health Information Systems. Two hours. I, II.**
An introduction to automation information systems useful to health care facilities and agencies and the current application of information systems and techniques in the health care field. (Lab Required.) Prerequisite: EDP 312.
- 403 Special Programs for Medical Record Science. Three hours. I, II.**
Study of the methods, materials and curriculum design for teaching courses in medical record science. (Laboratory experience required.) Prerequisite: Senior Classification in the Medical Record Administration Curriculum.
- 404 Practicum in Special Programs for Medical Record Science. Four hours. I, II.**
Observation and teaching, under professional supervision, courses in medical record science. Prerequisite: MRS 403.
- 405 Clinical Practicum and Residency in Health Information Centers. Five hours. I, II.**
(Formerly MRS 422.)
Rotation and project assignments in health information centers. Residency stresses management techniques. Prerequisite: MRS 303 and Senior Classification.

MRS MEDICAL RECORD SCIENCE

- 412 Evaluation Techniques of Medical Care. Two hours. I, II.**
A study of the evaluation techniques (including criteria development) for appraising health care; study of the methods of using established criteria in concurrently assessing the appropriateness of admissions and continued hospitalization stay.
- 413 Special Problems in Medical Record Administration. Three hours. I, II.**
(Formerly MRS 420.)
Independent study and research related to problems of a theoretical and/or practical nature in the administration of health record centers. Prerequisite: HEA 450 and Senior Classification.

Bachelor of Science Degree Area Major in Nursing

Voight, J., Coordinator; Adelson, Baker, Cramer,
Duguay, Dziedzic, Fields, Gale, Hunter, Janosko,
Johnson, McGill, Tempas, Walko, Weaver, Wilson

Eastern Kentucky University Baccalaureate Degree in Nursing Program was organized in 1971. Upon completion of the program the graduate is eligible to write the State Board Test Pool Examination for licensure as a registered nurse.

The program is based on the philosophy that each human being has innate worth and dignity as an individual with basic human needs, rights and responsibilities regardless of age, sex, socio-cultural background, race or religious affiliation. The faculty are committed to each student's right to be considered as an individual. In turn, the faculty expect the student to give the same consideration to patients, their families, and to other persons on the health team.

The baccalaureate degree nursing curriculum enables the student to acquire the knowledges, skills, and values necessary to provide a high quality of nursing care. Society and the helping professions are changing; therefore, education should reflect the spirit of a changing society. Students will develop an awareness of change, and be taught to employ a scientific approach in making decisions. General education courses including liberal arts, supportive physical, biological and behavioral sciences, and nursing courses are designed to provide the student with both broad and specific competencies which will enable him to contribute toward meeting present and future health needs of society. The learning of these competencies is developed progressively and provides the basis for rationale in nursing intervention. The faculty

accept a strong commitment to assist the student in becoming aware of his own values, and the relation of his values to his actions.

Objectives

The Department of Nursing will provide the baccalaureate degree nursing student educational experiences which will enable him to:

1. administer safe, effective nursing care, utilizing basic nursing theories and science as well as the basic professional nursing skills and techniques;
2. interact competently and effectively with other health disciplines to deliver quality health care;
3. recognize and assume the professional responsibilities of the nurse as a member of society;
4. utilize the nursing process in providing quality care based on individualized and creative approaches;
5. guide and direct the delivery of comprehensive nursing care, in structured or unstructured settings;
6. encourage and participate in nursing research, to improve the quality of nursing care;
7. have an adequate basic for graduate study in nursing;
8. utilize basic teaching principles in providing for client's health needs.

Bachelor of Science Degree Curricula Nursing (NUR)

MAJOR REQUIREMENTS	44 hours
NUR 301, 302, 303, 304, 305, 401, 402, 403, 404 or 405, 406, 407, 408.	
SUPPORTING COURSE REQUIREMENTS	44 hours
BIO 171, 273 and 301; CHE 101, 102 and 330 or NFA 301; NFA 201, 302; HEA 455 or BIO 321; PSY 211, 312, 314; SOC 131, 353 or PHI 515.	
GENERAL EDUCATION REQUIREMENTS	38 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 3 hours Social Science Area III.B.2; GSP 180, 181; MIL 101, 102, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	4 hours
To be selected by student from University offerings.	
TOTAL CURRICULUM REQUIREMENTS	130 hours

Course Descriptions

NUR NURSING

- 301 Introduction to Professional Nursing. Five hours. II.**
Fundamental processes of nursing; development of basic skills in procedures, communication, interaction, problem solving; planning, administering and evaluating patient-centered care to individuals with uncomplicated conditions; focus on knowledge of self and patient reaction to illness; selected clinical experiences required.
- 302 Adult Medical-Surgical Nursing I. Five hours. I.**
Concepts and skills used in providing professional nursing care to adults with physical and emotional illnesses; focus on problem solving based on principles of human development, pathophysiology, mental health and the nurse-patient relationship; selected clinical experiences required.
- 303 Adult Medical-Surgical Nursing II. Five hours. II.**
Continuation of NUR 302 with emphasis on increasing nursing skills in dealing with complex nursing problems.
- 304 Maternity Nursing. Five hours. I.**
Family-centered nursing care; problem solving approach to meeting nursing needs of patients during antepartum, intrapartum, postpartum and newborn periods; resources available for families with special problems; selected clinical experiences required.
- 305 Pediatric Nursing. Five hours. II.**
Family-centered nursing care; problem solving approach to meeting nursing needs of infants, children and adolescents; anticipatory guidance based on principles of human development; resources available for special problems; selected clinical experiences required.
- 401 Psychiatric Nursing of Children and Adults. Five hours. I.**
Concepts and skills used in providing professional nursing to individuals and groups of patients in a psychiatric setting; application of psychiatric nursing principles in a nonpsychiatric environment; selected clinical experiences required.
- 402 Community Health Nursing. Five hours. I.**
Concepts of community health; prevention of illness; maintenance, rehabilitation and promotion of higher levels of wellness for individuals, families and the community; role of the nurse in all phases of community health.
- 403 Guiding and Directing Patient Care. Two hours. I.**
Concepts of management in providing patient care; directing and coordinating ancillary help.
- 404 Administration of Patient Care in the Institutional Setting. Two hours. II.**
Experiences in administration of patient care in institutions such as general hospitals, extended care units, and specialized agencies.
- 405 Administration of Community Health Nursing. Two hours. II.**
Experiences in administration of health care in a community setting with focus on meeting needs of individuals, families, and communities.
- 406 Seminar in Nursing. Two hours. II.**
Recent research, theory, issues and developments in the field of nursing.
- 407 Special Problems in Nursing. Two hours. II.**
Independent study and research related to problems of a theoretical and/or practical nature.
- 408 Nursing Research. One hour. I.**
Fundamental research principles and research proposal preparation.

AHN ALLIED HEALTH & NURSING**450 Seminar in the Disease Process and Implications I.
Two hours. I, II.**

Prerequisite: Completion of, or current enrollment in medical-surgical nursing and approval of instructor.

Theory and research in pathophysiology of the disease process. Emphasis on in-depth study of the most prevalent, major diseases of man and their management through surgical intervention.

**460 Seminar in the Disease Processes and Implications II.
Two hours. I, II.**

Prerequisite: Completion of, or current enrollment in medical-surgical nursing and approval of instructor.

Theory and research in pathophysiology of the disease process. Emphasis on in-depth study of the most prevalent, major diseases of man and their management through medical intervention.

Associate Degree Nursing Program

Associate of Arts Degree

Major in Nursing

Sloan, P., Coordinator; Abrams, Ashcraft,
Brandenburg, Brown, Burch, Chappell, Coleman,
Collins, Jones, Justiniano, Long, Luy, Lynn,
Murray, Page, Pieraerts, Porteus, Rawlings, Rogers,
Smith, Thompson, Tolman, Vaflor, Wiles,
Wisembaker, Wooten

Eastern Kentucky Associate Degree Nursing Program, organized in 1965, is a nationally-accredited two-year program leading to an Associate of Arts Degree in Nursing. Upon completion of the program the graduate is eligible to take the State Board Test Pool Examination for licensure as a registered nurse and practice in first level positions.

The program is based on the philosophy that each human being has innate worth and dignity as an individual with basic needs, rights and responsibilities, regardless of sex, age, race, creed, marital status, developmental level, social or cultural background.

The faculty believe that education is a continuous, dynamic process which responds to the needs of society and contributes to quality of life; that the learning process, composed of motivation, knowledge, understanding and experience, results in changes in behavior; that an atmosphere which promotes intellectual curiosity is conducive to learning; that nursing is an art, based on scientific principles, which enables the nurse to assist in meeting the health needs of society.

In keeping with these concepts, the faculty are committed to assisting each student in realizing potential as a person, as a citizen and as a member of the health care team.

Objectives

Upon satisfactory completion of the program, the graduate can be expected to:

1. utilize the nursing process in assisting individuals and families toward meeting their physical, spiritual, psychological and social needs;
2. administer safe and effective nursing care, based on physical, biological, social, psychological and nursing science principles;
3. work effectively with other members of the health team;
4. critically evaluate responsibility, whether delegated or assumed, in terms of professional and personal accountability;
5. continue those pursuits which will result in growth, personally, professionally and as a citizen.

Associate of Arts Degree Curricula Nursing (NUR)

The conceptual framework of the curriculum in Associate Degree Nursing is based on Maslow's hierarchy of needs.

FRESHMAN YEAR	32-36 hours
BIO 171; CHE 101; GSE 101, 102 or 105; GSO 100; GSP 180, 181; MIL 101, 102 (or options for mn); NUR 101, 104, 202, and AHN 101.	
SOPHOMORE YEAR	34-38 hours
BIO 273, 301; MIL 201, 202 (or options for men); NFA 201; NUR 201, 203, 204, 205, and 206; 6 hours electives*.	
TOTAL CURRICULUM REQUIREMENTS	66-74 hours

*Restricted electives to be selected from General Education Humanities and Social Science. General Psychology may be substituted for the Social Science elective.

Course Descriptions

NUR NURSING

- 101 Nursing Fundamentals. Five hours. I, II.**
Scientific principles underlying nursing care; development of basic skills used in providing patient care. Selected clinical experiences required.

NUR NURSING

- 104 Medical-Surgical Nursing I. Three hours. I, II.**
Co-requisite: NUR 101.
Knowledge and understanding underlying physical and emotional responses to illness and appropriate nursing intervention. Selected clinical experiences required.
- 201 Nursing Care of Children. Four hours. I, II.**
Scientific principles utilized in providing nursing care to children; normal growth and development from infancy through adolescence; development of skills used in providing care for both hospitalized and well children. Selected clinical experiences required.
- 202 Medical-Surgical Nursing II. Five hours. I, II.**
Knowledge, understanding and skills necessary for giving individualized nursing care to adults with common diseases and conditions of gastrointestinal, female reproduction, cardiovascular, respiratory and integumentary systems. Selected clinical experiences required.
- 203 Psychiatric Nursing. Four hours. I, II.**
Concepts and skills needed to interact therapeutically with individuals with emotional problems. Selected clinical experiences required.
- 204 Medical-Surgical Nursing III. Four hours. I, II.**
Continuation of Medical-Surgical Nursing with emphasis on common diseases and conditions affecting the nervous, genitourinary, musculoskeletal and endocrine systems. Selected clinical experiences required.
- 205 Trends and Issues in Nursing. Two hours. I, II.**
A survey of the historical sequence of events leading to the present status of nursing. The ethical, legal and professional responsibilities and opportunities of the nurse as a person, as a nurse and as a citizen are stressed.
- 206 Nursing Care of Mothers and Newborns. Four hours. I, II.**
Scientific principles used in providing nursing care to mothers and newborns; development of skills used in providing this care. Selected clinical experiences required.

AHN ALLIED HEALTH & NURSING

- 101 Interpersonal Relationships in Health Care. Three hours. I, II.**
Principles related to normal behavior and their implications in providing health care.

Family Nurse Practitioner Program

Gaunders, B., Coordinator; Kendall

Introduction

Nurse Practitioners have advanced skills in the assessment of the physical and psycho-social health-illness status of individuals, families or groups in a variety of settings through assessment of health and development history taking and physical examination. They are prepared for these special skills by formal continuing education which adheres to American Nurses Association approved guidelines.

Program Objectives

Graduates shall be able to:

1. Assess the health status of patients, utilizing skills of history taking, performing a physical examination, assessing developmental levels from birth

to death, and make diagnostic and treatment judgments based on the assessment;

2. Manage common health problems and minor trauma recognizing normal vs. abnormal deviations;
3. Recognize health/illness problems which require referral to a physician or other health professional;
4. Monitor clients with chronic health problems and assist patient in planning for health maintenance;
5. Initiate and interpret common laboratory tests related to common acute and chronic illnesses;
6. Identify community resources available to assist clients with socio-cultural, economical, physical or psychological problems and make appropriate referrals;
7. Assist families in planning of health maintenance.

TOTAL CURRICULUM REQUIREMENTS25 hours
 FNP 509; FNP 510; FNP 511; FNP 512; FNP 513; AHN 550.

Course Descriptions

FNP

FAMILY NURSE PRACTITIONER

- 509 Basic Skills in Physical Assessment. Four hours.**
 Emphasis is on the application of basic skills in taking a complete medical history, techniques needed to perform a physical examination, beginning knowledge of interpretation of physical findings, and nursing implications; selected clinical experiences required.
- 510 Family Nurse Practitioner Seminar. Three hours.**
 Discussion of trends, issues, problems and legal implications in the expanding role of the nurse in delivery of primary care, referral functions and relationship to the health care system, community health agencies, and methods of referral in primary care.
- 511 Medical Management and Clinical Pharmacology. Five hours.**
 Focus will be on differential diagnosis and management of common health problems of children and adults. Related laboratory studies, treatment regimes and nursing implications included. Clinical pharmacology as related to the common health problems included.
- 512 Family Nurse Practitioner Clinical Practicum. Eight hours.**
 Field practice with a physician preceptor utilizing physical assessment and selected diagnostic skills with various age groups in community health settings.
- 513 Family Nurse Practitioner Clinical Seminar. Two hours.**
 Focus on individual clinical experience of students and identification of viewpoints of other health professionals in the delivery of primary health care.

AHN ALLIED HEALTH & NURSING

- 550 Theory and Research in Pathophysiology of the Disease Process. Three hours.**
 Emphasis on in-depth study of the more prevalent, major diseases of man and their management through nursing therapeutics.

Bachelor of Science Degree

Area Major in Occupational Therapy

Jeffrey, D., Coordinator; Kshepakaran, Moore, Roose

Occupational therapy is the art and science of directing man's participation in selected tasks to restore, reinforce and enhance performance, facilitate learning of those skills and functions essential for adaption and productivity, diminish or correct pathology and to promote and maintain health. Reference to occupation in the title is in the context of man's goal-directed use of time, energy, interest and attention.

Occupational therapy provides service to those individuals whose abilities to cope with tasks of living are threatened or impaired by developmental deficits, the aging process, poverty and cultural differences, physical injury or illness, or psychologic and social disability.

Occupational Therapy is an integral component of today's comprehensive health care concept. The occupational threapist as a vital member of the health care team, works in concert with qualified physicians, physical and speech therapists, nurses, social workers, psychologists, vocational counselors, teachers, and other specialists.

A Bachelor of Science degree in Occupational Therapy is awarded after successful completion of the Occupational Therapy Curriculum. Following the successful completion of the Field Experience (OTS 381 and 482), a certificate of proficiency is awarded. The graduate is then recommended to sit for the national examination leading to admission to the National Registry maintained by the American Occupational Therapy Association.

Objectives

Curriculum emphasis will be on preparing the students to:

1. evaluate the client, assessing and measuring changes and development;
2. evaluate the client's environment including home, school or work, social and recreational activities;
3. evaluate the community and its resources to support the rehabilitation of the client;
4. plan a treatment program utilizing parents and/or volunteers, community resources;

5. select tasks or activities which will increase the client's functional capacities and which are appropriate to his defined needs and goals.

Bachelor of Science Degree Curricula Occupational Therapy (OTS)

MAJOR REQUIREMENTS	69- 73 hours
AHN 200, 332; BIO 171, 301, 378, 599; OTS 111, 331, 332, 341, 342, 351, 352, 362, 381, 431, 432, 441, 442, 472, 482.	
SUPPORTING COURSE REQUIREMENTS	29 hours
AHN 102; IET 141, 326; PSY 211, 302 or SOC 232; PSY 308, 312, 314; SED 271, 341.	
GENERAL EDUCATION REQUIREMENTS	48 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 5 semester hours of Mathematics and Natural Science, including 3 hours of physical science and three hours lab; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 154-158 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	146-150 hours

A minimum of six months Field Experience (OTS 381 and 482) is required. There are two options:

1. Three months of Field Experience (Internship) can be taken between the Junior-Senior year (June, July, August) and three months of Field Experience (Internship) following the Senior year; or
2. Six months of Field Experience (Internship) following completion of the Senior Year (June through November).

An optional, additional three months of Field Experience can be arranged in an area of specialization to fit the individual student's needs.

Course Descriptions

OTS OCCUPATIONAL THERAPY SCIENCE

- 111 Creative Approaches in Occupational Therapy. One hour. I.**
An introduction to Occupational Therapy. Occupational therapists from a variety of clinical settings will present the various aspects of Occupational Therapy using visual aids, on-site visits, and lectures.
- 331 Skill Module I. Two hours. I.**
Selected topics: the element of layout and design; weaving; loom adaptations; and the construction of necessary adaptations. One hour lecture and two hours laboratory.
- 332 Skill Module II. Two hours. II.**
Prerequisite: OTS 331.
Selected topics: ceramics; and adaptations in ceramics and woodworking. Emphasis will be on adaptations and therapeutic techniques. One hour lecture and two hours laboratory.

OTS OCCUPATIONAL THERAPY SCIENCE

- 341 Field Experience I. Two hours. I.**
Students are assigned to selected field settings. The emphasis is on experiential learning as opposed to performance. Four to six hours.
- 342 Field Experience II. Two hours. II.**
Prerequisite: OTS 341.
Students are assigned to selected field settings. The emphasis is on experiential learning as opposed to performance. Four to six hours.
- 351 Theory Module I. Three hours. I.**
Prerequisite: MAT 101, PSY 302 or SOC 232 and PSY 308.
Selected topics: History of Occupational Therapy, Occupational Therapy as it is practiced today, the Environmental System and discussion of the components of the system, and an overview of the theory modules as they will be presented and their applicability to the field experience; medical lectures on psycho social dysfunction; and the application of materials covered in the medical lectures to the environmental system of Occupational Therapy.
- 352 Theory Module II. Four hours. II.**
Prerequisite: OTS 351, PSY 312; Corequisite: PSY 314, BIO 599.
Selected topics: medical lectures on the aging process, pediatrics, and geriatrics; the application of Occupational Therapy theory to pediatrics, the application of Occupational Therapy theory to geriatrics, the Aging Process and its Relevancy to the environmental system in Occupational Therapy. Three hours lecture and two hours laboratory.
- 362 Human Motion and its Pathology. Three hours. II.**
Prerequisite: BIO 171, 301, 599.
The kinetics of normal and abnormal motion of the musculo-skeletal system are discussed in relation to functional activities. Includes evaluation procedures for muscle strength and range of motion. Two hours lecture and two hours laboratory.
- 381 Field Experience (Internship). Four hours. I.**
Prerequisite: Senior Standing.
Appropriate field experience in settings which provide the student with experience in the areas of medical facilities, social community facilities, and occupational facilities.
- 431 Skills Module III. Three hours. I.**
Prerequisite: OTS 331, 332, 362.
Selected topics include: therapeutic recreational activities; adaptation of equipment and tools; splinting; research and writing. Two hours lecture and two hours laboratory.
- 432 Special Problems in Occupational Therapy. Three hours. II.**
Prerequisite: Senior standing.
The student, in consultation with the instructor, chooses a problem in Occupational Therapy that is related to one of the areas of specialization; medical, social, community, or occupational. An in-depth investigation of the problem will be carried out by the student.
- 441 Field Experience III. Two hours. I.**
Prerequisite: OTS 341, 342.
Students are assigned to selected field settings. The emphasis is on experiential learning as opposed to performance. Four to six hours.
- 442 Field Experience IV. Two hours. II.**
Prerequisite: OTS 341, 342, 441.
Students are assigned to selected field settings. The emphasis is on experiential learning as opposed to performance. Four to six hours.

OTS OCCUPATIONAL THERAPY SCIENCE

- 471 Theory Module III. Five hours. I.**
Prerequisite: OTS 351, 352.
The modules will include: medical lectures on physical dysfunction; evaluation techniques; adaptive housing; activities of daily living; abnormal patterns of communications; and the relationship of physical dysfunction to the environmental system. Three hours of lecture and four hours of laboratory.
- 472 Theory Module IV. Three hours. II.**
Prerequisite: OTS 351, 352, 471.
The modules will include: working with groups; the management of Occupational Therapy; the responsibility of the occupational therapist to the Occupational Therapy profession, and to the environmental system. Two hours of lecture and two hours of laboratory.
- 482 Field Experience (Internship). Four hours.**
Prerequisite: Completion of Occupational Therapy Courses.
Appropriate field experiences in settings which provide the student with experience in the areas of medical facilities, social community facilities, and occupational facilities. (May be repeated for a maximum of 8 hours.)

Allied Health And Nursing Interdisciplinary Courses

The College of Allied Health and Nursing offers courses designed to meet the needs of students in the Allied Health and Nursing Programs. They are designed to promote understanding of the team concept of health care.

AHN ALLIED HEALTH & NURSING

- 100 Introduction to the Health Field. Three hours. I, II.**
An introductory course in familiarizing students with the field of health — the history of medicine and the allied health professions; the organizational patterns and functions of the medical staff, and the various health care institutions and agencies; the role of the profession; ethics of health care; the role of the allied health worker in the health care delivery system.
- 101 Interpersonal Relationship in Health Care. Three hours. I, II.**
(Formerly NUR 102.)
Principles related to normal behavior and their implications in providing health care.
- 102 Emergency Medical Procedures. Three hours.**
Students completing this course will be prepared to counter life-threatening emergencies. Procedures will require minimal equipment to accomplish. Students will be introduced to the following areas: cardiac problems, pulmonary and airway problems, hemorrhage, shock, fractures, wounds, childbirth, and medical and drug emergencies. Not for major credit.
- 110 Introduction to Emergency Medical Care. Five hours.**
The student will be introduced to the techniques of emergency medical care considered within the responsibilities of the Emergency Medical Care Technician. He will become familiar with the symptoms and treatment, and gain practical experience in the use of emergency medical equipment. The students will learn airway management in cardiopulmonary resuscitation and to take vital signs. The course meets state and national requirements for certification.
- 200 Medical Terminology. Three hours. I, II.**
(Formerly NUR 220.)
Emphasis on building vocabulary essential to students in premedical, pre-dental, pre-veterinary medicine, nursing and other health or science curricula. Includes prefixes, suffixes, roots, abbreviations, diseases, operative and drug terms.

AHN ALLIED HEALTH & NURSING

- 208 Medical Transcription. Three hours. I, II.**
(Formerly MRS 208.)
Training and practical experience in transcribing medical reports to include histories, physicals, summaries, operations, autopsies, consultations, pathology, radiology reports and other medical reports.
Prerequisite: Student required to type 40 words per minute, AHN 200, BIO 171 and 301.
- 300 Interdisciplinary Approach to Pediatric Health Care. Three hours. II.**
Co-requisite: PAS 222 or permission of instructor.
Principles and methods used in interdisciplinary team health care delivery to infants and children. Selected interdisciplinary supervised practice required. Two lecture and four laboratory hours.
- 330 Introduction to Pharmacy. Three hours.**
Provides an introduction to the classification, nature and uses of drugs including dosages, solutions, effects and side effects and contraindications of drugs.
- 332 Legal Principles for Health Care Professionals. Two hours.**
This course will cover the basic aspects of the practice of law and its implications for health care workers. The course will cover malpractice, consents, contracts, and individual rights.
- 450 Seminar in the Disease Process and Implications I. Two hours. I, II.**
Prerequisite: Completion of, or current enrollment in, medical-surgical nursing and approval of instructor.
Theory and research in pathophysiology of the disease process. Emphasis on in-depth study of the most prevalent, major diseases of man and their management through surgical intervention.
- 460 Seminar in the Disease Process and Implications II. Two hours. I, II.**
Prerequisite: Completion of, or current enrollment in, medical-surgical nursing and approval of instructor.
Theory and research in pathophysiology of the disease process. Emphasis on in-depth study of the most prevalent, major diseases of man and their management through medical intervention.
- 531 Human Genetics and its Implications for Health Care. Three hours. A.**
A study of the chromosomal basis of heredity, bio-chemical genetics, chromosomal diseases, disorders and syndromes, antenatal diagnosis, immunological disorders, and blood groups. Graduate students will be required to present a human chromosoma analysis study.
Prerequisite: One year of chemistry and biology or consent of instructor.
- 532 Principles of Genetic Counseling. Three hours. A.**
The role of the physician, medical geneticist, and the health care worker in genetic counseling. Topics in genetic principles, probability, Mendelain conditions, linkage, paternity, consanguinity, pentrance and empiric risk counseling, prenatal diagnosis, amniocentesis and consequences of genetic counseling. Graduate students will be required to present a case study.
Prerequisite: AHN 531 or consent of instructor.
- 550 Theory and Research in Pathophysiology of the Disease Process. Three hours. I, II.**
Emphasis on in-depth study of the more prevalent, major diseases of man and their management through nursing therapeutics.

College of Applied Arts and Technology

Agriculture	141
Home Economics	153
Industrial Education and Technology	172

COLLEGE OF APPLIED ARTS AND TECHNOLOGY

Kenneth S. Hansson, Dean

The specific purposes of the College of Applied Arts and Technology are stated in their order of emphasis: 1) to provide selected instructional programs for the preparation of people for careers in the applied arts and technologies; 2) to contribute to the professional growth of individuals in their careers and to the elevation of technical disciplines through public service; and 3) to intensify and broaden the base of knowledge within the applied arts and technologies through research.

The College of Applied Arts and Technology seeks to fulfill its purpose related to instruction by offering a variety of associate, baccalaureate, masters, and specialist degree programs in three departments: Agriculture, Home Economics, and Industrial Education and Technology. The College is committed to the career-ladder concept by providing opportunities for students enrolled in, or completing the Associate of Arts (two-year) degree programs, to transfer to a corresponding baccalaureate program within the same department with little or no loss of credits.

The Department of Agriculture administers two-year programs designed to prepare technicians for agriculture-related occupations. The Associate of Arts Degree is awarded to students who successfully complete the prescribed programs in agricultural mechanization, beef herd management, dairy herd management, floriculture and floristry, ornamental horticulture, and a turf management option in ornamental horticulture. The Department offers baccalaureate programs with majors in technical agriculture and technical horticulture. The Department also administers certain pre-professional and transfer curricula for students who plan to complete baccalaureate programs at other institutions.

The Department of Home Economics offers baccalaureate programs to prepare teachers for vocational home economics, general home economics, as well as specialists in child development, dietetics, fashion, food service administration, and textiles. Under the College of Applied Arts and Technology, the interdisciplinary program which leads to a baccalaureate degree in interior design, is also administered

by this department. Associate degree programs are provided in child care, dietetics technology: nutrition care, food service technology, homemaking supervision, and interior decoration.

The Department of Industrial Education and Technology administers baccalaureate degree programs to prepare industrial arts teachers for secondary schools, vocational-industrial and technical teachers for vocational-technical schools, manual arts therapists, and technicians and technologists for industry. Associate of Arts degree programs are offered in vocational-industrial and technical education, broadcast engineering, computer electronics, drafting and design, electrical power, industrial electronics, instrumentation electronics, printing and wood technology. The Department also offers programs leading to the Master of Science degree in Industrial Education.

The College offers a large number of extended classes and encourages its faculty to provide consultative services for the public good. In addition, the College is engaged in numerous special projects designed for public service and research in the applied arts and technologies.

Agriculture (AGR)

Householder, W., Chairman; Barkley, Britt, Evans, Lay, Shirley, Stocker, Whitaker.

The Department of Agriculture has these basic purposes; (1) to provide programs for the education of technicians for careers in agricultural occupations; (2) to develop new programs to meet the needs of the rapidly developing technology; and (3) to provide work experience as a part of technical education.

The primary purpose of educating students to become agricultural technicians is accomplished by developing these abilities: (1) to attain job entry competence between the skilled and professional levels; (2) to work independently or with minimal supervision; (3) to analyze and interpret information, diagnose problems, make decisions; (4) to make practical applications of theoretical knowledge in performing specific tasks in a specialized field; and (5) to exercise cognitive skills; yet being able to supervise and perform manipulative skills.

Bachelor of Science Degree Curricula Area Major in Technical Agriculture

MAJOR REQUIREMENTS	48 hours
ACC 108*, 6 hours Business Administration*, and 39 hours of specialization in AGR**.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	25 hours
To be selected by student from University offerings.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

*Courses in other disciplines may be substituted with approval of the Chairman of the Department of Agriculture and the Dean of the College of Applied Arts and Technology.

**AGR specialization to be fulfilled through completion of one of the following areas:

Agricultural Mechanization: AGR 213, 272, 310, 382, 383, 392, plus 16 hours electives* in AGR and/or OHO.

Agronomy and Natural Resources: AGR 130, 215, 315, 213, 310, 312, 316, 340, plus 15 hours electives* in AGR and/or OHO.

Dairy Herd Management: AGR 221, 225, 270, 310, 375, 380, plus 16 hours electives* in AGR and/or OHO.

Farm Management: AGR 125, 130, 213, 215, 310, 315, 440, plus 13 hours electives* in AGR and or/ OHO.

Livestock Production: AGR 125, 221, 225, 310, 327, 328, 440, plus 16 hours electives* in AGR and/or OHO.

Vo-Ag preparatory option:

Vocational Agriculture Teacher Certification requires Agriculture or Ornamental Horticulture coursework distributed as follows:

ACC 108, AGR or OHO electives 20 hours and
Agriculture Mechanics 6 hours; Farm Management
3 hours; Livestock Production 6 hours; Plant
Science 6 hours; Soils 6 hours

50 hours

General Education Requirements (as above shown)

55 hours

Electives**, to be selected with consent of advisor

23 hours

Total Vo-Ag Requirements

128 hours

*Electives to be chosen with assistance of advisor and should complement the option.

**During the last semester, the student may attend another Kentucky institution offering professional education courses and student teaching in agricultural

education. Following completion of professional education coursework, the student may then transfer credits earned to Eastern as electives applicable to the Bachelor of Science Degree in Agriculture.

Area Major in Technical Horticulture

MAJOR REQUIREMENTS	48 hours
ACC 108*, 6 hours Business Administration*, and 39 hours of specialization in OHO**.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	25 hours
To be selected by student from University offerings.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

*Courses in other disciplines may be substituted with the approval of the Chairman of the Department of Agriculture and the Dean of the College of Applied Arts and Technology.

**OHO specialization to be fulfilled through completion of one of the following areas:

Ornamental Horticulture: AGR 213, 215, 315; OHO 131, 271, 381, 391;
plus 13 hours electives* in AGR and/or OHO.

Turfgrass Production: AGR 213, 215; OHO 351, 361, 362G, 362H,
362I, 371M; plus 16 hours electives* in AGR and/or OHO.

*Electives to be chosen with assistance of advisor and should complement the option.

First Major in Technical Agriculture with a Supporting Minor

MAJOR REQUIREMENTS	30 hours
MINOR IN BUSINESS ADMINISTRATION REQUIREMENTS* ..	18 hours
ACC 108 and 109; six hours of Business Administration; ECO 230 and 231.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	

FREE ELECTIVES 31 hours
To be selected by student from University offerings.

TOTAL CURRICULUM REQUIREMENTS128 hours

*Other established business area minors are available in economics and data processing, and 18 hours combinations or concentrations of courses are available in the College of Business in finance, marketing, management, real estate, accounting, secretarial science, and office administration.

Minor in other discipline may be substituted with approval of the Chairman of the Department of Agriculture and the Dean of the College of Applied Arts and Technology.

Minor in Agriculture

A minor consists of 18 hours of Agriculture, Ornamental Horticulture (including Turfgrass option) arranged between the department chairman and the student seeking the minor. The objective is to meet the student's need for taking a minor in these areas. However, six or more hours shall be upper division courses.

Associate of Arts Degree Curricula Agricultural Mechanization

A student receiving an Associate of Arts Degree in agricultural mechanization will have had a background of training in the areas of communications, business, and agriculture, in addition to technical training in agricultural mechanization. Graduates will be qualified to seek employment in agricultural business in the areas of sales, parts, assembly, and repair of agricultural equipment.

FRESHMAN YEAR 33 hours
AGR 125, 210, 213, 263, 272; AGR electives, 4 hours;
GSE 101 and 102 or 105; GSO 100; GSP 180, 181;
MIL 101, 102 (or options for men; electives for women).

SOPHOMORE YEAR 32 hours
ACC 108, AGR 301, 382, 383, 392, 410, IET 180, MIL
201, 202 (or options for men; electives for women);
ECO or BUS ADM 3 hours; General Education electives
6 hours.

TOTAL CURRICULUM REQUIREMENTS 65 hours

Beef Herd Management

Upon completion of this curriculum, the student will be in a position to operate a beef production enterprise, to make management decisions and select those systems of breeding, feeding and management that best suit a particular environmental and economic situation related to raising beef cattle.

FRESHMAN YEAR 34 hours
AGR 130, 215, 225, 302 (6 hours), 327; BIO 161 or 162
or GSC 101 or 262; GSE 101, 102; GSO 100; GSP 180;
MIL 101, 102 (or options for men, electives for women).

OPHOMORE YEAR	35 hours
AGR 213, 221, 293, 302 (6 hours)*, 310, 392; General Education electives 6 hours, GSP 181; MIL 201, 202 (or options for men, electives for women).	
TOTAL CURRICULUM REQUIREMENTS	69 hours
Three hours of the practicum may be replaced by AGR 349, Coop. Education.	

Dairy Herd Management

The primary purpose of this curriculum is to give the student a deep insight into the technical management of dairy cattle herds. The training will qualify graduates to work with dairy herds or with related agricultural industries in the areas of sales and service.

FRESHMAN YEAR	34 hours
AGR 130, 210, 225, 263, 270, 302; GSE 101 and 102 or 105; GSO 100; GSP 180, 181; General Education elective 3 hours; MIL 101, 102 (or options for men; electives for women).	
OPHOMORE YEAR	33 hours
AGR 213, 215, or 221, 302, 310, 375, 380; ACC 108; GSP 281; General Education elective 3 hours; MIL 201, 202 (or options for men; electives for women).	
TOTAL CURRICULUM REQUIREMENTS	67 hours

Floriculture and Floristry

A curriculum which prepares students in plant propagation, greenhouse management, greenhouse floral production, floral design and floral shop operations. Graduates will qualify as technical workers in greenhouse growing operations, florist shops, garden centers or may organize their own floriculture business.

FRESHMAN YEAR	33 hours
AGR 210, 213, 215, 263; GSE 101 and 102 or 105; GSO 100; General Education elective 3 hours; OHO 131, 362E, 381; MIL 101, 102 (or option for men; electives for women).	
SUMMER TERM	4 hours
OHO 349.	
OPHOMORE YEAR	31 hours
ACC 108; ECO or Bus. Adm. 3 hours; CHE 101; General Education elective 2 hours; OHO 271, 363, 384, 385, 362; MIL 201, 202 (or option for men; electives for women).	
TOTAL CURRICULUM REQUIREMENTS	68 hours

Ornamental Horticulture

This curriculum trains students to plant propagation, nursery and greenhouse operation and production, principles of landscape, design and maintenance of

landscapes. They will qualify as technical workers in nursery and greenhouse businesses, recreational organizations, state highway and parks departments, and other institutions and businesses involved with ornamental plantings. They may also organize a private service.

FRESHMAN YEAR	33 hours
AGR 210, 213, 215, 263; GSE 101 and 102 or 105; GSO 100; GSP 180, 181; OHO 131, 362A, 362E, 381; MIL 101, 102 (or options for men; electives for women).	
SUMMER TERM	4 hours
OHO 349.	
SOPHOMORE YEAR	30 hours
ACC 108; ECO or Bus. Adm. 3 hours; General Education elective 3 hours; CHE 101; OHO 271, 301, 362, 391; AGR or OHO elective 1 hour; MIL 201, 202 (or options for men; electives for women).	
TOTAL CURRICULUM REQUIREMENTS	67 hours

Turf Management Option in Ornamental Horticulture

This option is designed to prepare students for specialized technical work in positions such as a golf superintendent, park manager, sod producer, institutional and grounds supervisor, highway landscaper, and memorial grounds superintendent. They would also be eligible for positions in turf-related industries where a knowledge of turf production is required.

FRESHMAN YEAR	32 hours
AGR 215, 263; GSE 101 or 102 or 105; GSO 100; General Education elective 3 hours; OHO 131, 271, 351, 362; MIL 101, 102 (or options for men; electives for women).	
SUMMER TERM	4 hours
OHO 349.	
SOPHOMORE YEAR	31 hours
AGR 213; CHE 101; GSP 180, 181; ACC 108; Electives in ECO or Bus. Adm. 3 hours; OHO 361, 362G, 362H; OHO electives 4 hours; MIL 201, 202 (or options for men; electives for women).	
TOTAL CURRICULUM REQUIREMENTS	67 hours

Pre-Professional Curricula Pre-Forestry

A student who wishes to prepare for a career as a professional forester may complete the equivalent of two years of coursework at Eastern Kentucky University and complete the baccalaureate degree program in approximately two years and one summer term at the University of Kentucky.

Students beginning a forestry curriculum are advised that the following courses

should be completed before transferring to the University of Kentucky or to other schools offering degree programs in forestry.

The following curriculum may be completed in two years and the student is then eligible for admission to the University of Kentucky or other school of forestry.

AGR 130, 215, 315; BIO 131, 141, 335 or 336; CHE 101 or 111, 102 or 112; ECO 230, 231 or GEO 420; GSE 101 and 102 or 105; GSE 176 or equivalent; GSO 100; HIS 202, 203; JOU 201; MAT 111; MIL 101, 102, 201, 202 (or options for men; electives for women); SPE 10070 hours

Pre-Veterinary Medicine

A limited number of students who are residents of Kentucky and have completed the Pre-Veterinary requirements are selected each year to enter professional training in veterinary medicine at Auburn University, Ohio State University, or at Tuskegee Institute. The selected students enter the four-year program of the transfer institution at the beginning of the fall term each year and are approved for succeeding years so long as normal progress is made toward the degree in Veterinary Medicine. These students are exempt from out-of-state tuition.

The study of veterinary medicine is made available to Kentucky residents by an appropriation of the General Assembly to the Kentucky Council on Public Higher Education which administers the program in cooperation with the Southern Regional Education Board and the three above named institutions.

Each of the three transfer schools have essentially the same entrance requirements and each requires a minimum grade point average of 2.5 on a four point scale. Ohio State and Tuskegee also require results from the VAT before acceptance. A student should work closely with his pre-vet advisor concerning his or her program.

A pre-vet student in the Department of Agriculture at Eastern has the following alternatives as he or she proceeds through the program of study.

1. Complete the pre-vet curriculum in two or three years and then apply for admission into a school for veterinary medicine.
2. Earn a Bachelor of Science degree at Eastern with an Agriculture major and a chemistry minor and in so doing complete the pre-vet curriculum.
3. At any time change from the Pre-Vet curriculum to an Agriculture major and graduate with a B.S. degree in Agriculture.

Students are expected to gain large animal experience during the course of pre-vet study, either on the university farm or with a D.V.M. Your pre-vet advisor can assist in arranging for this experience.

The following curriculum may be completed in two or three years and the student is then eligible to apply for admission to Auburn, Ohio State, or Tuskegee.

AGR 125, 221, electives 3 hours; BIO 141, 211, 221, 315; CHE 111, 112; CHE 361, 362; CHE 330; GSE 101 and 102 or 105; GSO 100; GSS 246, 247; Humanities electives 6 hours; MAT 109**; MAT 111; MIL 101, 102, 201, 202 (or options for men; electives for women); GSP 180, 181; MRS 220*; POL 101; PHY 131, 132 91 hours

*Six hours foreign language may be substituted.

**Qualified students may bypass MAT 109.

Course Descriptions

AGR AGRICULTURE

- 125 Principles of Animal Science. Four hours. I.**
Formerly AGR 25.
Formerly Farm Livestock Production.
Management and production practices of livestock enterprises; types market classes and grades of beef cattle, sheep, and swine, and the breeds and products of dairy cattle.
- 130 Principles of Agronomy. Four hours. I.**
Formerly Introduction to Agronomy.
Principles of plant growth, reproduction, crop-soil relationships. Provides foundations of information for further study in field crop production and soil management.
- 210 Agricultural Measurements. Two hours. A.**
Measuring and computing areas of land, volumes and capacities of buildings, and feed structures, spray mixtures, fertilizer needs, parts per million, feed rations and other measurement situations encountered on the farm, techniques of metric conversions.
- 213 Principles of Agricultural Mechanics. Four hours. I, II.**
Principles of operation, maintenance and repair of gasoline engines and electrical motors; basic electrical circuits and electrical controls for agricultural mechanization systems and power requirements for agricultural structures; students receive theoretical and practical experience.
- 215 Principles of Soils. Three hours. I, II.**
Formerly AGR 30 and 315.
Formerly Soils.
Soil origin, classification, and properties; soil conservation; soil micro-organisms; organic matter; soil water; soil minerals; lime, commercial fertilizers; soil erosion; soil management. Students receive field experience.
- 221 Feeds and Feeding. Four hours. A.**
Formerly AGR 31 and 321.
Formerly Principles of Animal Nutrition.
Feeds used in livestock feeding; including harvesting, storage, feeding characteristics and ration formulation from these feedstuffs.
- 225 Evaluation and Selection of Livestock. Three hours. II.**
Formerly Livestock Judging.
An evaluation of purebred and commercial dairy cattle, beef cattle, swine and sheep; use of records, body type ratings and carcass information as they relate to functional anatomy and efficiency of production; sire selection and pedigree interpretation.
- 243 Agricultural Sociology. Three hours. A.**
Formerly SOC 114.
Social organization of individuals and groups of individuals involved in the pursuit of rural and non-urban life. Historical and present trends in agriculture; processes of technological development and how rural people adopt change.
- 263 Seminar in Technical Agriculture. One hour. II.**
For two and four year students who want to study problems in technical agriculture in depth.
- 270 Farm Dairy Production. Five hours. II.**
Formerly AGR 223, Farm Dairying.
The dairy cow and her requirements in meeting her potential milk production; principles of milk production; basic practices of feeding, sanitation, housing, dairy cow selection, and production records.

AGR AGRICULTURE

- 272 Principles of Agricultural Machinery. Five hours. II.**
Selection, operation, and maintenance of agricultural machinery used in the production and processing of agricultural products. Student experiences assembling different types of new farm machinery and reconditioning old machinery.
- 293 Livestock Herdsmanship. Three hours. A.**
Basic herdsmen skills and techniques. Student receives experience in grooming, dehorning, castration, artificial insemination, branding, tattooing, vaccination, blood sampling, implanting, performance testing, records, sanitation practices, etc.
- 300 Travel Study in Agriculture Technology. Three to six hours. A.**
A travel course for groups and individuals in agriculture and horticulture to study new and emerging technologies in agriculture and horticulture, structural organizations of agricultural enterprises, and professional and inter-personal relationships. May be repeated once.
- *301 (OHO 301). Directed Work Experience. One to four hours. I, II.**
Formerly AGR 201.
A minimum of three hours per week of work on the college farm or an approved farm. Two months of full-time employment in an approved agri-business may be substituted for the work requirement.
- 302 Directed Work Experience — Herd Management Skills. Three hours.**
May be repeated for maximum of 12 semester hours.
Student will schedule 9 hours of work per week during the semester on a University farm to practice management and production skills related to livestock management and production skills related to a livestock herd (dairy, beef or swine).
- 310 Principles of Farm Management. Three hours. II.**
Formerly AGR 345, Farm Management.
Organization and management of farms; cost of production; profits; types of farming; soil management; cropping systems and livestock enterprises.
- 311 Seminar on Emerging Agricultural Technology. One hour. II.**
Formerly AGR 411.
This course provides students an opportunity to study managerial, technological, and consumer trends in agriculture.
- 312 Advanced Crops: Forage Crops. Three hours. II.**
Cultural practices and principles of forage crops, especially grasses and legumes suited to Kentucky farms.
- 313 Methods of Using Agricultural Chemicals. Three hours. I.**
The chemicals and physical properties of agricultural chemicals, their uses and effects on plants and their toxicity to man and animals. The student experiences work in formulations, calibration of equipment, and methods of application.
- 314 Nature of Insects, Parasites, and Diseases. Four hours. II.**
Insects, parasites, and diseases, as they relate to agricultural production, processing, and distribution; life cycles; damages to agricultural products; methods of control and extermination.
- 315 Technical Soils Laboratory. Two hours. I, II.**
Prerequisite: AGR 215.
A soils skill course; recognizing physical characteristics of soils, study of soil types, reading a soil survey map, soil sampling and testing, test interpretation and determining amounts of lime and fertilizer, determining land use capabilities, and applying soil conservation practices.

AGR AGRICULTURE

- 316 Soil Fertility. Three hours. A.**
Prerequisite: AGR 215.
Various soil amendments including lime, organic and inorganic fertilizers and conditioners are studied and evaluated for their effect on the physical, chemical, and biological properties of soils and subsequent crop yields.
- 324 Beekeeping Methods. Three hours. II.**
Establishing an apiary, maintaining and increasing bee colonies, utilizing bees for pollination, methods of handling bees safely, harvesting and processing honey.
- 327 Beef Production. Three hours. I.**
Prerequisite: AGR 293.
History, importance, and trends associated with the beef cattle industry; systems of selection, breeding, feeding, and management of beef cattle.
- 328 Pork Production. Three hours. A.**
Types and breeds of swine; selection; breeding; feeding; disease control.
- 340 Conservation of Agricultural Resources. Three hours. A.**
Formerly AGR 240, Soil Conservation.
Conservation of soils and their fertility; erosion and control; soil conservation methods for individual farms; water supply and distribution; problems of water and air pollution; problems resulting from the population explosion.
- 344 Production of Economic Crops in Kentucky. Three hours. A.**
Production of field and forage crops, identification, economic importance, production and harvesting techniques. Trial plots will be grown of all crops important to Kentucky.
- 349 Cooperative Study in Agriculture. Two or four hours. A.**
Prerequisite: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: six Associate degree; twelve Baccalaureate degree.
- 372 Topics and Laboratories in Animal Science. One to six hours. A.**
Students may enroll for a maximum of six hours provided the topics are different.
- 372A Feeds and Feeding Laboratory.**
- 372B Technical Control of Milk Quality.**
- 372C Milking Machine Systems.**
- 372D Milk Marketing.**
- 372E Plant Diseases.**
- 372F General.**
- 373 Animal Diseases. Three hours. I.**
Prerequisite: 6 hours of animal science.
Treatment, prevention and eradication of infectious and parasitic diseases of farm animals.
- 374 Genetics of Livestock Improvement. Three hours. II.**
Prerequisite: 6 hours of animal science.
Applied genetic principles of feeding and improving of farm animals including crossbreeding, inbreeding, and other mating plans.
- 375 Reproduction and Artificial Insemination of Domestic Animals. Three hours. A.**
Prerequisite: 6 hours of animal science.
Reproductive systems, study and practice of artificial insemination and pregnancy diagnosis of domestic animals.

AGR AGRICULTURE

- 380 Technical Management of Dairy Cattle. Five hours. I.**
Formerly AGR 280.
A continuation of AGR 270 with greater emphasis on herd management, feeding systems, sanitation and disease control; planning housing facilities; producing quality forages and pastures and herd improvement.
- 382 Agricultural Power Systems. Four hours. I.**
Formerly AGR 282.
Operation, maintenance, and repair of agricultural power machinery and tractor systems including electrical circuitry, carburetion, lubrication, cooling systems and transmissions, includes methods of environmental control.
- 383 Diesel Power Systems. Three hours. I.**
Study of the operation, maintenance and repair of agricultural diesel powered systems; includes electrical systems, fuels, injection pumps and nozzles and hydraulic systems; laboratory practice.
- 392 Agricultural Mechanization Systems. Four hours. II.**
Principles and planning materials handling systems, drying systems, water pumps and systems, lighting and ventilation systems and feed mixing systems used in agricultural production. Student experiences many different kinds of agricultural mechanical systems.
- *410 (OHO 410. Special Problems Seminar. One to three hours. I, II.**
Students choose a problem and work under the supervision of the instructor in the field of the problem.
- 421 Animal Nutrition. Three hours. II.**
Prerequisite: AGR 221 and Chemistry.
Principles of nutrition basic to modern livestock feeding; symptoms of nutrient deficiencies, nutritional disorders, metabolism of nutrients, feed additives, feed laws and regulations, and modern methods of feed preparation and feeding.
- 440 Agricultural Financing. Three hours. II.**
Uses and types of agricultural credit, credit institutions, and relating credit needs to farm enterprises.
- 501 Special Problems in Agriculture. Three hours. A.**
A course for exceptional seniors and graduate students involving independent study and research related to problems of a theoretical and/or practical nature. (May be repeated once for a total of six hours.)
- 570 Advanced Study in Technical Agriculture. Three to fifteen hours.**
Advanced technical study with emphasis upon updating technology and development of understanding and technical competency in:
- 570B Agricultural Mechanization. Three hours. A.**
- 570C Dairy Herd Management. Three hours. A.**
- 570D Farm Livestock Management. Three hours. A.**
- 570E Farm Service and Supplies. Three hours. A.**
- 571 Production Management in Agriculture. Three hours. A.**
Application of advanced technology in the production of agricultural products; updating in agricultural areas such as production methods, new equipment, economic trends and labor management.
- 577 Workshop in the Conservation of Natural Resources. Three hours. A.**
Currently, the workshop is held in the summer for teachers returning for graduate work. Instruction is given in the areas of soil, water, fish and wildlife, forest conservation and methods of teaching related units at the elementary and junior high level.

OHO ORNAMENTAL HORTICULTURE

- 131 Principles of Plant Propagation. Four hours. I.**
Formerly AGR 131, Principles of Plant Propagation.
Formerly AGR 131, General Horticulture.
Principles and techniques of plant reproduction, including soil-water-temperature-plant relationship, methods of propagation and growth habit, adaptations and uses.
- 271 Nursery and Plant Propagation Techniques. Five hours. I.**
Formerly AGR 271.
Cultural practices of propagating and growing evergreen, deciduous trees, shrubs, and hardy perennials to transplanting size, using structures and facilities not including the greenhouse. Students spend considerable time in the nursery.
- *301 (AGR 301). Directed Work Experience. One to four hours. I, II.**
Formerly AGR 201.
A minimum of three hours per week of work on the college farm or an approved farm. Two months of full-time employment in an approved agri-business may be substituted for the work requirement.
- 349 Cooperative Study in Horticulture. Two or four hours. A.**
Prerequisite: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: six Associate degree; twelve Baccalaureate degree.
- 351 Turfgrass Ecology and Morphology. Four hours. II.**
Formerly AGR 351.
Interrelationships of environmental factors and management practices as they affect growth and survival of turf grasses.
- 361 Turf Production and Management. Five hours. I.**
Formerly AGR 361.
Physiological and edaphic factors affecting growth of adapted turf-grasses. Golf course and athletic field construction, turf establishment, irrigation, soil drainage, fertilization, disease, insect and weed problems, relating to turf.
- 362 Topics in Landscape Gardening. One to six hours. A.**
Formerly AGR 262 and 362.
Students may enroll up to six times for a total of six credits.
- 362A Home Landscape option.**
- 362B Selection and Use of Ornamental Plants option.**
- 362C Landscape Maintenance option.**
- 362D Disease and Insect Control option.**
- 362E Floral Design option.**
- 362F Lawn Establishment and Maintenance option.**
- 362G Problems of Golf Course Operation option.**
- 362H Turfgrass Diseases option.**
- 362I Irrigation Systems option.**
- 362J Hydraulic Systems option.**
- 363 Retail Florist Operations. Three hours. A.**
Prerequisite: OHO 362E or prior floral design experience.
The retail florist business as it relates to locating, starting, and operating a retail floral establishment; practice with advanced techniques of floral design including preparations for holidays and special events; operation of a simulated floral shop; field study of operating businesses.

*Credit is to be granted for only one of these cross-listed courses.

OHO ORNAMENTAL HORTICULTURE

- 381 Greenhouse Operation and Management. Four hours. I.**
Formerly AGR 281 and AGR 381.
Plant propagation and growing techniques in a greenhouse. The student also learns operation procedures and the economics of operating a greenhouse and using cold and hot frames.
- 384 Greenhouse Floral Crops. Three hours. A.**
The study of specialized greenhouse floral crops and methods of producing them; includes bed and container growing, production cycles to meet peak demands and a study of marketing techniques.
- 385 Production of Foliage Plants. Three hours. A.**
Identification of green foliage plants, usually called houseplants; propagation techniques, rooting mediums, disease and insect control, and arranging plants in planters and baskets for marketing.
- 391 Landscape Methods and Related Businesses. Three hours. II.**
Formerly AGR 391.
Elements of design and the execution of the landscape architect plan. Additional emphasis will be placed on occupations related to ornamental horticulture including industrial grounds management.
- *410 (AGR 410). Special Problem Seminar. One to three hours. I, II.**
Students choose a problem and work under the supervision of the instructor in the field of the problem.
- 570 Advanced Study in Technical Horticulture. Three hours. A.**
Advanced technical study with emphasis upon updating technology and development of understanding and technical competency in:
- 570A Ornamental Horticulture. Three hours. A.**
- 570B Turfgrass Ecology. Three hours. A.**
- 571 Production Management in Horticulture. Three hours. A.**
Application of advanced technology in the production of horticultural products; updating in horticultural areas such as production methods, new equipment, economic trends and labor management.

Home Economics (HEC)

Bardwell, A., Chairman; M. Blackwell, Burdette, J. Burkhart, Calvert, Casteel, E. Creamer, Hensley, M. Maupin, V. Richards, Rymer, S. Snarr, S. Sutton, Willis.

The Department of Home Economics offers general and specialty programs leading to Bachelor of Sciences and Associate of Arts Degrees. Graduates of this department qualify for a variety of professional positions in education, government, business, and industry.

Curricula requiring an area major are: Child Development; Dietetics with emphasis in therapeutics or science; Fashion with options in design or merchandising; General Home Economics, and Home Economics Education. First majors with approved minors in Business Administration include Dietetics, Food Service Administration, and

Textiles which also accepts other minors as Art, Chemistry, and Journalism.

Interior Design is an interdisciplinary area major offered by the College of Applied Arts and Technology and administered by the Department of Home Economics.

Students majoring in other departments may elect a second major or minor in a specialty field in Home Economics. Area majors in the Department of Home Economics may elect a minor in a specialty field.

Five Associate of Arts degree programs are offered: Child Care, Dietetic Technology with options in Food Service and Nutrition Care, Food Service Technology, Homemaking Supervision, and Interior Decoration. Courses completed in an Associate of Arts degree program may be credited towards meeting requirements in the corresponding baccalaureate level major.

Students following an area of concentration, first or second major, minor, or Associate of Arts degree program must maintain a "C" average in departmental courses (CDF, HEC, IDH, NFA, TCF prefixes).

Bachelor of Science Degree Curricula Area Major in Child Development

MAJOR REQUIREMENTS	64 hours
CDF 241, 244, 245, 247, 248, 249, 331, 342, 346, 442, 443, 546, 547; HEC 352; NFA 201, 505; PSY 211, 9 hours of restricted PSY or EPY electives*; TCF 101 or 201.	
SUPPORTING COURSE REQUIREMENTS	11 hours
BIO 301, 378; CHE 101; SOC 131.	
GENERAL EDUCATION REQUIREMENTS	44 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 3 hours Social Science Area III. B. 2, 4 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	9 hours
To be selected by student from University offerings.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

*Select from PSY 302, 305, 308, 315, 500; EPY 504.

Area Major in Dietetics

MAJOR REQUIREMENTS	48 hours
CDF 132 or 331; HEC 352; NFA 121, 201, 301, 323, 341, 342, 404, 501, 502, 1 hour in 515, 11 additional NFA hours*; TCF 201 or 202.	
SUPPORTING COURSE REQUIREMENTS	38 hours*
ACC 108; ANT 110; BIO 221 or 273, 301, 378; CHE 101, 102; ECO 230; EPY 318 or 320*; MGT 200; PSY 211, PSY 319 or PSY 402 or MGT 500*.	
GENERAL EDUCATION REQUIREMENTS	37 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	5 hours*
To be selected by student from University offerings.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

*Students following the American Dietetic Association (ADA) Concentration for Therapeutics will enroll in NFA 343, 344, 541, 542 (11 hours) to complete major requirements, the 38 hours of supporting courses listed, and 5 elective hours. Students following the ADA Concentration for Science will select six hours from NFA 505, 507, 509, 516 and 5 additional hours in NFA courses to complete major requirements, the 32 hours of supporting courses listed excepting EPY 318 or 320 and PSY 319 or 402 or MGT 500, and 11 elective hours.

Area Major in Fashion Design

MAJOR REQUIREMENTS	56 hours
CDF 132 or 331; HEC 352; NFA 201; TCF 101, 102, 201, 202, 310, 312, 320, 412, 508, 510; DRA 315 or TCF 305 or TCF 411; 12 hours restricted ART electives from ART 100, 101, 102, 103, 205, 301.	
SUPPORTING COURSE REQUIREMENTS	15 hours
ART 390, 391; CHE 101, 102	
GENERAL EDUCATION REQUIREMENTS	40 hours
GSO 100; GSE 101, 102 or 105; ENG 209 or 211 and ENG 210 or 212; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 hours Social Science; 3 hours Biological Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	17 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Area Major in Fashion Merchandising

MAJOR REQUIREMENTS	59 hours
CDF 132 or 331; HEC 352; NFA 201, TCF 101, 201, 202, 310, 320, 413, 414, 508, 510; ACC 108, 12 hours from MGT 200, 410, 500; MKT 300, 304, 310, 315, 320, 324.	
SUPPORTING COURSE REQUIREMENTS	12 hours
CHE 101. 102; ECO 230.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 3 hours Social Science; 3 hours Biological Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	14 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Area Major in General Home Economics

MAJOR REQUIREMENTS	48 hours
18 hours in each of two specialization*, 6 hours of other departmental requirements**, 6 hours of departmental electives.	
SUPPORTING COURSE REQUIREMENTS	4 hours
CHE 101.	
GENERAL EDUCATION REQUIREMENTS	51 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 hours Social Science; 8 hours of Mathematics and Natural Science including 3 hours of laboratory science and 3 hours of Biological Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	25 hours
To be selected by student from University offerings.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

*To be determined with advisor.

**The following must be completed if not included in emphasis selections:
CDF 132 or 331; HEC 352; NFA 201; TCF 201 or 202.

Area Major in Home Economics Education (Teaching)

MAJOR REQUIREMENTS	48 hours
CDF 132, 231, 331, 341; HEC 351, 352, 353, 453A or B or C; IDH 250, 320; NFA 221, 201, 321; TFC 102, 201, 305 or 312; 2 hours of departmental electives*.	

SUPPORTING COURSE REQUIREMENTS	57 hours
6 hours* from ART 200, 390, 391; BIO 301, 378; CHE 101, 102; ECO 230; EDF 102, 202, 317; ESE 366, 453, 498, 499; GSS 248; PSY 211; 2 hours restricted science elective**.	
GENERAL EDUCATION REQUIREMENTS***	23 hours
GSO 100; GSE 101, 102 or 105; ENG 209 or 211 and ENG 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203; GSP 180, 181, 281. Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

*If the 2-hour departmental elective is selected to provide art and color and design content, three of the six hours of supporting course ART requirements may be replaced by three hours from Humanities Area II A. 2.

**Select from list of approved courses, in consultation with advisor.

***Men must complete MIL 101, 102, 201, 202 or options of eight hours, increasing General Education requirements to 31 hours and Total Curriculum Requirements to 136 hours if GSO 100 needed.

Area Major in Interior Design

The College of Applied Arts and Technology offers a Bachelor of Science degree in Interior Design requiring an area of concentration selected from courses listed under three departments within the College: Home Economics (IDH, TCF), Industrial Education and Technology (IET), and Agriculture (OHO). The program is administered by the Department of Home Economics.

MAJOR REQUIREMENTS	58 hours
IDH 221, 250, 322, 323, 324, 325, 326, 426, 427, 428; IET 191, 300, 332, 391, 394, 496; 1 hour in OHO 362A, 362B, 362E; TCF 201.	
SUPPORTING COURSE REQUIREMENTS	18 hours
ART 100, 102, 103, 390, 391; MGT 410.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101, 102 or 105; ENG 209 or 211 and ENG 210 or 212; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 hours Social Science; 12 hours of Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	3 hours
To be selected by student from University offerings.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

First Major in Dietetics (Required Minor in Business Administration)

MAJOR REQUIREMENTS	39-42 hours
CDF 132 or 331; HEC 352; NFA 121, 201, 341, 342, 343, 344, 541, 542, 1 hour of 555; TCF 201 or 202; 6-9 hours of other NFA courses*.	
SUPPORTING COURSE REQUIREMENTS	41-44 hours
ACC 108, 109*; BIO 273, 301, 378; CHE 101, 102; ECO 230, 231; EDP 200 or 312; EPY 318 or 320; MGT 200, 500; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	37 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	5-11 hours
To be selected by student from University offerings.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

*American Dietetic Association (ADA) Concentration: A, NFA 301, 501, 502, and omit ACC 109; B, ACC 109 and 6 hours from NFA 301, 323, 404, 501, and 556.

First Major in Food Service Administration (Required Minor in Business Administration)

MAJOR REQUIREMENTS	36 hours
CDF 132 or 331; HEC 352; NFA 121, 201, 323 or 3 hours of 556, 341, 342, 343, 344, 541, 542, 1 hour of 555; TCF 201 or 202.	
SUPPORTING COURSE REQUIREMENTS	28-29 hours
ACC 108; BIO 273 or HEA 320 or HEA 325; CHE 101; ECO 230, 231; EDP 200 or 312; MGT 200, 500; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	45 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 8 hours Mathematics and Natural Sciences including 3 hours of laboratory science and 3 hours of Biological Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	18-19 hours
To be selected by student from University offerings.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

First Major in Textiles With Minor in Chemistry

MAJOR REQUIREMENTS	36 hours
CDF 132 or 331; HEC 352; NFA 201; TCF 101, 201, 202, 310, 320, 508, 510; 4 hours of electives from TCF 102, 305, 312, 411, 412, 519.	
MINOR REQUIREMENTS	18 hours
CHE 111, 112, 361; Elective 4 hours upper division CHE courses.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203; 6 hours Social Science; 3 hours Biological Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	28 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

*Minor in other field may be substituted if approved by Department Chairman and Dean of College.

Second Major in Specialty Field of Home Economics

A student with a major outside the Department of Home Economics may pursue a second major in a specialty field of Home Economics by completing major requirements and supporting course requirements approved by the Department Chairman and Dean of the College of Applied Arts and Technology.

Minors in Home Economics

Area majors may complete, in addition to major requirements, 18 hours in a specialty other than the major upon approval by the advisor, Department Chairman, and Dean of the College of Applied Arts and Technology.

Non-departmental majors may minor in Home Economics by completing a prescribed sequence:

1. NFA 201, 301, 511; 6 hours in nutrition; 3 hours of approved electives in departmental courses.
2. CDF 132, 241, 341, 342, 345; NFA 201.
3. TCF 201, 202, 320, 508; 4 hours of approved electives in departmental courses.
4. TCF 102, 201; 9 hours selected from TCF 305, 312, 411, 412, and 310; 3 hours of approved electives in departmental courses.

Associate of Arts Degree Curricula Child Care

This Associate of Arts degree program is designed for persons desiring academic preparation to teach or assist in a day care center or in a center for

culturally deprived children in a position not requiring professional education certification, and to work with those agencies responsible for licensing and certifying personnel in centers for young children.

FRESHMAN YEAR	32 hours
CDF 132, 241; ART 117; GSE 101, 102 or 105; GSO 100; SPE 100 or ENG 209 or 211; SOC 131; NFA 201; 3 hours General Education Electives; MIL 101, 102 (or options for men; electives for women 4 hours).	
SOPHOMORE YEAR	32 hours
CDF 244, 245, 247, 248, 249, 342; PHE 322; PSY 211; LIB 301; 3 hours General Education, SOC elective; MIL 201, 202 (or options for men; electives for women 4 hours).	
TOTAL CURRICULUM REQUIREMENTS	64-65 hours*

*Minimum hours; 65 for men if GSO needed; otherwise 64 for men and women.

Dietetic Technology: Nutrition Care

Nutrition Care is one of two Dietary Technician options which follow guidelines of the American Dietetic Association. The curriculum integrates clinical and didactic components in nutrition care, preparing graduates to work under the supervision of registered dietitians in hospitals, nursing homes, Health Departments, and other health-oriented agencies.

FRESHMAN YEAR	33 hours
CHE 101; GSE 101, 102 or 105; GSO 100; SOC 131; MIL 101, 102 (or options for men; electives for women); NFA 121, 201, 215A, 215B; NUR 102.	
SOPHOMORE YEAR	31 hours
BIO 301, 378; EPY 318 or 320; HEA 315; MIL 201, 202 (or options for men; electives for women); NFA 216A, 216B, 217A, 217B, 218, 341.	
TOTAL CURRICULUM REQUIREMENTS	64 hours

Food Service Technology

This curriculum has been designed to prepare men and women for supervisory positions in food service establishments. The program combines technical food service management and general education courses that lead to an Associate of Arts Degree.

FRESHMAN YEAR	34 hours
ACC 108; CHE 101; 4 hours General Education Biological Science; GSE 101, 102 or 105; GSO 100; MGT 200; MIL 101, 102 (or options for men; electives for women); NFA 121, 201; SPE 100*.	

SOPHOMORE YEAR	33-34 hours
BIO 273 or HEA 320 or HEA 325; 3 hours Bus. Adm. elective; CDF 132 or 331 or HEC 352 or TCF 201; MIL 201, 202 (or options for men; electives for women); NFA 241, 242**, 341, 342, 343, 344; PSY 211.	
TOTAL CURRICULUM REQUIREMENTS	67-68 hours***

*General Education Literature may be substituted.

**May be completed during the following summer.

***Minimum hours: 67 for men or 68 if GSO 100 needed; 64 for women.

Homemaking Supervision

The homemaking supervision curriculum, a two-year Associate of Arts degree program, is designed for individuals wishing to work on the state level to train "Homemakers," a classification of Case-Aide who consults with families offering practical help in all general problems involving the home life. Individuals with this degree could also be employed as specialized aides in certain phases of the operation of child day centers, and as aides to Home Economists working in industry and in other community services.

FRESHMAN YEAR	33 hours
CDF 132, 231; CHE 101; GSE 101, 102 or 105; GSO 100; GSP 180, 181; NFA 121, 201; SPE 100*; TCF 102, 201 or 202.	
SOPHOMORE YEAR	31 hours
CDF 241 or 341, 331; ECO 230; 3 hours General Education Social Science Elective; HEC 351, 352; NFA 321; PSY 211; SOC 131, 3 hour TCF elective**; 1 hour free elective.	
TOTAL CURRICULUM REQUIREMENTS	64 hours***

*General Education Literature may be substituted.

**Except TCF 201 if TCF 202 completed previously.

***Minimum hours for men: 70 or 71 if GSO 100 needed because MIL 101, 102, 201, 202 or options are required.

Interior Decoration

A graduate in Interior Decoration, Associate of Arts Degree program, may (1) be employed as an assistant to an Interior Designer, (2) be hired by retail stores as a consultant to consumers, in the furniture, draping, and houseware areas, or (3) be self-employed. Other students will select this program for personal benefit.

FRESHMAN YEAR	33 hours
ART 100, 102; General Education Physical Science, 3 hours; GSE 101, 102, or 105; GSO 100; GSP 180, 181; IDH 221, 250; IET 191; TCF 201; MIL 101, 102 (or options for men; electives for women).	
SOPHOMORE YEAR	34 hours
ART 103, 390, 391; IDH 322, 323, 324, 325, 326; IET 391, 394; MIL 201, 202 (or options for men; electives for women).	
TOTAL CURRICULUM REQUIREMENTS	67 hours

Course Descriptions

CDF CHILD DEVELOPMENT AND THE FAMILY

- 132 Family Living. Three hours. I, II.**
Formerly HEC 132.
Formerly HEC 208.
Stages of development of the individual family members and of the family as a unit; biological, cultural and personal accomplishments (developmental tasks) of the family throughout the life cycle will be emphasized.
- 231 Health and Home Care of the Sick. Two hours. I, II.**
Formerly HEC 231.
Health and the family; simple procedures for the care of patients in the home are stressed; health agencies.
- 241 Prenatal and Infant Development. Three hours. I, II.**
Formerly HEC 241.
Growth and development in the prenatal and infant stages up to three years of age. Lecture, discussions, field trips and observations of infants and toddlers.
- 244 Development of the Preschool Child. Three hours. I, II.**
Formerly HEC 341.
Formerly CDF 341.
Formerly HEC 303. Development of the Infant and Preschool Child. Prerequisite: CDF 241 or approval of instructor.
Growth and development of the preschool child; case studies, observations, and participation experience with culturally advantaged and disadvantaged children in preschools.
- 245 Program Planning for Young Children. Three hours. I, II.**
Formerly HEC 345.
Formerly CDF 345.
Prerequisite: CDF 241, 244 or approval of instructor.
Survey of learning experiences in various curriculum areas. Planning activities, including techniques and materials, to provide environment appropriate to the age and background of young children. Two hours lecture and one two-hour lab period weekly.
- 247 Parent Involvement with Young Children. Three hours. II.**
Formerly HEC 347.
Formerly CDF 347.
Prerequisites: PSY 211; CDF 241 or 244.
Methods and materials useful in working with parent conferences and parent groups. Experiences include home visits, parent conferences and planning parent discussion groups; involvement with preschool programs as Child Care and Head Start.
- 248 Introduction to Preschool Experience. Two Hours. I, II.**
Formerly CDF 242.
Prerequisite: CDF 244 and 245.
Introduction to goals, philosophies, and environmental structure of various preschool models. Lecture-discussion and field trips.
- 249 Preschool Experience. Three hours. I, II.**
Formerly CDF 243.
Prerequisite: 248 or concurrent enrollment, 244 and 245.
Practicum in preschools focusing on structuring the environment, directing learning experiences, developing techniques for guiding young children, and arranging effective communication for parent involvement.

CDF CHILD DEVELOPMENT AND THE FAMILY

- 331 Marriage and Family. Three hours. I, II.**
Formerly HEC 331.
Formerly HEC 307.
Prerequisite: Second semester sophomore standing.
Factors influencing marital adjustment; their relationships and implications for a successful life.
- 342 Child and Adolescent Development. Three hours. I.**
Formerly HEC 342.
Formerly HEC 304, Child Development and Adolescent Development.
Prerequisite: CDF 241 or 341.
Physical, mental, emotional, and social development of the child from school age to adolescence; case studies, observations, and participation experiences with children culturally advantaged and disadvantaged.
- 344 Infant Education. Three hours. II.**
Prerequisite: CDF 241.
Current programs, techniques, and research relating to infant stimulation. Emphasis on home intervention theory and practices, screening procedures for at-risk infants, and the parent-infant dyad.
- 346 Creative Materials and Concept Development. Three hours. II.**
Prerequisites: CDF 244 and 245.
Survey of theories related to concept development and skills acquisition for young children. Detailed survey of concept development in various curriculum areas. Focus on innovative teaching devices.
- 442 Seminar for Preschool Practicum. Two hours. II.**
Intensive evaluation of teaching strategies and child management techniques. Formulation of appropriate strategies and guidance techniques for meeting needs of total child.
- 443 Preschool Practicum. Four hours. II.**
Prerequisites: 442 or concurrent enrollment.
Supervised practicum experience in preschool education. Directing total preschool program, young children, center, staff, and parents. Planning daily schedules, parent conferences, parent group meetings, learning centers. Developing skills in the management and operation of the total preschool program.
- 533 Marital Communications. Three hours. A.**
Prerequisite: Approval of instructor.
The married person, self concept and self system in relation to communication; avoidance mechanism of communication; techniques of family communication.
- 537 Family Problems in the Geriatric Period. Three hours. A.**
Prerequisite: Approval of instructor.
The senior citizen and the transition in family ties; anxieties, attitudes, behavior, and marital life.
- 538 Seminar in Family Life. One to three hours. A.**
Formerly HEC 538.
Formerly HEC 505.
Prerequisite: Approval of instructor.
Students will be able to concentrate their interests in an intensive study of specific areas of the family and its interpersonal relationships. May be repeated by graduate students to a maximum of six hours.
- 546 Laboratory for Organization and Administration of Preschools. Two hours. A.**
Formerly HEC 546.
Prerequisite: CDF 547 or concurrent enrollment.
Experience in administration of preschools.

CDF CHILD DEVELOPMENT AND THE FAMILY

- 547 Organization and Administration of Preschools. Three hours. A.**
Formerly HEC 547.
Formerly HEC 507, Organization and Administration of the Nursery School.
Prerequisite: CDF 345.
Study of the history of preschool education and its present organization and administration.
- 548 Seminar in Child Development. One to three hours. A.**
Formerly HEC 548.
Formerly HEC 504, Current Trends in Child Development.
Prerequisites: CDF 241, 341 and six hours in Child Development and the Family.
Current concepts and trends in child development; recent research and literature. May be repeated by graduate students to a maximum of six hours.
- 549 Special Problems in Child Development. One to three hours. A.**
Formerly HEC 549.
Prerequisites: CDF 548 and approval of instructor.
The student chooses a problem and works under the supervision of the instructor. May be repeated by graduate students to a maximum of six hours.
- 631 Relationships in Marriage and Family. Three hours. A.**
Prerequisite: Approval of instructor.
The attitudes and behaviors of husband and wife as related to psychological and physiological responses within the family.
- 633 Parenting. Three hours. A.**
Prerequisite: CDF 132 or 241 or 341 or equivalent. Approval of instructor.
Child care techniques which promote emotional and psychological health of children and parents. The developmental needs of children (infants through adolescents) in view of parental responsibilities and limitations.

HEC HOME ECONOMICS: GENERAL

- 349 Cooperative Study in Home Economics. Two or four hours. I, II.**
Prerequisite: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 351 Household Equipment. Three hours. II.**
Formerly HEC 301.
Standards for selecting and buying household equipment and small appliances; electricity and gas in the home; use, maintenance and care of equipment.
- 352 The Family as Consumers. Three hours. I, II.**
Contemporary consumer behavior by families in our society; wise use of income, investments, savings, and credit. Advertising, organizations, and laws affecting the interests of the family as consumers.
- 353 Factors Affecting Home Management. Two hours. I.**
Formerly HEC 330.
Principles of management applied to individual and home situations; management of material resources in the family; decision-making; wise use of time, energy, abilities, and skills on the basis of optimum development of individuals.

HEC HOME ECONOMICS: GENERAL

- 453 Home Management Experience. Three hours. I, II.**
Formerly HEC 403, Home Management Residence.
Prerequisites: NFA 321; HEC 351 and 353.
Students may enroll for a total of three hours credit.
- 453A Turley House Residence.**
Management of time, money, and energy as these relate to the home environment; projects may be assigned. Students will reside and participate in experiences in Turley House. Reservations for Turley House should be made a semester in advance.
- 453B Turley House Resident Participation.**
Management of time, money, and energy as these relate to the home environment; projects may be assigned. Married students participate in experiences in Turley House, but reside in their homes. Reservations for Turley House should be made a semester in advance.
- 453C Family Management Experience.**
Management of time, money, and energy as related to the home environment. Married students fulfill approved experiences in their own homes. Approval for enrollment must be secured one semester in advance from the Chairman, Department of Home Economics.
- 555 Seminar in Consumer Economics. Three hours. A.**
May be repeated by graduate student for a maximum of six hours.
Prerequisite: HEC 352 or equivalent.
Reports and discussion on topics of concern to consumers: legislation affecting consumerism; resources available to consumers; consumer rights and responsibilities.
- 556 Special Problems in Family Economics and Management. One to three hours. A.**
Formerly HEC 556 a, b, c, Special Problems in Home Economics.
Formerly HEC 456 a, b, c, Special Problems in Home Economics.
Prerequisite: Approval of instructor.
The student chooses a problem and works under the supervision of the instructor. May be repeated by graduate students to a maximum of six hours.

IDH INTERIOR DESIGN AND HOUSING

- 221 Theory of Color and Light. Two hours. I, II.**
Formerly IDH 221A.
Terminology, psychology, and use of color and light for an economical, functional, aesthetic, and original environment.
- 250 The Residential Environment. Three hours. I, II.**
Formerly HEC 250. The House.
Formerly HEC 350.
Prerequisite: IET 191 (IDH majors only).
Concepts influencing housing; family values, needs, and wants with emphasis on residential environment. Original plans including space analysis, room arrangement, equipment and storage are created with consideration of design elements, principles, and objectives.
- 317 Interior Design Study Tour I. Three hours. A.**
Prerequisite: Completion of sophomore year in Interior Decoration and Interior Design.
A tour planned for Interior Decoration or Interior Design students to observe the operation of establishments involved in production and/or display of items such as furniture and accessories. Special project required.

IDH INTERIOR DESIGN AND HOUSING

- 320 Furnishing the Residential Environment. Three hours. I.**
 Coordination of furnishings and accessories within the contemporary residential environment; application of the design elements, principles and objectives through laboratory experiences; illustration techniques are utilized. Not open to Interior Decoration or Interior Design majors.
- 322 Introduction to Interior Design. Three hours. I, II.**
 Formerly HEC 322.
 Formerly Interior Decoration.
 Prerequisites: IDH 250, concurrent enrollment in IDH 323 and IET 391.
 An introduction to contemporary residential interior space planning with coordination of furnishings and accessories; application of the design elements, principles and objectives via plan and elevation illustration.
- 323 Historical Interiors and Furnishings. Three hours. I.**
 Formerly HEC 323.
 Prerequisite: Concurrent enrollment in IDH 322.
 Styles in interiors, furniture and accessories from antiquity through the nineteenth century.
- 324 Contemporary Interiors and Furnishings. Three hours. II.**
 Formerly HEC 324.
 Prerequisite: IDH 323.
 Styles in interiors, furniture and accessories of the twentieth century with projection into the future.
- 325 Decorative Arts I. Three hours. I, II.**
 Formerly IDH 321 C, D and E.
 Formerly HEC 321 C, D and E.
 Prerequisites: Concurrent enrollment in IDH 323 or 324.
 Selection and arrangement of furniture, decorative treatments, and accessories: terminology, characteristics, properties, uses, specifications, mechanical assembly and installation of the integral parts. Illustration with past, present, and future trends.
- 326 Interior Design Studio I. Three hours. I, II.**
 Formerly HEC 326.
 Prerequisite: IDH 322.
 Advanced application of the design elements, principles, and objectives in relation to planning residential and/or commercial interior space via one- and two-point perspective illustration.
- 349 Cooperative Study in Interior Design. Two or four hours. I, II.**
 Prerequisite: Departmental approval.
 Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 426 Interior Design Studio II. Three hours. A.**
 Formerly HEC 426.
 Prerequisite: IDH 326.
 Advanced application of the design elements, principles, and objectives in relation to planning commercial interior space via pictorial drawings and additional illustrations.
- 427 The Professional in Interior Design. Two hours. A.**
 Formerly HEC 427.
 Prerequisite: IDH 426; MGT 410 or concurrent enrollment.
 Objectives, procedures, and ethics for the professional interior designer. Preparation of a portfolio of professional expression and illustration.

IDH INTERIOR DESIGN AND HOUSING

- 428 Supervised Field Experience in Interior Design. Ten hours. A.**
Formerly HEC 428.
Prerequisites: IDH 426, MGT 410, Prior or concurrent enrollment in IDH 427, Major in Interior Design.
Observation of an interior design firm's operation and program, with performance in assigned tasks under supervision. Reservations for this experience should be made a semester in advance.
- 517 Interior Design Study Tour II. Three hours. A.**
Prerequisite: Completion of junior year in interior design.
Tour of interior design resources, wholesale, and retail showrooms in furniture, backgrounds, and accessory aspects. Study in museums, libraries, and interior design centers when possible. Special study projects. Total credits for two different tours: three undergraduate and three graduate hours.
- 519 Special Problems in Interior Design. One to three hours. A.**
Prerequisite: IDH 426 or equivalent.
An appropriate problem is proposed in consultation with an advisor/instructor and completed under supervision. May be repeated by graduate students for a maximum of six hours.
- 521 Analytical Furniture Design. Three hours. A.**
Prerequisite: IET 332 or approval of instructor.
Analysis of furniture design in terms of integration of function and style with structure; coordination of furniture style with interior architectural expression.
- 525 The Decorative Arts. Three hours. A.**
Prerequisites: IDH 323, 324, 325 or approval of instructor.
Furniture and accessories of the 18th, 19th and 20th centuries with emphasis upon the influence of major designers and their interpreters, their stylistic characteristics, and technical habituations.
- 626 Experimental Design for Architectural Interiors. Three hours. A.**
Prerequisite: Approval of instructor.
Extension of design principles to craft components of environment, including contracting for individual products and coordination of elements in interiors for specified commercial and residential goals.

NFA NUTRITION, FOODS AND FOOD ADMINISTRATION

- 121 Introduction to Food Composition and Preparation. Three hours. I, II.**
Formerly HEC 204, Introduction to Foods and Nutrition.
Composition of foods and their properties as they affect preparation. Scientific principles of food preparation.
- 201 Essentials of Nutrition. Three hours. I, II.**
Formerly HEC 219.
Basic nutrition and its application in meeting nutritional needs of all ages; consideration is given to food selection, food faddism, and problems of "over" and "under" nutrition.
- 215A Nutrition Care I. Three hours. II.**
Prerequisite: NFA 201.
Dietary treatment of individuals during periods of normal development, disease and physiological stress. Calorie, carbohydrate, and consistency modifications.
- 215B Laboratory for Nutritional Care I. Three hours. II.**
Prerequisite: Approval of instructor.
Supervised student participation in an approved health care facility.

NFA NUTRITION, FOODS AND FOOD ADMINISTRATION

- 216A Nutrition Care II. Three hours. I.**
Prerequisite: NFA 201, 215A.
Dietary treatment of individuals during periods of normal development, disease and physiological stress. Fat, protein, electrolyte, and mineral modifications.
- 216B Laboratory for Nutrition Care II. Three hours. II.**
Prerequisite: Approval of instructor.
Supervised student participation in an approved health care facility.
- 217A Nutrition Care III. Three hours. II.**
Prerequisite: NFA 201, 216A.
Study of the dietary needs of various groups in the community.
- 217B Laboratory for Nutrition Care III. Four hours. II.**
Prerequisite: Approval of instructor.
Supervised student participation in approved health care facility.
- 218 Seminar in Dietetic Technology. One to three hours. A.**
Reports and discussions on topics relative to the area of nutrition care.
- 241 Food Service Administration. Three hours. II.**
Formerly HEC 316.
Principles of food systems operation emphasizing financial and production controls, menu planning and technical operations. Field experiences.
- 242 Practicum. Two hours. A.**
Formerly HEC 314. Summer Practicum.
Prerequisite: Approval of instructor.
Supervised student participation in an approved food service institution.
- 301 Bio-Nutrition. Three hours. I, II.**
Formerly HEC 317.
Prerequisites: CHE 102 or 112; NFA 201.
Structures and properties of nutrients; introduction to their functions and interrelationships in metabolism.
- 302 Diet Therapy. Two hours. I, II.**
Prerequisite: NFA 201.
The applied approach to dietary treatment for patients. Nutrition guidance and counseling techniques. Does not meet the therapeutic nutrition requirement for dietetic majors.
- 321 Meal Management. Three hours. II.**
Formerly HEC 215, Food Management.
Prerequisites: NFA 121, 201.
Food management, planning, preparation and service of meals through management of time, energy, money, and efficient use of equipment. Consideration is given to nutritional needs, food habits, and social customs of family groups.
- 323 Experimental Foods. Three hours. II.**
Formerly HEC 302.
Prerequisites: NFA 321 or 341; CHE 101 or equivalent.
Experimental procedures involving methods and techniques and their effects on the quality of products; individual problems dealing with the various aspects of food preparation.
- 341 Quantity Meal Management. Three hours. I.**
Prerequisite: NFA 121, 201 and approval of instructor.
Planning and service of meals to large groups; nutritional needs are emphasized. Open to Nutrition, Foods, and Food Administration majors only.

NFA NUTRITION, FOODS AND FOOD ADMINISTRATION

- 342 Quantity Food Production. Three hours. I.**
Formerly HEC 315, Quantity Food Purchasing and Production.
Prerequisite: NFA 341.
Principles and methods of preparation of food in quantity; use of standardized formulas and of institutional equipment. Field trips included.
- 343 Institutional Equipment and Furnishings. Three hours. II.**
Prerequisite: NFA 342.
Fundamentals of planning food service layouts and furnishings for restaurants, hotels, hospitals and other institutions.
- 344 Institutional Food Purchasing. Three hours. II.**
Formerly HEC 315, Quantity Food Purchasing and Production.
Prerequisites: ACC 108; NFA 341.
Principles and methods of purchasing foods for various types of quantity food services; emphasis on specifications and factors affecting quality; food cost control. Field trips included.
- 349 Cooperative Study in Nutrition, Foods, and Food Administration. Two or four hours. I, II.**
Prerequisites: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment. Two to four hours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 501 Human Nutrition. Three hours. I.**
Prerequisite: NFA 301.
Interrelations and functions of nutrients in normal nutrition; relation of nutrient requirements at the cellular level to dietary standards.
- 502 Therapeutic Nutrition. Three hours. II.**
Formerly HEC 506, Nutrition in Health and Disease.
Formerly HEC 406, Newer Knowledge of Nutrition.
Prerequisite: NFA 501.
Theory and application of deviations in normal dietary patterns in disease.
- 505 Maternal and Child Nutrition. Three hours. A.**
Formerly NFA 403.
Formerly HEC 410.
Prerequisite: NFA 201.
Nutrition of the mother and fetus during pregnancy, and of the child from infancy to school-age years. Field experience.
- 507 Adolescent Nutrition. Three hours. A.**
Prerequisite: NFA 201.
Nutritional needs, problems, dietary habits, and motivations of the adolescent and early adult years. Field experience.
- 509 Nutrition and Aging. Three hours. A.**
Prerequisite: NFA 201.
The theories of causes of aging; nutritional requirements, dietary intakes and effects of nutrition on the rate of biological aging. Field experience.
- 511 Community Nutrition. Three hours. II.**
Formerly NFA 404.
Formerly NFA 503.
Prerequisite: NFA 201.
Analysis of nutrition services and legislation. Application of nutrition behavior on foods faddism, food and drug laws and legislative principles to needs of consumer groups. Influence of consumer development. Clinical and applied experiences are integrated throughout the course.

NFA NUTRITION, FOODS AND FOOD ADMINISTRATION

- 515 Seminar in Nutrition. One to three hours. II.**
Formerly HEC 413.
Prerequisites: NFA 501 and approval of instructor.
Reports and discussions of current problems and research in nutrition.
May be repeated by graduate students to a maximum of six hours.
- 516 Special Problems in Nutrition. One to three hours. I, II, S.**
Prerequisite: NFA 501 and approval of instructor.
The student chooses a problem and works under the supervision of an instructor. May be repeated by graduate students to a maximum of six hours.
- 541 Food Service Organization and Management. Three hours. I.**
Formerly HEC 319.
Prerequisites: ACC 108, NFA 342.
Principles of organization and their application to various types of institutions; personnel management, financial and administrative problems.
- 542 Laboratory for Food Service Organization and Management. Two hours. I.**
Formerly HEC 318.
Prerequisite: Concurrent enrollment in NFA 541.
Supervised experiences in planning, preparing and serving food in approved institutions.
- 555 Seminar in Food Administration. One to three hours. I.**
Formerly HEC 418, Seminar in Food Service Management.
Prerequisite: NFA 541.
Reports and discussion of topics relative to the area of food administration. May be repeated by graduate students to a maximum of six hours.
- 556 Special Problems in Food Administration. One to three hours. I, II, S.**
Prerequisite: NFA 541.
The student chooses a problem and works under the supervision of an instructor. May be repeated by graduate students to a maximum of six hours.

TCF TEXTILES, CLOTHING, AND FASHION

- 101 Apparel Selection. Three hours. A.**
Principles of clothing selection including application of design principles, wardrobe analysis, care and repair of clothing, consumer buying and protection.
- 102 Introductory Clothing Construction. Three hours. I, II.**
Formerly HEC 102.
Formerly HEC 203, Beginning Clothing Construction.
Basic principles of clothing construction; selection, alteration, and fitting of commercial patterns.
- 201 Introduction to Textiles. Three hours. I, II.**
Formerly HEC 201.
Formerly HEC 308, Textiles.
Selection of textiles materials for specific end-uses. May be elected after TCF 202 or equivalent.
- 202 Fundamentals of Textiles. Three hours. I, II.**
Formerly HEC 202.
Prerequisites: CHE 102, TCF 201.
Study of fibers, fabrication, and finishes with limited physical and chemical examination.

TCF TEXTILES, CLOTHING, AND FASHION

- 305 Techniques in Apparel. Three hours. A.**
Formerly HEC 305.
Formerly Tailoring and Design.
Prerequisites: TCF 102.
Introduction to problems in clothing the family; advance techniques in construction and fitting of family members; evaluation of commercial and remade apparel.
- 310 Historical Costumes and the Social Order. Three hours. I.**
Historical costume as a contributing factor to present day modes of dress.
- 312 Flat Pattern Design. Three hours. A.**
Formerly HEC 312.
Formerly HEC 512, Creative Pattern Design.
Prerequisites: TCF 102; and TCF 201 or 202.
Original design with emphasis upon appropriate line, color, and texture for the individual.
- 320 Economics of Apparel: Merchandising. Three hours. A.**
Formerly HEC 320, Economics of Apparel: Fashion Merchandising.
Formerly Economics of Apparel.
Prerequisite: TCF 201, 310.
The organization of the clothing industry and its effect upon the consumer.
- 349 Cooperative Study in Textiles, Clothing, and Fashion. Two or four hours. I, II.**
Prerequisite: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment. Two or four hours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 411 Tailoring. Three hours. A.**
Formerly HEC 411.
Prerequisite: TCF 102.
Application of tailoring techniques to garments made from commercial patterns.
- 412 Costume Design Through Draping. Three hours. A.**
Formerly HEC 412.
Formerly HEC 555, Advanced Costume Design.
Prerequisite: TCF 102, and 201 or 202.
Application of art principles in color and line in design and construction of garments, with emphasis on draping.
- 413 The Professional in Fashion Merchandising. Two hours. A.**
Formerly HEC 413.
Prerequisites: TCF 320 and senior standing in Fashion Merchandising Program.
Insight into problems of store management and personnel training, as found in fashion organizations.
- 414 Fashion Merchandising Practicum. Ten hours. A.**
Formerly HEC 414.
Formerly Textiles Merchandising.
Prerequisites: TCF 413 or concurrent enrollment, and senior standing in Fashion Merchandising Program.
Aspects of the retail sale of textile and clothing products; practicum in a retail outlet.
- 502 Textiles for Architectural Interiors. Three hours. A.**
Prerequisite: Approval of instructor.
Characteristics, properties, specifications, and uses of textiles for architectural interiors.

TCF TEXTILES, CLOTHING, AND FASHION

- 508 Textile Testing and Evaluation. Five hours. A.**
Formerly HEC 508.
Prerequisites: CHE 101; TCF 202.
Chemical and physical tests of fibers and fabrics including dye properties and finishes. Study of textile legislation and standardization. Individual problems and projects.
- 510 Socio-Psychological Factors of Apparel. Three hours. A.**
Formerly HEC 510.
Prerequisite: TCF 310, 320, or senior standing.
Social, cultural, and psychological factors which influence personal satisfaction in the selection and use of apparel.
- 517 Textiles, Fashion, and Merchandising Study Tour. Three hours. A.**
Prerequisite: Approval of instructor.
Tour of wholesale and retail outlets in fashion industry centers. Professional exposure to many aspects of the fashion industry. Special study project.
- 519 Special Problems in Textiles. One to three hours. I, II, S.**
Formerly HEC 519.
Prerequisite: Approval of instructor.
The student selects a problem and works under the supervision of the instructor. May be repeated by graduate students to a maximum of six hours.

Industrial Education and Technology (IET)

Craft, C., Chairman; Brown, G.; Brown, T.; Chastain; Davis, J. H.; Fardo; Gilliland; Hansson; Jenkins, J. D.; Joyner; Lash; Luy; Martin, L.; Masterson; Myers, T. E.; Ogle; Patrick, D. R.; Prewitt; Rowlett; Sexton; Spencer; Swinford; Torbett; Way, J.

The Department of Industrial Education and Technology has several principal functions, all of equal importance. They are to prepare industrial arts teachers for the secondary schools, to prepare vocational-industrial and technical teachers for vocational-technical schools, to prepare manual arts therapists for the Veterans Administration Hospitals and to prepare technicians and technologists for industry.

The Industrial Arts Education Comprehensive Arts Curriculum has as its purpose the preparation of general industrial arts teachers for schools offering broad diversified programs.

The Industrial Arts Education Specialized Area Curriculum has as its purpose the preparation of industrial arts teachers for schools where technician-teachers are desired and who possess greater depth in their respective areas.

The Industrial Arts Education First Major has its purpose the preparation of industrial arts teachers who are prepared to teach a second subject or who are also prepared in a non-technical field.

The two year Vocational-Industrial and Technical Education Curriculum has as its purpose the preparation of vocational-industrial and technical teachers for the vocational and technical schools. The Associate of Arts Degree is awarded those who have completed the prescribed curriculum and 1,400 hours of approved and supervised related work experience or three years of approved related work experience.

The four year Vocational-Industrial and Technical Education Curriculum has as its purpose the preparation of vocational-industrial and technical teachers for the vocational and technical schools. The Bachelor of Science Degree is awarded to those who have completed the prescribed curriculum and 2,000 hours of approved and supervised work experience or three years of approved related work experience.

The Manual Arts Therapy Curriculum has as its purpose the preparation of therapists with a broad background in industrial education with emphasis on the crafts.

The four year Industrial Technology Curriculum has as its purpose the preparation of industrial technologists. It combines a broad and balanced technical program with a sound foundation in mathematics, natural sciences, social sciences, and communications in order to prepare the individual to cope with a wide range of industrial problems.

The four year Industrial Technology First Major, Second Major, or Minor have as their purpose the preparation of technologists who have specific technical preparation complemented with preparation in business organization and management, mathematics or the sciences.

The four year Occupational Safety and Health Technology Curriculum has as its purpose the preparation of Occupational Safety and Health Technologists. Technologists who can recognize, evaluate, and control, through personal action or prescription, those safety and health hazards associated with an industrial setting.

The four year Occupational Safety and Health Technology First Major and Minor have as their purpose the preparation of technologists who have specific occupational safety and health preparation complemented with preparation in industrial technology, business management, fire science or science.

The two year Broadcast Engineering Technology Curriculum has as its purpose the preparation of broadcast engineers — those technicians who are employed in radio and television stations where they set up, operate, and maintain the electronic equipment used to record or transmit radio and television programs.

The two year Computer Electronics Technology Curriculum has as its purpose the preparation of computer technicians — those persons employed to service and maintain computer hardware.

The two year Drafting and Design Technology Curriculum has as its purpose the preparation of technicians for drafting positions in industry, architects' or engineers' offices, governmental agencies, and a variety of technical and engineering firms.

The two year Electrical Power Technology Curriculum has as its purpose the preparation of Electrical Power Technicians — those persons employed by electrical utility companies and industrial concerns to supervise personnel who maintain, install and design industrial equipment installations.

The two year Industrial Electronics Technology Curriculum has as its purpose the preparation of industrial electronic technicians — those persons who design, install, maintain and sell a variety of electronic systems for control of manufacturing processes.

The two year Instructional Media Technology Curriculum has as its purpose the preparation of technicians who design and prepare instructional materials, select and catalog instructional materials; and install, operate, and maintain media equipment.

The two year Instrumentation Electronics Technology Curriculum has as its purpose the preparation of instrumentation electronic technicians — those persons who utilize electronic instruments to perform a variety of product evaluations in automatic control systems.

The two year Printing Technology Curriculum has as its purpose the preparation of printing technicians for work in quality and process control, research, estimating, production, data processing, sales, and marketing areas of the graphic arts industry.

The two year Wood Technology Curriculum has as its purpose the preparation of skilled craftsmen-technicians or production technicians for the wood and wood products industries.

Bachelor of Science Degree Curricula Comprehensive Area Major in Industrial Arts Education (Teaching)

MAJOR REQUIREMENTS	48 hours
IET 104, 141, 180, 191, 233, 242, 281, 292, 311, 326, 343, 351, 353, 372, 382, 394, 467.	
SUPPORTING COURSE REQUIREMENTS	26 hours
EDF 102, 202, 317; ESE 452, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	<u>129 hours</u>

Area Major for Dual Certification in Manual Arts Therapy and Industrial Arts Education (Teaching)

A person desiring preparation as both an industrial arts teacher and a manual arts therapist should follow the Comprehensive Area Major in Industrial Arts Education, substituting IET 312 and 328 for IET 343 and 382, and completing these additional courses:

BIO 301 and 378	4 hours
PHE 320	2 hours
PSY 308	3 hours
	<u>9 hours</u>

Specialized Area Major in Industrial Arts Education (Teaching)

MAJOR REQUIREMENTS	48 hours
IET 104, 141, 180, 191, 242, 281, 292, 311, 351, 353, 372, 467, 14 hours of IET technical elective.*	
SUPPORTING COURSE REQUIREMENTS	37 hours
EDF 102, 202, 317; ESE 452, 498, 499; MAT 109 or 107 and 108; PHY 131; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours of Social Science; 3 hours Biological Laboratory Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
TOTAL CURRICULUM REQUIREMENTS	<u>131 hours</u>

*A minimum of fifteen semester hours is required in one IET technical subject area.

Area Major in Industrial Technology

MAJOR REQUIREMENTS	54 hours
IET 105, 106, 191, 307, 408; 12 hours from IET 180/281, 244, 311, 351, 372; 3 hours management elective; 30 hours IET electives*	
SUPPORTING COURSE REQUIREMENTS	21-22 hours
ECO 230; MAT 109 or 107 and 108 (or 208); MGT 200; PHY 131, 132	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 3 hours Social Science Area III. B. 2; 3 hours Biological Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
COOPERATIVE EDUCATION OR FREE ELECTIVES	9-10 hours
To be selected by student from University offerings including cooperative education	
TOTAL CURRICULUM REQUIREMENTS	128 hours

*IET specialization to be fulfilled through completion of a minimum of thirty hours in one or two technical areas as follows:

Dual Specialization Option: Two of the following will fulfill the thirty hour specialization requirement:

- Architectural Drawing: IET 292, 293, 391, 394, 496
- Electronics: IET 351, 352, 357, 358, 359, 3 hours elective from
IET 356, 451, 452, 454, 455
- Graphic Arts: IET 311, 312, 315, 317, 391, 411
- Metals: IET 180, 281, 382, 487, 488, 3 hours elective from
IET 384, 385 or 386
- Power Mechanics: IET 372, 373, 374, 376, 471, 472
- Technical Drawing: IET 180 or 281, 292, 391, 395, 496; 3 hours
elective from IET 293, 180, 281, 382, 394, 530
- Woods: IET 141, 242, 244, 344, 345, 3 hours IET elective

Single Specialization Option: One of the following will fulfill the thirty hour specialization requirement:

- Architectural/Technical Drawing: IET 180 or 281, 292, 293, 391,
394, 395, 492, 496, 9 hours elective from GEO 355, 555;
GLY 106; IET 180, 233, 281, 382, 530, 591; IDH 322, 323, 324
- Communication Electronics: IET 220A, 220B, 351, 352, 357, 358,
359, 454, 455, 456, 3 hours IET elective
- Computer Electronics: EDP 312, 320; IET 351, 352, 357, 358, 359,
451, 452, 456, 2 hours IET elective; MAT 172
- Electrical Power: IET 351, 352, 356, 357, 358, 359, 372, 374 or
376, 451, 452, 551, 3 hours IET elective.

Industrial Electronics: IET 351, 352, 356, 357, 358, 359, 372, 374 or 376, 451, 452, 456, 3 hours IET elective

Instrumentation Electronics: IET 351, 352, 357, 358, 359, 372, 374 or 376, 451, 452, 456, 551, 3 hours IET elective

Metals: IET 180, 281, 292, 382, 384, 385, 386, 487, 488, 589, 3 hours IET elective

Area Major in Occupational Safety and Health Technology

MAJOR REQUIREMENTS	49 hours
ECO 220; IET 105, 106, 141, 180, 191, 281, 307, 311, 351, 372; OSH 361, 362, 363, 364, 365, 366, and 368 or IET 349	
SUPPORTING COURSE REQUIREMENTS	32-33 hours
BIO 171, 301; CHE 101; FPC 305, 410; MAT 107 and 108 or 109; PHY 131, 132	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours Social Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	3- 4 hours
(Upper division)	
TOTAL CURRICULUM REQUIREMENTS	128 hours

Area Major in Vocational-Industrial and Technical Education (Teaching)*

MAJOR REQUIREMENTS	
Professional Industrial Education	20 hours
IET 160, 261, 263, 364, 463.	
Technical Industrial Education	48 hours
IET elective.**	
SUPPORTING COURSE REQUIREMENTS	6 hours
PSY 211, 319 or 402.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for complete University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	129 hours

*A graduate of this program shall have a minimum of 2,000 clock hours of planned and supervised work experience in the occupation in which he plans

to teach, or a minimum of three years of approved work experience in the occupation in which he plans to teach.

**Laboratory courses in the area, or related to the area, in which the individual proposes to teach as approved by advisor. Eighteen semester hours maximum may be allowed by proficiency examination (IET 204, 205, 206, 304, 305, and 306). Six semester hours maximum may be allowed for supervised work experience (IET 367).

First Major in Industrial Arts Education (Teaching)

A student with a second major or a minor in another field* may pursue a first major in industrial arts education by completing IET 104, 141, 180, 191, 233, 242, 281, 292, 311, 351, 372, 394, and 467.

*Suggested supporting fields include Special Education, Physics (teaching), or Math (teaching).

First Major or Minor in Industrial Technology

A student with a second major or a minor in another field may pursue a first major in industrial technology by completing IET 105, 106, 191, 307, 408; 6 hours from IET 311, 351, 372, 244, 180/281, 3 hours management elective; and required courses in one area of specialization as follows:

Architectural Drawing: IET 292, 293, 391, 394, 395, 496
 Communications Electronics: IET 220A, 220B, 351, 357, 358, 454, 455
 Computer Electronics: EDP 312; IET 351, 352, 357, 358, 359, 456
 Electrical Power: IET 351, 352, 356, 357, 358, 372, 451, 452
 Graphic Arts: IET 311, 312, 315, 317, 391, 411, 3 hours IET elective
 Industrial Electronics: IET 281, 351, 352, 357, 358, 372, 451, 452
 Instrumentation Electronics: IET 351, 352, 357, 358, 359, 451, 452
 Metals: IET 180, 281, 292, 382, 487, 488, 3 hours from IET 384, 385, 386
 Power Mechanics: IET 372, 373, 374, 376, 471, 472, 3 hours elective
 Technical Drawing: IET 292, 293, 391, 394, 395, 492
 Woods: IET 141, 242, 244, 344, 345, 6 hours IET elective

A student with a first major in another field may pursue a minor in industrial technology by completing the following courses in one area of specialization:

Architectural Drawing: IET 191, 292, 293, 391, 394, 395, 496,
 3 hours of Architectural or Technical Drawing elective
 Communications Electronics: IET 191, 220A, 220B, 351, 357, 358,
 454, 455.
 Computer Electronics: EDP 312; IET 191, 351, 357, 358, 359, 451, 456
 Electrical Power; IET 191, 351, 352, 356, 357, 358, 372, 451
 Graphic Arts: IET 191, 311, 312, 315, 351, 391, 411, 3 hours
 Graphic Arts elective
 Industrial Electronics: IET 191, 351, 352, 357, 358, 372, 451, 452
 Instrumentation Electronics: IET 191, 351, 352, 357, 358, 451, 452, 456
 Metals: IET 180, 191, 281, 292, 351, 382, 487, 3 hours from 384,
 385, 386, 488
 Power Mechanics: IET 191, 351, 372, 373, 374, 376, 471, 472
 Technical Drawing: IET 191, 281, 292, 293, 391, 395, 492, 3 hours
 Technical Drawing elective
 Woods: IET 141, 191, 242, 244, 344, 345, 351, 3 hours of Woods elective

First Major or Minor in Occupational Safety and Health Technology

A student with a second major or minor in another field may pursue a first major in Occupational Safety and Health Technology by completing the following courses: OSH 361, 362, 363, 364, 365, OSH 368 or IET 349, and six hours from IET 180, 191, 281, 141, 351, 311, 372 for a total of not less than 31 hours.

A student with a first major in another field may pursue a minor in Occupational Safety and Health Tehnology by completing the following courses: OSH 361, 362, 363, 364, 365, OSH 368 or IET 349, and three hours from IET 180, 191, 141, 351, 311, 372 for a total of not less than 20 hours.

Associate of Arts Degree Curricula Broadcast Engineering Technology

FRESHMAN YEAR	35-36 hours
GSE 101, 102 or 105; GSO 100; GSP 180, 181; IET 105, 106, 191, 351, 357, 358; JOU 200; MAT 109 or 107 and 108; MIL 101, 102 (or options for men; electives for women).	
SOPHOMORE YEAR	32 hours
IET 220A, 220B, 352, 359, 454, 455; MIL 201, 202 (or options for men; electives for women); PHY 131, 132.	
SOPHOMORE SUMMER	2- 4 hours
IET 225A.	
TOTAL CURRICULUM REQUIREMENTS	69-72 hours

Computer Electronics Technology

FRESHMAN YEAR	32-33 hours
GSE 101, 102 or 105; GSO 100; GSP 180, 181; IET 105, 106, 191, 351, 357, 358; MAT 109 or 107 and 108; MIL 101, 102 (or options for men; electives for women).	
SOPHOMORE YEAR	32-35 hours
EDP 312, 320; GSC 171 or PHY 131, GSC 172 or PHY 132; IET 352, 359, 451, 452, 456; MIL 201, 202 (or options for men; electives for women); 0-1 hour free elective.	
TOTAL CURRICULUM REQUIREMENTS	64-68 hours

Drafting and Design Technology

FRESHMAN YEAR	32-33 hours
GSE 101, 102 or 105; GSO 100; GSP 180, 181; IET 105, 106, 191, 281, 292, 394; MAT 109 (or 107 and 108 or GSC 171 and 172); MIL 101, 102 (or options for men; electives for women).	

SOPHOMORE YEAR	32-34 hours
ART 117; ECO 230; IET 391, 395 and 3 hours selected from 293, 492 or 496; OAD 101; PHY 131 and 132 (or 6 hours general education social science; 3 hours elective and IET 201); MIL 201, 202 (or options for men, electives for women).	
TOTAL CURRICULUM REQUIREMENTS	64-67 hours

Electrical Power Technology

FRESHMAN YEAR	32-33 hours
GSE 101, 102 or 105; GSO 100; GSP 180, 181; IET 105, 106, 191, 351, 357, 358; MAT 109 or 107 and 108; MIL 101, 102 (or options for men; electives for women).	
SOPHOMORE YEAR	32-35 hours
GSC 171, 172 or PHY 131, 132; IET 352, 356, 359, 372, 374 or 376, 451, 452; MIL 201, 202 (or options for men, electives for women); 0-1 hour elective.	
TOTAL CURRICULUM REQUIREMENTS	64-68 hours

Industrial Electronics Technology

FRESHMAN YEAR	32-33 hours
GSE 101, 102 or 105; GSO 100; GSP 180, 181; IET 105, 106, 191, 351, 357, 358; MAT 109 or 107 and 108; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	32-35 hours
GSC 171, 172 or PHY 131, 132; IET 352, 356, 359, 372, 376, 451, 452; MIL 201, 202 (or options for men; electives for women); 0-1 hour free elective.	
TOTAL CURRICULUM REQUIREMENTS	64-69 hours

Instrumentation Electronics Technology

FRESHMAN YEAR	32-33 hours
GSE 101, 102 or 105; GSO 100; GSP 180, 181; IET 105, 106, 191, 351, 357, 358; MAT 109 or 107 and 108; MIL 101, 102 (or options for men; electives for women).	
SOPHOMORE YEAR	34-38 hours
GSC 171, 172 or PHY 131, 132; IET 352, 359, 372, 374, 376, 451, 452, 456; MIL 201, 202 (or options for men; electives for women).	
TOTAL CURRICULUM REQUIREMENTS	66-71 hours

Printing Technology

FRESHMAN YEAR	33 hours
GSC 172; GSE 101, 102 or 105; GSO 100; GSP 180, 181; IET 105, 106, 191, 311, 312, 315; MIL 101, 102 (or options for men, electives for women); 3 hours general education elective.	

SOPHOMORE YEAR	32 hours
IET 201, 307, 317, 351, 391, 349 (4 hours), 411; MIL 201, 202 (or options for men, electives for women); OAD 101, 3 hours general education social science elective.	
TOTAL CURRICULUM REQUIREMENTS	65 hours

Vocational-Industrial and Technical Education (Teaching)*

FRESHMAN YEAR	35 hours
GSE 101, 102 or 105; GSO 100; 12 hours of IET technical elective**; MAT 107 or IET 201; 6 hours general education social science; 3 hours of general education elective; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	36 hours
IET 263, 261, 364, 463***, and 6 hours of IET technical electives; MIL 201, 202 (or options for men, electives for women); PSY 211; 3 hours of general education humanities; 3 hours of general education math or natural science.	
TOTAL CURRICULUM REQUIREMENTS	71 hours

*A graduate of this program shall have a minimum of three years of approved work experience in the occupation in which he plans to teach, or a minimum of 1,400 clock hours of planned and supervised occupational experience in the occupation in which he plans to teach (IET 367).

**Laboratory courses in the area, or related to the area, in which the individual proposes to teach, as approved by advisor. Nine semester hours maximum may be allowed by proficiency examination (IET 204, 205 and 206). Three semester hours maximum may be allowed for supervised work experience (IET 367).

***In-service teachers should substitute 4 semester hours of IET professional courses for student teaching (IET 463—10 semester hours).

Wood Technology

FRESHMAN YEAR	34 hours
BIO 131; GSC 171 or ECO 230; GSE 101, 102 or 105; GSO 100; GSP 180, 181; IET 105, 106, 141, 191, 242, 244; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	32 hours
BIO 336; IET 233, 344, 345, 394, 12 hours IET elective*; MGT 200; MIL 201, 202 (or options for men, electives for women).	
TOTAL CURRICULUM REQUIREMENTS	66 hours

*To be selected from IET 180, 281, 292, 391, 333, 343, 351, 358, 372, 374, 382, 384, 385, 451, or 452.

Course Descriptions

- IET INDUSTRIAL EDUCATION AND TECHNOLOGY**
- 104 Industrial Career Information. One hour. I, II.**
Formerly IED 104.
A survey of the history, organization, management and problems of production and exchange in American industry with an emphasis on industrial careers and career information.
- 105 Principles of Industrial Management I. One hour. I, II.**
Formerly INT 105.
The evolution of American industry, technical occupations, production economics, product development, and industrial and labor relationships.
- 106 Principles of Industrial Management II. One hour. I, II.**
Formerly INT 106.
Formerly Industrial Orientation II.
Prerequisite: IET 105.
Location and planning of production facilities and the control of materials input for production.
- 141 Elementary Woodwork. Three hours. I, II.**
Formerly IED/INT 141.
Basic instruction in the use of common hand tools; basic machine operations; problems in wood construction; related technical information; finishing and characteristics of common hard and soft woods.
- 160 Technical Occupations-Orientation and Survey. Three hours. A.**
Formerly IED 160.
General survey of technical occupations; development, function, skill, requirements, training, and trends.
- 180 Hot Metal Processes. Three hours. I, II.**
Formerly IED/INT 180.
Formerly General Metalwork I.
Basic information and operations in foundry practices; forging; heat treating; soldering; and resistance, arc, and oxyacetylene welding.
- 191 Technical Drawing I. Three hours. I, II.**
Formerly IED/INT 191.
Basic technical drawing involving sketching, lettering, orthographic projection, pictorial representation, drafting techniques, tracing, and reproduction of drawings.
- 201 Applied Mathematics in Technology. Three hours. I, II.**
Formerly IED/INT 201.
Mathematics, involving an intensive study of applied algebra, geometry, and trigonometry with emphasis on the application of mathematics in the solution of technical problems.
- 204 Related Science, Mathematics, and Technology in Occupations I. Three hours. A.**
Formerly IED 204.
Offered only through written examination; applicant must be eligible for vocational teaching certificate.
- 205 Manipulative Skills in Occupations I. Three hours. A.**
Formerly IED 205.
Offered only through technical competence examination; applicant must be eligible for vocational teaching certificate.
- 206 Knowledge of Related Subjects in Occupations I. Three hours. A.**
Formerly IED 206.
Offered only through oral examination; applicant must be eligible for vocational teaching certificate.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 220A Practicum in Broadcast Operations. Three hours. A.**
Formerly INT 220A.
Supervised practical experiences in the operation of broadcast communication equipment; includes TV cameras and monitors, master switching panels, recording and projection devices; preparational procedures for FCC Licensing.
- 220B Practicum in Communication Equipment Maintenance. Three hours. A.**
Formerly INT 220B.
Supervised practical experiences in the maintenance of broadcast communication equipment; includes TV cameras and monitors, master switching panels, audio systems, recording and projection devices; continuation of preparational procedures for FCC Licensing.
- 220C Practicum in Instructional Media Materials. Three hours. A.**
Formerly INT 220C.
Supervised practical experiences in the design and preparation of instructional devices; includes slides, maps, charts, graphs, diagrams, models, dioramas, and transparencies; local production techniques and equipment.
- 220D Practicum in Instructional Media Equipment. Four hours. A.**
Formerly INT 220D. Three hours.
Supervised practical experiences in the selection, installation and maintenance of instructional media equipment; preparation of bid specifications; and minor repairs and preventive maintenance.
- 225A Internship in Broadcast Engineering. Two or four hours. A.**
Formerly INT 225A.
Coordinated and supervised work experience in broadcast engineering; arranged in approved University facilities or commercial establishments; credit varies with hours of employment; half-time, two hours; full-time, four hours.
- 225B Internship in Instructional Media. Two or four hours. A.**
Formerly INT 225B.
Coordinated and supervised work experience in instructional media design and fabrication; arranged in approved University facilities or commercial establishments; credit varies with hours of employment; half-time, two hours; full-time, four hours.
- 233 Industrial Arts Design. Two hours. I, II.**
Formerly IED 233.
Prerequisite: IET 191.
Study and application of the principles of three-dimensional design related to various media; emphasis placed on experimentation and problem-solving in developing design solutions; design and construction of projects involving both hand and mass production processes.
- 242 Intermediate Woodwork. Three hours. I, II.**
Formerly IED/INT 242.
Prerequisite: IET 141.
Advanced woodworking operations; instruction in the operation of woodworking machines; care and sharpening of tools; related technical information; construction and finishing of projects.
- 244 Wood Technology. Three hours. A.**
Formerly Wood Technology and Utilization IED/INT 244.
Wood as a raw material; manufacture, properties, and applications of wood and wood-base products; properties and uses of selected wood-related products.

- IET INDUSTRIAL EDUCATION AND TECHNOLOGY**
- 261 Principles of Vocational-Industrial and Technical Teaching. Two hours. A.**
Formerly IED 261.
Designed to acquaint the student with the historical developments, principles and practices related to teaching vocational-industrial and technical subjects.
- 263 Trade and Technical Occupational Analysis. Two hours. A.**
Formerly IED 263.
Involves the fundamental steps for analyzing trade and technical occupations in order to establish appropriate units of instruction.
- 264 Instructional Materials. Two hours. A.**
Formerly IED 264.
Selection and arrangement of teaching content; preparation of assignment, operation and information sheets; preparation of evaluative instruments.
- 281 Cold Metal Processes. Three hours. I, II.**
Formerly IED/INT 281.
Formerly General Metalwork II.
Basic information and operations in cold metal forming and fastening to include sheetmetal and machine tool processes.
- 292 Technical Drawing II. Three hours. I, II.**
Formerly IED/INT 292.
Prerequisite: IET 191.
Preparation of detail and assembly drawings; production illustrations; screw threads and fasteners; shop processes; dimetric projections; secondary auxiliaries; reproduction processes and materials.
- 293 Technical Drawing III. Three hours. A.**
Formerly IED/INT 293.
Prerequisite: IET 191.
Advanced drafting techniques with special emphasis on map drafting and elementary surveying.
- 300 Mechanics and Materials for Architectural Interiors. Four hours. I, II.**
Lighting, wiring, plumbing, heating, air conditioning and acoustical considerations in building interiors. Characteristics and uses of wood, metal, concrete, and plastic for interiors. Elementary laboratory experience in materials and fabrication processes.
- 304 Related Science Mathematics, and Technology in Occupation II. Three hours. A.**
Formerly IED 304.
Offered only through written examination; applicant must be eligible for vocational teaching certificate.
- 305 Manipulative Skills in Occupation II. Three hours. A.**
Formerly IED 305.
Offered only through technical competence examination; applicant must be eligible for vocational teaching certificate.
- 306 Knowledge of Related Subjects in Occupation II. Three hours. A.**
Formerly IED 306.
Offered only through oral examination; applicant must be eligible for vocational teaching certificate.
- 307 Principles of Industrial Management III. Three hours. I, II.**
Prerequisite: IET 106.
Economics of work input, standards for pay and production, production control and quality control in manufacturing.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 311 Graphic Arts I. Three hours. I, II.**
Formerly IED/INT 311.
General graphic arts with emphasis on hand composition, elementary presswork, silkscreen principles, layout and design procedures, offset lithography, photography, and bookbinding.
- 312 Graphic Arts II. Three hours. A.**
Formerly IED/INT 312.
Advanced graphic arts with emphasis on automatic machine printing, production techniques, photography, and layout and design as they relate to offset lithography and photo-silkscreen.
- 315 Photography I. Three hours. A.**
Formerly IED/INT 315.
Picture composition, film developing, printing, enlarging, dodging, contact printing, photo finishing, study of and care for equipment and materials; visual instruction; planning of facilities. (Each student required to provide camera).
- 317 Printing Supervision and Control. Three hours. II.**
Formerly Production Printing II. Five hours. A.
Prerequisite: IET 312 and 307.
Emphasis is placed on the problems of organizing and supervising a job production system which is unique to graphic arts industries. Topics include estimating, purchasing, production planning and control, and work and time standards. Laboratory activities will include simulated job production situations.
- 322 Crafts for Children. Three hours. I.**
Formerly IED 322.
Formerly Industrial Arts for Elementary Teachers.
Introduction to various craft media with application to their use in recreational crafts programs. Emphasis on activities appropriate for children and the use of inexpensive and readily available materials.
- 326 Crafts I. Three hours. I, II.**
Formerly IED 326.
Introduction to various craft media; leather, art metal enameling; castolite; wood carving; the making of archery equipment; utilization of material applicable for playground use; community centers, and summer camps.
- 328 Crafts II. Three hours. II.**
Formerly IED 328.
Introduction to lapidary and jewelry work; cabochon cutting; grinding and polishing; faceting; design and construction of costume jewelry using silver, copper, and gold; centrifugal casting using the lost wax process.
- 332 Product and Furniture Design. Three hours. I.**
Prerequisite: IET 391.
Elements of product and furniture design with emphasis on experimentation and problem solving. Laboratory activities to include the development of design solutions, drawings, illustrations, models and the construction of a small product.
- 333 Special Problems in Industrial Technology. One to six hours. A.**
Formerly INT 333.
333a. Drafting; **333b.** Graphic Arts; **333c.** Power Mechanics; **333d.** Electricity-Electronics; **333e.** Woods; **333f.** Metals; **333g.** Industrial Technology—general. (Credit in any category is limited to six hours.)

- IET INDUSTRIAL EDUCATION AND TECHNOLOGY**
- 343 Advanced Woodwork. Three hours. I, II.**
Formerly IED 343.
Prerequisite: IET 242.
Additional practice in furniture construction involving skill in the use of machines and hand tools; joinery, bending and laminating wood; finishing; wood technology; maintenance of equipment.
- 344 Wood Processing I—Production Woodworking. Three hours. A.**
Prerequisite: IET 242.
Industrial machines and processes employed in the manufacture of wood products; planning and mass-producing a fabricated wood product; one industry field trip required.
- 345 Wood Processing II—Seasoning, Veneering, and Laminating. Three hours. A.**
Prerequisite: IET 141.
Principles and practices of wood seasoning by air, kiln, and other methods; materials and methods of wood veneering; materials and methods of applying plastic laminates and vinyl films; two industry field trips required.
- 349 Cooperative Study in Industrial Education & Technology. Two or four hours. A.**
Prerequisites: Departmental consent.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 351 Fundamentals of Applied Electricity. Three hours. I, II.**
Formerly IED/INT 351.
Principles of static and current electricity; measures of electricity; heat, light and power applied to the planning and construction of electrical installations.
- 352 Rotating Electrical Machinery and Power Distribution. Three hours. A.**
Formerly IED/INT 352.
Formerly Electrical Power and Motor Repair.
Prerequisite: IET 351.
Principles of electrical motors and generators; control processes; electrical power production and distribution.
- 353 Introduction to Electronics. Three hours. II.**
Formerly IED/INT 353.
Prerequisite: IET 351.
Fundamentals of vacuum tubes and semiconductor devices as utilized in power supplies, amplifiers, and control circuitry.
- 356 Electrical Power Systems and Control Applications. Three hours. A.**
Formerly IED/INT 356.
Prerequisite: IET 352.
Modern electrical power systems: the production, distribution, measurement and control of electrical power systems; single phase and polyphase transformers and other control devices.
- 357 Electronic Devices. Three hours. I.**
Prerequisite: IET 351.
A technical analysis of static and dynamic characteristics of typical vacuum tube, gaseous tubes, and solid state electronic devices.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 358 Electrical and Electronics Circuit Analysis. Three hours. A.**
Prerequisite: IET 351.
Electrical and electronic calculations and circuit analysis techniques. Emphasis on problem solving, supplemented by laboratory analysis of direct and alternating current electrical and electronic circuits.
- 359 Computer Logic Circuits. Three hours. A.**
Prerequisite: IET 358.
The study of logic circuit digital systems, computer operational characteristics, memory systems, and control circuitry.
- 360 Principles of Vocational Guidance. Three hours. A.**
Formerly IED 360.
Methods and techniques involved in exploring, selecting, preparing for, entering upon, and succeeding in a vocation, designed for vocational teachers and administrators.
- 363 Evaluation in Vocational and Technical Education. Three hours. A.**
Formerly IED 363.
Methods of evaluation, preparation of measuring devices; methods of assessing technical competency; interpretation of standardized test results; statistical analyses of test data and the improvement of instruction.
- 364 Methods in Vocational-Industrial and Technical Education. Three hours. A.**
Formerly IED 364.
Presentation and application of instructional materials, methods, techniques and devices relevant to teaching vocational-industrial and technical subjects.
- 365 Philosophy of Vocational-Industrial and Technical Education. Three hours. A.**
Formerly IED 365.
Nature and purpose of the practical arts and vocational-industrial and technical education; their relationship and differences; the place of each in preparing people for the world of work.
- 366 Instructional Aids in Vocational-Industrial and Technical Education. Three hours. A.**
Formerly IED 366.
Selection, development, analysis, cataloging, and use of commercial and self-made instructional materials suitable for vocational-industrial and technical education.
- 367 Supervised Work Experience in Industry. One to six hours. A.**
Formerly IED 367.
Supervised employment in industry. Assignments individually arranged by University coordinator and the cooperating industry. Written reports required.
- 368 Workshop in Vocational-Industrial and Technical Education. Two to six hours. A**
Formerly IED 368.
368a. Graphic Arts; **368b.** Power Mechanics; **368c.** Electricity-Electronics; **368d.** Woods; **368e.** Metals; **368f.** Drafting; **368g.** Professional. (Credit in any category is limited to six hours.)
- 372 Power Mechanics I. Three hours. I, II.**
Formerly IED/INT 372.
Principles of power sources and basic mechanisms; disassembly, inspection, measurement, adjustment, and tune-up of the two and four cycle small gasoline engine.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 373 Power Mechanics II. Three hours. A.**
Formerly IED/INT 373.
Prerequisite: IET 372.
Study of the multi-cylinder engine; fuels and fuel systems, lubrication, cooling, ignition, tests, tune-up, adjustment, and minor repair.
- 374 Fundamentals of Fluid Circuits and Components. Three hours. A.**
Prerequisite: IET 372.
The study of the applications, physical laws, and principles of the operation and construction of fluid circuits, and components. Analysis of the properties of fluids, available types of fluid components, and their function within fluid circuits. Similarities and differences between pneumatic and hydraulic systems, components, symbology, circuit design and calculations.
- 376 Fluid Power Circuits and Systems. Three hours. A.**
Prerequisite: IET 372.
The designing, assembling, and operation of fluid power circuits utilizing pneumatic, hydraulic, and electrical components. Circuit calculations, component selection, circuit troubleshooting, and applications in industry.
- 382 Machine Tool Processes I. Three hours. I, II.**
Formerly IED/INT 382.
Formerly Machine Shop Practice I.
Prerequisite: IET 281.
Projects and problems involving machine operations on the lathe; benchwork; blueprint reading; precision measurement; related technical information.
- 383 Arc and Oxyacetylene Welding. Three hours. A.**
Formerly IED/INT 383.
Formerly IED/INT 283.
Manipulative processes and related information basic to successful arc, oxyacetylene, and tungsten inert gas welding; metallurgy of welding; physical testing of weldments. For non-majors only.
- 384 Electrical Welding. Three hours. A.**
Prerequisite: IET 180.
A survey of electrical welding processes to include resistance, conventional metallic arc, metallic arc gas (MIG), and tungsten inert gas (TIG) welding. Basic metallurgy heat treatment, symbols, and assembly methods related to electric welding.
- 385 Oxyacetylene Welding. Three hours. A.**
Prerequisite: IET 180.
A survey of gas welding processes to include conventional oxyacetylene welding, machine cutting, surface metallizing, bronze welding and brazing, and surface hardening. Basic metallurgy, heat treatment, symbols, and assembly methods related to gas welding.
- 386 Hot Metals Processes II. Three hours.**
Prerequisite: IET 180.
Metal heat treatment and foundry practices. Heat treatment topics to include physical and chemical properties of metal, metallography, and impact, tensile strength, and hardness testing. Foundry topics to include pattern-making, foundry materials, and techniques in shell and sand molding.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 391 Technical Illustration I. Three hours. I, II.**
Formerly INT 205.
Formerly INT 305.
Prerequisite: IET 191.
Axonometric projection — isometric, dimetric, and trimetric; oblique; pseudo representations and perspectives; commercial and technical illustration including airbrush, pencil rendering, ink delineations and other methods.
- 394 Architectural Drawing I. Three hours. I, II.**
Formerly IED/INT 394.
Prerequisite: IET 191.
Basic principles of house planning; styles of home architecture; comparative study of building materials; preparation of a complete set of plans and specifications for a small house.
- 395 Descriptive Geometry. Three hours. A.**
Formerly IED/INT 395.
Prerequisite: IET 191.
Application of the theory of orthographic projection to the graphical representation and solution of three-dimensional problems.
- 408 Seminar in Industrial Management. One hour. I, II.**
Topics in human relations and production management. To be scheduled the semester just prior to graduation.
- 411 Graphic Arts III. Three hours. A.**
Formerly IED/INT 411.
Prerequisite: IET 312.
Advanced photography, offset lithography; graphic arts materials and processes; printing management; current trends in the graphic arts industry.
- 451 Industrial Electronics I. Three hours. I.**
Formerly IED/INT 451.
Prerequisite: IET 358.
Principles of timing, control circuitry, transducers, and gaseous tubes as applied to industrial and commercial installations.
- 452 Industrial Electronics II. Three hours. II.**
Formerly IED/INT 452.
Prerequisite IET 451.
Applications of industrial control circuitry, sensing circuitry, and transducers; maintenance and repair of electronic devices.
- 454 Communications Electronics I. Three hours. I.**
Formerly IED/INT 454.
Prerequisite: IET 358.
Advanced radio communication receiving principles; quality audio reproducing devices; transmitter procedures; transmitting antennas; communications systems; and electronics servicing techniques.
- 455 Communications Electronics II. Three hours. II.**
Formerly IED/INT 455.
Prerequisite: IET 454.
Principles of television; antenna theory and installation; closed circuit television operation; and television servicing techniques.
- 456 Integrated Circuit Principles and Design. Three hours. II.**
Prerequisite: IET 451 or 454.
Technical analysis of integrated circuits with linear and nonlinear applications and circuit design principles.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 460 Seminar in Vocational-Industrial and Technical Education. Three hours. A.**
Formerly IED 460.
Individual and group investigations of current problems and issues in the field of vocational-industrial and technical education. Each student will be expected to plan and complete a minor research project and present his findings to the seminar.
- 463 Supervised Student Teaching in Vocational-Industrial and Technical Education. Four to ten hours. A.**
Formerly IED 463.
Observation, participation, and supervised teaching in vocational-industrial and technical education. Includes experience in lesson planning, classroom management, record keeping, development and use of instructional materials, and directed teaching in approved centers.
- 467 Problems and Practices of the General Shop. Three hours. I, II.**
Formerly IED 467.
Planning and organization of physical laboratory facilities with emphasis on the comprehensive general shop and general unit shop. Preparation of instructional materials; instructional techniques; development and use of visual aids.
- 471 Power Transmission. Three hours. A.**
Formerly IED/INT 471.
Prerequisite: IET 372.
Principles of mechanical, electrical and fluid power transmission. Disassembly, inspection, and adjusting of mechanical transmission units; construction of fluid power circuits emphasizing their application to modern machines.
- 472 Chassis and Electrical Systems. Three hours. A.**
Formerly IED/INT 472.
Prerequisite: IET 372.
Detailed study and application of starting, charging, lighting, and accessory circuits; suspension, brakes, power brakes, steering, air conditioning.
- 487 Machine Tool Processes II. Three hours. A.**
Formerly IED/INT 487.
Prerequisite: IET 382.
Continuation of IET 382 with increased emphasis on machine tool operations; gear cutting; tool and cutter grinding; problems in tool making; related technical information.
- 488 Machine Tool Processes III. Three hours. A.**
Formerly IED/INT 488.
Prerequisite: IET 487.
Advanced machine tool operations and tool making; heat treating of metals; related technical studies and metrology.
- 492 Technical Drawing IV. Three hours. II.**
Formerly IED/INT 492.
Prerequisite: IET 292.
Advanced machine drafting dealing with detail and assembly drawings, ing, patent drawing, production illustrations, and tool design.

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- 496 Architectural Drawing II. Three hours. II.**
Formerly IED/INT 496.
Prerequisite: IET 394.
Preparation of complete plans and specifications for small commercial and large residential buildings; emphasis on modern methods and materials utilized in the building industry; illustrative rendering; structural modeling.
- 501 Special Problems in Industrial Education and Technology. Three hours. I, II.**
Formerly IED 501.
Formerly Special Problems in Industrial Education.
Formerly INT 501.
Formerly Special Problems in Industrial Technology.
A course for graduates and exceptional undergraduates involving independent study and research related to problems of a theoretical and/or practical nature. An independent problem is planned by the student prior to enrollment and then approved and supervised by a faculty consultant. Students receiving graduate credit must specify those additional requirements in the problem investigation which warrant that credit.
- 502 Industrial Materials and Processes. Three hours. A.**
Formerly IED/INT 502.
Characteristics, utilization and processing of industrial materials such as wood, metals, plastics, clay, glass, concrete, etc.; composition and working qualities; types, grades, availability, and suitability of materials for varying purposes; shaping, forming, cutting, and finishing processes; quality, prices and control of materials and products. Students receiving graduate credit are required to submit an additional technical report, the subject of which is to be approved by the instructor.
- 503 New Developments in Industry. One to six hours. A.**
Concurrent enrollment in approved industry-sponsored course. One semester hour credit for each week of enrollment (minimum of 20 class hours per week) on satisfactory-unsatisfactory basis. Student required to present proof of completion. May be repeated for total of 12 hours of which no more than 3 hours may be graduate credit. Students receiving graduate credit are required to develop a teaching unit on the new development.
- 511 Advanced Technical Problems in Graphic Arts. Two to six hours. I, II.**
Formerly IED/INT 511.
Technical instruction in the graphic arts field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in graphic arts. An independent problem is planned by the student prior to enrollment and then approved and supervised by a faculty consultant. Students receiving graduate credit must specify those additional requirements in the problem investigation which warrant that credit.
- 530 Creative Problem-Solving in Technical Fields. Three hours. A.**
Formerly IED/INT 633, IET 633.
A review and analysis of basic and applied research in the development of creative behavior with emphasis on its application to industrial teaching and industrial problem solving. Graduate students will be expected to complete a term project demonstrating their creative abilities. Students receiving graduate credit will be required to complete additional readings and papers on selected topics of concern.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 533 Workshop in Industrial Education and Technology. One to four hours. A.**
Formerly IED 533.
Formerly Workshop in Industrial Education.
Formerly INT 533.
Formerly Workshop in Industrial Technology.
533a Design; 533b Graphic Arts; 533c Plastics; 533d Power Mechanics; 533e Electronics; 533f Woods; 533g Metals; 533h Crafts; 533i Professional Industrial Education; 533j Drafting; 533k Occupational Safety; 533m Vocational Administration. (Maximum credit in any category is limited to four hours.) Workshop requirements will be designated to distinguish between graduate and undergraduate credit.
- 541 Advanced Technical Problems in Woodworking. Two to six hours. I, II.**
Formerly IED/INT 541.
Technical instruction in the woodworkking field. Recent developments, advanced technical and experimental problems, and preparation of technical reports in woodworking. An independent problem is planned by the student prior to enrollment and then approved and supervised by a faculty consultant. Students receiving graduate credit must specify those additional requirements in the problem investigation which warrant that credit.
- 551 Advanced Technical Problems in Electricity/Electronics. Two to six hours. I, II.**
Formerly IED/INT 551.
Technical instruction in the electricity-electronics field; recent developments, advanced technical and experimental problems, and preparation of technical reports in electricity-electronics. An independent problem is planned by the student prior to enrollment and then approved and supervised by a faculty consultant. Students receiving graduate credit must specify those additional requirements in the problem investigation which warrant that credit.
- 561 Evaluation in Technical Education. Three hours. A.**
Formerly IED/INT 561.
Strategies and methods for evaluation in technical education; identification and analysis of context, input, process, and outcomes; preparation, use, and analysis of measuring instruments. Students receiving graduate credit are required to develop a comprehensive plan of evaluation for a selected school or school system.
- 563 Planning of Technical Education Facilities. Three hours. A.**
Formerly IED 563. Two hours.
Principles and practices underlying the planning and designing of shops and laboratories for vocational, industrial, and technical education. Students receiving graduate credit are required to design a multi-laboratory facility which complies with existing safety and health laws.
- 571 Advanced Technical Problems in Power Mechanics. Two to six hours. I, II.**
Formerly IED/INT 571.
Technical instruction in the power mechanics field; recent developments; advanced technical and experimental problems, and preparation of technical reports in power mechanics. An independent problem is planned by the student prior to enrollment and then approved and supervised by a faculty consultant. Students receiving graduate credit must specify those additional requirements in the problem investigation which warrant that credit.

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- 81 Advanced Technical Problems in Metalworking. Two to six hours. I, II.**
Formerly IED/INT 581.
Technical instruction in the metalworking field; recent developments, advanced technical and experimental problems, and preparation of technical reports in metalworking. An independent problem is planned by the student prior to enrollment and then approved and supervised by a faculty consultant. Students receiving graduate credit must specify those additional requirements in the problem investigation which warrant that credit.
- 89 Characteristics and Maintenance of Tools and Machines. Three hours. A.**
Formerly IET 489. Characteristics and Maintenance of Machine tools.
Formerly IED/INT 489.
Prerequisite: IET 382.
The characteristics, preventive maintenance, trouble shooting, and repair of woodworking and metal working tools and machines. Students receiving graduate credit will be required to develop a maintenance plan for an industrial education laboratory.
- 91 Advanced Technical Problems in Drafting. Two to six hours. I, II.**
Formerly IED/INT 591.
Technical instruction in the drafting field, recent developments, advanced technical and experimental problems, and preparation of technical reports in drafting. An independent problem is planned by the student prior to enrollment and then approved and supervised by a faculty consultant. Students receiving graduate credit must specify those additional requirements in the problem investigation which warrant that credit.
- 11a Advanced Technical Study in Printing Technology. Photography. Three hours. A.**
Formerly IED/INT 611a.
Prerequisite: IET 315.
Advanced technical study, research and experimentation in photography; cameras and lenses, filters, films, enlarging, dodging, and finishing; color photography; darkroom techniques.
- 11b Advanced Technical Study in Printing Technology: Layout and Design. Three hours. A.**
Formerly IED/INT 611b.
Prerequisite: IET 312.
Advanced technical study, research and experimentation in layout, and design; concepts of graphic design related to newspapers, books, brochures, flyers, and posters; practical experience in design and layout of graphic presentations.
- 11c Advanced Technical Study in Printing Technology: Color Separation. Three hours. A.**
Formerly IED/INT 611c.
Prerequisite: IET 411.
Advanced technical study, research and experimentation in color separation; copy preparation, camera techniques, developing, stripping, platemaking and press operations.

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- 611d Advanced Technical Study in Printing Technology: Photo-Offset-Lithography. Three hours. A.**
Formerly IED/INT 611d.
Prerequisite: IET 312 and 411.
Advanced technical study, research and experimentation in photo-offset-lithography; inks, fountain solutions, films, chemicals, type methods, layout, stripping, camera techniques and platemaking.
- 611e Advanced Technical Study in Printing Technology: Quality Control. Three hours. A.**
Formerly IED/INT 611e.
Prerequisite: IET 312 and 411.
Advanced technical study, research and experimentation in printing quality control; plant layout, temperature, humidity, chemicals, papers and photographic materials.
- 631a Advanced Technical Study in Design Technology: Product Design. Three hours. A.**
Prerequisite: IET 391 and 530.
Advanced technical study, research, and experimentation in the design of consumer products, with special emphasis on individual creative problem solving and the development of professional two and three dimensional presentations of solutions.
- 631b Advanced Technical Study in Design Technology: Graphic Design. Three hours. A.**
Prerequisite: IET 391 and 530.
Advanced technical study, research, and experimentation in design as it applies to the field of graphic communication with special emphasis on individual creative problem solving and the illustration, layout and execution of a graphic presentation.
- 631c Advanced Technical Study in Design Technology: Architectural Design. Three hours. A.**
Prerequisite: IET 391, 394, and 530.
Advanced technical study, research, and experimentation in design as it relates to architecture with special emphasis on individual creative problem solving and the development of two and three dimensional presentations of solutions.
- 641a Advanced Technical Study in Wood Technology: Structure, Composition, and Identification of Wood. Three hours. A.**
Formerly IED/INT 641a.
Formerly Advanced Technical Study in Wood Technology: Structure and Characteristics.
Prerequisite: IET 244.
Advanced study and research related to the structure, composition and identification of wood.
- 641b Advanced Technical Study in Wood Technology: Physical and Mechanical Properties of Wood. Three hours. A.**
Formerly IED/INT 641b.
Formerly Advanced Technical Study in Wood Technology: Dimensional Stability.
Prerequisite: IET 244.
Advanced study and research related to the physical properties of wood and their significance in wood utilization.

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641c Advanced Technical Study in Wood Technology: Wood Deterioration, Seasoning, and Preservation. Three hours. A.

Formerly IED/INT 641c.

Formerly Advanced Technical Study in Wood Technology: Veneer and Plywood Production.

Prerequisite: IET 244.

Advanced study and research related to wood deterioration; seasoning, and preservation. Agencies of wood deterioration: air, kiln, and other drying methods; materials, methods, and processes of wood preservation.

641d Advanced Technical Study in Wood Technology: Wood Veneering, Laminating, and Gluing. Three hours. A.

Formerly IED/INT 641d.

Formerly Advanced Technical Study in Wood Technology: Wood Substitutes.

Prerequisite: IET 244 and 345.

Advanced study and research related to the areas of laminating, veneering, and gluing.

641e Advanced Technical Study in Wood Technology: Wood and Wood-Related Products. Three hours. A.

Formerly IED/INT 641e.

Formerly Advanced Technical Study in Wood Technology: Adhesives. Prerequisite: IET 244 and 344.

Advanced study and research related to the manufacturing methods, composition, properties and/or construction of the most widely used wood-related products.

651a Advanced Technical Study in Electricity/Electronics Technology: Solid State Electronics. Three hours. A.

Formerly IED/INT 651a.

Prerequisite: IET 452, 455, 456 or Equivalent.

Advanced technical study, research and experimentation in solid state electronics; amplifying devices, solid state and integrated circuit analysis and design.

651b Advanced Technical Study in Electricity/Electronics Technology: Computer Electronics. Three hours. A.

Formerly IED/INT 651b.

Prerequisite: IET 359 or 456.

Advanced technical study, research and experimentation in computer electronics; digital systems, logic, component functions, memory systems, and control circuitry.

651c Advanced Technical Study in Electricity/Electronics Technology: Communicative Systems. Three hours. A.

Formerly IED/INT 651c.

Prerequisite: IET 455.

Advanced technical study, research and experimentation in electronic communicative systems; signal analysis, transmission and modulation; intelligence and navigational transmission and reception; troubleshooting analysis and procedures.

651d Advanced Technical Study in Electricity/Electronics Technology: Microwave Electronics. Three hours. A.

Formerly IED/INT 651d.

Prerequisite: IET 455.

Advanced technical study, research and experimentation in microwave electronics; field phenomena; equipment components and characteristics, measurement techniques; communication systems.

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- 651e Advanced Technical Study in Electricity/Electronics Technology: Instrumentation. Three hours. A.**
Formerly IED/INT 651e.
Prerequisite: IET 452.
Advanced technical study, research and experimentation in instrumentation; measurement concepts; industrial considerations; electrical and electronic instruments and applications; control and regulation systems.
- 661 Supervision in Technical Education. Three hours. A.**
Formerly IED 661.
Principles, objectives, methods, techniques, and practices of supervision; selection and organization of instructional materials; planning and equipping facilities; and professional and in-service education as they relate to the supervision of technical, vocational, and general industrial education programs.
- 662 Philosophy of the Practical Arts and Vocational Education. Three hours. II.**
Formerly IED 662.
Background, purpose and philosophies of the practical arts and vocational education; relationship to general education; effects of legislation for the practical arts and vocational education; the state plan.
- 663 Organization and Administration of Technical Education. Three hours. A.**
Formerly IED 663.
Organization of industrial education on the local, state, and national level; federal legislation in technical education; federal-state relationships; types of technical, vocational, and general industrial education programs and schools.
- 667 Research in Industrial Technology. Three hours. A.**
Formerly INT 667.
Individual investigations in the field of industrial technology. Investigations may be conducted in the field or laboratory and under the supervision of the research advisor and other staff members. (May be repeated to a maximum of six hours.)
- 681a Advanced Technical Study in Metal Technology: Industrial Metrology. Three hours. A.**
Formerly IED/INT 681a.
Prerequisite: IET 487.
Advanced technical study, research and experimentation in industrial metrology; precision measurement equipment and techniques; high amplification pneumatic, electronic, mechanical, and optical comparators; interferometry, radiography and monochromatic light techniques.
- 681b Advanced Technical Study in Metals Technology: Tool Design. Three hours. A.**
Formerly IED/INT 681b.
Prerequisite: IET 487.
Advanced technical study, research and experimentation in tool design; design and fabrication of tooling jigs, fixtures and dies; modern metal forming production techniques; efficiency in machine utilization; heat treatment of metallic substances.
- 681c Advanced Technical Study in Metals Technology: Materials Testing. Three hours. A.**
Formerly IED/INT 681c.
Prerequisite: IET 180 or 383, and 487.
Advanced technical study, research and experimentation in materials testing; non-destructive tests including Zygló, Magniflo, dye penetrant, magniflux, X-ray, ultrasonic, nucleonic, and radiographic, destructive tests including tensile strength, compression, shear, torsion, and impact resistance; specimen preparation.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 681d Advanced Technical Study in Metals Technology: Mechanical Power Transmission. Three hours. A.**
Formerly IED/INT 681d.
Prerequisite: IET 487.
Advanced technical study, research and experimentation in mechanical power transmission devices; properties and design application of the involute curve; gear types; spherical and planetary application systems; design and fabrication of power transmission devices.
- 681e Advanced Technical Study in Metals Technology: Assembly Processes. Three hours. A.**
Formerly IED/INT 681e.
Prerequisite: IET 487.
Advanced technical study, research and experimentation in metals assembly processes, adhesive bonding and seals; mechanical fasteners and components; brazing, soldering and welding techniques; pneumatic and hydraulic assembly applications.
- 691a Advanced Technical Study in Drafting Technology: Theory of Projection I. Three hours. A.**
Formerly IED/INT 691a.
Prerequisite: IET 395.
Advanced technical study, research and experimentation in projection theory; Mongean method and adaptations; positional change and theorems; force systems.
- 691b Advanced Technical Study in Drafting Technology: Theory of Projection II. Three hours. A.**
Formerly IED/INT 691b.
Prerequisite: IET 391 and 395.
Advanced technical study, research and experimentation in projection theory; axonometric, oblique, perspective, and stereographic projection; shades and shadows applied to pictorial representation.
- 691c Advanced Technical Study in Drafting Technology: Advanced Illustration. Three hours. A.**
Formerly IED/INT 691c.
Prerequisite: IET 391 and 691b.
Advanced technical study, research and experimentation in technical illustration; media; pencil, ink, Zip-a-tone, scratchboard, double and triple-tone board, coquille board, intaglio, airbrush, and planographic impression techniques; photo retouching; problems analysis; preparation of presentations.
- 691e Advanced Technical Study in Drafting Technology: Drafting Standards. Three hours. A.**
Formerly IED/INT 691e.
Prerequisite: IET 292.
Advanced technical study, research and experimentation in drafting standards; study of ANSI, and selected industrial standards; influences affecting standards; preparation of standards for a manufacturing or architectural establishment; geometric dimensioning and tolerancing and metric dimensioning.
- 698 Thesis I. Three hours. A.**
Formerly IED/INT 698.
- 699 Thesis II. Three hours. A.**
Formerly IED/INT 699.

OSH OCCUPATIONAL SAFETY AND HEALTH TECHNOLOGY

- 361 Introduction to Occupational Safety and Health. Three hours. I.**
A discussion of the historical development of industrial accident prevention, development of occupational safety and health legislation and the relationship of safety to industrial, public, and private occupations.
- 362 Occupational Health and Safety Laws. Three hours. II.**
The purposes, rules, and regulations of the William-Steigers and the Kentucky Occupational Health and Safety Acts. Also other related occupational health and safety rules and regulations.
- 363 Instrumentation. Three hours. I.**
Evaluation and measurement of safety and health hazards—noise, gases, vapors, heat, light, and particles. Basic instrumentation techniques with commercially available instruments studied and used in the laboratory.
- 364 Electrical and Mechanical Hazards. Three hours. II.**
Safety and health hazards which exist in dealing with electrical and mechanical systems, to include methods of safeguarding and improving systems to provide safer and healthier conditions—National Electrical Code usage, electrical systems, test and repairs of electrical equipment and troubleshooting.
- 365 Material Handling—Personal and Mechanical Protective Equipment. Three hours. I.**
A study of safe material handling techniques, personal protective equipment, and mechanical and machine guarding as it relates to occupational health and safety.
- 366 Safety Control and Analysis. Three hours. II.**
Management practices and principles as they apply to accident prevention, control, analysis, and evaluation. Current laws, legislation, certification and professional ethics.
- 368 Occupational Safety and Health Practicum. Two or four hours. A.**
A 160 or 320 clock hour experience consisting of “process” observation while working with OSH people in or from industry. Planned activities will include: using measuring instruments related to detecting related hazards, related problem solving and analysis; writing reports; and planning a comprehensive safety program. 160 clock hours equals 2 credit hours.

College of Arts and Sciences

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COLLEGE OF ARTS AND SCIENCES

Frederic D. Ogden, Dean
Glenn O. Carey, Associate Dean

The role of the College of Arts and Sciences is to provide a liberal education for all students and to help them prepare for life in the cultural setting in which they will practice their vocations and professions.

Liberal education should enable men and women to free and enlarge their spirit, to liberate them from the bondage of mere existence, and to enable them to choose in freedom their values and goals. The College offers opportunities for education with these goals not only to its own students, but also to students in all other colleges in the University.

The College of Arts and Sciences cooperates with Central University College in offering courses in general education; with the Colleges of Allied Health and Nursing, Applied Arts and Technology, Business, Education, and Law Enforcement in providing upper level courses; and with the Graduate School in presenting graduate courses and programs.

The College offers associate degree and baccalaureate degree programs. The College also offers instruction to prepare students for professional fields.

Admission to the College of Arts and Sciences

Students are admitted to the College at the beginning of their junior year. All students pursuing courses of study offered by the College are registered in it including those students seeking certification to teach at the secondary level. Students must have completed a minimum of 60 semester hours to be admitted.

Degrees Offered

The following degrees are granted: Associate of Arts, Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Music, Bachelor of Music Education, and Bachelor of Individualized Studies.

The Associate of Arts is conferred upon students in chemical technician, geological engineering technician, legal assistance and medical laboratory technician. The Bachelor of Arts is conferred upon students who major in anthropology, art, broadcasting, chemistry, economics, English, French, geography, geology, German, history, Iberò-American studies, journalism, Latin, legal assistance, music, philosophy, planning and development, political science, social work, sociology, Spanish, speech, speech communication and human relations, speech and theatre arts, theatre arts, and transportation systems. The Bachelor of Fine Arts is conferred upon students who major in art with an emphasis in design, jewelry and metalsmithing, painting, printmaking, and sculpture and in performing arts. The Bachelor of Science is conferred upon students who major in biology, chemistry, computer science, earth science, environmental resources, fisheries management, geology, mathematics, medical technology, microbiology, physics, pre-medical sciences, psychology, statistics, and wild-life management. The Bachelor of Individualized Studies degree is also given and administered by the College of Arts and Sciences.

Requirements for Graduation

Students file an application for graduation in the Dean's office. They should apply by the end of April if they will complete requirements in December, by the end of October if they will graduate in May or August. **It is the student's responsibility to plan his program and to register for the proper courses so that he will have satisfied all requirements at the time he expects to graduate.**

Degree Requirements

1. A minimum of 128 hours with a grade-point average of 2.0 overall and in the major. Thirty of the last 36 hours must be earned at Eastern Kentucky University. This requirement may be waived upon recommendation by the department chairman and approved by the college dean.

2. The 128 hours must include the following general subject requirements:

- 6 hours in communications
- 12 hours in humanities
- 12 hours in social science

12 hours in mathematics and natural science (all may be in natural science with at least three hours in biological science and three hours in physical science)

4 hours in health and physical education

8 hours in military science or in approved options (men only)

(Refer to pp. 54-58 for detailed University general education requirements.)

3. Area, major and minor requirements: Each student must have an area of specialization or a major. He may have, but is not required to have, a minor in programs without the right of teaching certification. He may have a major with supporting courses in lieu of a minor if he is obtaining teacher certification in art, biology, chemistry, English, history, and mathematics. In all other teaching fields he must have an area or a major and a minor. The minimum number of hours in an area is 48 and in a major is 30. The minimum number of hours for a minor is 18 except that it is 21 with teaching certification. (See programs under each department for course requirements.)

A student who transfers from another college or university must earn a minimum of 6 to 12 hours in his area or major at Eastern, the exact minimum to be determined by his advisor. Where a minor is required, he must earn a minimum of one course in the minor at Eastern.

Each student must register his area or his major when he is admitted into the College of Arts and Sciences. He does so by applying for a planned curriculum. If he plans to receive a certificate to teach, he applies while enrolled in EDF 202 or EDF 300. Otherwise he applies to the Office of the Dean, College of Arts and Sciences. Each student's planned curriculum will be prepared in consultation with a faculty advisor from the major department who will continue as the student's advisor until graduation. Any change in the planned curriculum must be approved by the advisor, the Dean of the College of Arts and Sciences, and the Dean of the College of Education (if with right of teaching certification).

Graduate Programs

In cooperation with the Graduate School, the College offers the Master of Arts, Master of Science, Master of Music, Master of Music Education, and Master of Public Administration degrees. The Master of Arts is offered in English, French, geography, history, political

science, psychology, sociology, and Spanish. The Master of Science is offered in biological sciences, chemistry, geology, mathematics, physics, and psychology (clinical and school.) The College of Education offers the Master of Arts in Education with an emphasis in art, biology, chemistry, earth science, English, French, general science, geography, history, mathematics, music, physics, political science, social work, sociology, and Spanish. The departments in the College of Arts and Sciences cooperate in presenting these programs, which are described in the Graduate School Catalog.

Course Numbering

Courses numbered in the 500 series are open to seniors and graduate students who meet course and program prerequisites. **Additional appropriate experiences are required of all graduate students enrolled in the same course with undergraduates.** Courses numbered in the 600 series are open only to graduate students.

Preprofessional Curricula

Pre-Engineering Curricula

There are two pre-engineering programs offered. One is the Two-Two program and the other is the Three-Two program. The names refer to the number of years spent at Eastern and the number of years spent at engineering school.

In the 2-2 program, the student spends two years at Eastern and studies basic science, mathematics, and courses for his basic education. The student then transfers his credits to the engineering school of his choice. If he chooses his courses wisely, he can usually graduate after two years' work at the engineering school with a degree in engineering.

In the 3-2 program, the student spends three years at Eastern and may take two years' work in engineering at Georgia Institute of Technology or the University of Kentucky and get two degrees, one from Eastern in Physics or Chemistry and one from the engineering school. The additional year spent at Eastern allows the student to do more work in a science major, thus improving the breadth of his background.

There are variations in the different engineering programs and also differences in requirements among engineering schools. Courses must be carefully selected in consultation with the pre-engineering advisor.

Two-Two Program

MAJOR REQUIREMENTS	16 hours
IET 191; PHY 201, 202, 221.	
SUPPORTING COURSE REQUIREMENTS	22 hours
MAT 109, 111, 112, 213, 353; CSC 172; PHY 107.	

GENERAL EDUCATION REQUIREMENTS	24 hours
CHE 111, 112; GSE 101, 102; GSO 100; GSP 180, 181; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	62 hours

Three-Two Program

Variations occur depending upon the engineering degree sought and the differing requirements of Georgia Institute of Technology and the University of Kentucky. Inquiries concerning a specific program should be addressed to the pre-engineering advisor, Department of Physics. A program representative of the first two years is given above. The third year curriculum will depend primarily on the undergraduate major sought, either physics or chemistry.

Pre-Forestry

Arrangements made through the Southern Regional Education Board provide for students who wish to prepare as professional foresters to do the first two years of their work at Eastern Kentucky University and complete their training in two years and one summer at University of Kentucky or any other accredited School of Forestry.

Students may elect a three-year program and graduate with a Bachelor of Science degree with a major in biology by transferring 30 semester hours from an accredited School of Forestry.

MAJOR REQUIREMENTS	17- 19 hours
BIO 131, 211, 335, 336 or 328, 315.	
SUPPORTING COURSE REQUIREMENTS	39 hours
MAT 109, 111; CHE 111, 112; PHY 131, 132; GLY 210; AGR 215; ECO 230.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102; ENG 209 or 211; ENG 210 or 212; 6 additional hours of Humanities; GSS 246 or HIS 202; GSS 247 or HIS 203; 6 additional hours of Social Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	3 hours
TOTAL CURRICULUM REQUIREMENTS	102-104 hours

Pre-Optometry Curriculum

Students desiring to enter the competition for admission to an optometry school must complete a minimum of two years of pre-optometry courses. Practically, optometry schools usually require a minimum of 2 years of college work be completed at the time of application to the optometry school. The

application deadline for optometry schools is usually in December. A minimum of three years work is required in the optometry school for the Doctor of Optometry (O.D.). Some optometry schools require four years for the O.D., and several universities have graduate programs leading to the M.S. and Ph.D. degrees in addition to programs leading to the O.D.

Requirements for admission to optometry schools vary. The student wishing to enter a pre-optometry program should immediately secure transfer information from the optometry school of his choice and then consult with his pre-optometry advisor.

Courses which students may take to meet requirements for admission to optometry schools should include the following ones:

MAJOR REQUIREMENTS	22 hours
BIO 141, 211, 221; PHY 131-L, 132-L.	
SUPPORTING COURSE REQUIREMENTS	12 hours
MAT 109, 111; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	29 hours
CHE 111, 112; GSE 101, 102; GSO 100; GSP 180, 181; Social Science elective; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	63 hours

Students may elect to obtain a Bachelor of Science degree at Eastern before obtaining the Doctor of Optometry in an optometry school. In this event the curriculum will be outlined by the science department in which each student majors, and approved by the Dean of Arts and Sciences.

A limited number of students who are residents of Kentucky and who have completed the required pre-optometry courses are allowed each year to study optometry at the University of Houston, University of Alabama, or the Southern College of Optometry at Memphis. These students are exempt from the out-of-state tuition charge at the above schools that would normally apply to Kentucky residents. Acceptance under this program is contingent upon acceptance at one of the above schools of optometry.

Application forms may be secured from the Executive Director, Council on Public Higher Education, Frankfort, Kentucky. The quota for new students is limited each year. For further information, students should consult with the chairman, Department of Physics.

Pre-Veterinary Medicine

Because of the differences and occasional changes in the requirements for admission to the following three schools of veterinary medicine, the prospective candidate should consult periodically with the upper division pre-veterinary advisor in the Department of Biological Sciences.

A limited number of students who are residents of Kentucky and who have completed the required pre-veterinary medicine courses are selected each year to study veterinary medicine at Auburn University, Auburn, Alabama; Tuskegee Institute, Tuskegee, Alabama; and Ohio State University, Columbus, Ohio.

These students are exempt from the out-of-state tuition charge at the above schools that would normally apply to a Kentucky resident. They enter the four-year program at the beginning of the fall term each year and are approved for succeeding years as long as normal progress is made toward the degree in veterinary medicine.

This program is made available by an appropriation of the General Assembly to the Kentucky Council on Public Higher Education which administers it in cooperation with the Southern Regional Education Board and the three above-named institutions.

Students may elect a three-year program at Eastern and graduate with a Bachelor of Science degree with a major in biology by transferring 30 semester hours back from an accredited school of veterinary medicine.

MAJOR REQUIREMENTS	20 hours
BIO 141, 211, 221, 315, 348.	
SUPPORTING COURSE REQUIREMENTS	45 hours
MAT 109, 111; CHE 111, 112, 361, 362, 365; AGR 221; PHY 131, 132; POL 101.	
GENERAL EDUCATION REQUIREMENTS	40 hours
GSO 100; GSE 101, 102; ENG 209 or 211; ENG 210 or 212, 6 additional hours of Humanities; GSS 246 and 247; 3 additional hours of Social Sciences; GSP 180- 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	105 hours

Pre-Pharmacy Curriculum

Students who plan to enter the field of pharmacy may take two years of pre-pharmacy and transfer these credits to a pharmacy school. The courses listed below will meet the requirements of most pharmacy schools. Students wishing to enter the program should determine the admission requirements of the pharmacy school of their choice and, after consulting their pre-pharmacy advisor, determine which courses to take.

MAJOR REQUIREMENTS	29 hours
CHE 111, 112, 361, 362; BIO 131, 211, 221.	
SUPPORTING COURSE REQUIREMENTS	22 hours
MAT 109, 111; PHY 131, 132; ECO 230.	
GENERAL EDUCATION REQUIREMENTS	22 hours
GSE 101, 102; GSP 180, 181; GSS 246, 247 or HIS 202, 203; MIL 101, 102, 201, 202; (or approved options for men, electives for women).	
TOTAL PROGRAM	73 hours

Curriculum Preparatory for Medicine, Dentistry and Medical Technology

The Pre-Medical Sciences curriculum should be followed by both pre-medical and pre-dental students. This curriculum complies with the general entrance requirements for medical and dental schools, although some modifications may be necessary to meet the specific requirements of a few schools. Completion of this program fulfills the requirements for graduation from Eastern with a Bachelor of Science degree.

It is recommended that students complete the four-year program before transferring to medical school. Some medical schools require a four-year course for admission.

Students may also elect to complete three years of this program, including **all** general education requirements, and use the first year of academic work from an accredited medical or dental school to complete the requirements for the Bachelor of Science degree. The three-year program should include BIO 141, 211, 221, 242, 315 and 348; CHE 111, 112, 325, 361, 362 and 365; MAT 109 and 111; PHY 131 and 132.

Pre-Medical Sciences Curriculum

MAJOR REQUIREMENTS	58 hours
BIO 141, 211, 221, 242, 315, 348, 546 and 547; CHE 111, 112, 325, 361, 362, 365, 570.	
SUPPORTING COURSES	19 hours
MAT 109 and 111; PHY 131 and 132. Recommended courses — CHE 530 and one year of a foreign language.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101 and 102, or 105; twelve hours of approved Humanities; GSS 246, 247 or HIS 202, 203; six hours of Social Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202, or eight hours of approved options for male students and eight hours of electives for female students. Refer to pp. 54-58 for detailed University general education requirements.	
ELECTIVES	8 hours
TOTAL PROGRAM	128 hours

Bachelor of Individualized Studies Degree

The Bachelor of Individualized Studies degree (B.I.S.) is a degree given and administered by the College of Arts and Sciences. It is

intended to give students a solid liberal arts education and the flexibility to pursue a unique interdisciplinary course of study of their own planning in pursuance of specific intellectual and/or career goals. It is intended further for students whose interests do not coincide readily with one of the traditional majors and who have the creative and integrative abilities necessary to plan and follow their own program. A few examples of types of programs which might be pursued are theatre management (combining drama and business), medical illustration (combining biology and art), and other area studies.

Curriculum Requirements

MAJOR REQUIREMENTS	45 hours
<ul style="list-style-type: none"> A. Courses should be of an interdisciplinary nature with unifying theme, topic, and/or goal. B. At least 27 hours must be at the 300 level or above, not including CAS 499. C. CAS 499, Independent Work, to be done in last semester. (See below.) 	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102, or 105; GSS 246 or HIS 202, GSS 247 or HIS 203; 6 hours of Social Science; 12 hours of Mathematics and Natural Sciences; 12 hours of Humanities; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	28 hours
Free electives should include enough upper division courses to bring the total hours (with the hours of major requirements) to 45 hours.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

Admission to Program

Students can be admitted to the program after completing a minimum of 30 hours and a maximum of no more than 75 hours.

Requirements for Admission:

- A. GPA of 2.50
- B. Average of C or better in GSE 101 and 102, or 105.
- C. Submission of a satisfactory proposal to the review committee no later than one month before the end of the semester prior to the one in which the student plans to enter the program. The proposal should be drawn up by the student in consultation with his/her proposed advisor and appropriate faculty representative of departments in which his/her studies would be concentrated. This proposal should include degree objectives, specific courses to meet these objectives, and detailed justification of the course of study.

Advising

Each department in the College of Arts and Sciences has appointed a faculty member to be that department's coordinator for the B.I.S. program. This departmental advisor is in charge of either advising students whose major interest falls within his department's jurisdiction or of arranging for the student to obtain the advisor in that department that is most appropriate to his/her particular interests. Students are encouraged, when necessary, to confer with faculty in several departments. Each student, however, has only one official advisor.

Review Board

The B.I.S. Review Board is chaired by the Associate Dean, College of Arts and Sciences, who appoints a five-member board to serve for the duration of the experimental phase of the program (recommended time, five years). An alternate member is appointed to serve when a regular member is serving as an advisor to a student in the program, or when a regular member is unable to serve. The B.I.S. Review Board includes at least one person from humanities, social sciences, and natural sciences. An affirmative vote by four members of the board constitutes approval of an original program, approval of changes in a previously approved program, approval of final research topic proposal, and/or approval of a completed project.

Chairman of Review Board—Other Duties

The Chairman of the Review Board Committee serves as an unofficial counselor to students who express an interest in the program prior to completion of 30 hours. These students are then encouraged to declare their major interest in one of the departments, which would ultimately constitute one of the disciplines in their programs of individual study, and these students then are assigned to the Central University College advisor for that department. The Chairman of the Review Board Committee also is the initial contact person for students wishing to enter the program at any time, as he can provide detailed information about the program's requirements and put students in contact with appropriate faculty members in order to discuss various interdisciplinary courses of study that can be planned by the students and their future advisors.

Anthropology, Sociology, and Social Work (ANT, SOC, & SWK)

Armstrong, R., Chairman; Burnham, Curra, Denton, Erwin, Friedman, Futrell, Haddix, Luhman, Mohanty, Peebles, Savage, Van Tassel, J. M. Walker, Winther, Wisenbaker.

The multi-disciplinary nature of the department requires curricula designed to accomplish several purposes:

To provide students with greater understanding of the social world.

To provide students with a fundamental background as preparation for future graduate-level study.

To provide students with training that will fit them for immediate opportunities in public service agencies.

The Department of Anthropology, Sociology, and Social Work offers three majors:

The major in Anthropology is intended primarily to prepare students for graduate study in that field. Secondly, the major is offered as an adjunct for those students who wish to combine Anthropology with another area which will provide them with employment opportunities.

The major in Sociology is designed to provide preparation for graduate study, and as a strong major in the social sciences for those with indefinite vocational goals. Persons with Sociology majors find employment and academic opportunities in teaching, social welfare, personnel and industrial placement, research opportunities in public and private agencies, and work in community organizations such as city planning departments, health and recreation facilities, and housing developments.

The major in Social Work has these two goals:

1. To assist the student in developing the necessary skills, attitudes and knowledge base for beginning social work practice in a variety of public and private agency settings utilizing the generalistic approach to practice.
2. To provide a knowledge, value and skill base in preparation for graduate study in an accredited school of social work.

Bachelor of Arts Degree Curricula Major in Anthropology

MAJOR REQUIREMENTS	33 hours
ANT 110, 120, 201, 330 or 435; 15 hours of upper division Anthropology to include at least six hours from the following: ANT 315, 320, 375, and 440; plus six hours from another area to be selected in consultation with the advisor.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed general education requirements.	

FREE ELECTIVES	46 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Anthropology

A student may minor in Anthropology by taking a minimum of 18 hours as follows: ANT 110, 120, 201, and nine hours of upper division Anthropology electives.

Major in Sociology

MAJOR REQUIREMENTS	30 hours
SOC 131, 232, 320, 395, 460 and 461. The remaining 12 hours are to be elected from upper division courses in Sociology.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 2 hours additional Social Sciences Area III, B2; 12 hours Mathematics and Natural Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	46 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Sociology (Teaching)

To revise the above program for teacher certification in sociology, a student must have a second major or minor in history, English, or political science. The following courses in education are required: EDF 102, 202, 317; ESE 498, 499, and 449.

Minor in Sociology

A student may minor in Sociology by completing the following courses: SOC 131, 232, 320, 460 or 461, and six hours of upper division sociology electives. A total of 21 semester hours is required for a teaching minor.

Major in Social Work

MAJOR REQUIREMENTS	27 hours
SWK 210, 280, 370, 415, 416, 500, 505.	
SUPPORTING COURSE REQUIREMENTS	15 hours
POL 101; PSY 211; SOC 131, 232 and 400.	

GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202; GSS 247 or HIS 203; 12 hours Mathematics and Natural Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	37 hours
To broaden their experience and knowledge students are encouraged to complete their programs with electives selected from anthropology, child development, economics, health, management, law enforcement, political science, psychology, recreation, rehabilitation, sociology, special education and speech.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Social Work

A student may minor in Social Work by completing the following courses: SWK 210, SWK 370, SWK 415, SWK 500 and six hours of upper division Social Work or Sociology electives.

Graduate Programs

The Department of Anthropology, Sociology, and Social Work offers the degree of Master of Arts in Sociology. The Master of Arts in Education Degree with an emphasis in Sociology and School Social Work is offered in the College of Education with the cooperation of the Department of Anthropology, Sociology and Social Work. The regulations for the degree may be found in the College of Education section of the Graduate Catalog.

Course Descriptions

ANT ANTHROPOLOGY

- 110 Societies Around the World. Three hours. I, II.**
Descriptive survey of selected primitive and folk cultures from various parts of the world, with emphasis on material culture and economic, social, political, and religious structure. Attention given to the levels of socio-political and technological development and to the concept of culture areas, as well as to the factor of global distribution.
- 120 Introduction to Cultural Anthropology. Three hours. I, II.**
Formerly ANT 202.
Introduction to the anthropological approach to the social sciences with emphasis on culture and related concepts. Brief survey of pre-historic archaeology and linguistics. Development of generalizations concerning material culture, economic organization, social structure, religion, political system, etc., based chiefly on the comparative study of various primitive societies of the present and recent past.

ANT ANTHROPOLOGY

- 201 Introduction to Physical Anthropology. Three hours. I, II.**
Formerly covered in part by ANT 230.
General survey of principal areas of physical anthropology, including an appraisal of man's place within the biological realm; an examination of the fossil evidence for man's origin and early development; formation and spread of modern racial groups; and the role of genetics in the study of man.
- 206 Human Evolution. Three hours. II.**
Prerequisite: ANT 201 or approval of instructor.
An introduction to primate and human evolution, emphasizing the fossil evidence of man's evolution and the development and evolution of man's material culture.
- 315 Old World Prehistory. Three hours. A.**
Formerly partially covered in ANT 310.
Prerequisite: ANT 110, 202, or approval of instructor.
Detailed consideration of the development of prehistoric culture in Europe, Africa, and Asia.
- 320 New World Prehistory. Three hours. A.**
Formerly partially covered in ANT 310.
Prerequisite: ANT 110, 202, or approval of instructor.
Examination of the development of prehistoric American cultures, especially North America, Mesoamerica and Peru.
- 330 American Indians. Three hours. A.**
Prerequisite: ANT 110 or 201; or 202; or approval of instructor.
Descriptive and comparative study of representative native American cultures, with emphasis on Indians of North America. Consideration of the culture area concept, economic, social, political, and religious structure, linguistic classifications, and changes in culture since European contact.
- 340 Folk and Peasant Societies. Three hours. A.**
Prerequisite: ANT 110 or 202; or approval of instructor.
Folk or peasant form of adaptation. Emphasis given to the relatively stable nature of these societies and their extensiveness. Consideration of problems arising when contacts are made with non-peasant societies.
- 375 Selected Topics: _____
Three hours. A.**
Prerequisite: ANT 110 or 202 or approval of instructor.
Course content to be determined by student interest and instructor specialty. Topics will include, for example, Legal and Political Anthropology, Economic Anthropology, Population Genetics, Development of Civilizations, Cultural Ecology, Culture and Religion. May be repeated for a maximum of nine hours credit providing the subject matter is different each time.
- 380 Forensic Anthropology. Three hours. A.**
Prerequisite: ANT 201 or approval of instructor.
Forensic osteology and dentistry; including demographic methods, pathology, and practical methods of collecting human physical evidence; and the role of the expert witness.
- 399 Role of Women in Traditional and Contemporary Society.
Three hours. A.
CL SOC 399.**
Prerequisite: ANT 110 or 202, or SOC 131, or approval of instructor.
Consideration of the roles women have in traditional societies and their changing roles in modern industrial societies.

ANT ANTHROPOLOGY

- 435 Area Course in Ethnology. Three hours. A.**
Prerequisite: ANT 110 or 202, or approval of instructor.
A consideration of societies and cultures in selected areas of the world, e.g., Africa, Southeast Asia, Latin America. May be repeated for a maximum of six hours credit provided the subject matter is different each time.
- 440 Language and Culture. Three hours. A.**
Prerequisite: Approval of instructor.
Analysis of the role of language in human experience: mutual effect of language on culture, and culture on language.
- 470 Field Methods: Archaeology. Three hours. A.**
Prerequisite: Twelve hours in courses accepted toward anthropology major, or approval of instructor.
Primarily for anthropology majors. Introduction to both excavating techniques and laboratory classifications and the analysis of evidence. Attention given to accurate reporting and analysis.
- 475 Field Methods: Ethnology. Three hours. A.**
Prerequisite: Twelve hours in courses accepted toward anthropology major, or approval of instructor.
Primarily for anthropology majors. Introduction to methods and techniques in both field and library research. Such topics considered as defining problems, designing studies, collecting and analyzing data, and writing reports.
- 555 History of Anthropological Theory. Three hours. A.**
Prerequisite: ANT 110, 201, and 202; or approval of instructor.
Historical survey of the major theories and schools of thought in the area of scientific anthropology, including an appraisal of the various competing views on the current scene.
- 590 Tutorial in Anthropology. One to three hours. A.**
Prerequisite: Nine hours in courses accepted toward major in anthropology, including ANT 201 and 202; or approval of department. May be repeated for maximum of six hours for undergraduate credit only. Individual reading and research on a problem or area within the field of anthropology by the student after consultation with the instructor.

Graduate Courses

- 600 Anthropology and Modern Life. Three hours. A.**
Extensive review of the field of anthropology, with emphasis on implications of recent theoretical and factual developments for man in the modern world.
- 610 Anthropology and Education. Three hours. A.**
Prerequisite: ANT 600 or an undergraduate background in anthropology.
Cross-culture analysis of educational processes; growth, adaptation, and personality development of the child (enculturation and socialization), including the transmission of skills, knowledge, attitudes and values; the relationship of the educational process to social structure.

SOC SOCIOLOGY

- 131 Introductory Sociology. Three hours. I,II.**
Formerly SOC 231.
Basic principles and concepts of sociology, including culture, personality, social structures and groupings, social processes and social change.

SOC SOCIOLOGY

- 232 Introductory Sociological Analysis. Three hours. I, II.**
Prerequisite: SOC 131.
Analysis of sociological concepts in terms of concept formation, measurement, interpretation and presentation in graphic form.
- 235 Social Problems. Three hours. I, II.**
Formerly SOC 335.
Analysis of selected social problems such as crime, mental illness, homosexuality, divorce, population, and poverty. The analysis includes the definition, causes, and consequences of social problems.
- 237 Population and Society. Three hours. A.**
Formerly SOC 337.
Examination of population problems; national and international policies, and relationships between population and social structure.
- 320 Mind, Self and Society. Three hours. I, II.**
Prerequisite: SOC 131.
Relation of the individual to his socio-cultural environment, with special reference to personality development, interpersonal role-behavior, motivation, and social attitudes.
- 332 Urban Sociology. Three hours. A.**
Prerequisite: SOC 131.
Urban concept; origin and development of urban areas; effects of urbanization on social institutions and social relations; research methods applied to urban life and form.
- 340 Juvenile Delinquency. Three hours. A.**
Prerequisite: SOC 131.
Survey of theories of juvenile delinquency, including evaluation of the constitutional, psychological, and sociological approaches, and dealing with prediction, treatment, and control.
- 345 Sociology of the Family. Three hours. A.**
Prerequisite: SOC 131.
Family as an institution in society, its relation to cultural transmission and personality development, and its relations to the wider institutional structure of society.
- 350 Selected Topics in Sociology: _____.**
Three hours. A.
Prerequisite: SOC 131 or approval of instructor.
May be repeated for a maximum of nine hours credit providing the subject matter is different each time. Course content to be determined by student interest and instructor specialty. Topics will include the following: Social Ecology, Sociology of Literature, Sociology of Religion, Military Sociology, Occupational Sociology, Complex Organizations, Sociology of Power and Authority, Sociological Forecasting and Futurism, Historical Sociology, Utopias, Institutions, Sociology of Knowledge and Language.
- 353 Medical Sociology. Three hours. A.**
Prerequisite: SOC 131 or approval of instructor.
Social and cultural dimensions of health and sickness; analysis of the organized medical facilities in society.
- 360 The Community. Three hours. A.**
Prerequisite: SOC 131.
Characteristics of community relations in society; structure of and changes in community life; changing needs and resources of modern communities.

SOC SOCIOLOGY

- 375 Criminology. Three hours. A.**
Prerequisite: SOC 131.
Survey of theories of criminal behavior as applied to the social processes of law making and law breaking; prediction and control of crime.
- 395 Research Methods in Sociology. Three hours. I,II.**
Formerly SOC 570.
Prerequisite: SOC 131.
Methods and techniques of sociological research, including collecting, measuring, analyzing, and presenting data.
- 399 Role of Women in Traditional and Contemporary Society. Three hours. A.**
CL ANT 399.
Prerequisite: ANT 110 or 202; or SOC 131; or approval of instructor.
Consideration of the roles women have in traditional societies and their changing roles in modern industrial societies.
- 400 Racial and Cultural Minorities. Three hours. A.**
Prerequisite: Six hours in sociology.
Analysis of minorities and intergroup relations from the point of view of contemporary sociology, anthropology, and social psychology; nature and types of racial and cultural groups; causes and consequences of prejudice and discrimination; the reduction of intergroup tensions.
- 410 Political Sociology. Three hours. A.**
Prerequisite: SOC 131 or approval of instructor.
Analysis of political behavior and institutions within the structure of society; social attitudes, voting behavior, and political activity.
- 450 Social Change Three hours. A.**
Prerequisite: Six hours in sociology.
Analysis of theories of social and cultural change in terms of processes and direction; methodological commitments and implications of the various theories.
- 455 Collective Behavior. Three hours. A.**
Prerequisite: Six hours in sociology.
Analysis of mass phenomena such as public opinion, rumors, fads, mobs, riots, panics, and social movements, including a consideration of the development and termination of collective behavior forms.
- 460 Sociological Theory I — Classical Writers. Three hours. I.**
Prerequisite: Nine hours in sociology.
Early developments in sociological theory; definition of the field and formation of schools of theory; the bases upon which contemporary theories are built.
- 461 Sociological Theory II — Contemporary Writers. Three hours. II.**
Prerequisite: Nine hours in sociology.
Current state of sociological theories; recent formulations; controversies, and trends.
- 463 Social Stratification. Three hours. A.**
Prerequisite: Six hours in sociology.
Classic and recent studies of social classes and strata; critical analysis of recent research methods; social class, mobility aspirations.
- 470 Seminar in Sociology. Three hours. A.**
Prerequisite: Nine hours in sociology or approval of instructor.
Systematic overview of sociology through a general survey of various sub-disciplines of the field with emphasis on recent research, theory, issues and developments in each.

SOC SOCIOLOGY

- 520 Social Organization. Three hours. A.**
Prerequisite: Approval of instructor.
Analysis of various types of organizations in American society; internal and external processes and organizational structure.
- 535 Social Gerontology. Three hours. A.**
Formerly SOC 635.
Prerequisite: Approval of instructor.
Analysis of the demographic, social and psychological aspects of aging with special emphasis on the rehabilitative and educational programs for the aged population of the United States.
- 565 Demography. Three hours. A.**
Formerly SOC 465.
Methods of demographic analysis with special emphasis on sources and uses of demographic data; models of population processes such as mortality, fertility, and migration.
- 585 Sociology of Small Groups. Three hours. A.**
Prerequisite: SOC 131 or approval of instructor.
Studies in the way people behave in small groups; emergence of leadership and coalitions; how changes in task requirements and rules influence the behavior of group members.
- 590 Directed Study. One to three hours. May be repeated for maximum of six hours for undergraduate credit only. A.**
Prerequisite: Approval of department.
Individual reading and research on a problem or area within the field of sociology after student consultation with the instructor.

Graduate Courses

- 620 Family. Three hours. A.**
Prerequisite: Approval of instructor.
Study of the institutions of marriage and family from their earliest forms to present-day patterns; analysis of various forces which affect family structure and functioning.
- 625 Sociology of Minority Groups. Three hours. A.**
Prerequisite: Approval of instructor.
Examination of intergroup relations; sociological significance of race and ethnicity, including the dynamics of prejudice and discrimination; coping with intergroup tensions.
- 630 Advanced Research Methods. Three hours. A.**
Prerequisite: Approval of instructor.
Experiment, model building, case study, and the survey. Each aspect of the basic approaches will be considered, with the student choosing one for his own research design.
- 632 Modern Urbanization. Three hours. A.**
Prerequisite: Approval of instructor.
Deals with process of urbanization and impact of city life on social actions, social relationships and social institutions. Emphasis placed on rise and significance of cities in American life with special attention on modification of education, political and religious institutions, housing, transportation and communication.
- 634 Advanced Seminar in Sociology. Three hours. A.**
Prerequisite: Approval of instructor.
Presents a systematic overview of sociology through an examination of its various sub-disciplines, with emphasis on the recent issues and important developments in each sub-discipline.

SOC SOCIOLOGY

- 640 Methods and Theory in Sociology. Three hours. A.**
Prerequisite: Approval of instructor.
Modern theory in sociology and the way it is related to research studies, with an emphasis on new approaches in both method and theory.
- 642 Seminar in Population. Three hours. A.**
Prerequisite: SOC 395 or approval of instructor.
Examination of the quantitative and qualitative aspects of population with a special emphasis on the consequences of population growth in underdeveloped and developed countries.
- 645 Community Development. Three hours. A.**
Prerequisite: Approval of instructor.
Examines developmental efforts on community level in the United States; relates community development to community organization and examines current efforts, especially those based on the concept of self-help, to generate and implement community development programs.
- 652 Society and Personality. Three hours. A.**
Prerequisite: Approval of instructor.
Inquiries into the relationship between society and the individual, and how each is influenced by the other with an emphasis on consensus, common experience and group as opposed to individual behavior.
- 680 Survey Design and Analysis. Three hours. A.**
Prerequisite: Approval of department.
Systematic exploration of survey research problems with application of general methodological principles to the operating context of social surveys.
- 698 Thesis. Three hours. A.**
- 699 Thesis. Three hours. A.**

SWK SOCIAL WORK

- 210 Introduction to Social Work. Three hours. I, II.**
This course is designed to acquaint the student with the philosophy, values and processes of the social work profession. It provides a historical perspective of the development of our social welfare system and introduces students to major social problems and human conditions relevant to that system.
- 280 Introduction to Human Behavior and Social Environment. Three hours. I, II.**
This course presents the ideas and theories that are fundamental in understanding human behavior. Examination of environmental forces impinging on the individual and implications for social work practice.
- 370 Welfare as a Social Institution. Three hours. I, II.**
Prerequisite: SWK 210 or approval of instructor.
The course focuses on the structure and function of the social welfare system and the agencies involved in that system. Students also learn the role of social work in the social welfare system as well as implications for change.
- 415 Social Work Practice I. Three hours. I, II.**
Prerequisite: SWK 210 or approval of instructor.
This course gives the theoretical base of social work and the basic practice skills needed by the beginning social worker. It develops with the student a frame of reference for social work practice including skills in interviewing, assessment, problem-solving and referral.

SWK SOCIAL WORK

- 416 Social Work Practice II. Three hours. I, II.**
Prerequisite: SWK 415.
This course is designed to expand and strengthen the theoretical base and skills of the beginning social worker. Various theoretical approaches to social work treatment will be presented. The student will increase his skills in interviewing, assessment and problem-solving.
- 420 Social Work Practice in Children's Services. Three hours. A.**
This course examines the scope and functions of services to children, with emphasis on the role and practice methods of social workers in these services.
- 440 Social Work Practice in Corrections. Three hours. A.**
Examination of the various roles social workers play in the criminal justice system with emphasis on specific practice methods needed by workers in progressive correctional programs.
- 455 Selected Topics in Social Work Practice. Three hours. A.**
Prerequisite: Six hours in social work.
May be repeated for a maximum of six hours credit providing the subject matter is different each time. Course content will be determined by student interest, instructor specialty and new developments in the profession.
- 500 Social Welfare Policy. Three hours. I, II.**
Formerly Problems and Issues in Social Work.
Prerequisite: SWK 370 and three additional hours of upper division social work.
Examination of legal and procedural processes in governmental and private social welfare bureaucracies, evaluation of public policy as it relates to attitudes and values of the populace, strengthening of professional attitudes and behaviors.
- 505 Field Experience in Social Agency. Three or nine hours. I, II.**
Prerequisites: SWK 500 and SWK 415 and 2.0 grade point standing in the major.
Supervised experience in a social agency. 300 clock hours in agency plus on-campus seminar. Application must be made through field placement coordinator the semester prior to expected placement.
- 590 Directed Study. One to three hours. A.**
May be repeated for a maximum of six hours credit providing subject matter is different each time.
Prerequisite: Six hours of upper division social work courses and approval of instructor.
Individual reading and research on a problem or area within the field of social work after student consultation with the instructor.

Graduate Courses

- 602 Human Behavior and Social Environment. Three hours. A.**
Growth processes and development within the family, group, and community; relationship of human behavior and social functioning to native endowment and cultural patterns.
- 607 Social Work and Social Services. Three hours. A.**
Survey of the broad field of social welfare including its basic philosophy and objectives; attention given to community resources including eligibility requirements and benefits of programs of public and private agencies.

SWK SOCIAL WORK

- 608 Interviewing and Casework in the School Setting. Three hours. A.** Examination of school social work as it relates to the total field, with emphasis upon casework with the child and his family, and interviewing of children and adults.

Art (ART)

Shindelbower, D., Chairman; Capps, Civey, Dewey, Dozier, Halbrooks, Hale, Harris, Helmuth, Isaacs, Mischenko, Todd, Whitcoff.

The Department of Art offers curricula designed to develop the skills and understandings necessary to professional practice in the visual arts, to the teaching of art in the elementary and secondary schools, and to more complete living in our contemporary society.

The curricula are arranged in two undergraduate degree programs, a Bachelor of Arts and a Bachelor of Fine Arts, and one graduate degree program in cooperation with the Graduate School and the College of Education.

Bachelor of Arts Degree Curricula Major in Art

MAJOR REQUIREMENTS	30 hours
ART 100, 101, 102, 103, 203, 227, 229, 330, 562, and a three-hour art history elective.	
SUPPORTING COURSE REQUIREMENTS	18 hours
Twelve hours in a foreign language if student begins the language in college, or six hours if he continues the language at the intermediate level, and ART 390 and 391.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211, 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours Social Science, 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	32 hours
TOTAL CURRICULUM REQUIREMENTS	129 hours

Major in Art (Teaching)

MAJOR REQUIREMENTS	30 hours
ART 100, 101, 102, 103, 203, 204, 227, 229 or 239, 430, 562.	

SUPPORTING COURSE REQUIREMENTS	32 hours
ART 390 and 391; EDF 102, 202, 317; ESE 440, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211, 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours Social Science, 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	18 hours
TOTAL CURRICULUM REQUIREMENTS	129 hours

Area of Concentration in Art (Teaching)

MAJOR REQUIREMENTS	48 hours
ART 100, 101, 102, 103, 203, 204, 227, 229, 239, 327 or 328, 330, 430, 561, a three-hour art history elective, six hours art electives.	
SUPPORTING COURSE REQUIREMENTS	32 hours
ART 390 and 391; EDF 102, 202, 317; ESE 440, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211, 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours approved Social Science, 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	129 hours

Minor in Art

A student may minor in art (non-teaching) by completing a minimum of 18 hours as follows: ART 102, 103, 390 or 391, and 9 hours of art electives.

Minor in Art (Teaching)

A student may minor in art (teaching) by completing a minimum of 21 semester hours as follows: ART 102, 103, 390 or 391, 430 and 9 hours of art electives.

Bachelor of Fine Arts Degree Major in Design

MAJOR REQUIREMENTS	67 hours
ART 100, 101, 102, 103, 203, 204, 205, 206, 227, 229, 327, 239, 330, 350, 351, 390, 391, 449, 450, 455, 499, 562, 3 hours Art History Elective.	
SUPPORTING COURSE REQUIREMENTS	6 hours
ART 304, 403, or MKT 320, 300, or MKT 320, IET 311.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211, 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours Social Science, 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	6 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Jewelry and Metalsmithing

MAJOR REQUIREMENTS	73 hours
ART 100, 101, 102, 103, 203, 204, 227, 229, 239, 327 or 328, 330, 339, 340, 342, 390, 391, 439 (nine hours credit), 499, 562, 3 hours Art History Elective, 9 hours Art Electives.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211, 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours Social Science, 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 212 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	6 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Painting

MAJOR REQUIREMENTS	73 hours
ART 100, 101, 102, 103, 203, 204, 227, 229, 239, 303, 304, 327 or 328, 330, 331, 390, 391, 403 (repeated once), 499, 503, 562, 3 hours art history elective, 9 hours art electives.	
SUPPORTING COURSE REQUIREMENTS	0 hours

GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211, 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours Social Science, 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	6 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Printmaking

MAJOR REQUIREMENTS	73 hours
ART 100, 101, 102, 103, 203, 204, 227, 229, 239, 327 or 328, 330, 331; 6 hours from 332, 333, 334, 335, 336; 390, 391, 437 (nine hours credit), 499, 562, 3 hours Art History Elective, 9 hours Art Electives.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211, 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours Social Science, 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	6 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Sculpture

MAJOR REQUIREMENTS	73 hours
ART 100, 101, 102, 103, 203, 204, 227, 229, 239, 324, 326, 327, 328, 330, 390, 391, 426, 426 (repeated twice), 499, 562, 3 hours art history elective, 9 hours art electives.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211, 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours Social Science, 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	6 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Graduate Programs

The Master of Arts in Education Degree with an emphasis in Art is offered in the College of Education with the cooperation of the Department of Art. The regulations for the degree may be found in the College of Education section of the Graduate Catalog.

Course Descriptions

ART ART

- 100 Drawing I. Three hours. I.**
Introduction to the basic principles of drawing, placing emphasis on design with value, line, and texture.
- 101 Drawing II. Three hours. II.**
Prerequisite: ART 100.
Continuation of Drawing I; observation of natural forms.
- 102 Design, Two-Dimensional. Three hours. I.**
Introduction to the abstract characteristics of design with color, line, and texture.
- 103 Design, Three-Dimensional. Three hours. II.**
Introduction to the methods, materials, and concepts related to the control of space.
- 117 Drawing and Design. Three hours. I, II.**
Introduction to the basic knowledge and skills in art through the use of pencil, tempera, water color, and colored chalks; emphasis placed upon the development of an understanding and appreciation of the principles of creative design in the visual arts.
- 200 Art Appreciation: Orientation. Three hours. I, II.**
Designed to acquaint the student with the visual arts and their purposes, with emphasis placed upon the ways and means available to the artist in his production. Not open to art majors or minors.
- 202 Ceramics and Ceramic Sculpture. Three hours. A.**
Prerequisite: Approval of instructor.
Introductory experiences with ceramic forming methods, decorating techniques, and materials. Emphasis placed upon designing as creative problem solving.
- 203 Painting I. Three hours. I.**
Prerequisite: ART 101, 102.
Design with color, line, and texture; with emphasis on color.
- 204 Painting II. Three hours. II.**
Prerequisite: ART 203.
Problems in color, line, and texture as they relate to painting media.
- 205 Art Photography. Three hours. A.**
Introductory course in photography as a visual arts medium.
- 206 Design I. Three hours. II.**
Prerequisite: Sophomore standing.
Introduction to the world of professional design, its physical and philosophical makeup. Discussion of varied applications of design and problem solving in each of the areas of major specialization.
- 227 Sculpture: Additive Process. Three hours. I, II.**
Prerequisite: ART 103.
Development of concepts related to the additive process of sculpture; plasticine, clay, plaster, and wax.

ART ART

- 229 Crafts, Clay. Three hours. A.**
Prerequisite: ART 103.
Application of clay to design problems involving aesthetic value (function) and procedure in the making of fine objects.
- 239 Jewelry and Metalsmithing I. Three hours. I, II.**
Formerly ART 329.
Prerequisite: ART 103.
Introductory course covering the basic metal forming and joining techniques of forging, raising, piercing, and soldering. Nonferrous metals will be used.
- 300 Drawing Media. Three hours. I.**
Prerequisite: ART 100, 101.
An intermediate drawing course in which selected drawing media are investigated.
- 301 Figure Drawing. Three hours. II.**
Prerequisite: ART 100, 101.
A course designed to develop an increased understanding of the logic of natural forms with the human figure as the principal source of information.
- 303 Figure Painting. Three hours. I.**
Prerequisite: ART 203, 204.
Painting problems using the human figure.
- 304 Painting Media. Three hours. II.**
Prerequisite: ART 203, 204.
An investigation of the oil, polymer, encaustic, and lacquer media to determine their applicability to the needs of the contemporary artist.
- 324 Synthetic Media. Three hours. I.**
Prerequisite: ART 103, 227, 327.
Development of sculptural concepts and techniques as they are related to synthetic materials; plexiglass, polyfoams, and rubber.
- 326 Metal Casting. Three hours. II.**
Prerequisite: ART 103, 227, 327.
An investigation of metal casting techniques as they relate to both traditional and contemporary sculptural expression.
- 327 Sculpture: Constructive Process. Three hours. A.**
Development of concepts related to the constructive process of sculpture: wood, metal, plaster, and related materials.
- 328 Sculpture: Subtractive Process. Three hours. A.**
Development of concepts related to the subtractive process of sculpture: wood, stone, and related materials.
- 330 Printmaking I. Three hours. II.**
Prerequisite: ART 101, 102.
Basic experiences in relief, intaglio, planographic, and stencil printmaking.
- 331 Printmaking II. Three hours. A.**
Prerequisite: ART 330.
Continuation of ART 330 with emphasis placed on the concepts and techniques of lithography and etching.
- 332 Intaglio Printmaking. Three hours. A.**
Formerly ART 431.
Prerequisite: ART 331.
In-depth investigation of intaglio techniques. Includes softground, sugarlift, aquatint, engraving, and etching. Color is introduced.

ART

- 333 Lithography. Three hours. A.**
Prerequisite: ART 331.
An in-depth investigation of the planographic processes. Drawing design and technique are emphasized in this course. Includes color lithographic techniques.
- 334 Serigraphy. Three hours. A.**
Prerequisite: ART 331.
An in-depth investigation of the various silkscreen techniques. Introduction of color.
- 335 Relief Printmaking. Three hours. A.**
Prerequisite: ART 331.
An in-depth investigation of various relief printing methods stressing woodcut, wood engraving, and collagraphs. Relief color printing would be introduced.
- 336 Mixed Media Printmaking. Three hours. A.**
Prerequisites: Two of the following, ART 332, 333, 334, 335.
This course stresses the creative investigation of the various media, emphasizing their combination in use.
- 339 Jewelry and Metalsmithing II. Three hours. A.**
Prerequisite: ART 239.
Course covering die forming and embossing techniques. Emphasis is placed on fabrication techniques such as: piercing and soldering, wire work-forged, soldered, woven, etc., chasing and reposes. Joining methods other than soldering are introduced.
- 340 Jewelry Fabrication. Three hours. A.**
Prerequisite: ART 339.
In-depth study dealing with fabrication techniques such as: piercing, wire-work, chasing and reposes, niello, reticulation, and plating. Students are encouraged to combine the metal with other materials such as wood, stone, ivory, and leather.
- 342 Jewelry Casting. Three hours. A.**
Prerequisite: ART 339.
Course consisting of the fundamentals of lost wax casting involving centrifugal, vacuum, and gravity pour casting. Metals used are bronze, silver, gold, and pewter.
- 350 Design II. Three hours. A.**
Prerequisite: ART 206.
Problem solving in the areas of Packaging Design, Corporate Design and Identity, Advertising Design, and Illustration.
- 351 Design III. Three hours. A.**
Prerequisite: ART 350.
Specific problem solving in the design areas with an emphasis in one of the following (chosen by the student): packaging design, corporate design and identity, advertising design (T.V. Print), and illustration. Discussions of design environments and philosophies. Required reading and one research paper.
- 390 Survey of Art History. Three hours. I, II.**
Study of art from Pre-Historic times through the Gothic period.
- 391 Survey of Art History. Three hours. I, II.**
Study of art from the Renaissance to the present day.
- 393 Greek and Roman Art. Three hours. A.**
Prerequisite: ART 390, 391 or approval of instructor.
Study of the history of classical Greek and Roman architecture, sculpture, and painting from the beginnings of Greek art to the time of Constantine.

ART

- 394 Twentieth Century Painting. Three hours. A.**
Prerequisite: ART 390, 391, or approval of instructor.
Study of the history of European and American painting from 1900 to the present.
- 395 Nineteenth Century Painting. Three hours. A.**
Prerequisites: ART 390, 391, or approval of instructor.
Study of the major painting styles of the century, including neoclassicism, romanticism, realism, impressionism, and post impressionism.
- 401 Advanced Drawing. Three hours. A.**
Prerequisite: ART 300, 301.
Advanced problems in drawing with emphasis upon the drawing as a complete work rather than a preliminary study.
- 403 Advanced Painting. Three hours. A.**
Prerequisite: ART 303, 304.
Advanced problems in pictorial organization. May be repeated once.
- 426 Advanced Sculpture. Three hours. A.**
Prerequisite: ART 103, 227, 327, and at least six hours upper division sculpture.
May be repeated twice.
- 430 Materials Inquiry in Art Education. Three hours. I, II.**
Prerequisite: Open only to senior art students who plan to teach.
Diversified inquiry into art materials and processes in the elementary and secondary schools.
- 437 Advanced Printmaking. Three to nine hours. A.**
Two of the following: ART 332, 333, 334, 335.
The student would be free to pursue a program of individual interest. Emphasis is placed on creativity and professionalism.
- 439 Research into Metalwork. Three to nine hours. A.**
Prerequisites: ART 340, 342.
The student pursues his own direction and sets his own problems with the approval of the instructor.
- 449 Design IV. Three hours. A.**
Prerequisite: ART 351.
Concentrated exploration in design with a major emphasis on area of specialization previously chosen by student. Development of designs for use as portfolio samples. Proposal writing and/or presentation techniques. Required reading and one research paper.
- 450 Senior Portfolio. Three hours. A.**
Prerequisite: ART 352.
Design, fabrications, and sample preparation of portfolio and portfolio items for use in the securing of a position in the student's major area of interest. Discussion of procedures and methods, philosophy and working environments of various specific design situations and the researching of possible contacts for job placement.
- 455 Advanced photography. Three hours. A.**
Prerequisite: ART 205.
In-depth study of darkroom techniques and creative uses of camera.
- 499 Senior Exhibition. One hour. A.**
Organization and presentation of an exhibition of the student's work.
- 503 Independent Work in Painting. Three hours. A.**
Prerequisite: ART 403.
Emphasis is placed upon individual expression. May be repeated twice.

ART

- 540 Workshop in Art. One to three hours. A.**
Intensive study in a specific phase of the visual arts. Current processes, materials, and theoretical foundations will be considered. May be repeated for a total of nine hours.
- 562 Seminar in Art Criticism. Three hours. I, II.**
Prerequisite: ART 390, 391.
Study of various topics and problems which relate to the student's understanding and critical awareness of the visual arts.
- 563 Problems in Art. Three hours. I, II.**
Prerequisite: All departmental courses in problem area identified. Limited to seniors and graduate students.
Continuation of study begun in regular departmental courses. May be repeated twice.
- 590 Italian Renaissance Art. Three hours. A.**
Prerequisites: ART 390, 391 or approval of instructor.
In-depth study of selected aspects of the Painting, Sculpture, and Architecture of Italy between 1400 and 1600. The graduate student will be expected to prepare a scholarly paper.

Graduate Courses

- 621* Drawing. Three hours. A.**
- 622* Painting. Three hours. A.**
- 627* Sculpture. Three hours. A.**
- 629* Crafts, Clay. Three hours. A.**
- 630* Graphics. Three hours. A.**

*Courses in the series, ART 621 through Art 630, share the prerequisite of "six hours of work in the specialization named or consent of instructor." Students may register for no more than nine hours of any specialization offered.

Biological Sciences (BIO)

Hess, E., Chairman; Batch, Branson, Creek, Cupp, Farrar, Harley, S. Jones, Keefe, Lassetter, Mardon, M. McGlasson, Otero, Rudersdorf, M. Thompson, Van Wegen, Varney, Whitt, J. Williams.

The Department of Biological Sciences offers various curricula for students interested in a variety of professions. A student may select biology programs that lead to a degree with concentration of study in certain areas: botany, biological sciences, zoology, environmental resources, fisheries management, wildlife management, medical technology or microbiology. A two-year associate of arts degree program is offered under Medical Laboratory Technician.

Pre-professional programs in pre-forestry, pre-veterinary medicine, and pre-medical sciences are offered through the department.

Bachelor of Science Degree Curricula Major in Biology

MAJOR REQUIREMENTS	32 hours
BIO 131, 141, 211, 221 or 242 or 325 or 330, 315, 328 or 348, 490 plus two biological sciences electives at the 300-500 level. At least one field course must be included unless otherwise approved by the departmental chairman.	
SUPPORTING COURSE REQUIREMENTS	32-35 hours
MAT 107; STA 207; CHE 111, 112, 361, 362, 365; PHY 131, 132.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101 and 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours of Social Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	18-21 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Biology (Teaching)

MAJOR REQUIREMENTS	32 hours
BIO 131, 141, 211, 221 or 242 or 325 or 330, 315, 328 or 348, 490 plus at least two electives in the Biological Sciences at the 300-500 level. One field course must be included unless otherwise approved by the departmental chairman.	
SUPPORTING COURSE REQUIREMENTS	54-61 hours
MAT 107; CHE 111, 112, 361, 362, 365; PHY 131, PHY 132 or GLY 210; PSY 211; STA 207; EDF 102, 202, 317; ESE 441, 498, 499.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101 and 102 or 105; 12 hours of Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours of Social Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	132-136 hours

Minors in Biological Sciences

A student may minor in biology (teaching or non-teaching) through completion of BIO 131, 141, 211 and nine additional hours at the 200 through the 500 level in the biological sciences; a total of 21 semester hours. CHE 111 and 112

must be completed as prerequisites for certain courses in biology required for this minor.

Major in Environmental Resources

MAJOR REQUIREMENTS	28-29 hours
BIO 131, 141, 211, 221 or 242 or 325 or 330, 315, 316, 328 or 348, 490.	
SUPPORTING COURSE REQUIREMENTS	15 hours
MAT 107; STA 207; CHE 111, 112.	
ADDITIONAL COURSE REQUIREMENTS	21 hours
Must complete 21 semester hours from the following groups of courses, at least one course from each group and at least 7 semester hours at the 300-500 level:	
Group A — AGR 215, 340; REC 202, 501, 506.	
Group B — BIO 335, 336, 355, 381.	
Group C — GEO 216, 313, 402, 516; PLA 220, 490.	
Group D — GLY 210, 211, 351, 390, 410, 411.	
Group E — ANT 201, 300; SOC 335, 450, 480; ECO 230, 391; POL 203, 370, 565; JOU 201, 305.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101 and 102 or 105; 12 hours of Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours Social Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	20-21 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Fisheries Management

MAJOR REQUIREMENTS	56-59 hours
BIO 131, 141, 211, 221 or 242 or 325 or 330, 315, 328 or 348, 490, 316, 335, 341, 510, 524, 557, 558, 561, 562, 598.	
SUPPORTING COURSE REQUIREMENTS	31-33 hours
MAT 107; STA 207; CHE 111, 112, 325, 570 and 8-10 hours of PHY 131, 132 or GLY 210, 211 or CHE 361, 362, 365.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101 and 102 or 105; 12 hours of Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours of Social Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	130-135 hours

Major in Medical Technology

MAJOR REQUIREMENTS	58-60 hours
BIO 141, 211, 221, 242, 348, 311 or 546, 401*.	
SUPPORTING COURSE REQUIREMENTS	37 hours
MAT 107; STA 207; CHE 111, 112, 325, 330, 361; PHY 131, 132.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101 and 102 or 105; 12 hours of Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours of Social Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	138-140 hours

*The student must complete one year of in-hospital training at an accredited and affiliated hospital. The student must enroll in 36 hours of BIO 401 during this time.

Major in Microbiology

MAJOR REQUIREMENTS	34-38 hours
BIO 131 or 141, 211, 221, 315, 321, 348, 490, 520, 522, 527, 599. A field course must be completed unless otherwise approved by the departmental chairman.	
SUPPORTING COURSE REQUIREMENTS	35-36 hours
MAT 109, 111; PHY 131, 132; CHE 111, 112 and 12 additional hours from CHE 361, 362, 365, 325, 330, 530, 570.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101 and 102 or 105; 12 hours of Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours of Social Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	12-16 hours
TOTAL CURRICULUM REQUIREMENTS	128-133 hours

Major in Wildlife Management

MAJOR REQUIREMENTS	58 hours
BIO 131, 141, 211, 221, or 242 or 325 or 330, 315, 328 or 348, 490, 316, 335, 381, 382, 489, 585, 587, 589. At least 8-10 hours should be selected from: BIO 341, 355, 518, 523, 524, 547, 553, 554, 556, 557, 558; GEO 210, 216, 346, 402; GLY 390.	

SUPPORTING COURSE REQUIREMENTS	26-28 hours
AGR 215; MAT 107; STA 207; CHE 111, 112 and a choice of at least two courses from the following: PHY 131, 132; GLY 210; CHE 361, 362, 365, 570.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101 and 102 or 105; 12 hours of Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours of Social Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	3-6 hours
TOTAL CURRICULUM REQUIREMENTS	130-135 hours

Associate of Arts Degree Curriculum Medical Laboratory Technician

The Medical Laboratory Technician curriculum, extended over two years of college study, leads to an associate of arts degree. The program is intended for the student who is interested in working with clinical analytical diagnosis or research and technological laboratory agencies.

FRESHMAN YEAR	35 hours
BIO 141, 211, 171, 201; CHE 111, 112; MAT 107; GSO 100; GSE 101, 102; GSP 180, 181; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	23 hours
BIO 202, 203, 273, 348; CHE 330; 6 hours of Humanities or Social Sciences (general psychology may be substituted for Social Sciences); MIL 201, 202 (or options for men, electives for women).	
FIFTH SEMESTER	12 hours
The student must complete one semester of in-hospital training at an accredited and affiliated hospital for 12 hours of credit in BIO 204.	
TOTAL CURRICULUM REQUIREMENTS	70 hours

Graduate Programs

The department provides ample opportunities for the competent student to complete graduate work for the degree of Master of Science in the areas of plant or animal morphology, plant or animal physiology, microbiology, genetics, invertebrate zoology, wildlife ecology, fisheries biology and aquatic biology.

The Master of Arts in Education Degree with an emphasis in Biology is offered in the College of Education with the cooperation of the Department of Biological Sciences. The regulations for the degree may be found in the College of Education section of the Graduate Catalog.

The Department of Biological Sciences cooperates with the other science departments in the College of Arts and Sciences and the Department of Secondary and Higher Education in the College of Education in offering the Master of Arts in Education with emphasis in General Science. This program is primarily for non-specialized science teachers and is described in the section on Secondary and Higher Education, College of Education.

The general requirements for admission to the Graduate School are described under that section of this catalog or more detailed requirements in the **Graduate Catalog**. Further information may be acquired from **Introduction to the Graduate Programs in The Biological Sciences** provided by the Department of Biological Sciences.

Course Descriptions

BIO BIOLOGICAL SCIENCES

- 131 General Botany. Four hours. I, II.**
Structure and functions of vascular plant organs, and morphology of representatives of the plant kingdom. Two lecture and four laboratory hours.
- 141 General Zoology. Four hours. I, II.**
Morphology, physiology, development, life history, evolution and diversity of animals. Two lecture and four laboratory hours.
- 161 Environmental Plant Science. Three hours. I, II.**
(Not open to students who have completed college laboratory courses in botany.)
The relationships of plants to man and his environment. Emphasis will be placed on current and future problems facing mankind. Topics such as the nature of plants; world population and food production; agricultural and forest practices; water and air pollution; use of herbicides and related environmental aspects will be discussed. Designed to be either followed by or taken concurrently with BIO 162. However, the course may be taken alone. Two lecture and two laboratory hours each week.
- 162 Environmental Animal Science. Three hours. I, II.**
(Not open to students who have completed college laboratory courses in zoology.)
The relationships of animals to man and his environment. Emphasis will be placed on current and future problems facing mankind. Topics such as the body functions of man; population; diseases and health; vanishing species; waste control; pesticides; pollution; and related environmental aspects will be discussed. Designed to be either followed by or taken concurrently with BIO 161. However, the course may be taken alone. Two lecture and two laboratory hours each week.
- 171 Human Anatomy. Three hours. I, II.**
Credit does not apply towards a major or minor in biology. No prerequisites.
A comprehensive study of the anatomical structure of the human body. Interrelated functions of the structure are described. Four lecture-laboratory hours.
- 201 Medical Laboratory Technology I. Three hours. A.**
Introduction to laboratory studies including laboratory techniques, laboratory mathematics, urinalysis, veni-puncture, immunology, and instrumentation. One lecture and four laboratory hours.
- 202 Medical Laboratory Technology II. Three hours. A.**
Study of the clinical procedures used in hematology, blood banking and coagulation. One lecture and four laboratory hours.

BIO BIOLOGICAL SCIENCES

- 203 Medical Laboratory Technology III. Three hours. A.**
Study of the clinical procedures used in clinical chemistry, mycology and parasitology. One lecture and four laboratory hours.
- 204 Medical Laboratory Technology IV. Twelve hours. A.**
Prerequisites: Satisfactory completion of courses in the MLT program. One-semester training period in an affiliated ASCP accredited hospital.
- 211 Principles of Biological Systems. Four hours. I, II.**
Prerequisite: BIO 131 or 141; CHE 111 and 112.
Cellular structure and function; tissue-organ system levels of organization; reproduction and development; and heredity and evolution. Three lecture and two laboratory hours.
- 221 Principles of Microbiology. Four hours. I, II.**
Prerequisite: BIO 211 and CHE 112 or approval of instructor.
Introduction to the biology of microorganisms with emphasis placed on the physiology, culture and development of bacteria, fungi and viruses. Their role in medicine, agriculture and industry is also emphasized. Two lecture and four laboratory hours.
- 242 Comparative Anatomy. Four hours. I, II.**
Prerequisite: BIO 141.
Phylogeny and morphology of the classes of vertebrates. Comparative studies of organs and systems of vertebrate animals, based principally on the dogfish, necturus and cat. Two lecture and four laboratory hours.
- 273 Clinical Microbiology. Four hours. I, II.**
Prerequisite: BIO 171 and CHE 101 or approval of instructor.
Course designed for allied health fields. No credit allowed towards a major in biology.
Role of microorganisms in the disease of man with emphasis on the differentiation and culture of microorganisms, types of diseases, modes of transmission, prophylactic, therapeutic and epidemiological aspects. Two lecture and four laboratory hours.
- 300 Economic Plants. Three hours. I, II.**
Formerly BIO 404.
General course designed for non-science majors. No prerequisites. Credit does not apply toward a major or minor in biology.
Origin, domestication, general anatomy, culture and use of plants economically important to man; deleterious effects of certain plants on man; influence of plants on man's aesthetic life, society and on world events. Three lecture-demonstration hours.
- 301 Human Physiology. Three hours. I, II.**
General course designed for the non-major. No prerequisites. Credit does not apply towards a major or minor in biology.
General study of the basic functions of the systems of the human body. Students, interested in physiology laboratory exercises, may enroll concurrently in BIO 378 for one semester hour of credit. Three lecture hours.
- 303 Human Heredity and Eugenics. Three hours. I, II.**
Formerly BIO 403.
General course designed for non-majors. No prerequisite.
Credit does not apply toward a major or minor in the biological sciences.
Introductory study of inheritance of human traits including blood groups, sex and sex-related traits, lethal factors, mental capacities and disorders, physical defects and metabolic functions. Relationship between genes and environment pedigrees, family traits and population trends. Three lecture hours.

BIO BIOLOGICAL SCIENCES

- 304 Birds of Kentucky. Three hours. A.**
General course designed for the non-science major. No prerequisites. Credit does not apply toward a major or minor in Biology. Popular consideration of the birds in general of the eastern and central United States from the Atlantic Coast to the 100th meridian in the Great Plains. Special emphasis on the birds of Kentucky and in particular the birds of the local area. Field trips required. Two lecture hours and two laboratory field trip hours.
- 311 Microtechnique. Two hours. I, II.**
Prerequisite: BIO 211 or approval of instructor.
Technique of preparing plant and animal tissues for microscopic study. Four laboratory hours.
- 315 Genetics. Four hours. I, II.**
Prerequisite: BIO 211.
Introduction to the physical and biochemical principles of heredity and their application to plants and animals. Two lecture and four laboratory hours.
- 316 Ecology. Four hours. I.**
Prerequisite: BIO 131 and 141.
Basic concepts and principles as applied to the study of organisms or groups of organisms in their interrelations to each other and to their environment. Two lecture and four field-laboratory hours.
- 317 Conservation of Wildlife Resources. Three hours. I, II.**
General course designed for the non-science major. No prerequisites. Credit does not apply towards a major or minor in biology. Introduction to the principles and practices of conservation of plants and animals; requirements and values of wildlife resources; history and agencies of conservation. Three lecture hours.
- 321 Communicable Diseases. Three hours. I in even years.**
Prerequisites: BIO 221 or 273 or approval of instructor.
Diseases communicable to man will be identified with regards to the clinical nature, laboratory diagnosis and differentiation from allied or related conditions. Occurrence, infectious agent, reservoir, mode of transmission, incubation period, periods of communicability, susceptibility and resistance will be included in the study. Three lecture hours.
- 325 Plant Anatomy. Three hours. I in odd years.**
Prerequisite: BIO 131 or approval of instructor.
Anatomy and histology of vascular plants, and phylogenetic developments and adaptive modification. One lecture and four laboratory discussion hours.
- 328 Plant Physiology. Four hours. II in odd years.**
Prerequisite: BIO 131, 211, CHE 112 or approval of the instructor.
Chemical, physical and biological processes which occur in vascular plants. Two lecture and four laboratory hours.
- 330 Plant Morphology: Four hours. II in odd years.**
Prerequisite: BIO 131.
Evolutionary morphology and the life histories of vascular and non-vascular plants. Two lecture and four laboratory hours.
- 335 Plant Systematics. Three hours. II.**
Prerequisite: BIO 131.
Identification, classification and phylogeny of vascular plants; principles of taxonomy; field trips required. One lecture and four laboratory hours.

BIO BIOLOGICAL SCIENCES

- 336 Dendrology. Three hours. A.**
Prerequisite: BIO 131.
Classification, identification, and distinguishing characteristics of families, genera, and species of trees and shrubs in summer and winter condition; economic importance, ecological characteristics and distributions; vegetation regions of North America. One lecture and four laboratory hours.
- 341 Invertebrate Zoology. Four hours. II in even years.**
Prerequisite: BIO 141.
Comparative morphology, physiology, development, evolutionary relationship and life histories of the invertebrate animals. Two lecture and four laboratory hours.
- 348 General Physiology. Four hours. I, II.**
Prerequisite: BIO 211 and CHE 112.
Study of the general physiological mechanisms which are basic to life processes, interpreted on chemical and physical principles. The course will include general principles of cell physiology, encompassing cellular functions and intercellular reaction as related to the whole organism. Emphasis will be placed on organ and system function in relation to homeostatic mechanisms. Two lecture and four laboratory hours.
- 355 Entomology. Three hours. A.**
Prerequisites: BIO 141, 211.
Taxonomy, identification, life histories, physiology, economic importance, methods of control and collection of insects, with emphasis on local forms. One lecture and four laboratory hours.
- 378 Applied Physiology. One hour. I, II.**
General course designed for non-science majors.
Prerequisite: Majoring in home economics, physical education or special education and concurrent enrollment in BIO 301.
Laboratory experiments on neuromuscular, special senses, cardiovascular, respiration, digestion and excretion. Some emphasis is given to anatomy of each system. Two laboratory hours.
- 381 Principles of Wildlife Management. Three hours. I.**
Prerequisite: BIO 211 and 316.
Basic principles of wildlife management and their application to current problems. Three lecture hours.
- 382 Wildlife Techniques. Four hours. I.**
Prerequisite: BIO 381.
Techniques used in habitat evaluation, game mapping, identification, population dynamics and analysis. Two lecture and four laboratory hours.
- 401 Medical Technology Hospital Internship. Eight to sixteen hours. I, II, S.**
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. To be repeated for a maximum of 32 semester hours.
- 489 Field Studies in Wildlife. One to three hours (maximum of three total hours). A.**
Prerequisite: Approval of chairman. Required of all Wildlife Management majors during junior or senior year.
Field studies performed under the jurisdiction of faculty or a member of a natural resource agency. A minimum of three hours of laboratory per credit hour each week.

BIO BIOLOGICAL SCIENCES

- 490 Biology Seminar. One hour. I, II.**
Prerequisite: Senior status in biology.
Required of all biology majors. Members of the faculty and majors meet weekly for presentation and discussion of classical and current scientific developments in various fields of the biological sciences. One discussion hour.
- 510 Quantitative Biology. Three hours. A.**
Prerequisite: Three hours of college mathematics or approval of instructor. Statistical analysis of biological data. Students participate in the taking of data and processing data by the use of well-established statistical techniques. Six laboratory — discussion hours.
- 514 Evolution. Three hours. A.**
Prerequisite: BIO 315 or approval of instructor.
Processes of organic evolution with emphasis on the theory of natural selection. Three lecture hours.
- 518 Parasitology. Three hours. A.**
Formerly 318.
Prerequisite: BIO 211.
Principles of parasitology, including basic morphology, classification, life, cycle and host-parasite relationships. Two lecture and two laboratory hours.
- 520 Pathogenic Bacteriology. Three hours. Even years, II.**
Prerequisites: BIO 221 or 273 or approval of instructor.
Course designed to acquaint the student with various advanced aspects of pathogenicity. The course contents will include: history of pathogenics, ecology, epidemiology, cultivation, bio-chemistry, physiology, and the clinical picture in the treatment of the major disease producing bacteria. Three lecture hours.
- 521 Advanced Plant Ecology. Three hours. A.**
Plant life in relation to natural habitats and environmental factors; emphasis on instrumentation and methodology for ecological studies. Two lecture hours and three laboratory hours.
- 522 Bacterial Physiology. Three hours. A.**
Prerequisites: BIO 221 and CHE 362 or approval of instructor.
Advanced study in microbial activity which includes composition of bacteria, growth, energy transaction and nutrition, and the effects of various chemicals and physical environments on bacteria. Two lecture and three laboratory hours.
- 523 Mycology. Three hours. II in even years.**
Morphology, physiology, taxonomy, and economic importance of fungi. Field trips are required. One lecture and four laboratory — discussion hours.
- 524 Phycology. Three hours. I in even years.**
Morphology, taxonomy, ecology, and the economic importance of algae. Two lecture and two laboratory hours.
- 526 Plant Pathology. Three hours. A.**
Prerequisite: BIO 328 or approval of the instructor.
Principles of plant pathology: significance and the nature of plant disease resistance, pathogenesis and control. Two lecture and two laboratory hours.
- 527 Immunology. Three hours. A.**
Prerequisite: BIO 221, CHE 261 or approval of instructor.
Principles of the immune reaction; nature of antigens, antibodies, antigen-antibody reaction, and allergic phenomena. Two lecture and three laboratory hours.

BIO BIOLOGICAL SCIENCES

- 540 Cellular Physiology. Four hours. A.**
Prerequisite: BIO 348, CHE 361 and PHY 131.
Study of cellular and basic physiological mechanisms essential to life processes which include: cellular growth and environment; cellular organization and control of energy metabolism; energy utilization and transduction in specialized cells. Emphasis given to the regulatory mechanisms in homeostasis, with methodology and techniques typical in modern physiological research. Two lecture and four laboratory hours.
- 542 Natural History of Invertebrates. Three hours. I in even years.**
Collection, systematics, distribution, behavior, ecology, and life histories of terrestrial and freshwater invertebrates. One lecture and four laboratory hours.
- 546 Histology. Four hours. I, II.**
Microscopic anatomy of the normal vertebrate cells, tissues and organs. Two lecture and four laboratory hours.
- 547 Comparative Vertebrate Embryology. Four hours. II.**
Gametogenesis, fertilization, morphogenesis and organogenesis of the frog, bird and mammal. Particular emphasis is placed on mammalian development. Two lecture and four laboratory hours.
- 549 Endocrinology. Three hours. A.**
Prerequisite: BIO 348 and CHE 361.
Basic principles of the functions of endocrine glands with emphasis on the hormonal regulation of physiological processes of the body. One lecture and four laboratory hours.
- 550 Animal Behavior. Four hours. A.**
Advanced study of behavior with emphasis on inherited behavior patterns in relation to the evolution and ecology of animals. Three lecture-discussion and two laboratory hours.
- 553 Mammology. Three hours. I in even years.**
Prerequisites: BIO 242 or approval of instructor.
Classification, distribution, and natural history of mammals in laboratory and field study. One lecture and four laboratory hours.
- 554 Ornithology. Three hours. II in even years.**
Avian biology with emphasis on field identification of local avifauna, anatomy, physiology, ecology, evolution, migration, economic importance, distribution and behavioral patterns. A special investigative study required for all graduate students. Some early morning field trips required. Two lecture and four laboratory hours.
- 556 Herpetology. Three hours. II in odd years.**
Natural history of the amphibians and reptiles including taxonomy, general ecology, behavior, distribution, breeding, and food habits. Two lecture and three laboratory hours.
- 557 Ichthyology. Three hours. II in even years.**
Prerequisite: BIO 242 or approval of instructor.
Internal and external morphology, taxonomy, life histories, ecology, and phylogeny of the fishes of North America. Six lecture-laboratory hours.
- 558 Limnology. Three hours. II in odd years.**
Ecology of lakes and streams with special reference to physical, chemical and biological factors of lotic and lentic environments. Comparative field investigations, methods and instruments of limnological field investigation of lakes and streams. One lecture and four field-laboratory-discussion hours.

BIO BIOLOGICAL SCIENCES

- 561 Fisheries Biology. Four hours. A.**
Prerequisite: BIO 557 or approval of instructor.
Study of the anatomy, life histories, disease, conservation, methods of harvest, economic importance, and ecological interactions of fishes. Two lecture and six laboratory hours.
- 562 Fisheries Management. Four hours. A.**
Prerequisite: BIO 558, and 561 or 557.
Methods of fish-catching in the world, making and setting nets, construction of fish ponds, management of lakes, ponds and streams. The culture of game fishes, fisheries, statistics, and field experience. Two lecture and six laboratory hours.
- 585 Regional Wildlife Ranges. Three hours. II in odd years.**
Prerequisite: BIO 382.
Distribution and management of game resources as determined by regional climate, physiographic, vegetative, and land-use factors. Three lecture hours.
- 587 Resident Wildlife Resources. Four hours. I.**
Prerequisite: BIO 382.
Taxonomy, life histories, distribution, environmental needs, economic status and plans for management of resident wildlife on forest, farm, and rangeland. Two lecture and four laboratory hours.
- 589 Migratory Wildlife Resources. Four hours. II.**
Prerequisite: BIO 382.
Taxonomy, life histories, distribution, environmental needs, economic status and plans for management of doves, waterfowl, and marsh birds. Two lecture and four laboratory hours.
- 597 Instrumentation and Biological Methodology. Two hours. A.**
Study of the principles by which biological instruments are designed and used. The application of appropriate measurement of biological change. Instruments and procedures, applicable to botany, zoology, genetics, physiology, microbiology and ecology will be studied. Four laboratory discussion hours.
- 598 Special Problems. One to three hours. A.**
Prerequisite: Senior or graduate standing and approval of chairman or thesis director.
Students may repeat the course for a maximum of four hours. A study of special problems, special biological techniques, or group of organisms. A minimum of three laboratory hours per credit hour. Course designed to expose graduate students to problems in biological research and study in various areas of specialization. May be repeated for a maximum of three hours credit.
- 599 Topics in the Biological Sciences. One to six hours. A.**
Prerequisite: Approval of instructor.
Presentation, discussion and application of principles to the solution of biological problems. May be repeated for maximum of six hours of credit. Permission must be obtained from the instructor and the departmental chairman prior to registration.

Graduate Courses

- 601 Scientific Literature of Biology. Two hours. I.**
Directed readings in biology designed to acquaint the student with the major sources of literature, the delimitation of problems, note taking and the making of bibliographies. Two lecture-discussion hours.

BIO BIOLOGICAL SCIENCES

- 602 Select Topics in Biological Sciences. One to three hours. A.**
Advanced study of modern biological principles and the solution of interacting problems. The course will be designed to fit the needs of the students enrolled. May be repeated for a maximum of three hours credit.
- 612 Cytology and Cytogenetics. Four hours. A.**
Cytological basic structures, their function and their relationships to heredity mechanism in both plants and animals. Two lecture and four laboratory hours.
- 616 Biogeography. Three hours. A.**
Ecological, faunistic, and floristic distribution on a world-wide basis. Theory of distribution pathways as regards final distribution. Three lecture hours.
- 625 Plant Morphogenesis. Three hours. A.**
Study of plant growth with respect to cells and meristems; phenomena of morphogenesis, correlation, polarity, symmetry, differentiation, regeneration, and tissue mixtures. Three lecture hours.
- 645 Vertebrate Physiological Ecology. Three hours. A.**
Comparative study of physiological mechanisms of vertebrates in response to changing environmental conditions. Topics emphasized include temperature adaptation, color change, orientation and biological rhythms. Two lecture and three laboratory hours.
- 647 Advanced Animal Ecology. Three hours. A.**
Structure, composition and classification of biotic communities; population growth and regulation; interaction of populations; and techniques for measurement of environmental factors in terrestrial and aquatic environments. Two lecture-discussion and three laboratory-field hours.
- 690 Graduate Seminar. One hour. I, II, S.**
Prerequisite: BIO 601.
Required of all graduate students; may be repeated for a maximum of two hours of credit. Presentation and discussion of current trends and concepts in the disciplines of the biological sciences. One discussion hour.
- 691 Thesis Research. One to six hours. A.**
Course may be repeated, but a maximum of six hours of credit may be applied toward a degree. Students must apply research in the biological fields towards the preparation of a graduate thesis as directed by the thesis director.

Chemistry (CHE)

Smiley, H., Chairman; Ballard, Bendall, Byrn, J. E. Davidson, Luts, Meisenheimer, H. Powell, Reeder, Salyer, Schulz, M. D. Taylor, R. J. Thompson.

The Department of Chemistry has undergraduate programs leading to the Bachelor of Arts Degree, the Bachelor of Science Degree, and the Associate of Arts Degree.

The Bachelor of Arts Degree constitutes a 30 semester hour major with a maximum of free electives and is designed for students who have an interest in Chemistry, but who are not strongly inclined toward the research aspect of the profession. Students acquiring this B.A. Degree in Chemistry are encouraged to use their free electives to develop another area of interest such as a second major or a minor.

The Bachelor of Science Degree should be pursued by those students desiring to prepare for graduate school or desiring to gain immediate employment in industrial or governmental laboratories. This degree requires 43 semester hours of chemistry, and students desiring the B.S. Degree with American Society certification need to elect six additional hours of advanced chemistry courses.

A student may acquire teacher certification by earning the B.S. Degree with additional courses in psychology and education. Only 33 hours of chemistry are required for this option.

The Associate of Arts degree for Chemical Technicians will prepare the student for jobs as laboratory technicians in a variety of industrial plants. The emphasis in this program will be on achieving competence in laboratory manipulations rather than chemical theory. The curriculum includes a number of areas related to chemical technology which could be useful in a particular type of industry. The selection of electives should be discussed with the advisor.

Bachelor of Arts Degree Curricula Major in Chemistry

MAJOR REQUIREMENTS	30 hours
CHE 111, 112, 325, 361, 362, 365, 570 and three hours of upper division electives.	
SUPPORTING COURSE REQUIREMENTS	19 hours
PHY 201, 202 or 131, 132; MAT 109, 111. A year of foreign languages is recommended.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101 and 102 or 105; 12 hours of Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, six additional hours of Social Sciences; three hours of biological sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	33 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Bachelor of Science Degree Curricula Major in Chemistry

MAJOR REQUIREMENTS	43 hours
CHE 111, 112, 325, 361, 362, 365, 450, 471, 472, 473, 480, 514, 525, 565. For ACS certification, the student must elect six additional hours of advanced chemistry courses.	
SUPPORTING COURSE REQUIREMENTS	22 hours
PHY 201 and 202; MAT 111, 112, 213. For the ACS certified degree a reading knowledge of German or Russian is required. Completion of GER 203 or RUS 202 with a grade of C satisfies the requirement. A year of foreign language is recommended.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101 and 102 or 105; 12 hours of Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, six additional hours of Social Sciences; Three hours of approved Biological Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	9-17 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Chemistry (Teaching)

MAJOR REQUIREMENTS	33 hours
CHE 111, 112, 325, 361, 362, 365, 570 and six hours of upper division chemistry courses.	
SUPPORTING COURSE REQUIREMENTS	40 hours
PHY 201 and 202 or 131 and 132; MAT 111; PSY 211; EDF 102, 202, 317; ESE 451, 498, 499. A year of foreign language is recommended.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101 and 102 or 105; 12 hours of Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203; six additional hours of Social Sciences; three hours of Biological Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	9 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Associate of Arts Degree Curricula for Chemical Technicians

MAJOR REQUIREMENTS	22 hours
CHE 111, 112, 226, 227 and 102 or 361.	
SUPPORTING COURSE REQUIREMENTS	15-17 hours
MAT 107 or 109; ECO 230; ENG 300; MGT 200; EDP 200.	
GENERAL EDUCATION REQUIREMENTS	15 hours
GSO 100; GSE 101 and 102; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	6- 8 hours
TOTAL CURRICULUM REQUIREMENTS	64 hours

Minors in Chemistry

Although the student is not required to have a minor area of study, those students acquiring teacher certification are encouraged to do so. The employability of the student is enhanced with certification in more than one discipline. A total of 21 hours is required for a teaching minor from the following courses: CHE 111, 112, 325, 330, 361, 362, 471, 472, 473, 570.

A student may minor (non-teaching) in chemistry by completing CHE 111, 112, 361 and four hours of upper division chemistry courses.

Graduate Programs

The Department of Chemistry offers the degree of Master of Science with a major in Chemistry.

The Master of Arts in Education Degree with an emphasis in Chemistry and the Master of Arts in Education Degree with an emphasis in General Science are offered in the College of Education with the cooperation of the Department of Chemistry. The regulations for these degrees may be found in the College of Education section of the Graduate Catalog.

Course Descriptions

CHE CHEMISTRY

101 General Chemistry I. Four hours. I, II.

Designed for students who will take only one year of chemistry. Basic principles of chemical bonding, structure of matter, chemical equilibrium, and descriptive inorganic chemistry. Three lecture and two laboratory hours. Credit will not be allowed for both CHE 101 and CHE 111.

102 General Chemistry II. Five hours. I, II.

Prerequisite: CHE 101.

Continuation of CHE 101, emphasis on elementary organic chemistry, biochemistry and industrial chemistry. Three lecture, one recitation, and two laboratory hours.

CHE CHEMISTRY

- 111** **Introductory Chemistry I. Four hours. I, II.**
First semester of a two-semester sequence designed to prepare the student for further study in chemistry. Topics include nomenclature, structure of matter, stoichiometry, chemical bonding, and chemical change. Three lecture and two laboratory hours. Credit will not be allowed for both CHE 101 and CHE 111.
- 112** **Introductory Chemistry II. Five hours. I, II.**
Prerequisite: CHE 111.
Continuation of CHE 111. Coordination compounds, descriptive inorganic chemistry, solution chemistry and analytical chemistry. Three lecture and four laboratory hours.
- 226** **Analytical Laboratory Techniques I. Four hours. A.**
Prerequisite: CHE 112.
Physical and chemical testing of materials, both qualitative and quantitative. Gravimetric and volumetric techniques for industrial inorganic analysis. Methods of measurement and sampling; recording and reporting of results and their statistical evaluation. The student will become familiar with established chemical standards for materials, for occupational environments and for water. Two lecture and six laboratory hours per week.
- 227** **Analytical Laboratory Techniques II. Four hours. A.**
Prerequisite: CHE 226 and CHE 102 or 361.
A continuation of CHE 226. Inorganic and organic analyses by simpler instrumental techniques, including potentiometry, electroanalysis, colorimetry, visible, and infrared spectroscopy, gas chromatography and emission spectroscopy. Two lecture and six laboratory hours per week.
- 325** **Quantitative Analytical Chemistry. Four hours. A.**
Formerly CHE 213.
Prerequisite: CHE 112.
Introductory course in gravimetric, volumetric, colorimetric, and electrochemical analysis, including the interpretation of chemical data and calculations. Two lecture and six laboratory hours.
- 330** **Introductory Biochemistry. Three hours. A.**
Prerequisite: CHE 102 or approval of instructor. Not open for non-teaching chemistry majors.
Compounds and reactions of biological and nutritional importance. Amino acids, proteins, lipids, carbohydrates, vitamins, enzyme systems, digestion, absorption and pathways. Two lecture and two laboratory hours.
- 334** **Elements of Pharmacology. Three hours. A.**
Prerequisite: CHE 330 or equivalent.
An introductory coverage of the drugs commonly used in medical practice and their effect on the human organism. Emphasis placed on the mode of action at the molecular level. This course is not applicable for meeting minimum requirements for a major or minor in Chemistry. Three lecture hours.
- 361** **Organic Chemistry I. Five hours. I, II.**
Prerequisite: CHE 112.
Structural theory; hydrocarbons; introduction to stereochemistry; carbonium ion theory; aromatic compounds; applied absorption spectroscopy; organic halides; alcohols and ethers. Five lecture hours.

CHE CHEMISTRY

- 362 Organic Chemistry II. Three hours. I, II.**
Prerequisite: CHE 361.
Carboxylic acids; carbonyl compounds; amines and diazonium salts; polyfunctional compounds; theoretical topics; biomolecules. Three lecture hours.
- 365 Organic Chemistry Laboratory. Two hours. I, II.**
Prerequisite: CHE 361.
Experimental work to illustrate principles of Organic Chemistry and to introduce research techniques. Six hours laboratory.
- 397 Elementary Glass Working. One hour. A.**
Instruction and practice in the basic techniques used to repair and make simple glass apparatus. Three laboratory hours.
- 421 Analytical Instrumentation. Four hours. A.**
Prerequisite: One year of organic chemistry or approval of instructor.
Study of instrumental techniques used in analytical chemistry, including but not limited to electroanalytical and spectroscopic techniques. Emphasis placed on recent spectroscopic methods such as nuclear magnetic resonance and infra-red spectroscopy. (Cannot be substituted for CHE 525, and credit not allowed for both CHE 421 and CHE 525.) Two lecture hours and six laboratory hours.
- 450 Inorganic Chemistry. Three hours. I.**
Formerly CHE 550.
Prerequisite: CHE 472 or approval of instructor.
Modern concepts of atomic nuclei, atomic structure, and classification of elements. Completions and coordination compounds. Theories of bonding. Three lecture hours.
- 471 Physical Chemistry. Four hours. I.**
Prerequisite: CHE 361, MAT 213 (or concurrent enrollment); PHY 202.
Thermodynamic properties of physicochemical systems; free energy and equilibria; kinetic theory of gases and reaction rates; electrochemical processes; electrolytic solutions and activity coefficients. Four lecture hours.
- 472 Physical Chemistry. Two hours. II.**
Prerequisite: CHE 471; MAT 213.
Atomic and molecular structure; spectroscopy; partition functions and thermodynamic relations. Two hours.
- 473 Experimental Physical Chemistry. Two hours. II.**
Prerequisite: CHE 325; CHE 471 or approval of instructor.
Experimental work to illustrate principles of physical chemistry and to introduce research techniques. Four hours laboratory.
- 480 Seminar. One hour. I, II.**
Prerequisite: Senior standing.
Presentation of significant developments from recent literature to members of the chemistry faculty and departmental majors. One weekly meeting. May be repeated for a total of two hours credit.
- 495 Introduction to Research. Three to five hours. I, II.**
Formerly CHE 595.
Prerequisite: CHE 361; 471 or approval of instructor.
Objectives and techniques of chemical research. Problems in all fields of chemistry. May be repeated once for a maximum of ten hours of credit.
- 511 Principles of Chemistry I. Three hours.**
This course will treat selected concepts in chemistry in depth. Topics to be covered are equation of state, thermodynamics and chemical equilibrium. Not available for credit if the student has taken CHE 471 and 472 or their equivalent. Three lecture hours.

CHE CHEMISTRY

- 512 Principles of Chemistry II. Three hours.**
Continuation of CHE 511. Topics to be considered are chemical kinetics, electrochemistry and other selected topics. Not available for credit if the student has taken CHE 471 and 472 or their equivalent. Three lecture hours.
- 514 Chemical Literature. One hour. A.**
Prerequisite: CHE 361; 472 or approval of instructor.
Introduction to the use of fundamental periodicals, abstract journals, handbooks, review series and encyclopedias of chemistry. One lecture hour.
- 525 Instrumental Methods. Four hours. A.**
Prerequisite: CHE 362 and 472 or approval of instructor.
Principles and uses of optical and electrical instruments in analysis. Colorimetric, spectrophotometric (including infra-red), conductometric, potentiometric, polarographic and chromatographic methods and determinations, methods of nuclear chemistry. Two lecture and six laboratory hours.
- 530 Biochemistry I. Four hours. II.**
Prerequisites: CHE 362; 471 or approval of instructor.
Chemistry, metabolism and biosynthesis of carbohydrates, proteins, and lipids, the action of vitamins, hormones and enzymes related to cellular metabolism and body processes. Three lecture hours, three laboratory hours.
- 531 Biochemistry II. Four hours. A.**
Prerequisite: Chemistry 530.
Continuation of CHE 530. Topics included are nucleoproteins, energetics, biological catalysis, and functions of biologically important materials. Three lecture and three laboratory hours.
- 555 Inorganic Preparations. Three hours. II.**
Prerequisite: CHE 550 or approval of instructor.
Techniques of crystallization, distillation, furnace methods, electrolytic processes and gas handling as involved in the synthesis of alloys, oxides, salts, coordination compounds, polyacids, anomalous salts, and colloids. One lecture and six laboratory hours.
- 560 Mechanistic Chemistry. Three hours. A.**
Prerequisite: CHE 362; 472 or approval of instructor.
Survey of new reactions and comprehensive study of reaction mechanisms. Three lecture hours.
- 565 Qualitative Organic Analysis. Three hours. A.**
Prerequisite: CHE 362 or approval of instructor.
Identification of unknown organic substances through a systematic study of their physical and chemical properties and their chemical derivatives. One lecture and six laboratory hours.
- 570 Physical Chemistry for Biological Sciences. Four hours. I.**
Prerequisite: CHE 325 or approval of instructor.
Recommended for premedical students and students in the biological sciences or related disciplines. Topics considered: states of matter, colligative properties of solutions, thermodynamics, equilibrium, electro-chemistry, colloids, and reaction kinetics. (Chemistry majors will take Chemistry 471 and 472.) Three lecture and three laboratory hours.

CHE CHEMISTRY**585 Principles of High Polymers. Three hours. A.**

Prerequisite: CHE 362.

Techniques for the preparation and characterization of high polymers including the chemistry of monomers, condensation and addition polymerization, radical, anionic, and cationic initiation. Typical processes for commercially important fibers and engineering plastics. Emphasis on the microstructure of the polymer chain and its effect on the macromolecular physical properties of the final synthetic. Two lecture hours, three laboratory hours.

Graduate Courses

Selected Topics in Chemistry. One to three hours. A.**502 Selected Topics in Analytical Chemistry.****503 Selected Topics in Biochemistry.****505 Selected Topics in Inorganic Chemistry.****506 Selected Topics in Organic Chemistry.****507 Selected Topics in Physical Chemistry.**

Prerequisite: Approval of Instructor.

Topics will be chosen from advanced areas of current interest and may vary according to student needs. The courses may be repeated for credit when new topics are offered. Topics and credit will be announced prior to each offering.

510 History of Chemistry. Three hours. A.

Consideration of the role of chemistry in the history of man, the development of chemical concepts, and the contributions of famous chemists. Research will include inspection of various problem-solving philosophies of chemistry. Three lecture hours.

511 Theoretical Chemistry. Two hours. A.

Prerequisite: CHE 472 or equivalent.

Introduction to quantum mechanics, application of symmetry and group theory to chemical problems. Two lecture hours.

513 Principles of Chemistry III. Four hours. A.

Development of the origin of chemistry concepts: atomic theory, chemical bonding, chemical interaction. The application of modern learning theories and psychological foundations with their implications for modern physical science curricula.

524 Separation Methods. Two hours. A.

Prerequisites: CHE 362 and CHE 471.

Principles and techniques of separation methods. Chromatography ion exchange, liquid-liquid extraction, distillation, dialysis, ion exclusion, precipitation, mechanical methods, diffusion, electromigration, and flotation. Two lecture hours.

525 Spectroscopy. Two hours. A.

Prerequisite: CHE 525 and 472.

The origin and interpretation of spectra resulting from the interaction of electromagnetic radiation with atoms or molecules. Techniques covered will include UV-UVS, NMR, IR, Raman and ESR. Two lecture hours.

CHE CHEMISTRY

- 645 Chemical Laboratory and Demonstration Techniques. One to four hours. A.**
Prerequisite: Six semesters of undergraduate work in chemistry or approval of instructor.
Techniques of constructing and demonstrating apparatus to illustrate principles of chemistry. Primarily for high school and junior college science teachers. Variable credit is accomplished by allowing one credit hour for each three hours per week of laboratory work.
- 651 Structure and Reactivity. One hour. A.**
An examination of reaction mechanisms with the view of understanding the structure and reactivity of systems. Mechanisms covered will include solvent assisted substitution and conjugate base substitution reactions. Complications encountered when applying conventional reaction mechanisms to structures other than tetrahedral will be discussed. One lecture hour.
- 673 Chemical Thermodynamics. Two hours. A.**
Prerequisite: CHE 472; MAT 453 recommended.
Examination of thermodynamic laws for both ideal and non-ideal systems. The application of thermodynamics to electro-chemical and solution chemistry problems. Two lecture hours.
- 680 Graduate Seminar. One hour. I, II.**
Presentation of significant developments in chemistry to members of the chemistry faculty and department majors. One weekly meeting. May be repeated for a maximum of two hours credit.
- 681 Seminar in the Teaching of Chemistry. One hour. A.**
Topics include the discussion of trends in chemistry teaching, application of research to chemistry teaching, and special problems that occur in schools. May be repeated for a maximum of two hours credit. One weekly meeting.
- 690 Graduate Literature Program. Two hours. I, II.**
Extensive survey of the literature related to a specific research program.
- 695 Graduate Research. One to six hours. I, II.**
Laboratory research in one of the major areas of chemistry for application to a thesis. May be repeated for a maximum of six credit hours.

SCI SCIENCE

- 310 History of Science. Three hours. I, II.**
The development of scientific concepts through the ages; contribution of science to civilization; philosophy of science; biographical sketches. Students may not receive credit for both SCI 310 and BIO 305. Three lecture hours.

Communications (COM, JOU, RTV)

Harris, J., Chairman; Donoho, Kenney, Kleine, F. Kolloff, Perry, Polsgrove, Switzer, Whitlock, Wolfe, Wright.

The primary function of the Department of Communications is to offer instruction in the preparation of messages for the mass media

and in the effective utilization of mass media techniques and equipment.

Because of the specialized nature of many of the courses in the Department of Communications, students may find prerequisites required by individual instructors. These may include the ability to type a minimum of 25 words per minute, the availability of a cassette or other portable tape recorder, and/or the availability of a 35mm camera. When such requirements apply, students will be notified during registration and also at the first class meeting.

Students majoring or minoring in the Department of Communications are required to attain a minimum grade of 'C' in all courses specified for the major and/or minor.

Bachelor of Arts Degree Curricula Major in Broadcasting

MAJOR REQUIREMENTS	33 hours
COM 200, RTV 225, 250, 350, 390, 395, 325 or 375, 480, and nine hours of COM and/or RTV electives.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203 and six hours additional Social Sciences; 12 hours Mathematics and Natural Science; GSP 180, 181 and 281; MIL 101, 102, 201 and 202 (or options for men, electives for women). Refer to pp. 54-58 for complete University general education requirements.	
FREE ELECTIVES	40 hours
To be selected by student from University offerings. (Broadcasting majors will be advised to enroll for SPE 100 and/or 150 as needed. Students without practical experience may be advised to enroll in RTV 393 and/or 398).	
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Broadcasting

Courses required for a minor in Broadcasting are RTV 225, 250, six hours in production courses (350, 390, or 395), 325 or 375, and three hours of COM or RTV electives. Courses counting toward the student's major may not be counted toward the minor in Broadcasting. Substitute courses will be selected by the student and his departmental advisor.

Minor in Film

Courses required for a minor in Film are COM 200, 350, 351, 450 or 496, RTV 350 and 450. Courses counting toward the student's major may not be counted toward the minor in Film. Substitute courses will be selected by the student and his departmental advisor.

Major in Journalism

MAJOR REQUIREMENTS	30 hours
COM 200, 490; JOU 201, 303 (one hour), 307, 310, 325; MKT 320, and eight hours of COM and/or JOU electives.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203 and six hours additional Social Science; twelve hours Mathematics and Natural Science: GSP 180, 181 and 281; MIL 101, 102, 201 and 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	43 hours
To be selected by student from University offerings. (Journalism majors should take 12 hours in a foreign language if it is begun in college, or six hours if the language is continued at the intermediate level.)	
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Journalism

Courses required for a minor in Journalism are COM 200, JOU 201, 303 (one hour), 310, and nine hours of COM and/or JOU electives. Courses counting toward the student's major may not be counted toward the minor in Journalism. Substitute courses will be selected by the student and his departmental advisor.

Minor in Journalism (Teaching)

Courses required for a minor in Journalism (Teaching) are COM 200, JOU 201, 303 one hour), 310, and 11 hours of COM and/or JOU electives; and EDF 102, 202, 317 (The teaching minor in journalism is open to those students with a first major in art, business education, English, history or physical education).

Minor in Public Relations

Courses required for a minor in Public Relations are COM 200, 496/499 or 500 or 510, JOU 201, 475, 480, and RTV 375. Courses counting toward the student's major may not be counted toward the minor in Public Relations. Substitute courses will be selected by the student and his departmental advisor.

Course Descriptions

COM COMMUNICATIONS

- 200 Introduction to Mass Communications. Three hours. I, II.**
Formerly JOU 200.
Introduction to the mass media in America, especially newspapers and broadcasting. Analysis of the forces and institutions affecting media behavior, and study of the impact of mass media upon the social, political and economic sectors of society.
- 350 Cinema History I. Three hours. A.**
Historical survey of cinema from its origins to the early artistic successes in sound. Considers various developments in directing, acting, editing, and other areas of cinema as an art form. Feature length and short films will be viewed.
- 351 Cinema History II. Three hours. A.**
Theories, styles, and critical positions related to the sound film. Historical survey from the development of sound to the present. Considers the origins and the implications for future directions. Feature length and short films will be viewed.
- 405 Communications Law: Journalism. Three hours. A.**
Formerly JOU 405.
Prerequisites: COM 200 and JOU 201.
Consideration of the legal philosophies bearing upon journalism: freedom of the press; copyright; libel; slander; fair comment; contempt of court. Emphasis on the privileges and restraints affecting journalism.
- 406 Communications Law: Broadcasting. Three hours. A.**
Prerequisites: COM 200 and RTV 225.
Consideration of the legal philosophies and State and Federal statutes bearing upon broadcasting: Federal Communications Commission; "Equal time" provisions; copyright; libel and slander; self-regulation. Emphasis on the privileges and restraints affecting broadcasting.
- 450 Literature and Film. Three hours. A.**
CL ENG 450.
Prerequisites: GSE 101, 102, and six hours of literature.
An examination of the relationship between film and literature through a comparative study of the stylistic and technical elements of the two media.
- 490 Senior Press Conference. Three hours. A.**
Formerly JOU 490.
Prerequisite: Approval of instructor.
Weekly press conferences with university, governmental, and other professional representatives in which the relations of the press to other disciplines are explored. Professional journalists discuss media problems and opportunities.
- 496 Special Problems in Communications: Film. One to three hours. I, II.**
Formerly SPE 498.
Prerequisite: Approval of chairman.
Independent study in film. Student must have a topic selected and approved prior to enrollment. Credit limited to a total of three hours. A maximum of six hours credit in special problems (COM 496, 497, 498, 499) may be earned.

COM COMMUNICATIONS

- 497 Special Problems in Communications: Journalism. One to three hours. I, II.**
Prerequisite: Approval of chairman.
Independent study in journalism. Student must have a topic selected and approved prior to enrollment. Credit limited to a total of three hours. A maximum of six hours credit in special problems (COM 496, 497, 498, 499) may be earned.
- 498 Special Problems in Communications: Radio. One to three hours. I, II.**
Formerly SPE 498.
Prerequisite: Approval of chairman.
Independent study in radio. Student must have a topic selected and approved prior to enrollment. Credit limited to a total of three hours. A maximum of six hours credit in special problems (COM 496, 497, 498, 499) may be earned.
- 499 Special Problems in Communications: Television. One to three hours. I, II.**
Formerly SPE 498.
Prerequisite: Approval of chairman.
Independent study in television. Student must have a topic selected and approved prior to enrollment. Credit limited to a total of three hours. A maximum of six hours credit in special problems (COM 496, 497, 498, 499) may be earned.
- 500 Studies in Communications: _____.**
One to nine hours. A.
Prerequisite: Approval of instructor.
Course designed for participants in workshops, short courses, institutes, or for presentation of a course of a timely, specialized, or topical nature. Specific course orientation will appear beside title.
- 510 Public Relations in Education. Three hours. A.**
Prerequisite: Approval of instructor.
An exploration of internal and external school public relations in elementary and secondary schools as well as institutions of higher education. Emphasis is given to planning and developing positive school-press working relations.
- 550 Readings in Mass Communications. Three hours. A.**
Prerequisite: Approval of instructor and senior standing.
Critical reading of selected books and magazines relating directly or indirectly to mass communications. Reviews and seminar discussions of readings, which will be chosen to reflect individual students' interests.

JOU JOURNALISM

- 201 Newswriting. Three hours. A.**
Prerequisites: GSE 101 and 102.
Study of the elements of news: the lead, style and structures of news stories, news sources, readability, types of stories, and ethics; practice in gathering, writing and evaluating news.
- 303 Journalism Practicum. One hour. I, II.**
Prerequisites: GSE 101 and 102.
Instruction and practice in journalism techniques such as reporting, photography, writing and editing, organization and procedure in operating a communications reference library with special emphasis given to maintenance of source materials. May be repeated for a total of four hours.

JOU JOURNALISM

- 305 Feature Writing. Three hours. A.**
Prerequisites: GSE 101 and 102.
Writing and submitting articles for publication in newspapers, magazines and syndicates; study requirements of periodicals to which sale is attempted and freelancing methods in general.
- 307 Editorial Writing. Three hours. A.**
Prerequisites: COM 200 and JOU 201.
Study of editorials, editorial columns, and editorial pages; practice in writing editorials for publication.
- 310 News Editing. Three hours. I, II.**
Prerequisite: JOU 201.
Study of the purposes and methods of preparing copy for publication. Analysis and practice of headline writing. Evaluation of news, display, and makeup.
- 325 Photojournalism. Three hours. A.**
Prerequisites: COM 200 and JOU 201.
Reporting the news with a camera; how to recognize, develop, and create picture stories; experience in coordinating words and news pictures; picture editing; layout.
- 349 Cooperative Study: Journalism. Two or four hours. A.**
Prerequisites: Junior standing; B average in all courses in the Department of Communications, and approval of the Department.
Work under faculty and field supervisors in a cooperative placement related to the student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: 12. May not be used to satisfy Journalism major requirements.
- 401 Advanced Newswriting. Three hours. A.**
Prerequisite: JOU 201 and approval of instructor.
Study of current reporting in specialized fields of state and local government, labor, science, research, and business. Practical experience in covering non-campus news.
- 450 Newspaper and Magazine Management. Three hours. A.**
Prerequisites: COM 200 and approval of instructor.
Problems or organization, finance, production, and distribution of daily and weekly newspapers and of magazines. Included are factors involved in publishing, staffing, equipment evaluation and purchase, and policy formulation.
- 475 Public Relations. Three hours. A.**
Prerequisites: COM 200 and JOU 201 or RTV 375.
Survey of methods of disseminating public information and information intended for internal consumption as practiced by business, industrial, educational, and social organizations. Practice in preparing promotional materials and campaigns.
- 480 Public Relations Campaigns and Publications. Three hours. A.**
Prerequisite: JOU 475.
Research, planning and, preparation of an integrated public relations campaign. Theory and practice in preparing and using management publications in reaching the general public, customers, and employees. Emphasis will be paced on campaign case studies.
- 501 School Publications Supervision. Three hours. A.**
Prerequisite: Approval of instructor.
Examination of the organization and implementation of school communications curricula and scholastic publications. To include lectures and discussion by faculty and visiting lecturers. Projects to include curricular and/or unit construction and exercises in school publications production and supervision.

RTV BROADCASTING

- 225 Introduction to Radio and Television. Three hours. I, II.**
Formerly SPE 290.
Survey of the broadcasting industry. Development of broadcasting; responsibilities and job opportunities; organization of stations and networks; Federal regulations and industry codes; technical aspects of radio and television; brief consideration of programming and production techniques; field trips to area radio and television stations.
- 250 Broadcast Performance. Three hours. I, II.**
Prerequisite: RTV 225.
Study of the announcer's role in broadcasting; intensive practice in performing areas including advanced radio and television productions. Microphone and television camera techniques. Additional emphasis on phonetics, pronunciation, and Federal Communications Commission regulations.
- 325 Broadcast News. Three hours. A.**
Prerequisite: RTV 225.
Fundamental news concepts peculiar to the requirements of the broadcast media. Laboratory exercises in writing, editing, and presenting newscasts, public affairs programs, and editorials on radio and television.
- 349 Cooperative Study: Broadcasting. Two to four hours. A.**
Prerequisites: Junior standing; B average in all courses in the Department of Communications, and approval of the Department.
Work under faculty and field supervisors in a cooperative placement related to the student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: 12. May not be used to satisfy Broadcasting major requirements.
- 350 Film Production. Three hours. I, II.**
Formerly SPE 485.
Prerequisite: RTV 225.
Principles and procedures of motion picture production, including camera, metering, laboratory processes, editing, and projection systems. Emphasis on scripting, filming, and editing the silent film.
- 375 Broadcast Writing. Three hours. A.**
Formerly SPE 375.
Prerequisite: RTV 225.
Examination of the specialized forms of broadcast writing. Practical experience in writing commercial, public service, and documentary copy.
- 390 Radio Production. Three hours. I, II.**
Formerly SPE 390.
Prerequisite: RTV 225.
Fundamentals of the technical and artistic elements of radio production: control room techniques, sound recording, audio tape editing.
- 393 Radio Practicum. One hour. I, II.**
Formerly SPE 393.
Prerequisites: RTV 390 and approval of instructor.
Supervised practical experience on the staff of a radio station. Students will participate in the various aspects of radio station operation. May be repeated for a total of three hours.

RTV BROADCASTING

- 395 Television Production. Three hours. I, II.**
Formerly SPE 395.
Prerequisite: RTV 225.
Study of the basic elements of television production, including an introduction to writing, directing, producing, and other technical aspects of commercial television.
- 398 Television Practicum. One hour. I, II.**
Formerly SPE 398.
Prerequisite: RTV 395 and approval of instructor.
Supervised practical experience on the staff of Eastern Kentucky University Instructional Television. Students may participate in various aspects of television production: camera work, lighting, graphics, set design and construction, and film. May be repeated for a total of three hours.
- 425 Broadcast Station Management. Three hours. A.**
Formerly SPE 490.
Prerequisite: RTV 225.
Study of the elements basic to the successful operation of a radio and/or television station: staffing, budgeting, types and sources of programs, equipment evaluation and purchase, public relations and promotion, and Federal and industry-wide regulatory codes.
- 450 Advanced Film Production. Three hours. A.**
Prerequisite: RTV 350.
Continuation of RTV 350 with emphasis on scripting, camera, and sound. Examination of advanced editing processes and relationships between film and other media.
- 475 Broadcast Sales. Three hours. A.**
Prerequisite: RTV 225 and senior standing.
Problems and practices of television and radio sales; case studies in sales development (local, regional, and national); pricing; promotion; campaigns.
- 480 Broadcasting in Public Interest. Three hours. A.**
Formerly SPE 480.
Prerequisite: RTV 225.
Theoretical course dealing with social, political, legal, and economic influences on American radio and television broadcasting.
- 490 Advanced Radio Production. Three hours. A.**
Prerequisite: RTV 390.
Program functions in radio communications, including the planning, production, and direction of more complex programs. Emphasis on documentary and studio productions utilizing original ideas and methods.
- 495 Advanced Television Production. Three hours. A.**
Formerly SPE 495.
Prerequisite: RTV 395.
Continuation of RTV 395. Advanced study in practice of various aspects of commercial television production.

Graduate Courses

- 628 Instructional Television. Three hours. A.**
Formerly ESE 628.
Exploration of television as a teaching tool. Theory and practice of planning the utilization of instructional television programs and courses. The roles of the producer/director, the television studio teacher, and the television classroom teacher are explored. History of educational television, television research, and literature in the field. Supervised critical viewing of course segments.

English (ENG)

Thurman, K., Chairman; Alexander, Blythe, Bright, Brock, Brown, Browning, Burkhart, Callender, Carey, Carson, Chrisman, Clewett, Culross, Davy, Dohmen, Grise, Harnack, Hart, Hill, Johnson, Latta, Long, Mangus, Mortland, Nelson, Nims, Nixon, Remaley, Rhodes, Riffe, Smith, Sowders, W. Sutton, Sweet, Warner, D. White, I. White, Williams, Witt.

The Department of English offers instruction in literature, in writing, and in language study for the student who plans to make teaching a career, for the pre-professional student, and for the student who wants only to broaden his critical insight into the nature of language and of literature. The following programs are offered:

Bachelor of Arts Degree Curricula Major in English

MAJOR REQUIREMENTS	30 hours
ENG 209 and 210 preferably or 211 and 212; 301, 350, 351; 411 or 523 or 524; 539 or 541; and at least 9 additional upper level hours, three of which must be in American literature and three of which must be in British literature.	
SUPPORTING COURSE REQUIREMENTS	12 hours
12 hours of a foreign language (or equivalent). In addition the major is strongly advised to take courses in speech, in history, and in other allied disciplines.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102 or 105; GSS 246 or HIS 202, GSS 247 or HIS 203; six hours of Social Science; 12 hours of Mathematics and Natural Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women. Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	43 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in English (Teaching)

MAJOR REQUIREMENTS	33 hours
ENG 209 or 211; 210 or 212; 301, 350, 351, 411, 431, 539 or 541; and at least 9 hours of restricted English electives selected so that a minimum of one course is taken from each of the following groups: Group I (521, 522, 523, 524); Group II (321, 422, 525, 526, 534); Group III (312, 317, 323, 327).	

SUPPORTING COURSE REQUIREMENTS	15 hours
SPE 100 or 300; and 12 hours of foreign language (or equivalent).	
PROFESSIONAL COURSE REQUIREMENTS	29 hours
EDF 102, 202, 317; ESE 498, 499, 443, 574, PSY 211.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102 or 105; GSS 246 or HIS 202, GSS 247 or HIS 203; six hours of Social Science; 12 hours of Mathematics and Natural Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	8 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in English (Teaching Area)

A student may take a teaching area in English by earning at least 51 hours including GSE 101 and 102. In general the student may follow the curriculum for a major adding at least 15 hours selected in conference with his advisor.

Minor in English

REQUIREMENTS

GSE 101 and 102; ENG 209 or 211, 210 or 212, 301, 350 and 351, 411 or 523 or 524, and one additional upper division course in literature.

Minor in English (Teaching)

The same courses are required for certification to teach English as for a minor in English except that a course in linguistics (ENG 539 or 541) must be taken in lieu of the additional upper division course in literature. All teaching minors also must take ENG 431 and ESE 574.

Graduate Programs

The Master of Arts Degree in English is offered under Option A or Option B. Under either option, work includes both preparation for independent study leading toward the Ph.D. in English and for teaching on the college and pre-college levels. Under either option a student must pass a language reading examination in one foreign language (normally French, German, or Latin) before the Master's degree will be granted; however, the student may instead elect, unless he has already met the requirement, the completion of 12 hours (or the equivalent) of study in at least one language, acceptable to the student's graduate advisory committee. Also, under either option, at least 16 hours must be at the 600 level.

The Master of Arts in Education Degree with an emphasis in English is offered in the College of Education with the cooperation of the Department of English. The regulations for the degree may be found in the College of Education section of the Graduate Catalog.

For further information concerning the objectives and areas of course work leading to the M.A. degree in English, M.A. degree in Education with emphasis in English, admission requirements, the Graduate Record Examination, residence requirements, gradepoint average requirements for graduation, comprehensives and orals, and other pertinent matters, see the Graduate Catalog.

Course Descriptions

ENG ENGLISH

- 200 Topics in English. Two to three hours. A.**
Readings in selected areas such as Black writers in America, science fiction, women writers, popular literature, etc. for the non-English major. May be repeated for a maximum of nine hours providing the course content is different each time.
- 209 Survey of English Literature I. Three hours. I, II.**
Prerequisite: GSE 101 and 102.
English literature from Beowulf through the 18th century; special emphasis on Chaucer, Spenser, Shakespeare, Donne, Milton, Dryden, Pope, Swift, and Johnson.
- 210 Survey of English Literature II. Three hours. I, II.**
Prerequisite: GSE 101 and 102.
English literature from the Romantics to the present; emphasis on Wordsworth, Keats, Tennyson, Browning, Arnold, Hardy, Yeats, and Joyce.
- 211 Survey of World Literature I. Three hours. I, II.**
Prerequisite: GSE 101 and 102.
Selected readings from masterpieces of world literature from ancient times through the Renaissance.
- 212 Survey of World Literature II. Three hours. I, II.**
Prerequisite: GSE 101 and 102.
Selected readings from Continental, English, and American writers from the 17th century to the present.
- 214 Introduction to the Novel. Three hours. A.**
Prerequisite: GSE 101 and 102.
Readings from selected English and American novels.
- 215 Introduction to Poetry. Three hours. A.**
Prerequisite: GSE 101 and 102.
Readings in selected poems with major emphasis on understanding and enjoying poetry; training in the explication of poems.
- 216 Introduction to Short Story. Three hours. A.**
Formerly ENG 150.
Readings in the modern short story from its origins to the present; special emphasis on understanding and enjoying short fiction.
- 300 Technical Writing. Three hours. A.**
Prerequisite: GSE 101 and 102.
Advanced study of composition and rhetoric in relation to writing about technical subjects. Emphasis on types of discourse and forms of communication in technical writing. Does not count toward English major.

ENG ENGLISH

- 301 Advanced Composition and Rhetoric. Three hours. I, II.**
Prerequisite: GSE 101 and 102.
Study of grammar and rhetoric in relation to expository writing; special attention given to preparing a research paper on a topic related to an appropriate phase of English.
- 312 Modern Drama. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Study of representative Continental, British, and American plays from Ibsen to the present.
- 317 Modern British Novel. Three hours. A.**
Prerequisite: GSE 101, 102, and six hours of literature.
Study of important British novels of the 20th century.
- 319 Kentucky Literature. Three hours. I, A.**
Prerequisite: GSE 101 and 102, and two courses in literature.
Study of prominent Kentucky writers from the time of statehood to the present; students encouraged to work with the John Wilson Townsend Collection.
- 321 Age of Wordsworth and Keats. Three hours. I, A.**
Prerequisites: GSE 101, 102, and two courses in literature.
Primary emphasis on the poetry of the Romantic period.
- 323 Modern Poetry. Three hours. II, A.**
Prerequisite: GSE 101, 102, and six hours of literature.
Study of contemporary British and American poets; analysis, interpretation and criticism of modern poetry.
- 327 Modern American Novel. Three hours. A.**
Prerequisite: GSE 101, 102, and six hours of literature.
Study of important American novels of the 20th century.
- 350 American Literature I. Three hours. I, II.**
Prerequisite: GSE 101, 102, and two courses in literature.
Survey of American literature from the beginnings to Whitman; emphasis on Cooper, Bryant, Emerson, Poe, Hawthorne, Melville, and Thoreau.
- 351 American Literature II. Three hours. I, II.**
Prerequisite: GSE 101, 102, and two courses in literature.
Survey of American literature from Whitman to the present; emphasis on Whitman, Dickinson, Twain, James, Faulkner, Frost, and Eliot.
- 411 Shakespeare. Three hours. I, II.**
Prerequisite: GSE 101, 102, and two courses in literature.
Study of Elizabethan England as a background for Shakespeare's works; extensive reading of several plays; intensive reading of selected drama and poetry.
- 422 Poetry and Prose of Victorian Period. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Survey of prose and poetry of the Victorian period; reading of selected writers, excluding fiction.
- 425 Old Testament as Literature. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Selected readings in the literature of the Old Testament; emphasis upon its dramatic, lyric, and narrative qualities.

ENG ENGLISH

- 431 Advanced Grammar: Traditional Grammar and Current Usage. Three hours. A.**
Prerequisite: GSE 101, 102, and six additional hours in English.
A thorough study of the grammatical structure of American English and of the present-day terminology used to describe that structure, together with an analysis of the linguistic and grammatical theories underlying contemporary grammar texts. Required of all English majors and minors who plan to teach.
- 450 Literature and Film. Three hours. A.**
CL COM 450
Prerequisite: GSE 101, 102, and six hours of literature.
An examination of the relationship between film and literature through a comparative study of the stylistic and technical elements of the two media. Does not count toward the English major.
- 495 Independent Study. Three hours. A.**
Prerequisite: Approval of department.
Individual study and/or research on a problem pertaining to literature or language.
- 502 Creative Writing I. Three hours. A.**
Prerequisite: GSE 101, 102, and two other English courses; approval of instructor.
Open to students who desire to have their manuscripts criticized; fiction, drama, poetry, biography, or the informal essay accepted; guest lectures by and discussion with writers-in-residence.
- 503 Creative Writing II. One to three hours. II, A.**
Prerequisite: GSE 101, 102; approval of instructor.
A continuation of ENG 502 but open also to students enrolling for a writer's conference, which is a one-week course of fifteen informal lectures and discussions by faculty and visiting lecturers. Each student registering for the writer's conference must submit a short story, a one-act play, four poems, or the equivalent.
- 521 Renaissance Literature. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Study of poetry and prose of the English Renaissance, with emphasis on Sidney, Spencer, and Bacon.
- 522 English Poetry and Prose of Seventeenth Century Exclusive of Milton. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Survey of poetry and prose of the first half of the 17th century, with emphasis on Donne, Jonson, Herbert, Crashaw, Browne, and Burton.
- 523 Milton and His Age. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Study of the most important works of Milton; attention to the historical setting and to Milton's contemporaries.
- 524 Chaucer. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Intensive reading of such works as *The Canterbury Tales* and *Troilus and Criseyde*; other readings as time permits.
- 525 Age of Dryden and Pope. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Poetry, prose, and drama of the Restoration Period with emphasis on Dryden; poetry of the Augustan period with emphasis on Pope.

ENG ENGLISH

- 526 Age of Johnson. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Poetry, prose, and drama of the later eighteenth century with emphasis on Johnson and Boswell.
- 534 Nineteenth-Century English Novel. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
Study of the great 19th century English novelists from Jane Austen through Hardy: Austen, Scott, Dickens, the Brontes, Thackeray, Eliot, Meredith, Trollope, and Hardy.
- 535 American and British Women Writers. Three hours. A.**
Prerequisite: GSE 101, 102, and six hours of literature.
A study of imaginative writing by women writers from America and Britain, with emphasis upon contemporary authors and the feminist movement. Does not count toward the English major.
- 539 Introduction to Linguistic Theory. Three hours. I, A.**
Prerequisite: GSE 101, 102, and at least six additional hours of English.
An introduction to current linguistic theory and practice.
- 541 History of English Language. Three hours. A.**
Prerequisite: GSE 101, 102, and six additional hours.
Study of the history of the English language in terms of social, historical, and linguistic forces from which it developed into modern English.
- 546 Nineteenth-Century American Novel. Three hours. A.**
Prerequisite: GSE 101, 102 and six additional hours of English.
Survey of the American novel from its beginning to 1900.
- 547 Age of Emerson. Three hours. A.**
Prerequisite: GSE 101 (or equivalent), 102, and two courses in literature.
Intensive study of the prose and poetry of the American Renaissance; emphasis on the writings of Emerson, Thoreau, Hawthorne, and Melville.
- 550 Topics in American Literature. Three hours. A.**
Prerequisite: GSE 101, 102, and two courses in literature.
A study of selected topics such as rise of realism, American colonial writing, and social consciousness in contemporary American fiction, etc. May be repeated once provided that topic is different each time.
- 560 Continental Fiction. Three hours. A.**
Prerequisite: GSE 101 (or equivalent), 102, and two courses in literature.
Extensive reading in translation of important fiction of the Western world; emphasis on selected novelists of the 19th and 20th centuries.
- 565 Greek and Roman Drama in Translation. Three hours. A.**
Prerequisite: GSE 101 (or equivalent), 102, and two courses in literature.
Brief study of dramatic criticism, theory of tragedy, and the Greek and Roman theater; reading of plays by Aeschylus, Sophocles, Euripides, Aristophanes, Plautus, and Seneca.

Graduate Courses

- 600 Problems in Writing. Three hours. I.**
A study of the techniques used in generating and in evaluating effective writing. A review of grammar, of rhetorical principles, and of pertinent bibliographical materials. Required of all teaching assistants in English.

ENG ENGLISH

- 601 Bibliography and Research. Three hours. A.**
Work in critical theory and practice with attention to bibliography and resources. Each student compiles an extensive bibliography on a subject or author of his or his instructor's choice.
- 605 Seminar in Linguistics. Three hours. A.**
Examination of various descriptive and comparative approaches to the study of language.
- 611 English Drama to 1642. Three hours. A.**
English drama from its beginning in the Middle Ages to the closing of the theaters in 1642, excluding Shakespeare.
- 615 Literary Criticism. Three hours. A.**
Study of the development of literary criticism from its beginning to the present.
- 625 Old English. Three hours. A.**
Reading and study of selected works in original Old English dialects.
- 626 Middle English Literature. Three hours. A.**
English literature from 1200 to 1500; emphasis on poetry; readings done primarily in the original dialect.
- 627 Seminar in Tudor Literature. Three hours. A.**
Studies in depth of two or more major poets or prose writers of the period.
- 628 Seminar in Donne and Jonson: Poetry and Prose. Three hours. A.**
Detailed study of the poetry of John Donne and Ben Jonson; some emphasis on 17th century prose.
- 630 Studies in Romantic Period. Three hours. A.**
Study in depth of selected major figures of the Romantic Period from the pre-romantics and Blake through Wordsworth, Coleridge, Byron, Shelley, and Keats.
- 631 Seminar in Nineteenth-Century English Prose. Three hours. A.**
Studies in depth of two or more major English prose writers (fiction or non-fiction) of the 19th century.
- 632 Seminar in Age of Tennyson and Browning. Three hours. A.**
Primary emphasis on the poetry of Tennyson and Browning; selected readings from other Victorian writers.
- 645 Seminar in Whitman and James. Three hours. A.**
Intensive study of the scholarly problems related to the poetry of Whitman and the fiction of James.
- 647 Seminar in Hawthorne and Melville. Three hours. A.**
Intensive study of the scholarly problems related to the fiction of Hawthorne and Melville.
- 652 Studies in Twentieth-Century American Literature. Three hours. A.**
Studies in depth of two or more major American writers of the 20th century.
- 655 Studies in Twentieth-Century British Literature. Three hours. A.**
Studies in depth of two or more major British writers of the 20th century.
- 660 Epic. Three hours. A.**
Study of the epic tradition; readings from Homer, Virgil, Dante, Milton, and others.
- 672 Seminar in Eighteenth-Century English Literature. Three hours. A.**
Studies in depth of two or more major figures of the Augustan Age.

ENG ENGLISH

- 686 Literary Theory. Three hours. A.**
Studies in the relationship of imaginative and non-imaginative literature; emphasis on philosophical approaches to English and American Literature.
- 690 Special Studies. One to three hours. A.**
Independent research and writing designed to fulfill the individual needs and interests of advanced students.
- 692 Seminar in Shakespeare. Three hours. A.**
Concentration on selected works of Shakespeare; investigation and research on scholarly problems.
- 698 Thesis I. Three hours. A.**
- 699 Thesis II. Three hours. A.**

Foreign Languages

Nelson, C., Chairman; Bettler, Boyd, S. Burkhart, Carter, Cross, K. Hill, R. King, M. Scorsone, K. Smith, D. Richards, V. Wowk.

The Department of Foreign Languages offers courses in French, German, Greek, Latin, Portuguese, Russian, and Spanish.

A student may take a teaching major or minor in French, German, Latin, and Spanish. Students may also take non-teaching majors or minors in French, German, Latin, Russian, and Spanish. For a teaching major, students are required to complete twenty-seven hours above the elementary level; for a non-teaching major an additional three hours credit is required.

A two-language teaching major-minor combination may be earned with twenty-seven hours of the major language and at least eighteen hours in the minor above the elementary level.

In addition to these language programs, a student may also major in Ibero-American Studies (non-teaching), an interdisciplinary program offered in cooperation with the Departments of Anthropology, Economics, Geography, History, and Political Science. No minor is offered in this special program.

The Department of Foreign Languages also offers two graduate programs leading to the Master of Arts degree in French and Spanish. Detailed information can be found in the Graduate Catalog.

The Master of Arts in Education Degree with an emphasis in French or Spanish is offered in the College of Education with the cooperation of the Department of Foreign Languages. The regulations for the degree may be found in the College of Education section of the Graduate Catalog.

Bachelor of Arts Degree Curricula Major in French

MAJOR REQUIREMENTS30-36* hours

A student may major in French (non-teaching) by completing a minimum of 30 semester hours as follows: FRE 201, 202 (or their equivalents), 206, 360; three hours chosen from 340, 535 or 550; 303 or equivalent; 12 hours selected from 307 or 308, 311 or 312, 411 or 412, 305 or 570.

*Those students who begin in FRE 101 or 102 will have a total of 33-36 hours.

SUPPORTING COURSE REQUIREMENTS 0 hours

GENERAL EDUCATION REQUIREMENTS 49 hours

GSO 100; GSE 101, 102 or 105; ENG 209-210 or ENG 211-212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.

FREE ELECTIVES37-43 hours

TOTAL CURRICULUM REQUIREMENTS 128 hours

Major in French (Teaching)

MAJOR REQUIREMENTS27-33* hours

A student may major in French by completing a minimum of 27 semester hours of the language numbered from 200 and above as follows: FRE 201, 202(or their equivalents), 206, 380, 360, 340 or 535, 303 or equivalent; three hours chosen from 307, 308, 411, 412; three hours chosen from 305, 311, 312, 570. State certification requirement of 30 hours may include FRE 101 or FRE 102.

*Those students who begin in FRE 101 or 102 will have a total of 30-33 hours.

SUPPORTING COURSE REQUIREMENTS 26 hours
PSY 211; EDF 102, 202, 317 ESE 444, 498, 499.

GENERAL EDUCATION REQUIREMENTS 49 hours

GSO 100; GSE 101, 102 or 105; ENG 209-210 or ENG 211-212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.

FREE ELECTIVES19-26 hours

TOTAL CURRICULUM REQUIREMENTS 128 hours

Minor in French

A student may minor in French (non-teaching) by completing a minimum of 18* semester hours as follows: FRE 201, FRE 202 (or their equivalent), FRE 303, plus nine hours upper division electives.

*Those students who begin in FRE 101 or FRE 202 will have a total of 21-24 hours.

Minor in French (Teaching)

A student may minor in French by completing a minimum of 18* semester hours in the language numbered 200 or above as follows: FRE 201, 202 (or their equivalents), 206, 303, 360, 340 or 535.

*State certification requirement for 21 hours may include FRE 101 or FRE 102.

Major in German

MAJOR REQUIREMENTS30-36* hours

A student who majors in German (non-teaching) will take a minimum of 30 hours in courses numbered from 200 in German. The following courses are required:
GER 206, 303, 304, 355, 505, and 540.

*Those students who begin in GER 101 or 102 will have a total of 33-36 hours.

SUPPORTING COURSE REQUIREMENTS 0 hours

GENERAL EDUCATION REQUIREMENTS 49 hours

GSO 100; GSE 101, 102 or 105; ENG 209-210 or
ENG 211-212; GSS 246 or HIS 202 and GSS 247 or HIS 203,
6 hours additional Social Science; 12 hours Mathematics
and Natural Science; GSP 180, 181, 281; MIL 101, 102,
201, 202 (or options for men, electives for women).

Refer to pp. 54-58 for detailed University general
education requirements.

FREE ELECTIVES37-43 hours

TOTAL CURRICULUM REQUIREMENTS128 hours

Major in German (Teaching)

MAJOR REQUIREMENTS27-33* hours

A student may major in German by competing a minimum of 27 semester hours of the language numbered from 200 and above. The following courses are required:
GER 206, 303, 304, 355, 505, and 540. State certification
requirement of 30 hours may include GER 102 or 102.

*Those students who begin in GER 101 or 102 will have a total of 30-33 hours.

SUPPORTING COURSE REQUIREMENTS 26 hours

PSY 211; EDF 102, 202, 317; ESE 445, 498, 499.

GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101, 102 or 105; ENG 209-210 or ENG 211-212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	19-26 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in German

A student may minor in German (non-teaching) by completing a minimum of 18* semester hours in courses numbered 200 and above. The following courses are required: GER 206, 303, 304, 355, 505, and 540.

*Those students who begin in GER 101 or GER 102 will have a total of 21-24 hours.

Minor in German (Teaching)

A student may minor in German by completing a minimum of 18* semester hours in the language numbered 200 and above. The following courses are required: GER 206, 303, 304, 355, 505, and 540. State certification requirement of 21 hours may include GER 101 or GER 102.

*Those students who begin in GER 101 or GER 102 will have a total of 21-24 hours.

Comprehensive Area Major in Ibero-American Studies

MAJOR REQUIREMENTS	33-45* hours
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A student may major in Ibero-American Studies (non-teaching) by completing a total of 33 semester hours in the following areas: 9 hours from SPA 206, 320, 321, 381; HIS 383, 582, and 583; GEO 347; 12 hours to be chosen from two of the following three areas: (1) POR 501, 502, 595 (2) SPA 360, 380, 505, 540 (3) ANT 435, POL 202, ECO 394, 560, 595. If a student chooses POR 501, 502 must also be taken.

*If a student begins SPA 101, 102, 201, or 202, he will have a total of 33-45 hours. It is highly recommended that the student also take SPA 496, Travel-Study Program in Mexico.

SUPPORTING COURSE REQUIREMENTS	0 hours
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GENERAL EDUCATION REQUIREMENTS	49 hours
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GSO 100; GSE 101, 102 or 105; ENG 209-210 or ENG 211-212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women).

Refer to pp. 54-58 for detailed University general education requirements.

FREE ELECTIVES	34-36 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Latin

MAJOR REQUIREMENTS	30-36* hours
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A student may major in Latin (non-teaching) by completing a minimum of 30 semester hours of Latin in courses numbered 200 and above.

*Those students who begin LAT 101 or LAT 102 will have a total of 33-36 hours.

SUPPORTING COURSE REQUIREMENTS	0 hours
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GENERAL EDUCATION REQUIREMENTS	49 hours
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GSO 100; GSE 101, 102 or 105; ENG 209-210 or ENG 211-212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women).

Refer to pp. 54-58 for detailed University general education requirements.

FREE ELECTIVES	37-43 hours
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TOTAL CURRICULUM REQUIREMENTS	128 hours
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Major in Latin (Teaching)

MAJOR REQUIREMENTS	27-33* hours
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A student may major in Latin by completing a minimum of 27 semester hours in courses numbered 200 and above. State certification requirement of 30 hours may include LAT 101 or LAT 102.

*Those students who begin in LAT 101 or LAT 102 will have a total of 30-33 hours.

SUPPORTING COURSE REQUIREMENTS	26 hours
PSY 211; EDF 102, 202, 317; ESE 446, 498, 499.	

GENERAL EDUCATION REQUIREMENTS	49 hours
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GSO 100; GSE 101, 102 or 105; ENG 209-210 or ENG 211-212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women).

Refer to pp. 54-58 for detailed University general education requirements.

FREE ELECTIVES	19-26 hours
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TOTAL CURRICULUM REQUIREMENTS	128 hours
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Minor in Latin

A student may minor in Latin (non-teaching) by completing a minimum of 18* semester hours in courses numbered 200 and above.

*Those students who begin in LAT 101 or LAT 102 will have a total of 21-24 hours.

Minor in Latin (Teaching)

A student may minor in Latin by completing a minimum of 18* semester hours in courses numbered 200 and above. State certification requirement of 21 hours may include LAT 101 or LAT 202.

*Those students who begin in LAT 101 or LAT 102 will have a total of 21-24 hours.

Major in Russian

MAJOR REQUIREMENTS 30 hours

A student may major in Russian (non-teaching) by completing a minimum of 30 hours in courses which may include RUS 101 and RUS 102.

SUPPORTING COURSE REQUIREMENTS 0 hours

GENERAL EDUCATION REQUIREMENTS49-56 hours

GSO 100; GSE 101, 102 or 105; ENG 209-210 or ENG 211-212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 210, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.

FREE ELECTIVES 49 hours

TOTAL CURRICULUM REQUIREMENTS128 hours

Minor in Russian

A student may minor in Russian (non-teaching) by completing a minimum of 21 semester hours which may include RUS 101 and RUS 102.

Major in Spanish

MAJOR REQUIREMENTS30-36* hours

A student who majors in Spanish (non-teaching) will take a minimum of 30 semester hours in courses numbered 200 and above.

*Those students who begin in SPA 101 or SPA 102 will have a total of 33-36 hours.

SUPPORTING COURSE REQUIREMENTS 0 hours

GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101, 102 or 105; ENG 209-210 or ENG 211-212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	43-49 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Spanish (Teaching)

MAJOR REQUIREMENTS	27-33* hours
A student may major in Spanish by completing a minimum of 27 semester hours in courses numbered from 200 and above. The following courses are required: SPA 206, 303 or 320, 304 or 321, 360 or 505. State certification requirement of 30 hours may include SPA 101 or SPA 102. *Those students who begin in SPA 101 or SPA 102 will have a total of 30-33 hours.	
SUPPORTING COURSE REQUIREMENTS	26 hours
PSY 211; EDF 102, 202, 317; ESE 447, 498, 499.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101, 102 or 105; ENG 209-210 or ENG 211-212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	19-26 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Spanish

A student may minor in Spanish by completing a minimum of 18* semester hours in courses numbered 200 and above.

***Those students who begin in SPA 101 or SPA 102 will have a total of 21-24 hours.**

Minor in Spanish (Teaching)

A student may minor in Spanish by completing a minimum of 18* semester hours in courses numbered 200 and above. The following courses are required: SPA 206, 303 or 320, 304 or 321, 360 or 505. State certification requirement of 21 hours may include SPA 101 or SPA 102.

***Those students who begin in SPA 101 or SPA 102 will have a total of 21-24 hours.**

Course Descriptions

FRE FRENCH

- 101 Elementary French I. Three hours. I, II.**
Introduction to the grammar and structure of French. Emphasis on development of student's ability to translate into English. Practice in pronunciation, reading, writing, and conversation, using materials relevant to contemporary experiences. Laboratory attendance required.
- 102 Elementary French II. Three hours. I, II.**
Prerequisite: FRE 101 or equivalent proficiency.
Continuation of FRE 101 using more advanced materials. Laboratory attendance required.
- 201 Intermediate French I. Three hours. I, II.**
Prerequisite: FRE 102 or equivalent proficiency.
Grammar review. Emphasis on the translation and discussion of literary and other cultural offerings.
- 202 Intermediate French II. Three hours. I, II.**
Prerequisite: FRE 201 or equivalent proficiency.
Continuation of FRE 210.
- 206 Beginning Conversation. Three hours. A.**
Prerequisite: FRE 202 or equivalent proficiency.
Required of all majors and minors. (Waived in case of demonstrable oral proficiency, but not open to native speakers.)
- 303 Introduction to French Literature. Three hours. A.**
Prerequisite: FRE 202 or equivalent proficiency.
Selected readings from masterpieces of French literature with an introduction to the techniques of French literary analysis.
- 305 Medieval Literature. Three hours. A.**
Prerequisite: FRE 303 or equivalent proficiency.
Survey of medieval French literature in modern French translation. Selections from the epic, romance, theatre, lyric poetry, and satire.
- 307 Nineteenth Century Novel. Three hours. A.**
Prerequisite: FRE 303 or equivalent proficiency.
Selected complete novels from such writers as Chateaubriand, Hugo, Balzac, Flaubert, Zola.
- 308 Nineteenth Century Poetry and Drama. Three hours. A.**
Prerequisite: FRE 303 or equivalent proficiency.
Musset, Vigny, Lamartine, Hugo, Baudelaire, Leconte, de Lisle, Verlaine, Rimbaud and Mallarme.
- 311 Age of Classicism. Three hours. A.**
Prerequisite: FRE 303 or equivalent proficiency.
Selected works from such writers as Descartes, Pascal, Corneille, Scarron, Moliere, Racine and La Fontaine.
- 312 Age of Enlightenment. Three hours. A.**
Prerequisite: FRE 303 or equivalent proficiency.
Selected works of Le Sage, Montesquieu, Voltaire, Diderot, Rousseau and Beaumarchais.
- 340 Intermediate Conversation. Three hours. A.**
Prerequisite: FRE 206 or equivalent proficiency.
- 360 Intermediate Grammar and Composition. Three hours. A.**
Prerequisite: FRE 202 or equivalent proficiency.
Writing course designed to teach the composition of themes, essays and letters in the French language.

FRE FRENCH

- 380 Contemporary French Culture. Three hours. A.**
General survey of the development and achievements of the French people with emphasis on contemporary institutions, attitudes, cultural contributions, current problems, and the role of the French in the world of today. Taught in English with an English text. Special conditions for French language majors and minors.
- 411 Modern French Drama and Poetry. Three hours. A.**
Prerequisite: FRE 303 or equivalent proficiency.
Selected works from dramatics and poets of the 20th Century, such as Giraudoux, Sartre, Ionesco, Beckett, Valery, Apollinaire.
- 412 Modern French Novel. Three hours. A.**
Formerly FRE 511.
Prerequisite: FRE 303 or equivalent proficiency.
Extensive readings from the works of modern novelists, such as Proust, Alain-Fournier, Gide, Sartre, Camus, Robbe-Grillet.
- 495 Independent Work in French. One to three hours. I, II.**
Prerequisite: Approval of department.
May be repeated for a maximum of six hours.
- 496 Travel-Study in France. Three hours. A.**
Prerequisite: Approval of department.
May be repeated for a total of six hours.
- 505 Advanced Grammar and Composition. Three hours. I, II.**
Formerly FRE 405.
Prerequisite: FRE 202 or equivalent proficiency.
- 535 Introduction to French Linguistics. Three hours. I, II.**
Formerly FRE 399.
Applied linguistics for the prospective teacher of French.
- 540 Advanced French Conversation. Three hours. A.**
Prerequisite: FRE 340 or equivalent proficiency.
(Not open to native speakers.)
- 550 History of French Language. Three hours. A.**
Formerly FRE 650.
Prerequisite: Approval of department.
Survey of the evolution of the French language from its origins to the present day. Readings in Old French.
- 570 Sixteenth-Century French Literature. Three hours. A.**
Prerequisite: FRE 303 or equivalent proficiency.
Survey of the major works of the Renaissance with emphasis on those of Rabelais, Montaigne and Ronsard.

Graduate Courses

- 610 Bibliography and Research Methods. Three hours. A.**
- 620 Seminar in 17th Century French Literature. Three hours. A.**
May be repeated for a total of six hours, provided subject matter is different.
- 630 Seminar in 19th Century French Literature. Three hours. A.**
May be repeated for a total of six hours provided subject matter is different.
- 635 Seminar in 18th Century French Literature. Three hours. A.**
May be repeated for a total of six hours, provided subject matter is different.

- 640 **Seminar in 20th Century French Literature. Three hours. A.**
May be repeated for a total of six hours, provided subject matter is different.
- 660 **Seminar in Medieval French Literature. Three hours. A.**
May be repeated for a total of six hours, provided subject matter is different.
- 670 **Seminar in 16th Century French Literature. Three hours. A.**
May be repeated for a total of six hours, provided subject matter is different.
- 680 **Special Studies. One to three hours. A.**
Independent study in either language or literature on a subject of special need or interest to the advanced student. May be repeated for a maximum of six hours.
- 681 **Travel-Study Program in France. Three hours. A.**
Prerequisite: Approval of department.
May be repeated for a total of six hours.
- 698 **Thesis I. Three hours. A.**
- 699 **Thesis II. Three hours. A.**

GER GERMAN

- 101 **Elementary German I. Three hours. I, II.**
Introduction to the grammar and structure of German. Emphasis on development of student's ability to translate into English. Practice in pronunciation, reading, writing, and conversation using materials relevant to contemporary experiences. Laboratory attendance required.
- 102 **Elementary German II. Three hours. I, II.**
Prerequisite: GER 101 or equivalent proficiency.
Continuation of GER 101 using more advanced materials.
- 201 **Intermediate German I. Three hours. I, II.**
Prerequisite: GER 102 or equivalent proficiency.
Grammar review. Emphasis on the translation and discussion of literary and other cultural offerings.
- 202 **Intermediate German II. Three hours. I, II.**
Prerequisite: GER 201 or equivalent proficiency.
Continuation of GER 201.
- 203 **Scientific German. Three hours. I, II.**
Prerequisite: GER 201 or equivalent proficiency.
Alternate course for GER 202. Certain selected scientific texts are read with emphasis on translation and grammar. Recommended for science majors.
- 206 **Beginning Conversation. Three hours. I, II.**
Prerequisite: GER 202 or equivalent proficiency.
Required of all majors and minors. (Waived in case of demonstrable oral proficiency, but not open to native speakers.)
- 303 **Introduction to German Literature I. Three hours. I.**
Prerequisite: GER 202 or equivalent proficiency.
Survey of major works of German literature from the beginning to the seventeenth century. Required of all majors and minors.
- 304 **Introduction to German Literature II. Three hours. II.**
Prerequisite: GER 202 or equivalent proficiency.
Survey of German literature from the seventeenth century to the present time. Required of all majors and minors.

GER GERMAN

- 305 Main Themes of German Literature I. Three hours. I.**
Prerequisite: GER 202.
Special attention to dramas which best reflect the main currents in each period. Dramas by Lessing, Goethe, Kleist, Grillparzer, and Hebbel.
- 306 Main Themes of German Literature II. Three hours. II.**
Prerequisite: GER 202.
Continuation of GER 305. Emphasis on the works of Hauptmann, Schnitzler, Kaiser, Brecht, Frisch, Durrenmatt, and Grass.
- 355 Contemporary German Culture. Three hours. A.**
General survey of the development and achievements of the German people with emphasis on contemporary institutions, attitudes, cultural contributions, current problems, and the role of the German in the world of today. Taught in English with an English text. Special conditions for German language majors and minors. Required of all majors and minors.
- 411 Contemporary German Literature. Three hours. A.**
Prerequisite: GER 303-304.
Works of writers such as Grass, Johnson, Boll, Durrenmatt, and Frisch are read and discussed.
- 495 Independent Work in German. One to three hours. I, II.**
Prerequisite: Approval of department.
May be repeated for a maximum of six hours.
- 505 Advanced Grammar and Composition. Three hours. I, II.**
Prerequisite: GER 202 or equivalent proficiency.
Required of all majors and minors.
- 511 Twentieth-Century German Novel. Three hours. A.**
Prerequisite: GER 303 and GER 304 or equivalent proficiency.
In-depth study of one or more of the following novelists: Thomas Mann, Heimito von Doderer, Robert Musil, Hermann Broch.
- 521 Age of Classicism. Three hours. A.**
Survey of the Classical Period with emphasis on the classical works of Goethe and Schiller.
- 531 Survey of German Poetry. Three hours. A.**
Designed to acquaint students with the characteristics of German prosody and to instruct them in the techniques of explication.
- 535 Applied German Linguistics. Three hours. A.**
Prerequisite: Approval of department.
Historical and structural approach to German language and linguistics. Necessary for those who plan to teach the language.
- 540 Advanced Conversation. Three hours. II.**
Prerequisite: GER 206 or equivalent.
Conversation course for seniors or graduate students who need practice in speaking and understanding German.
(Not open to native speakers.)
- 550 Brecht's Drama. Three hours. A.**
Intensive study of works of one man to prepare students for advanced work and research on their own. Emphasis on Brecht's philosophical development as evidenced in his dramas.
- 555 Literature of Baroque Period. Three hours. A.**
In-depth study of the drama and poetry of the period. Among authors included are: M. Opitz, A. Gryphius, D. V. Lohenstein, P. Fleming, P. Gerhardt, F. V. Logau, etc.

GER GERMAN

- 570 Romanticism. Three hours. A.**
A study of its philosophical basis, its themes and forms. Included among the authors are Schlegel, Novalis, Tieck, etc.
- 590 Nineteenth Century German Drama and Prose, (Realism and Naturalism). Three hours. A.**
Study of works of Buchner, Stifter, Hebbel, Keller, Meyer, Fontane, Hauptmann, Sudermann.

GRE GREEK

- 101 Elementary Greek I. Three hours. I.**
Introduction to the grammar of classical Greek and the Koine Greek of the New Testament and to the reading of elementary texts. Recommended for students majoring in languages, ancient history, and Bible.
- 102 Elementary Greek II. Three hours. II.**
Continuation of GRE 101 with more advanced work in grammar and syntax and the reading of Xenophon's Anabasis.

LAT LATIN

- 101 Elementary Latin I. Three hours. I.**
Study of basic inflexions, syntax, pronunciation, and vocabulary necessary for the reading and progressive understanding of the Latin language. Particular attention is given to the relationship of Latin to English and other languages.
- 102 Elementary Latin II. Three hours. I.**
Prerequisite: One unit of high school Latin or LAT 101.
A continuation of the study of the elements of Latin grammar with additional work in translation of selections from Latin writers of appropriate complexity. Some composition included.
- 201 Intermediate Latin I. Three hours. A.**
Prerequisite: Two or three units of high school Latin or LAT 102.
Rapid review of grammar. Selections from such writers as Caesar, Cicero, Nepos, Ovid, Catullus, Horace and Vergil.
- 202 Intermediate Latin II. Three hours. A.**
Prerequisite: Two or three units of high school Latin or the equivalent.
Continuation of LAT 210.
- 301 Selections from Livy. Three hours. A.**
Prerequisite: Three units of high school Latin or equivalent.
Survey of Roman history from the foundations of Rome to the close of the second Punic War; assigned readings from such historians as Mommsen, Heitland, and others; comparative study of Rome and Carthage; critical study of Livy's style.
- 302 Selections from Horace. Three hours. A.**
Prerequisite: Three units of high school Latin or equivalent.
Selected odes, epodes, and satires from Horace; study of Augustan Age from both a literary and political point of view; study of Horace's philosophy; various meters employed by Horace.
- 303 Writing of Latin Prose. Three hours. A.**
Prerequisite: LAT 301 or equivalent proficiency.
Selections from various texts; review of syntax, sight reading.
- 304 Latin Dramatists. Three hours. A.**
Prerequisite: LAT 301 or equivalent proficiency.
Dramas of Plautus, Terence, and Seneca; two plays of Plautus for intensive study; rapid reading and other representative plays.

LAT LATIN

- 401 Latin Prose of Silver Age. Three hours. A.**
Prerequisite: LAT 302 or equivalent proficiency.
Letters of Pliny the Younger; selections from the writings of Tacitus.
- 402 Satire and Epigram. Three hours. A.**
Selected satires of Juvenal; selected epigrams of Martial; development of satire in Latin literature with assignments from Horace; satire in English; epigram as a literary expression.
- 495 Independent Work in Latin. One to three hours. I, II.**
Prerequisite: Approval of department.
May be repeated for a maximum of six hours.
- 503 Latin Literature of Early Empire. Three hours. A.**
Formerly LAT 403.
Prerequisite: LAT 302 or equivalent proficiency.
Selections from a connected and contemporaneous discussion of politics, education, literature, philosophy, social types, and town and country life.
- 504 Latin Literature of Late Republic. Three hours. A.**
Formerly LAT 404.
Prerequisite: LAT 302 or equivalent proficiency.
Selections from the works of Caesar, Sallust, Nepos, and Cicero, with emphasis on Ciceronian prose as a basis of much of the thinking and writing since his day; selections from works of poets of this age, with emphasis on the works of Catullus and Lucretius.
- 505 Roman Private Life. Three hours. A.**
Formerly LAT 405.
Lectures, discussions, and readings on Roman family, home, marriage, education, clothing, food, amusements, travel, religion, town, and country life.

POR PORTUGUESE

- 501 Accelerated Elementary Portuguese I. Three hours. A.**
Prerequisite: Upper-division standing and 202 level or equivalent of another foreign language.
Fundamentals of the Portuguese language.
- 502 Accelerated Elementary Portuguese II. Three hours. A.**
Prerequisite: POR 501 or equivalent proficiency in Portuguese.
Composition, conversation, and reading in Luso-Brazilian studies.
- 595 Independent Work in Portuguese. Three hours. A.**
Prerequisite: POR 501 or equivalent and approval of Department.
Independent study in either language or literature on a subject of special need or interest to the advanced student. May be repeated for a maximum of six hours provided the subject matter is different.

RUS RUSSIAN

- 101 Elementary Russian I. Three hours. I, II.**
Introduction to the grammar and structure of Russian. Emphasis on development of student's ability to translate into English. Practice in pronunciation, reading, writing, and conversation using materials relevant to contemporary experiences. Laboratory attendance required.
- 102 Elementary Russian II. Three hours. I, II.**
Prerequisite: RUS 101 or equivalent proficiency.
Continuation of RUS 101 using more advanced materials.

RUS RUSSIAN

- 201 Intermediate Russian I. Three hours. I, II.**
Prerequisite: RUS 102 or equivalent proficiency.
Grammar review. Emphasis on the translation and discussion of literary and other cultural offerings.
- 202 Intermediate Russian II. Three hours. I, II.**
Prerequisite: RUS 202 or equivalent proficiency.
Continuation of RUS 201.
- 206 Beginning Conversation. Three hours. II.**
Designed to be taken simultaneously with RUS 202, with permission of instructor. One hour of laboratory per week. (Waived in case of demonstrable oral proficiency but not open to native speakers.)
- 302 Survey of Russian Literature I. Three hours. I.**
Prerequisite: RUS 202 or equivalent proficiency.
Selected readings from Pushkin, Gogol, Turgenev, Chekhov, and others. Assigned reading in English or Russian history, culture, and civilization.
- 304 Survey of Russian Literature II. Three hours. II.**
Prerequisite: RUS 202 or equivalent proficiency.
Readings from the time of Tolstoy and Dostoevsky to the present.
- 380 Contemporary Russian Culture. Three hours. A.**
General survey of the development and achievements of the Russian people with emphasis on contemporary institutions, attitudes, cultural contributions, current problems and the role of the Russian in the world of today. Taught in English with an English text. Special conditions for Russian language majors and minors.
- 405 Advanced Composition. Three hours. A.**
Prerequisite: RUS 202 or equivalent proficiency.
Morphology and syntax of Russian grammar. Study of composition and stylistics.
- 495 Independent Work in Russian. One to three hours. I, II.**
Prerequisite: Approval of department.
May be repeated for a maximum of six hours.

SPA SPANISH

- 101 Elementary Spanish I. Three hours. I, II.**
Introduction to the grammar and structure of Spanish. Emphasis on development of student's ability to translate into English. Practice in pronunciation, reading, writing, and conversation using materials relevant to contemporary experiences. Laboratory attendance required.
- 102 Elementary Spanish II. Three hours. I, II.**
Prerequisite: SPA 101 or equivalent proficiency.
Continuation of SPA 101 using more advanced materials.
- 201 Intermediate Spanish I. Three hours. I, II.**
Prerequisite: SPA 102 or equivalent proficiency.
Grammar review. Emphasis on the translation and discussion of literary and other cultural offerings.
- 202 Intermediate Spanish II. Three hours. I, II.**
Prerequisite: SPA 201 or equivalent proficiency.
Continuation of SPA 201.
- 206 Beginning Conversation. Three hours. I, II.**
Prerequisite: SPA 202 or equivalent proficiency.
Required for all majors and minors. (Waived in case of demonstrable oral proficiency but not open to native speakers.)

SPA SPANISH

- 303 Introduction to Spanish Literature I. Three hours. I.**
Prerequisite: SPA 202 or equivalent proficiency.
Middle Ages through the Eighteenth Century. Required of all majors.
- 304 Introduction to Spanish Literature II. Three hours. II.**
Prerequisite: SPA 202 or equivalent proficiency.
Nineteenth and twentieth centuries. Required of all majors.
- 315 Spanish for Law Enforcement. Three hours. A.**
A practical application of Spanish to aid the Law Enforcement student to perform his basic professional duties as an officer in Spanish-speaking communities. Open to students of the College of Law Enforcement only.
- 320 Introduction to Spanish American Literature I. Three hours. A.**
Prerequisite: SPA 202 or equivalent proficiency.
Literature of the Colonial Period and Republics up to 1888.
- 321 Introduction to Spanish American Literature II. Three hours. A.**
Prerequisite: SPA 202 or equivalent proficiency.
Modernism to the present.
- 360 Intermediate Grammar and Composition. Three hours. A.**
Prerequisite: SPA 202 or equivalent proficiency.
Writing course designed to teach the composition of themes, essays and letters in the Spanish language.
- 380 Contemporary Spanish Culture. Three hours. A.**
General survey of the development and achievements of the Spanish peoples with emphasis on contemporary institutions, attitudes, cultural contributions, current problems, and the role of the Spanish in the world of today. Taught in English with an English text. Special conditions for Spanish language majors and minors.
- 381 Contemporary Culture of Latin America. Three hours. A.**
General survey of the Latin American peoples with emphasis on contemporary institutions, attitudes, cultural contributions, current problems and the role of the Latin American republics in the world of today and tomorrow. Taught in English with an English text. Special conditions for language and Ibero-American majors and minors.
- 495 Independent Work in Spanish. One to three hours. I, II.**
Prerequisite: Approval of department.
May be repeated for a maximum of six hours.
- 496 Travel-Study Program in Mexico. Three hours. A.**
Prerequisite: Approval of department.
May be repeated for a total of six hours.
- 505 Advanced Composition. Three hours. A.**
Prerequisite: Senior status or graduate status.
- 507 Spanish Drama. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish Drama from the Middle Ages through the seventeenth century.
- 508 Spanish Drama. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish drama of the eighteenth, nineteenth and twentieth centuries.
- 509 Spanish Prose. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish prose from the Middle Ages through the eighteenth century.

SPA SPANISH

- 510 Spanish Prose. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish prose of the nineteenth and twentieth centuries.
- 511 Spanish Poetry. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish poetry from its beginnings through the seventeenth century.
- 512 Spanish Poetry. Three hours. A.**
Prerequisite: SPA 303 and 304 or equivalent.
Intensive study of Spanish poetry of the eighteenth, nineteenth and twentieth centuries.
- 535 Linguistics. Three hours. A.**
Prerequisite: SPA 303-304 or equivalent.
Introduction to linguistics for the Spanish major.
- 540 Advanced Spanish Conversation. Three hours. A.**
Prerequisite: SPA 206 or equivalent (not open to native speakers).

Graduate Courses

- 610 Bibliography and Research Methods. Three hours. A.**
- 620 Medieval Spanish Literature. Three hours. A.**
- 625 Golden Age Prose. Three hours. A.**
Representative works and authors of the sixteenth and seventeenth centuries with an emphasis on Cervantes.
- 630 Golden Age Drama. Three hours. A.**
Representative works and authors of the sixteenth and seventeenth centuries with an emphasis on Lope, Tirso, Calderon, and Alarcon.
- 635 Nineteenth Century Prose. Three hours. A.**
Representative works and authors with an emphasis on the development of the realistic novel.
- 640 Generation of 1898 and Modernism. Three hours. A.**
Principal writers of Spain and Latin America from 1893 to 1920.
- 645 Contemporary Spanish Literature. Three hours. A.**
Representative figures since 1920 in the various literary genres.
- 650 History of the Spanish Language. Three hours. A.**
Evolution of the Spanish language from its origins to modern Spanish.
- 670 Seminar in Spanish Literature. Three hours. A.**
Special problems in Spanish Literature. May be repeated once for a total of six hours.
- 671 Seminar in Latin American Literature. Three hours. A.**
Special problems in Latin American literature. May be repeated once for a total of six hours.
- 680 Special Studies. One to three hours. A.**
Independent study in either language or literature on a subject of special need or interest to the advanced student. May be repeated for a maximum of six hours.

SPA SPANISH

- 681 Travel-Study Program in Mexico. Three hours. A.**
Prerequisite: Approval of department.
May be repeated for a total of six hours.
- 698 Thesis I. Three hours. A.**
- 699 Thesis II. Three hours. A.**

FLS FOREIGN LANGUAGE STUDIES

Course is designed primarily for students of music. However, students of anthropology, art, business, communications, drama, law enforcement, political science, and the sciences will find course very useful as an aid in their major studies.

- 300 Elements of Foreign Language. Three hours. A.**
Prerequisite: Approval of Department of Foreign Languages and the student's major department.
Structure, pronunciation, and intonation patterns of French, German, Italian, Latin, and Spanish. Two hours per week.

Geography (GEO)

Schwendeman, J. R., Chairman; W. Adams, Kubiak, Lathrop, Monsebroten, Quillen, Walker, J. Schwendeman, Sr., Sebor.

The major goals of the Department of Geography are to provide general geographic information to the state, local, and University communities in both a formal and informal manner; provide the necessary academic background to prospective teachers at various educational levels; and to prepare professional geographers and planners for their role in society. In addition to the courses offered by the department which are directed toward all goals, the last two goals are served through three undergraduate degrees, a **major in geography**, a **teaching major in geography**, and a **degree in Planning and Development**. Teaching and non-teaching minor programs are also available.

Bachelor of Arts Degree Curricula Major in Geography

- MAJOR REQUIREMENTS** 42 hours
GEO 210, 216, 220, 313, 330, 331, 340, 355, 357,
402, 421 or 422, 442, and 553.
- SUPPORTING COURSE REQUIREMENTS** 13 hours
ECO 230, GLY 210, MAT 107, and STA 207.

GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 3 hours additional Social Science, Area III, B2; three hours of Biological Laboratory Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	30 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Geography (Teaching)

MAJOR REQUIREMENTS	29 hours
GEO 210, 216, 220, 330, 331, 345, 402, 421 or 422, and 442.	
SUPPORTING COURSE REQUIREMENTS	30 hours
GLY 108; PSY 211; EDF 102, 202, 317; ESE 449, 498, 499.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, and GSS 247 or HIS 203; three hours additional Social Science, Area III, B1; nine hours of Mathematics and Natural Science, including 3 hours biological laboratory science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
MINOR	21 hours
A 21 hour teaching minor is required.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	129 hours

Minors in Geography

A student may minor in geography by completing a minimum of 18 semester hours (non-teaching,) or 21 semester hours (teaching) as follows: GEO 210, 216, 220, 330 or 331, plus four or seven upper division hours of geography electives, dependent upon type of minor.

Major in Planning and Development

MAJOR REQUIREMENTS	60 hours
GEO 331, 355, 357, 421, 553; ECO 230, 231; POL 101, 370; SOC 131, 332, 360, 565; GLY 390, 491; and PLA 220, plus 12 hours of courses in planning (PLA) to be selected after consultation with advisor.	

SUPPORTING COURSE REQUIREMENTS	9 hours
MAT 107; STA 207, and GLY 108 or 210.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101, 102 or 105; 12 hours of Humanities; GSS 246 or HIS 202, and GSS 247 or HIS 203; 12 hours of Mathematics and Natural Science including 6 hours of laboratory science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	10 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Graduate Programs

The Department of Geography offers two advanced degree programs in geography; Master of Arts with thesis, and Master of Arts without thesis. In addition, the Master of Arts in Education Degree with an emphasis in geography is offered in the College of Education with the cooperation of the Department of Geography. The regulations for the degree may be found in the College of Education section of the Graduate Catalog.

Course Descriptions

PLA PLANNING

- 220 Introduction to Planning. Three hours. I.**
Introduction to urban, regional, state, and national planning; including concepts, techniques, vocabulary, and controlling factors.
- 221 Urban Design. Three hours. II.**
Introduction to the study of the relationship between man and his environment, with an emphasis on development of design, on understanding of the design process, and on space-time considerations.
- 324 Human Resources Planning. Three hours. A.**
Introduction to coordinated planning for social and/or human resource at the local, regional, state, and national levels. Consideration will be given to the various demographic sectors such as minority and age groups as well as to health, labor, and economic problems.
- 334 Transportation Planning. Three hours. A.**
Principles of transportation planning, with emphasis on transportation and land-use relationships, data gathering, planning techniques, and examination of transportation problems and trends.
- 362 Legal Aspects of Planning. Three hours. II.**
Planning legislation, procedures, client contracts, organization of planning on the municipal, county, state, national, private, and corporate level.
- 490 Planning Seminar. Three hours. A.**
Prerequisite: Approval of department.
Selected topics. Students may take this course for a maximum of six credit hours.
- 498 Independent Study. Three hours. I, II, S.**
Prerequisite: Approval of department.
Independent study topic in specific aspects of planning. Orientation of work must be approved by advisor prior to registration.

GEO GEOGRAPHY*

- 101 Principles of Geography I. Three hours. I, II, S.**
Systematic study of man's physical environment, emphasizing the spatial organization of physical phenomena, their interrelationships, and their relationship with man.
- 102 Principles of Geography II. Three hours. I, II, S.**
Systematic study of the earth's spatial occupancy by man and the man-influenced environment, with emphasis on population, settlement patterns, economic activities, and trade.
- 210 Physical Geography. Four hours. I.**
Intensive study of space relations, maps and mapping, weather and climate, soils, vegetation, and resources. Required of all departmental majors. Three hours lecture and two hours laboratory.
- 216 Introduction to Weather and Climate. Four hours. II.**
Prerequisite: GEO 101 or approval of department.
Elements of weather and climate, methods of climate classification, distribution and characteristics of climate types. Three hours lecture and two hours laboratory.
- 220 Cultural Geography. Three hours. II.**
Introduction to basic concepts of cultural geography, emphasis on analysis of various culture elements and reasons for their regional character and variations.
- 300 Geography: _____ One to nine hours. A.**
Designed for undergraduate institute participants. Content will be developed to adequately serve the aims of the Institute, and the specific orientation will appear in parenthesis behind the course title; that is, Earth Science, Regional, Education, etc. Designated semester hours which can be earned will also be specified for a given institute.
- 301 Aviation Meteorology. Three hours. A.**
Study of the elements of weather, air masses, stability, fronts, upper air characteristics, flight hazards and combative procedures. Analysis and understanding of Weather Bureau information for flight planning and cross sectional diagramming. Designed primarily for those interested in aviation as a career or as a valuable aid in another profession.
- 303 Orienteering and Navigation. Three hours. A.**
Principles, equipment, and techniques of land and air navigation. The first phase of the course presents the basic principles, equipment, and techniques common to all forms of navigation, the second phase is directed toward "back country", on-foot, land navigation, (referred to as ORIENTEERING), and the last phase is devoted to basic air navigation. One hour lecture and four hours laboratory/field exercises.
- 313 Geomorphology. Four hours. I.**
Prerequisite: Approval of department.
Study of the surface features of the earth, their form nature, origin, and stage of development, including interpretation of topographic maps and aerial photographs. Three hours lecture and two hours laboratory.
- 330 Economic Geography I. Three hours. I.**
Description and analysis of the world pattern of major resources with consideration to their origin, development, and use. Major emphasis is on the primary activities of agriculture, forestry, fishing, and mining, and their regional variations and characteristics.

*Approval of department in lieu of prerequisite is dependent upon an equivalent background.

GEO GEOGRAPHY

- 331 Economic Geography II. Three hours. II.**
Description and analysis of secondary and tertiary economic systems and functions. Major topics are related to origin, development, transportation, and distribution of goods and services, manufacturing, trade centers, and area-economic organization, supplemented with case studies.
- 340 Approach to Regional Geography. Three hours. I.**
Techniques of approach in regional studies, including micro and macro areas, along with case studies.
- 345 Regions and Nations of the World. Three hours. I, II.**
Formerly GEO 345 and GEO 346.
Survey of the importance, geographic characteristics, and the major problems of the world's regions.
- 347 Regional Geography: _____ Three hours. A.**
Physical, cultural, and economic geography of a selected region, with emphasis on areas of current concern. May be repeated for a total of 12 hours providing the subject matter is different. In addition to SPECIAL REGIONS, a specific regional offering may be directed toward one of the following: AFRICA, ASIA, LATIN AMERICA, EUROPE.
- 355 Cartography. Three hours. I.**
Map drafting, design, compilation, and reproduction utilizing a variety of techniques and materials, and including instruction on the preparation of base and land use maps from aerial photographs.
- 357 Research and Writing in Geography. Three hours. I.**
Data sources, techniques and methods of data collection, basic data analysis, and written presentation of geographic research.
- 358 Mapping Techniques. Two hours. I.**
Techniques of field mapping including the use of the telescopic alidade and plane table. Emphasis is given to practical application and to instrument familiarization. One hour lecture, two hours laboratory.
- 402 Conservation, Technology, and Environmental Problems. Three hours. I, II, S.**
Examination of environmental problems, their relationship to technology, and the application of principles of conservation.
- 421 Urban Geography. Three hours. II.**
Study of city function, patterns, and past and current problems confronting the city, including the problems of planning, zoning, community housing, shopping centers, and urban renewal.
- 422 Political Geography. Three hours. I.**
Study of the development of political geography and geopolitics, conditions influencing political structures through time, with special attention to areas of current major international concern.
- 440 Geography of Kentucky. Three hours. I, S.**
Study of the physical, cultural, and economic characteristics of the state and their regional organization, including the examination of current problems and future development.
- 441 Geography of the South. Two hours. II, alternate summers.**
Study of the physical, cultural, and economic geography of South-eastern United States with special emphasis on physical and human resources, current problems of this region, and the future of this region.

GEO GEOGRAPHY

- 442 Geography of Anglo-America. Three hours. I.**
Study of the physical, cultural, and economic geography of Anglo-America. Special emphasis placed on current problems and the future of this region.
- 498 Independent Study. Three hours. I, II, S.**
Prerequisite: Department major with a senior standing.
Research topic to be selected in counsel with student's advisor prior to enrollment.
- 500 Geography: _____. One to nine hours. A.**
Designed for undergraduate and graduate institute participants. Course content will be developed to adequately serve the aims of the Institute, and the specific orientation will appear in parenthesis behind the course title; that is, Earth Science, Regional, Education, etc. Designated semester hours which can be earned will also be specified for a given institute.
- 510 Advanced Physical Geography: _____. Three hours. A.**
Prerequisite: Approval of department.
In-depth study of the physical environment with emphasis on the spatial interaction between the physical and cultural environments. Special orientations may include; regional geomorphology, climatology and environmental impact studies. May be repeated for a maximum of six hours if subject matter is different each time.
- 520 Advanced Cultural Geography: _____. Three hours. A.**
Prerequisite: Approval of department.
In-depth study of cultural-geographic themes with emphasis upon the spatial interaction of the physical and cultural environments. Special topics may include culture and technology, settlement, agriculture, and environmental perception. May be repeated for a maximum of six hours if subject matter is different each time.
- 530 Advanced Economic Geography: _____. Three hours. A.**
Prerequisite: GEO 330 and 331, or approval of department.
Distribution and characteristics of various kinds of economic systems, and cultural and physical bases accounting for economic differentiation. Included are origin, development, and transformation of systems, comparative advantages and techniques for independent analysis. May be repeated for a maximum of six hours if subject matter is different each time.
- 546 Regional Geography: _____. Three hours. A.**
Intensive study of a selected area of less than continental size offered upon demand and by an instructor who has done research in the selected region, or by a visiting lecturer. May be taken for a maximum of six hours if subject matter is different each time.
- 553 Quantitative Applications in Research. Three hours. I.**
Prerequisite: Approval of department.
Study of data type normally encountered in social and earth science research, valid sampling techniques in regard to development of this data, analysis of samples by appropriate statistical methods, testing for validity and significance, and conclusion drawing. Two hours lecture and two hours laboratory.
- 555 Advanced Cartography. Three hours. A.**
Prerequisite: GEO 355 or approval of department.
Advanced techniques of cartographic presentation of data and use of aerial photographs in map construction. One hour lecture and four hours laboratory.

GEO GEOGRAPHY

- 556 Remote Sensing. Three hours. Summer Field Camp.**
Prerequisite: Approval of department.
Mechanics and limitations inherent to remote sensing imagery, and the interpretation and use of this data in geographic research.

Graduate Courses

- 600 Geography: _____ One to nine hours. A.**
A geography course designed for graduate institute participants. Course content will be developed to adequately serve the aims of the Institute. The specific orientation will appear in parentheses behind the course title, that is, Earth Science, Regional, Education, etc. The designated semester hours which can be earned will also be specified for a given institute.
- 610 Seminar in Physical Geography: _____ Three hours. A.**
Prerequisite: Approval of department.
Seminar in some aspect of physical geography dictated by student interest, faculty specialty, or current problems in the field. May be repeated for a maximum of six hours if subject matter is different each time.
- 620 Seminar in Cultural Geography: _____ Three hours. A.**
Prerequisite: Approval of department.
Discussion of cultural geography with emphasis upon current theory, research, trends, applications, or schools of cultural-geographic thought. Specific orientation will be determined by faculty specialty and student interest. May be repeated for a maximum of six hours if subject matter is different each time.
- 621 Seminar in Planning: _____ Three hours. A.**
Prerequisite: Approval of department.
In-depth study of urban or regional planning, such as functional zoning of cities and underdeveloped areas. May be repeated for a maximum of six hours if subject matter is different each time.
- 630 Seminar in Economic Geography: _____ Three hours. A.**
Prerequisite: Approval of department.
Discussion of economic geography with emphasis on locational aspects of economic activities. Specific orientation will be determined by faculty specialty and student interest. May be repeated for a maximum of six hours if subject matter is different each time.
- 650 Field and Research Methods in Geography. Three hours. Summer Field Camp.**
Detailed reconnaissance field work, including classification of natural and cultural features, interview procedures, preparation of geographical reports and maps based on field data. Library facilities and research are also included.
- 651 Seminar in History and Philosophy of Geography. Three hours. I.**
Prerequisite: Approval of department.
Discussion of the history and development of geographic thought, various schools of geography, philosophies in geography, current and future trends.
- 653 Theory and Models in Geography. Three hours. A.**
Prerequisite: Approval of department.
Survey and evaluation of current theories and models of geographic and planning significance, including the preparation of research designs having practical applications.

GEO GEOGRAPHY

- 697 Special Studies in Geography. Three hours. I, II, S.**
Prerequisite: Approval of department.
Directed work in geography. Students must have topics selected and approved by the appropriate faculty member prior to enrollment.
- 698 Research. Three hours. I, II, S.**
Prerequisite: Approval of department.
Semi-directed research on selected topics. Students must have topics selected and approved by the appropriate faculty member prior to enrollment.
- 699 Thesis. Three hours. I, II, S.**
May be repeated for a maximum of six hours.

Geology (GLY)

Haney, D., Chairman; Deal, Helfrich, Hester, Hoge, Leung, Smith, Wigley.

The Department of Geology offers curricula leading to the Bachelor of Arts Degree in Geology, the Bachelor of Science Degree in Geology and Earth Science and the Associate of Arts Degree in Geological Engineering. The geology and geological engineering programs are directed toward students pursuing geology as a non-teaching profession.

Bachelor of Arts Degree Curricula Major in Geology

MAJOR REQUIREMENTS	30 hours
GLY 108 or 210, 109 or 211, 310 and 20 hours of approved geology courses numbered 300 and above.	
SUPPORTING COURSE REQUIREMENTS	19-22 hours
MAT 107 or 109; CHE 101 or 111; PHY 101 or GSC 171; BIO 162 or 141 or GSC 101 and two semesters of foreign language.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 additional hours Social Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	33-36 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Bachelor of Science Degree Curricula Major in Geology

MAJOR REQUIREMENTS	33-36 hours
GLY 210, 211, 310, 312, 351, 410, 411 and three courses from 311, 412, 513, 530, 532, 533.	
SUPPORTING COURSE REQUIREMENTS	39-40 hours
BIO 141; CHE 111, 112; MAT 107, 108 or 109, 111, 112*; PHY 131, 132; GEO 355. Geology field camp is recommended.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	9-13 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Geology

A student may minor in geology by completing a minimum of 18 (21 for teacher certification) semester hours as follows: GLY 210, 211, 310, 410, 411 and GLY elective.

Major in Earth Science (Teaching)

MAJOR REQUIREMENTS	30 hours
GLY 210, 211, 310, 351, 411, 414; GEO 210, 216, and an astronomy course.	
SUPPORTING COURSE REQUIREMENTS	45 hours
BIO 141; CHE 101 or 111, 102 or 112; MAT 107, 108; PSY 211; EDF 102, 202, 317; ESE 451, 498, 499.	
GENERAL EDUCATION REQUIREMENTS	43 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
MINOR REQUIREMENTS	21 hours
A 21 hour teaching minor is required.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	133 hours**

*MAT 112 may be replaced by statistics or computer courses with departmental approval.

**A minor in chemistry or mathematics is required to stay within the 133 hour total.

Minor in Earth Science (Teaching)

A student may minor in earth science by completing a minimum of 21 semester hours as follows:

GLY 210, 211, 310, 351, 390. Geography 216 and an astronomy course. One year of chemistry and/or physics and one year mathematics (none below the level of college algebra) are required. An earth science minor is not recommended for non-teaching majors. For secondary certification, the minor in earth science must be taken in conjunction with a major or minor in another science or mathematics.

Associate of Arts Degree Curriculum Geological Engineering Technician

The Department of Geology offers a two-year program in the area of geological engineering for the purpose of training engineering assistants. A graduate of this program would be qualified to seek employment with state highway departments, civil engineers, geological engineers, mining and construction companies.

FRESHMAN YEAR	33 hours
GSE 101, 102 or 105; GSO 100; MAT 107, 108; GLY 207, 210; CHE 101; ECO 230; MIL 101, 102 (or options for men, electives for women); 2 hours free electives.	
SOPHOMORE YEAR	34 hours
GLY 106, 206, 306, 351, 491; GEO 355; INT 191, 201; MIL 201, 202 (or options for men, electives for women); 3 hours general education; 3 hours elective.	
TOTAL CURRICULUM REQUIREMENTS	67 hours

Graduate Programs

The Department of Geology offers the Master of Science Degree in Geology.

The Master of Arts in Education Degree with emphasis in Earth Science is offered in the College of Education with the cooperation of the Department of Geology. The Department of Geology cooperates with the other science departments and the College of Education in offering the Master of Arts Degree in Education with emphasis in general science. Regulations for these degrees may be found in the College of Education section of the Graduate Catalog.

Course Descriptions

GLY GEOLOGY

- 106 Plane Surveying. Three hours. A.**
Prerequisite: MAT 108 or approval of department.
Basic principles of surveying including techniques, field methods and practice. Introduction to use and care of general surveying instruments. Two lecture and three laboratory hours.

GLY GEOLOGY

- 08 Principles of Geology. Three hours. I, II, S.**
General geology including the study of common minerals and rocks and geologic processes. Designed primarily for non-science majors. Two lecture and two laboratory hours. (Credit not allowed for both GLY 108 and 210).
- 09 Principles of Historical Geology. Three hours. I, II, S.**
Chronologic history of the earth and its inhabitants. Designed primarily for non-science majors. Two lecture and two laboratory hours. (Credit not allowed for both GLY 109 and 211.)
- 06 Construction Techniques. Three hours. A.**
Prerequisite: Approval of department.
Study of the relationship of geology and civil engineering to construction of buildings, dams, highways, airfields and other projects. Three lecture hours.
- 07 Engineering Geology. Three hours. I.**
Prerequisite: Pre-engineering majors.
Physical geology related to engineering problems; including structural geology, groundwater, solid study, rock and mineral identification, and geologic and topographic map interpretation. Two lecture and two laboratory hours plus field trips.
- 10 Physical Geology. Four hours. I, II.**
Fundamental composition and structure of the earth, rocks and minerals, and landform origins and modifying agents. Three lecture and two laboratory hours, plus field trips.
- 11 Historical Geology. Three hours. II.**
Prerequisite: GLY 210 or approval of department.
Principles of the interpretation of earth history. Evolution of continents, mountain systems and oceans, and the development of the earth's animals and plants. Two lecture and two laboratory hours.
- 00 Geology: _____ . One to nine hours. A.**
Designed for undergraduate institute participants. Course content will be developed to adequately serve the aims of the institute. The specific orientation will appear in parentheses behind the course title; that is, Earth Science, Physical Geology, Education Geology, etc. The designated semester hours which can be earned will also be specified for a given institute.
- 02 Earth Science. Three hours. I, II, S.**
Solar system and the heavenly bodies, their motions and laws which control them, atmosphere and weather, atmospheric motions and their effects, climatic elements and controls, structure and surface forms of the earth, flora, fauna and resources.
- 06 Laboratory Tests and Materials. Three hours. A.**
Prerequisite: Approval of department.
Introduction to testing of materials. Consideration given to soil mechanics, rock mechanics, geological surveys, slope stability and concrete design. Two lecture and three laboratory hours.
- 10 Mineralogy. Four hours. I.**
Prerequisite: GLY 210, CHE 111.
Mineral classes and occurrences, principals of crystallography, and techniques of mineral identification. Two lecture and four laboratory hours.

GLY GEOLOGY

- 311 Optical Mineralogy and Petrography. Four hours. II.**
Prerequisite: GLY 310.
Identification of non-opaque minerals by immersion methods using petrographic microscopes. Two lecture and four laboratory hours.
- 312 Petrology. Three hours. I.**
Prerequisite: GLY 310.
Origin and nature of igneous, sedimentary, and metamorphic rocks. Important rock types are studied and classified by standard identification techniques. Two lecture and two laboratory hours.
- 351 Field Geology. Three hours. I or II.**
Prerequisite: GLY 108 or 210.
Field techniques, plane table surveying, description and measurement of stratigraphic section; fundamental geologic mapping. One lecture and four hours in the field (Saturdays).
- 390 Environmental Geology. Three hours. I, II, S.**
Discussion of the natural and man made people hazards resulting from geologic processes. Designed for non-science majors.
- 398 Independent Studies in Geology. One to six hours. I, II, S.**
Prerequisite: Approval of department.
Course topic determined by student and instructor. May be repeated for a total of six hours.
- 408 Advanced Principles of Geology. Three hours.A.**
Prerequisite: GLY 108, 109 or approval of department.
In-depth study of the geological processes affecting the crust of the earth. Special consideration is given to rocks, minerals, earth structures and landform origins and modifying agents.
- 410 Structural Geology. Three hours. I.**
Prerequisite: GLY 210, 211, MAT 109 or approval of department.
Architecture of the earth. Properties and behavior of rocks under different geologic conditions, geologic structure, and solution of structural problems are studied. Two lecture and two laboratory hours plus field trips.
- 411 Introduction to Invertebrate Paleontology. Four hours. I.**
Prerequisite: GLY 211, BIO 141 or approval of department.
Morphology, distribution in time and space, evolution and paleocology of fossil invertebrates. Two lecture and four laboratory hours.
- 412 Stratigraphy and Sedimentation. Three hours. II.**
Prerequisite: GLY 211.
Principles of stratigraphy and sedimentation illustrated with reference to the geologic columns on a world-wide basis. Two lecture and two laboratory hours.
- 414 Geology of Soils. Three hours. A.**
Prerequisite: CHE 111 or approval of department.
Chemical and physical characteristics of soils and soil morphology. Special attention is given to ion exchange, texture, water, and permeability.
- 430 Economic Geology. Three hours. II.**
Prerequisite: GLY 310, 410.
Formation of mineral deposits and their distribution within the earth's crust. Two lecture and two laboratory hours.

GLY GEOLOGY

- 491 Land-use Geology. Three hours. II.**
Prerequisite: GLY 108 or equivalent.
Implications of structural geology in land and community development. Specific topics will relate to the problems geologists and planners encounter in the provinces of North America. Such investigations will likewise be applicable to various areas of the world. Two lecture and three laboratory hours.
- 500 Geology: _____ One to nine hours. A.**
Designed for undergraduate and graduate institute participants. Course content will be developed to adequately serve the aims of the institute. The specific orientation will appear in parenthesis behind the course title, that is, Earth Science, Physical Geology, Educational Geology. Designated semester hours which can be earned will be specified for a given institute.
- 501 Physical Geology for Junior High School Teacher. Three or four hours. A.**
Fundamental composition and structure of the earth, rocks, minerals, landform origins and modifying agents. Designed for the junior high school teacher with special emphasis on laboratory techniques.
- 510 Advanced Structural Geology. Three hours. A.**
Prerequisite: GLY 410 or approval of department.
Advanced study of the architecture of the earth. Structures of mountains, regionally and world-wide, and mechanisms of deformation are considered in detail.
- 511 Advanced Paleontology. Three hours. A.**
Prerequisite: GLY 411 or approval of department.
Study of taxonomy, biostratigraphy, and paleocology of fossils. Emphasis placed on foraminifera, brachiopods, mollusks, ostracodes, and conodonts. Two lectures and two laboratory hours plus field trips.
- 512 Sedimentology. Four hours. A.**
Prerequisite: GLY 411 or approval of department.
Study of sediments. Physical condition of deposition, time of formation of deposits, and provenance emphasized. Size, shape, and composition of sediments analyzed statistically. Two lecture and four laboratory hours.
- 513 X-ray Diffraction and Spectroscopy. Three hours. A.**
Formerly GLY 313.
Prerequisite: PHY 131, 132, GLY 310, or approval of department.
Principles of X-ray Diffraction as a tool for analysis of crystalline substances. Special attention given to mineral identification, analysis of mineral structures, and elemental analysis by X-ray diffraction and emission.
- 530 Geophysical Exploration. Four hours. A.**
Formerly GLY 630.
Prerequisite: Approval of department.
Principles and techniques of gravimetric, seismic, magnetic, and other geophysical methods of exploration for petroleum and economic minerals. Three lecture and two laboratory hours.
- 531 Coal Geology. Three hours. A.**
Prerequisite: GLY 412 or consent of instructor.
Origin and distribution of coal-bearing sediments with emphasis on sedimentological and geochemical techniques used in exploration and production of coal from surface and subsurface mining.

GLY GEOLOGY

- 532 Geology of Fuels. Four hours. A.**
Prerequisite: GLY 430.
Origin, occurrences, and uses of natural fuels. Three lecture and two laboratory hours, plus field trips as deemed appropriate.
- 533 Industrial Minerals. Four hours. A.**
Prerequisite: GLY 430.
Origin, occurrences, and uses of industrial rocks and minerals. Three lecture and two laboratory hours.
- 560 Geochemistry. Four hours. A.**
Prerequisites: CHE 112 and GLY 310 or approval of department.
Principles of the distribution of the elements in the earth's crust. Phase equilibria pertinent to geologic problems. Major methods of geochemical analysis and exploration. Introduction to isotopes and their uses in geochronology. Three lectures and two laboratory hours.
- 570 Volcanology. Two hours. A.**
Prerequisite: Approval of instructor.
Analysis of extrusive and intrusive processes. Characteristics of lava flows, pyroclastic rocks, and volcanoes considered in detail. Two lecture hours.
- 598 Geoscience Instrumentation. One hour. A.**
Prerequisite: Approval of instructor.
A short course in geoscience instrumentation for analyses of special geological materials. Topic of discussion will be designated each time the course is offered. May be repeated for a total of three hours provided subject matter is different each time.

Graduate Courses

- 600 Geology: _____ One to nine hours. A.**
Designed for graduate institute participants. Content will be developed to serve the aims of the institute. Specific orientation will appear in parenthesis behind the course title, that is, Earth Science, Physical Geology, Education Geology. Designated semester hours which can be earned will also be specified for a given institute.
- 601 Historical Geology for Junior High School Teacher. Three or four hours. A.**
Study of the geological history of the earth. Evolution of continents, mountain systems, and oceans, and the development of the earth's animals and plants. Designed for the junior high school teacher with special emphasis on laboratory techniques and field studies.
- 610 Geotectonics. Three hours. A.**
Prerequisite: Approval of department.
Topic selected by students and instructor in the area of structural geology.
- 612 Clay Mineralogy. Four hours. A.**
Prerequisite: GLY 313 or approval of department.
Structure, origin, occurrence, and use of clay minerals. X-ray diffraction techniques and differential thermal analysis will be used to identify clay minerals. Two lecture and four laboratory hours.
- 622 Igneous and Metamorphic Petrology. Four hours. A.**
Prerequisites: GLY 311 and 312.
Origin, occurrences and composition of igneous and metamorphic rocks. Emphasis on Precambrian batholiths and associated rocks. Three lecture and two laboratory hours.

- 523 Sedimentary Petrology. Three hours. A.**
Prerequisites: GLY 311 and 312.
Origin, occurrences, and composition of sedimentary rocks. Two lecture and two laboratory hours.
- 524 Carbonate Petrology. Four hours. A.**
Prerequisite: Approval of department.
Study of the composition, mode and environment of deposition and diagenetic history of carbonate rocks with an emphasis on microscopic interpretation. Two hours of lecture and four hours of laboratory.
- 580 Seminar: _____ One to four hours. A.**
Prerequisite: Approval of department.
Designed to fit specialized needs of individual students. May be taken in stratigraphy, paleontology, mineralogy, petrology, geomorphology, or structural geology. May be repeated for a maximum of four hours.
- 598 Special Problems in Geology. One to six hours. I, II, S.**
Prerequisite: Approval of department.
Course topic to be determined by student and instructor. May be repeated for a total of six hours.
- 599 Thesis. Three to six hours.**

History (HIS)

Robinson, G. W., Chairman; K. Algier, W. Berge, Coe, N. Forderhase, R. Forderhase, Graybar, Keen, C. Lewis, Mutersbaugh, Odum, O'Neill, R. Stebbins, Tsao.

A major in history prepares a student for a wide variety of careers including civil service, social work, law, journalism, politics, radio, television, and advanced graduate study leading to college teaching or library work. In addition, businessmen indicate that they frequently give strong consideration to history majors for executive positions.

Combined with a teaching certificate, a major in history provides an excellent basis for teaching social studies on the secondary level, or pursuing advanced teaching degrees.

Graduating high school seniors interested in the relationship between ideas and events, curious why certain things happen, and concerned with human achievements through the years, should consider history as a major area of study.

Bachelor of Arts Degree Curricula Major in History

MAJOR REQUIREMENTS **30 hours**

HIS 202, 203, 448, 449, nine hours elective in
U.S. history and nine hours elective in non-U.S. history.

SUPPORTING COURSE REQUIREMENTS	0 hours
At least three hours of one foreign language is strongly recommended. Students who plan to pursue a graduate degree are strongly encouraged to take at least six hours of a foreign language.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101 and 102 or 105; 12 hours Humanities; GSS 246, 247, six hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	45 hours
TOTAL CURRICULUM REQUIREMENTS	130 hours

Major in History (Teaching)

To revise the above program for teacher certification in history the student would take the following professional education courses;

PSY 211; EDF 102, 202, 317; ESE 449, 498, 499 **26 hours**

Minors in History

A student who majors in history may minor in a related discipline if he desires. If not he will elect supporting courses drawn from related disciplines.

Students majoring in other disciplines may minor in history by completing the following courses: HIS 202, 203, GSS 246, 247, six hours upper division U.S. history electives and six hours upper division non-U.S. history electives.

Second Majors in History

A student may complete a second major in history by completing the major requirements listed above.

Graduate Programs

The Department of History offers two advanced degree programs: Master of Arts with thesis and Master of Arts without thesis, and cooperates with the College of Education in offering course work for a Master of Arts in Education (Secondary Education-History).

Candidates for the Master of Arts with thesis are required to prepare in one of three major fields, American or European or Latin American History, plus a minor field for a total of 30 hours. Degree requirements include, in addition, successful completion of the following: (1) Graduate Record Examination, (2) a foreign language examination, (3) a comprehensive written examination over the major field, (4) a thesis, and (5) an oral defense of the thesis.

Candidates for the Master of Arts without thesis are required to prepare in one of three major fields, American or European or Latin American History plus one minor field and must complete 30 hours altogether. Degree requirements include, in addition, successful completion of the following: (1) Graduate Record Examination, (2) comprehensive written examinations over the major field, and (3) oral examination of the candidate's mastery of historical knowledge.

The Master of Arts in Education Degree with an emphasis in history is offered in the College of Education with the cooperation of the Department of History. The regulations for the degree may be found in the College of Education section of the Graduate Catalog.

See the Graduate Bulletin for additional information concerning the M.A. programs in history.

Course Descriptions

HIS HISTORY

202 American Civilization to 1877. Three hours. I, II.
Patterns of discovery, exploration, conquest and colonization by European peoples; relationship between European and frontier culture; revolution; establishment of government and development of nationalism; sectionalism; Civil War and Reconstruction. Required of all majors and minors in history.

203 American Civilization since 1877. Three hours. I, II.
Rise of industrialism; problems of the American farmer; social and cultural advance; the last American frontier; American imperialism; World Wars; Progressive movement and New Deal; America as a great power since World War II. Required of all majors and minors in history.

300 Topics in History. Three hours. A.
Movements in history that have influenced and continue to influence the course of culture and civilization.

301 Introduction to Museology. Three hours. A.
Credit does not apply towards a major or minor in history.
History and management of museums; equipment; acquisitions; data and documents; research; preservation and care of collections; exhibitions; relations with the public; cultural and educational activities; practical experience in museum work.

302 Health Care Through the Ages. Three hours. A.
A survey of the approaches to illness and treatment taken by various societies from primitive times to the present.

303 Women in American History. Three hours. A.
Social, economic and cultural role of women in America. Women's work; social position and status; Women in reform movements; feminism and the suffrage movement; the new feminism.

305 Afro-American in U.S. History. Three hours. A.
African heritage; middle passage; the peculiar institution; the Negro and the Civil War; reconstruction; the strange career of Jim Crow; modern emancipation; black nationalism.

307 Twentieth Century Black Africa. Three hours. A.
General social, economic and political history of Africa south of the Sahara beginning with colonial division following the 1885 Congress of Berlin. Focus on growth and national independence.

HIS HISTORY

- 310** **Revolutions and Western Culture. Three hours. A.**
Survey of the major revolutionary movements in the West since 1600 with particular emphasis on causes and effects and with an analysis of the revolutionary potential of our times.
- 336** **Greco-Roman Civilization. Three hours. A.**
Formerly HIS 535 and HIS 536.
Origins of Greek society and culture; rise of the city-states; the Golden Age; Alexander and the Hellenistic world; the emergence of the Roman Republic; growth of the Empire; the Augustan principate; the later Empire; the decline of the Empire in the West.
- 339** **Medieval Civilization. Three hours. A.**
Survey of Western Byzantine, and Saracenic cultures from the breakdown of the Roman Empire to the emergence of modern national states.
- 340** **European History from 1300 to 1815. Three hours. A.**
Renaissance and Reformation; rise of the national state and royal absolutism; decline of manorialism; rise of capitalism and mercantile system; British revolutions of the seventeenth century; international rivalries; age of reason and enlightened despotism; French Revolution and Napoleon.
- 345** **English History to 1603. Three hours. I.**
Roman Britain; Anglo-Saxon Civilization; Normans and Angevins; Norman Feudalism; growth of royal power; English Common Law; baronial opposition to the Crown; rise of Parliament; medieval government and administration; Hundred Years' War; York vs. Lancaster; transition from medievalism; Tudor Monarchy; Reformation; Parliamentary progress; Elizabethan Age.
- 346** **English History from 1603 to present. Three hours. II.**
Early Stuarts and national crisis; Civil War and Interregnum; later Stuarts; Imperial expansion and intellectual ferment; Hanoverian Era; Parliamentary and Cabinet government; beginnings of industrialization; impact of French Revolution and Napoleonic Wars; Age of Reform; Victorian Liberalism and culture; Industrialization; two World Wars and after.
- 347** **Recent and Current World History, 1914 to present. Three hours. A.**
World War I; peace settlement of 1919; problems of security; war debts and reparations; disintegration of peace settlement; World War II; the Cold War.
- 363** **History of Russia. Three hours. A.**
Formerly HIS 360 and HIS 361.
Formative period of Slavic states. Social and economic forces leading to autocracy. Growth of revolutionary thought and action to Revolution of 1917. Serfdom, agrarian reforms, industrialization, literature, art and science.
- 364** **History of Russian-American Relations. Three hours. A.**
Formerly HIS 564.
Origin of Russian-American relations during the Colonial Period. Development of commercial relations and beginning of Russian-American diplomacy with Imperial Russia. Evolution of Soviet-American relations during the 20th century.
- 374** **Far Eastern History. Three hours. A.**
Formerly HIS 370 and HIS 371.
Survey of China and Japan from ancient times to present. Attention given to major political, economic, social, and intellectual developments and the impact of the West.

HIS HISTORY

- 383 Latin American History. Three hours. A.**
Formerly HIS 380 and HIS 381.
Topical approach emphasizing politics, religion, social institutions, economic developments and intellectual life from pre-Columbian time to the present.
- *398 Ideological Foundations of Western Civilization. Three hours. I, II. CL PHI 398.**
Not applicable as history elective.
Introduction to basic concepts in the ideological heritage of the Western World through the Enlightenment. Readings consist largely of selections from great books and documents in religion, science, economics, political theory, and philosophy.
- *399 Ideological Foundations of Western Civilization. Three hours. I, II. CL PHI 399.**
Not applicable as history elective.
Introduction to basic concepts in the ideological heritage of the Western World from the Romantic Era to the present. Readings consist largely of selections from great books and documents in religion, science, economics, political theory, and philosophy.
- 401 American Colonial Period. Three hours. A.**
Political and social history of the thirteen colonies and their neighbors; European background, settlement, westward expansion; inter-colonial conflicts; beginnings of culture; colonial opposition to imperial authority.
- 405 America's Westward Expansion. Three hours. A.**
Colonial frontier; conflicts of Empire; trans-mountain movements; Ohio-Mississippi valleys; Indian problems; Manifest Destiny; the West and the sectional struggle; trans-Mississippi frontier of mining, railroads, cattle, and agriculture; West versus East.
- 406 South in American History. Three hours. A.**
Colonial developments in society and politics; origins of sectional consciousness; institutions of Negro slavery and plantation system; southern ideas and ideals; Civil War and Reconstruction; modern South.
- 410 Gilded Age, 1877-1898. Three hours. A.**
America's industrial expansion; rise of labor unions; the farm protest; political bossism.
- 413 United States and World Responsibility, 1945-Present. Three hours. A.**
Problems of post-war adjustment; the cold war; the affluent society; problems inherent in world leadership.
- 433 American Diplomatic History. Three hours. A.**
American foreign relations from 1776 to present, emphasis on development of major trends such as isolation, imperialism, and internationalism.
- 447 Europe from 1815 to 1914. Three hours. A.**
Formerly HIS 445 and HIS 446.
Congress of Vienna; revolutionary reform; liberalism; realism and nationalism; world-wide impact of Europe prior to World War I; industrialism; imperialism.

*Credit is to be granted for only one of these cross-listed courses.

HIS HISTORY

- 448 Topics in History and Social Science. Three hours. I, II.**
Prerequisite: History major and six hours upper division history.
Introduction to the elements of research in social science and history. Development of facility of expression in writing. Study topics made on basis of training and special interests of students. Varies each semester according to the specialties of instructor.
- 449 Readings in History. Three hours. I, II.**
Prerequisite: History major and three hours upper division history.
Introduction to the most important literature in various historical fields. Varies each semester according to the specialties of instructor.
- 461 Kentucky History. Three hours. A.**
General, social, economic, and political history, influence in development of American democracy; periods of leadership in the nation; educational system; her great men and women; historical sources.
- 476 Modern Middle East. Three hours. A.**
Breakdown of the Ottoman Empire, growth of Arab nationalism and emergence of Arab states, Iran and Turkey, their problems in the contemporary world.
- 502 American Revolution and the Constitution. Three hours. A.**
Prerequisite: HIS 202 or approval of instructor.
Colonial background of Revolution; internal and external nature of Revolution; problems associated with Confederation; events leading to the American Constitution.
- 503 Jacksonian Democracy. Three hours. A.**
Prerequisite: HIS 202 or approval of instructor.
Criticism of the concept. Party issues, nationalism, and the importance of the age.
- 507 Civil War and Reconstruction. Three hours. A.**
Prerequisite: HIS 202 or approval of instructor.
Causes, nature, and consequences of U. S. Civil War and Reconstruction.
- 508 Early Republic, 1789-1824. Three hours. A.**
Prerequisite: HIS 202 or approval of instructor.
Federalists; Republicans and the Constitution; America and the French Revolution; War of 1812; breakup of political parties; emergence of new political divisions.
- 509 Urban America. Three hours. A.**
Prerequisite: HIS 202 and 203 or approval of instructor.
Growth, development and implications of the city in American history.
- 511 Progressive Era, World War I and the Twenties, 1898-1928. Three hours. A.**
Prerequisite: HIS 203 or approval of instructor.
Progressive movement; imperialism; entry into war; the Treaty of Versailles; New Economic Era.
- 512 Depression and War, 1929-1945. Three hours. A.**
Prerequisite: HIS 203 or approval of instructor.
Depression and efforts to cope with it; the coming of World War II; United States participation in war.
- 525 Twentieth Century Afro-American History. Three hours. A.**
Prerequisite: HIS 203 or approval of instructor.
In-depth study of the contributions of Afro-Americans and their struggles for the privileges and immunities of citizenship, interwoven with the experiences of the United States from world power to prober of outer space.

HIS HISTORY

- 530 American Social and Intellectual History to 1850. Three hours. A.**
Prerequisite: HIS 202 or approval of instructor.
European influences; the colonial mind; revolutionary attitudes; New England's leadership; the movement of protest and reform; the rise of a native literature.
- 531 American Social and Intellectual History since 1850. Three hours. A.**
Prerequisite: HIS 203 or approval of instructor.
Civil War; Protestantism and capitalism; Social Darwinism; literature of naturalism and realism; the twentieth-century mind.
- 544 Modern European Social and Cultural History. Three hours. A.**
Prerequisite: GSS 247 or approval of instructor.
European civilization in the 19th and 20th centuries; emphasis upon institutions, ideas, and cultural forms distinguishing the period.
- 549 Tudor-Stuart England, 1485-1688. Three hours. A.**
Formerly HIS 547 and HIS 548.
Prerequisite: HIS 345 or 346 or approval of instructor.
Resurgence of the monarchy; revolt against Rome; Protestant Reformation and Elizabeth I; Rise of Parliament; The Early Stuarts; Anglicanism vs. Puritanism; Cromwell and the Restoration; Glorious Revolution.
- 550 Emergence of Victorian Britain. Three hours. A.**
Prerequisite: HIS 346 or approval of instructor.
Economic and intellectual backgrounds of 19th century; French Revolution and Napoleonic threat; reaction and reform after 1815; Victorian thought; origins of the Commonwealth; age of Palmerston in foreign affairs.
- 551 Britain and Empire in Adversity, 1867-Present. Three hours. A.**
Prerequisite: HIS 346 or approval of instructor.
Characteristics of a new era; Reform Bill of 1867; economic and intellectual trends in late 19th century; decline of liberalism in politics; revival of imperialism; coming of World War I; emergence of the Commonwealth; impact of World War II; Conservative-Labor contention; Britain's role in the "cold" war.
- 557 Germany since 1870. Three hours. A.**
Prerequisite: GSS 247 or approval of instructor.
Background; rise of Prussia; German nationalism and particularism; creation of the German Empire; Bismarck and William II; Peace Treaty and Weimar Republic; Nazi Germany; Second World War; allied occupation.
- 562 History of Soviet Union. Three hours. A.**
Prerequisite: GSS 247 or approval of instructor.
The 1917 revolution to the present; Establishment of the Soviet regime; New Economic Policy; Five-Year Plans; Soviet system of government; World War II; post-war years; cultural trends underlying political, economic, and social developments of the Soviet era.
- 572 History of Southeast Asia. Three hours. A.**
Prerequisite: GSS 246, 247 or approval of instructor.
History of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia, and the Philippines from the earliest time to the present. Special attention given to economic, social, and cultural change.

HIS HISTORY

- 573 Twentieth Century China. Three hours. A.**
Prerequisite: GSS 247 or approval of instructor.
Origins of communism in China; Revolution of 1911; Kuomintang; Mao Tse Tung; the Long March; World War II; Defeat of Chiang Kai-shek; Red China.
- 582 History of Mexico. Three hours. A.**
Prerequisite: GSS 246, 247 or approval of instructor.
Mexican History from the Spanish conquest to present with emphasis on Mexican Revolution of 1910 and its effect on political, economic, social, and military institutions.
- 585 History of Brazil. Three hours. A.**
Prerequisite: GSS 246, 247 or approval of instructor.
Examination of Brazil's history from 1500 to the present with emphasis on developments since 1930.
- 601 Survey of Historiography. Three hours. A.**
Seminar approach to the history of historical writings and interpretation. Attention to selected works of great historians from Herodotus to the present.
- 603 Historical Criticism. Three hours. A.**
Seminar in fundamental techniques of the historian; using basic bibliographical tools; locating and evaluating source materials; writing book reviews; critically interpreting historical evidence.
- 604 History as a Social Science. Three hours. A.**
Scientific approach to social problems and their historical interpretations; analysis of economic, social intellectual, and political backgrounds of contemporary civilization.
- 605 Humanities approach to History. Three hours. A.**
"American Character" and its development as an example of the humanities approach to the study of history.
- 606 Problems in Interpreting World History. Three hours. A.**
Seminar on selected controversial developments in world history. May be repeated providing the course content is different each time.
- 607 Problems in Interpreting American History. Three hours. A.**
Seminar on selected controversial developments in American history. May be repeated providing the course content is different each time.
- 649 Reading and Research. Three hours. A.**
Independent study in a specific field.
- 699 Thesis. Three hours. A.**
May be repeated once.

Interdisciplinary Courses (CAS)**CAS COLLEGE OF ARTS AND SCIENCES**

- 499 Independent Work. Three to six hours. I, II.**
Independent research and/or field work required for the program of Bachelor of Individualized Studies.
Prerequisite: GPA of 2.50 up to last semester of program in Bachelor of Individualized Studies Degree.

CAS COLLEGE OF ARTS AND SCIENCES

500 Interdisciplinary Seminar: _____ . Three hours. A.
 In-depth consideration of problems which involve several disciplines. A different problem will be considered each time course is offered. Representatives of various disciplines will participate in instruction. May be repeated for total of six hours.

Mathematical Sciences (CSC, MAT, STA)

Lane, B., Chairman; Bland, Brashear, J. Brooks, A. King, Landry, J. LeVan, M. LeVan, A. McGlasson, Nayle, Ng, Pierce, F. Scorsone, Stephens.

The Department of Mathematical Sciences offers the Bachelor of Science Degree in Computer Science, Mathematics, and Statistics; the Master of Science Degree is offered in Mathematics. In cooperation with the College of Education, the Department provides a major in mathematics leading to teacher certification with the Bachelor of Science Degree. The Master of Arts in Education Degree with an emphasis in Mathematics is offered in the College of Education with the cooperation of the Department of Mathematical Sciences.

In addition to its programs for majors and for graduate students, the Department of Mathematical Sciences offers the Minor in Computer Science, Mathematics, and Statistics. Other offerings are presented as service courses in Computer Science, Mathematics, and Statistics for students majoring in a wide range of other fields of study.

Bachelor of Science Degree Curricula Major in Computer Science

MAJOR REQUIREMENTS	30 hours
CSC 110, 120, 210, 300, 310, 350, 370, 400, plus six hours of CSC courses numbered above 300.	
SUPPORTING COURSE REQUIREMENTS	20 hours
MAT 111, 112, 214; STA 370 or 470; ECO 230, 231.	

GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101 and 102 or 105; 12 hours Humanities; GSP 180, 181, 281; GSS 246 or HIS 202, GSS 247 or HIS 203; 6 hours of Social Sciences; MIL 101, 102, 201, 202 (or options for men, electives for women); 12 hours of Natural Science and Mathematics. Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	23 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Mathematics

MAJOR REQUIREMENTS	34 hours
CSC 171 or 172 or 175; MAT 111, 112, 213, 214, 308, 353, 414, and nine hours of Mathematical Sciences courses (CSC, MAT, STA) numbered above 300 (except MAT 380) with at least one of the following strongly recommended: MAT 309, 510, 540.	
SUPPORTING COURSE REQUIREMENTS	10 hours
Ten hours chosen from the following: PHY 201, 202; any additional CSC courses; any STA courses (except 207).	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 hours additional Social Sciences; 12 hours Natural and Mathematical Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	29 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Mathematics (Teaching)

MAJOR REQUIREMENTS	30 hours
CSC 171 or 172 or 175; MAT 111, 112, 214, 308, 334, 414, and nine hours of Mathematical Sciences courses (CSC, MAT, STA) numbered above 300 with at least one of the following strongly recommended: MAT 380, or 505, 506, 535.	
SUPPORTING COURSE REQUIREMENTS	36 hours
EDF 102, 202, 317; ESE 450, 498, 499; PSY 211. Ten hours chosen from the following: PHY 201, 202; any additional CSC courses; and STA courses (except STA 207).	

GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203; 6 hours additional Social Sciences; 12 hours Natural and Mathematical Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	7 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Statistics

MAJOR REQUIREMENTS	30 hours
STA 270, 271, 370, 371, 375, 470, 471, 475; six hours of Mathematical Sciences electives numbered above 300 (except MAT 380).	
SUPPORTING COURSE REQUIREMENTS	17 hours
MAT 111, 112, 213, 214, and 2 hour sequence of programming courses.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101 and 102 or 105; GSP 180, 181, 281; GSS 246 or HIS 202, GSS 247 or HIS 203; 6 hours of additional social sciences; MIL 101, 102, 201, 202, (or options for men, electives for women); 12 hours Humanities; 12 hours Natural Science and Mathematics. Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	26 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Computer Science

A student may minor in Computer Science by completing a minimum of 18 hours of CSC courses; at least six hours must be in courses numbered 300 or above.

Minors in Mathematics

A student may minor in Mathematics by completing a total of 18 hours of courses in the Mathematical Sciences including MAT 111, 112, and 6 hours chosen from MAT 214, CSC 300, STA 370, or any MAT courses numbered 300 and above.

A student may minor in Mathematics (teaching) by completing a total of 21 hours of courses in the Mathematical Sciences including MAT 111, 112, and 9 hours chosen from MAT 214, CSC 300, STA 370 or any MAT course numbered 300 and above.

Minor in Applied Statistics

A student may minor in Applied Statistics by completing the following courses: MAT 101 or 107, MAT 111 or 208, CSC 172, STA 207 or 270, 271, 370 and 3 hours of Mathematical Science courses numbered 300 or above.

Graduate Programs

The Master of Science Degree in Mathematics is offered with areas of specialization from both pure and applied Mathematics; a thesis is optional in this program. The degree is designed to prepare the student for advanced graduate study in mathematics, for positions in government or industry, and for teaching on the college and pre-college levels. Further information and degree requirements may be found in the Graduate catalog.

The Master of Arts in Education Degree with an emphasis in Mathematics is offered in the College of Education with the cooperation of the Department of Mathematical Sciences.

The regulations for the M.A. degree in Education program may be found in the College of Education section of the Graduate Catalog. Students obtaining the M.A. degree in Education with the emphasis in Mathematics must select courses in conference with their advisor.

Course Descriptions

CSC COMPUTER SCIENCE

- 102 Computers and the Modern World. Three hours. I, II.**
Formerly MAT 102.
Brief history of computers. How computers work. Introduction to computer programming. Artificial intelligence. Applications of computers to business, industry, law enforcement, medicine, politics.
- 110 Introduction to Computer Science. Three hours. I, II.**
Algorithms, programs, and computers. Introduction to programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Survey of computers, languages, systems, and applications. Computer solution of several numerical and nonnumerical problems using PL/1.
- 120 Computers and Programming. Three hours. II.**
Prerequisite: CSC 110.
Computer structure, machine language, instruction execution, addressing techniques, and digital representation of data. Computer systems organization, logic design, micro-programming and interpreters. Symbolic coding and assembly systems, macro definition and generation, and program segmentation and linkage. Systems and utility programs, programming techniques, and recent developments in computing. Students will be assigned computer projects to illustrate basic machine structure and programming techniques.
- 171 Introduction to Computer Programming - BASIC. One hour. I, II.**
Introduction to problem solving with computers using the programming language BASIC. Flowcharting, selection of algorithms, and the use of timesharing terminals may be included. Applications to mathematics, natural science, social science, and behavioral science.

CSC COMPUTER SCIENCE

- 172 Introduction to Computer Programming - FORTRAN**
One hour. I, II.
Formerly MAT 172.
Introduction to problem solving with computers using the FORTRAN language. Basic concepts of FORTRAN, flowcharting, applications to mathematics, natural science, social and behavioral sciences.
- 173 Computer Programming - FORTRAN. One hour. I, II.**
Formerly MAT 173.
A study of some of the more advanced features of FORTRAN including arrays, functions, subroutines, tape and disk input/output, optimization, applications.
- 175 Introduction to Computer Programming - PL/1. One hour. I, II.**
Formerly MAT 175.
Introduction to problem solving with computers using the PL/1 language. Basic concepts of PL/1. Flowcharting, applications to mathematics, natural science, social science, and behavioral science.
- 176 Computer Programming - PL/1. One hour. I, II.**
Prerequisite: CSC 175 or 110.
A study of some of the more advanced features of PL/1 including arrays, structures, character string operators, internal and external procedures, extended input/output, and interrupt features.
- 210 Introduction to Discrete Structures. Three hours. I.**
(First offered in 1977).
Prerequisite: CSC 110.
Review of set algebra including mappings and relations. Algebraic structures including semigroups and groups. Elements of the theory of directed and undirected graphs. Boolean algebra and propositional logic. Application of these structures to various areas of computer science.
- 300 Introduction to Numerical Analysis. Three hours. II (even years).**
Formerly MAT 372.
Prerequisite: MAT 112 and knowledge of computer programming.
Methods of finding roots to equations, solution to linear systems of equations, approximation, interpolation, numerical integration and differentiation, solution of simple differential equations.
- 310 Data Structures. Three hours. A.**
Prerequisites: CSC 120 and 210.
Basic concepts of data. Linear lists, strings, arrays, and orthogonal lists. Representation of types and graphs. Storage systems and structures, and storage allocation and collection. Multilinked structures. Symbol tables and searching techniques. Sorting techniques. Formal specification of data structures in programming languages, and generalized data management systems.
- 350 Programming Languages. Three hours. A.**
Prerequisite: CSC 120 and 210.
Formal definition of programming languages including specification of syntax and semantics. Simple statements including procedure, infix, prefix, and postfix notation. Global properties of algorithmic languages including scope of declarations, storage allocation, grouping of statements, binding time of constituents, subroutines, coroutines and tasks. List processing, string manipulation, data description and simulation languages. Run time representation of program and data structures.

CSC COMPUTER SCIENCE

- 365 Automata. Three hours. I (odd years).**
Formerly MAT 365.
Prerequisite: MAT 214 and knowledge of computer programming.
Mathematical theory of computers and their capabilities: Finite state machines, neural networks, regular events, Turing machines, effective computability, recursive functions, the universal Turing machine.
- 370 Computer Organization. Three hours. A.**
Prerequisite: CSC 120 and 210.
Basic digital circuits, Boolean algebra and combinational logic, data representation, and transfer, and digital arithmetic. Digital storage and accessing, control input-output facilities, system organization, and reliability. Description and techniques. Features needed for multiprogramming, multiprocessing, and real-time systems. Other advanced topics and alternate organizations.
- 400 Systems Programming. Three hours. A.**
Prerequisite: CSC 310, 350, and 370.
Review of batch process systems programs, their components, operating characteristics, user services and their limitations. Implementation techniques for parallel processing of input-output and interrupt handling. Overall structure of multiprogramming systems on multiprocessor hardware configurations. Details on addressing techniques core management, file system design and management, system accounting, and other user-related services. Traffic control, interprocess communication, design of system modules, and interfaces. System updating, documentation, and operation.
- 425 Compiler Construction. Three hours. A.**
Prerequisite: CSC 350.
Review of program language structures, translation, loading, execution and storage allocation. Compilation of simple expressions and statements. Organization of a compiler including compile-time and run-time symbol tables, lexical scan, syntax scan, object code generation, error diagnostics, object code optimization techniques, and overall design. Use of compiler writing languages and bootstrapping.
- 490 Seminar in _____. Three hours. A.**
Prerequisite: Approval of department.
Topics covered may include: advanced computer organization; simulation; computer graphics; theory of computability; artificial intelligence; database architecture and management; communication theory; formal languages. May be repeated to a maximum of 12 hours, provided the topics are different at each taking.

MAT MATHEMATICS

- 100 Fundamentals of Modern Mathematics. Three hours. I, II.**
Formerly MAT 200.
Provides the general college student with an understanding of basic meaning, techniques and concepts in modern mathematics. Selected topics from set theory, logic and proof, number and numeration, abstract properties of number systems, measurement, geometry, probability and statistics. Not open to mathematics majors.
- 101 Finite Mathematics. Three hours. I, II.**
Elementary logic, set theory, combinatorial analysis, probability, Markov chains, theory of games. Applications, especially to the behavioral sciences.

MAT MATHEMATICS

- 107 College Algebra. Three hours. I, II.**
Sets and logic; number systems; integers, rational numbers, real numbers, complex numbers; equations and inequalities; functions and their graphs; systems of equations.
- 108 Trigonometry. Three hours. I, II.**
Prerequisite: MAT 107 or approval of department.
Trigonometric functions; logarithms; right triangles; radian and degree measure; properties of the trigonometric functions; functions of two or more angles; the oblique triangle; the inverse trigonometric relations; complex numbers; applications.
- 109 Algebra and Trigonometry. Five hours. I, II.**
May not be taken for credit by students who have credit for MAT 107 and/or MAT 108; offered for students who need this background for MAT 111.
Sets; real numbers, functions and graphs; trigonometric, exponential and logarithmic functions; polynomial functions, equations and inequalities; inverse trigonometric functions; complex numbers.
- 111 Analytic Geometry and Calculus I. Four hours. I, II.**
Prerequisite: MAT 109 or equivalent.
Rectangular coordinates; straight lines; limits and continuity; the derivative; algebraic functions and their derivatives; applications of differentiation; the differential; the law of the mean and applications.
- 112 Analytic Geometry and Calculus II. Four hours. I, II.**
Prerequisite: MAT 111.
Continuation of MAT 111. Definite integral and applications; conics; differentiation and integration of transcendental functions; parametric equations and polar coordinates.
- 201 Understanding Arithmetic. Three hours. I, II.**
Open only to those students seeking elementary certification.
Emphasis on meaning rather than upon manipulation as such. Modern mathematics topics covered are number and numerals, sets and numbers, number operations, fundamental operations, number scales, number structure, fractions, decimals and the real number system.
- 202 Understanding Elementary Mathematics. Three hours. I, II.**
Prerequisite: MAT 201.
Continuation of MAT 201 with the introduction of the ideas of modern mathematics, elementary logic, geometry, number concept, extending the number system, numeration, exponents, measurement, functions and graphs.
- 208 Introductory Calculus with Applications. Three hours. I, II.**
Prerequisite: MAT 101 or 107 (or equivalent).
Not open to students who have credit in MAT 111. Introductory differential and integral calculus with applications in the social sciences, biological sciences, economic theory and physical sciences.
- 213 Analytic Geometry and Calculus III. Four hours. I, II.**
Prerequisite: MAT 112.
Continuation of MAT 112. Formulas and methods of integration; infinite series; hyperbolic functions; solid analytic geometry; partial derivatives; multiple integrals.
- 214 Linear Algebra and Matrices. Three hours. I, II.**
Prerequisite: MAT 111 or 208.
Real and complex vector spaces; linear transformations, matrix theory and applications through the introduction of eigenvalues and eigenvectors, determinants and inner product spaces.

MAT MATHEMATICS

- 308 Introduction to Modern Algebra I. Three hours. I.**
Prerequisite: MAT 214.
Fundamental concepts; sets, mappings, relations and operations; rings; isomorphism; integral domains and properties of integers; fields, rational numbers, real numbers, complex numbers.
- 309 Introduction to Modern Algebra II. Three hours. II (odd years).**
Prerequisite: MAT 308.
Continuation of MAT 308. Polynominals; groups; vector spaces; systems of linear equations; determinants; linear transformations and matrices.
- 334 Modern College Geometry I. Three hours. A.**
Prerequisite: MAT 111 or 208 and High School Geometry.
A reexamination of elementary geometry from an advanced standpoint which meets modern standards of logical precision; intends to furnish valid definitions and valid proofs for concepts and theorems which were already known. Euclid's parallel postulate; axiom systems; finite geometries; especially designed to provide high school mathematics teachers with an appropriate reformulating and strengthening of background, ideas and rigor.
- 353 Differential Equations. Three hours. II.**
Formerly MAT 453.
Prerequisite: MAT 112.
Differential equations of the first order; applications; singular solutions; linear equations with constant coefficients; miscellaneous methods for solving equations for higher order than the first; integration in series; total differential equations.
- 380 Development of Mathematics: An Historical View. Three hours. I (odd years).**
Prerequisite: MAT 308 or 334.
Evolution of mathematics from the Greek era to the twentieth century, as exhibited by solutions of problems and proofs of theorems drawn from the past, using techniques available at the time. Topics chosen from the study of number, axiomatics and proof, geometry and the calculus.
- 414 Introduction to Analysis. Three hours. I.**
Prerequisite: MAT 112.
Real number system; sets and functions; limits; continuity, uniform continuity; Taylor's theorem; laws of the mean; the Riemann integral; allied topics.
- 430 Symbolic Logic. Three hours. A.**
CL PHI 430.
Prerequisite: Approval of instructor.
Basic introduction to modern symbolic logic. Propositional calculus, the first-order predicate calculus, proofs, the nature and properties of formal logical systems.
- 480 Seminar. One hour. A.**
Prerequisite: Senior Standing.
Individual investigation of selected topics; presentation and discussion or results; introduction to use of journals and other sources of material. Meets two hours weekly.
- 495 Independent Work. Three hours. I, II.**
Prerequisite: Approval of department.
Individual study and/or research on a problem or area of mathematics chosen by the student and the instructor. Regular consultation and final paper required. May be repeated once.

MAT MATHEMATICS

- 503 Number Theory in Elementary Education. Three hours. A.**
Prerequisite: MAT 202 or graduate standing or approval of Department.
No student may receive credit for both MAT 503 and MAT 506. May not be taken to satisfy requirements for an M.S. in mathematics or an M.A. in Education with emphasis in mathematics. Standard topics in Number Theory, such as the division algorithm, Euclidean Algorithm, g.c.d and l.c.m, Fundamental Theorem of Arithmetic, and modular arithmetics with special emphasis on their application in the teaching of elementary school mathematics. Additional topics will be chosen according to their applicability.
- 505 Foundations of Mathematics. Three hours. A.**
Prerequisite: MAT 308 or approval of instructor.
Nature of mathematical thought; logical systems, postulational concepts and methods; consideration of the work of Hilbert, Peano, Whitehead, Russell, and others.
- 506 Number Theory. Three hours. A.**
Prerequisite: MAT 308 or approval of instructor.
Fundamental properties of integers; linear Diophantine equations; linear and quadratic congruences; famous problems of number theory.
- 510 Set Theory and Topology of Metric Spaces. Three hours. A.**
Formerly MAT 410.
Prerequisite: MAT 213 or approval of instructor.
Set theory, cardinality, the axiom of choice and its equivalents, structure of \mathbb{R} and \mathbb{R}^n , concept and properties of metric spaces.
- 514 Analysis for the Secondary Teacher. Three hours. A.**
Prerequisite: MAT 414.
Credit in this course cannot be applied toward the M.S. Degree in Mathematics.
Basic concepts in analysis with particular emphasis on how the material pertains to high school mathematics. The real numbers; set theory; sequences and series; continuity; differentiation and integration; additional topics may be presented as time permits.
- 515 Real Analysis. Three hours. A.**
Prerequisite: MAT 414.
Infinite sequences and series, power series, series of functions, convergence, Fourier series, introduction to the Lebesgue integral; allied topics.
- 535 Modern College Geometry II. Three hours. A.**
Prerequisite: MAT 334 or equivalent.
A continuation of purposes and outlook for MAT 334. The major influence of the axioms of parallelism on geometry; development from axioms and models; Euclidean geometry; absolute geometry; hyperbolic geometry; consistency of postulates.
- 540 Introductory Applied Mathematics. Three hours. A.**
Prerequisite: MAT 353.
Techniques and applications of matrices and determinants, partial differential equations, Fourier series, LaPlace transformation, calculus of variation, special functions, vectors and tensors, complex integration, linear transformations and inner product space.

MAT MATHEMATICS

- 545 Linear Programming and Theory of Games. Three hours. I.**
Prerequisites: MAT 214 and knowledge of computer programming.
Properties of convex sets. The linear programming problem and its dual. The simplex-algorithm. Finite and infinite games. The minimax problem. Applications to the transportation problem, the assignment problem, blending problems.
- 550 Complex Analysis. Three hours. II.**
Prerequisite: MAT 414 or approval of instructor.
Analytic functions and the Cauchy-Riemann equations. Linear fractional transformations and mappings of the elementary functions. Complex integration. Power series, residues and conformal mapping. Allied topics.
- 556 Functions of Several Variables. Three hours. A.**
Prerequisite: MAT 214 and 414 or approval of instructor.
Algebra and geometry of vectors; analysis of multivariable functions.
- 571 Numerical Analysis. Three hours. A.**
Prerequisite: CSC 300 or equivalent.
Solution of nonlinear equations; matrices and systems of linear equations; eigenvalue problem; polynomials, interpolation and approximation; differentiation and integration; differential equations; predictor-corrector methods.

Graduate Courses

- 600 Linear Algebra. Three hours. I.**
Formerly MAT 508.
Prerequisites: MAT 308 and 214.
Abstract vector spaces. Linear transformations. Matrix theory. Eigenvalues and eigenvectors. The spectral theorem.
- 609 Modern Algebra. Three hours. A.**
Prerequisite: MAT 308 or approval of instructor.
Study of groups, rings, fields, and modules. Category theory. An introduction to field theory.
- 610 General Topology. Three hours. II.**
Prerequisite: MAT 414 and 510 or approval of instructor.
Concept and basic structure of a topological space. Formation of new spaces, convergence, separation, countability and compactness.
- 670 Advanced Probability and Mathematical Statistics I. Three hours. A.**
Formerly MAT 570.
Prerequisites: MAT 515 and STA 471.
Probability spaces, random variable, conditioning independence, distribution functions, laws of large numbers, central limit theorems, applications.
- 671 Advanced Probability and Mathematical Statistics II. Three hours. A.**
Prerequisite: MAT 670.
Study of the theory underlying applied statistics; estimation, inference, likelihood ratio tests, general linear hypothesis, decision theory.
- 672 Advanced Numerical Analysis. Three hours. A.**
Prerequisite: MAT 571 or equivalent.
Continuation of MAT 571 with increasing emphasis on theory. Interpolation and quadrature; splines; orthogonal polynomials; Gaussian quadrature; Chebyshev approximations; differential equations; error.

MAT MATHEMATICS

- 680 Seminar in: _____ Three hours. A.**
Prerequisite: Approval of Department.
Topics covered may include advanced complex analysis, partial differential equations, advanced applied mathematics, stochastic processes, non-linear programming, computer theory. May be repeated to a maximum of nine hours, provided that the topics are different at each taking.
- 690 Independent Study. Three hours. A.**
Prerequisite: Graduate standing with a minimum of nine semester hours in 600.level mathematics courses.
Independent study on a problem chosen by the student and his instructor. May be repeated once.
- 699 Thesis. One to six hours. A.**
- STA STATISTICS**
- 207 Introduction to Statistics. Three hours. I, II.**
Formerly MAT 207.
Brief introduction to probability, sampling, and descriptive statistics. Basic statistical inference and estimation using one- and two-sample methods. An introduction to correlation and simple linear regression.
- 270 Applied Statistics I. Three hours. I.**
Prerequisite: MAT 101 or 107 or approval of department.
Measures of central tendency and dispersion; frequency distributions and probability; point and interval estimates, hypothesis testing and data analysis; linear correlation and regression; chi-square tests and analysis of variance. Computer resources are used whenever feasible.
- 271 Applied Statistics II. Three hours. II.**
Prerequisite: STA 270 or 207 with approval of department.
Statistical inference with emphasis on enumeration data as well as quantitative data, sampling and survey techniques; quality control; non-parametric methods, and elementary design of experiments; computer-oriented statistical packages are topics included.
- 370 Applied Probability. Three hours. I.**
Prerequisite: MAT 208 or equivalent or departmental approval.
An intuitive as well as axiomatic development of rules of probability; probability models and distributions; applications.
- 371 Non-Parametric Statistics. Three hours. II.**
Prerequisite: STA 370.
Measures of central tendency and variability applicable to non-parametric statistics, non-parametric (distribution free) alternatives to testing and estimation techniques; correlation and regression; confidence intervals; analysis of variance.
- 375 Sampling Theory. Three hours. I (First offered in 1978).**
Prerequisite: STA 370.
Basic concepts of the theory underlying kinds of sampling schemes; included are applications to surveys and questionnaires.
- 470 Mathematical Statistics I. Three hours. A.**
Formerly MAT 370.
Prerequisite: MAT 213.
Algebra of sets and set functions; probability axioms and random variables; conditional probability and stochastic independence. Special distributions; mathematical expectation; generating functions; limiting distributions; central limit theorem; order statistics.

STA STATISTICS

- 471 Mathematical Statistics II. Three hours. A.**
Formerly MAT 371.
Prerequisite: STA 470.
An introduction to the theory of hypothesis testing and estimation; decision theory; statistical inference using order statistics; correlation and regression analysis; the general linear hypothesis.
- 475 Design of Experiments. Three hours. A.**
Prerequisite: STA 471.
Basic experimental designs, analysis of variance, sampling and their relation to linear models and regression models. Properties of the designs are derived and investigated both theoretically and with applications.
- 490 Seminar in _____ Three hours. A.**
Prerequisite: Approval of department.
Topics covered may include: Quality control; operations research; linear models; methods of multivariable analysis; probability theory; Markov Chains; stochastic processes; decision theory; regression analysis. May be repeated to a maximum of 12 hours provided the topics are different at each taking.

Music (MUS)

Muns, G., Chairman; E. Baker, L. Baker, Beeler, Bennes, Bennet, Bonnemann, Bromley, Cooper, Hambrick, Hartwell, Harvey, Henrickson, Hensel, Hoagland, Houser, Lawson, Peterson, Staples, R. Surplus, Thomas, Timm, Wehr, Wolfrom.

The primary function of the Department of Music is to prepare music specialists for service in the public schools, to prepare students for careers in church music, private studio teaching, concert performance, professional ensemble performance, teaching in colleges and universities and other aspects of professional musicianship, and to provide instruction to the university-at-large in courses for the elementary classroom teacher and by offering courses which contribute to the general educational and cultural development of all students on the campus.

Piano Certification Requirements

All music majors must meet piano certification requirements as specified by the Department of Music. At the time of entrance piano proficiency levels will be ascertained. Instruction is provided those who do not meet the prescribed standard; these students will take MUS 110 and 111, Class Piano. Successful completion of MUS 111 will constitute certification in piano.

Bachelor of Music Degree Curricula Majors in Voice, Piano, Organ, String, Percussion and Wind Instruments

MAJOR REQUIREMENTS	70 hours
MUS 181, 182, 272, 281, 282, 366, 367 or 368, 371, 372, 383, 480, 481, 550 (1 hr.), 551 (1 hr.), 3 hours elective from upper division courses in Music History and Literature, Applied major instrument or voice: 26 hours. Two hours credit per semester in first and second years. Four hours credit per semester in third and fourth years. Two hours credit for graduation recital (MUS 499). Music ensemble: 4 hours.	
SUPPORTING COURSE REQUIREMENTS	3-9 hours
Foreign language: Voice majors 6 hours one language, FLS 300 3 hours. All others FLS 300 3 hours.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211 and 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203 and 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES: (Instrumental majors only)	6 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

All students electing the Bachelor of Music with majors in voice or instruments will be considered provisional until a qualifying audition is held at the end of the Freshman year. Candidates must pass this audition in order to continue the Bachelor of Music, Majors in Voice, Piano, Organ, String and Wind Instruments. Further information concerning the qualifying audition may be obtained upon application to the Department of Music office.

Applied music instruction in the Bachelor of Music, Majors in Voice, Piano, Organ, String, Percussion and Wind Instruments degree program should be continuous throughout the four years of the prescribed curriculum. In instances of students transferring from other institutions or from other curricula who have not accumulated the requisite number of credit hours, permission may be granted, with the approval of the chairman, to increase the number of hours of applied music which may be taken in any given semester so as to bring the number of applied music hours to the level required in the Bachelor of Music degree.

Ensembles

Each student in the Bachelor of Music degree program must be enrolled in an ensemble which reflects his major applied area during each semester of residence with the approval of his major applied teacher and the Chairman. Additional hours in chamber music, accompanying or opera workshop may be required at the recommendation of the Department of Music. Pianists may fulfill the requirement through accompanying.

Major in Church Music

MAJOR REQUIREMENTS	69 hours
MUS 181, 182, 272, 281, 282, 366, 368, 371, 372, 480, 481, 551 (2 hrs.), 556, 9 hours chosen from 415, 416, 417, 418. Applied keyboard instrument (normally organ) or voice: 16 hours. 2 semesters keyboard for voice majors or 2 semesters voice for keyboard majors or until candidate reaches an acceptable level in a secondary area of performance: 2 hours. Music Ensemble: 4 hours.	
SUPPORTING COURSE REQUIREMENTS	6 hours
REL 305 or 306: 3 hours. FLS 300: 3 hours.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211 and 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203 and 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	4 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Recital Requirement

Church music majors will present a one-half recital during the senior year.

Ensembles

Church music majors will observe the same regulations as other majors in the Bachelor of Music degree program.

Bachelor of Arts Degree Curricula Major in Music, Concentration in Theory/Composition

MAJOR REQUIREMENTS	48 hours
MUS 181, 182, 272, 281, 282, 371, 372, 383, 480, 481, 555 or 556, 4 hours composition to be selected from MUS 483 and 585. Applied instrument and/or voice: 8 hours.	
SUPPORTING COURSE REQUIREMENTS	0 hours

GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211 and 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203, and 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	31 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Music, Concentration in Music History and Literature

MAJOR REQUIREMENTS	52 hours
MUS 181, 182, 272, 281, 282, 371, 372, 480, 555, 556, 572 (6 hours). Applied instrument and/or voice: 8 hours. Music ensemble: 4 hours.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211 and 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203, and 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	27 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Music, Concentration in Applied

MAJOR REQUIREMENTS	44 hours
MUS 181, 182, 272, 281, 282, 371, 372, 480. Applied major instrument or voice: 16 hours.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211 and 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203 and 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	35 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Recitals and Ensembles

Candidates for the Bachelor of Arts with a Major in Music, Concentration in Applied, will present one-half senior recital. A recital is not required in the Concentration in Theory/Composition or Concentration in Music History and Literature. The same ensemble participation requirements as listed for the Bachelor of Music curriculum will be in effect for the Concentration in Applied and Concentration in Music History and Literature. Music majors enrolled in the Bachelor of Arts, Major in Music, Concentration in Theory/Composition are not required to participate in music ensembles but are advised to do so if schedules can be arranged.

Minor in Music

MUS 181, 182, 371, 372, 4 hours of electives in music **18 hours**

Bachelor of Music Education (Teaching) Degree Curricula

MAJOR REQUIREMENTS	57½ hours
MUS 130, 131, 181, 182, 251, 252, 281, 282, 320, 351, 352, 354, 366, 367 or 368, 371, 372, 383 or 384, 480; ESE 378, 379, 457, 458. Applied major instrument or voice: 7 hours. Music ensemble: 3½ hours.	
SUPPORTING COURSE REQUIREMENTS	26 hours
EDF 102, 202, 317; ELE 541; ESE 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	49 hours
GSO 100; GSE 101 and 102 or 105; ENG 209 or 211 and 210 or 212; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	131½-132½ hours

Instrumental students may be excused from taking MUS 252 and 352 by proficiency examination. Percussion emphasis will omit MUS 354 with MUS 320 not required of voice students.

Applied Major Instrument or Voice, Bachelor of Music Education (Teaching)

A minimum of seven hours is required with instruction to continue every semester of residence except the practice-teaching semester. The student may present a half-recital before graduation if recommended by his teacher and the appropriate Applied Music Committee for a Bachelor of Music Education

Honors Recital. In such instances the student will take six hours in the applied major instrument of voice plus one hour of MUS 499 Recital. Students not presenting an Honors Recital will have performed three times during the seven semesters of applied music study in masterclass or weekly student recital and will take a Final Jury Examination at the end of the seventh hour of instruction. Such students will not register for MUS 499 Recital but will continue in the normal sequence of applied music courses for the seventh hour. More detailed information concerning recital requirements in the Bachelor of Music Education degree may be obtained from the Department of Music Office.

Ensembles, Bachelor of Music Education

Each student must be enrolled in a major ensemble which reflects his major performing specialty during each semester of residence. Students with brass, woodwind and percussion emphasis will elect Marching Band during all Fall semesters in residence and Concert or Symphonic Band during Spring semesters. String emphasis will elect Orchestra. Keyboard emphasis may choose either a major vocal or major instrumental ensemble. Part-time students taking more than the usual amount of semesters to complete the degree will not be required to complete more semesters of ensemble participation than a full-time student; however, part-time students in the Bachelor of Music Education Degree must complete a minimum of seven semesters of ensemble participation. Any deviation from the above-listed requirements must be approved by the Chairman of the Department of Music upon recommendation of the directors of the Band, Orchestra, or Chorus.

Graduate Programs

Graduate study in music can lead to the Master of Music Degree, Specialization in Performance, and Specialization in Theory/Composition. The Master of Arts in Education with an emphasis in Music, the Master of Music Education Degree, and Rank I Certification are offered in the College of Education with the cooperation of the Department of Music. These graduate degrees prepare students for leadership roles in music education at all levels; build a sound foundation for further graduate study leading to a doctorate; provide insight into the structure of music; increase knowledge of musical culture through intensive study of music literature; provide a core of knowledge from the fields of learning theory, philosophy of education, and curriculum development, thus enabling students to use modern educational principles in guiding the musical growth of others.

The program of study includes required subjects in music education teaching techniques, music history and literature, structure and organization in music, applied music, and related fields. Flexibility is provided for students to pursue particular interests in the field of music.

Qualifications for admission and procedures for entrance may be found in the Graduate Bulletin. More detailed information may be obtained by writing the Department of Music or the Dean of the Graduate School.

Applied Music

Instruction is given in individual lessons of one or two one-half hour periods per week, or in applied music classes which meet two one-hour periods per week. Grade-level standards for individual applied music lessons are on file in the Department of Music and will be issued to students on request at the

beginning of the session in which the instruction is given. Admission to upper division applied music study will be by general proficiency examination.

Practice facilities are provided, the fees for which are included in the music fee. At the end of each semester applied music jury examinations are held. No student taking applied music for credit will receive a grade for the semester's work without taking the jury examination unless excused by the department chairman.

Recital Attendance. Attendance at the weekly departmental recitals and master classes is a regularly scheduled part of applied music instruction for majors. Absences will be treated in the same manner as absences in any other course. Students should attend all approved university concerts and recitals.

Course Descriptions

MUS MUSIC

- 110 Class Piano. One hour. I, II.**
Introductory course for vocal and instrumental students to meet piano proficiency requirements as follows: play simple piano accompaniments at sight; play easy piano solos at sight, both polyphonic and homophonic style, play prepared pieces designated by the piano faculty. May be repeated once for a maximum of two hours credit.
- 111 Class Piano. One hour. I, II.**
Prerequisite: MUS 110 or approval of instructor.
Continuation of MUS 110.
- 112 Piano I. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 113 Secondary Piano. One or two hours. I, II.**
Prerequisite: MUS 111 or equivalent.
One or two lessons per week with emphasis upon accompaniments. May be repeated for a maximum of two times.
- 122 Voice I. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 130 String Instruments Class I. One hour. I.**
Practical instruction in methods of fingering, care of instruments and tone production. Group instruction to prepare for teaching strings in class and for training string section of a school orchestra; survey of teaching materials.
- 131 String Instruments Class II. One hour. II.**
Continuation of MUS 130.
- 132 String Instruments I. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 142 Organ I. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 145 Brass Instruments I. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.

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- 146** **Woodwind Instruments I. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 147** **Percussion I. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 212** **Piano II. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 222** **Voice II. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 232** **String Instruments II. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 242** **Organ II. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 245** **Brass Instruments II. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 246** **Woodwind Instruments II. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 247** **Percussion II. One or two hours. I, II.**
One or two lessons per week. May be repeated for a maximum of four hours.
- 251** **Brass Instruments Class I. One hour. I.**
Practical instruction in methods of fingering, care of instruments, tone production and tuning. Group instruction to prepare for teaching brass instruments in band or orchestra. Examination of materials suitable for beginning instrumental programs.
- 252** **Brass Instruments Class II. One hour. II.**
Continuation of MUS 251.
Prerequisite: MUS 251.
- 312** **Piano III. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of eight hours.
- 320** **Class Voice. One hour. I, II.**
Basic vocal techniques with emphasis on developing the voice for solo and/or choral performance.
- 322** **Voice III. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of eight hours.
- 332** **String Instruments III. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of eight hours.
- 342** **Organ III. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of eight hours.

MUS MUSIC

- 345 Brass Instruments III. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of eight hours.
- 346 Woodwind Instruments III. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of eight hours.
- 347 Percussion III. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of eight hours.
- 351 Woodwind Instruments Class I. One hour. I.**
Practical instruction in methods of fingering, care of instruments, tone production and tuning. Group instruction to prepare for teaching woodwind instruments in band or orchestra. Examination of materials suitable for beginning instrumental programs.
- 352 Woodwind Instruments Class II. One hour. II.**
Prerequisite: MUS 351.
Continuation of MUS 351.
- 354 Percussion Class. One hour. I, II.**
Emphasis on snare drumming, rudiments, teaching techniques. Experience on all related percussion instruments; bass drum, tympani, and others. Some experiences with mallet instruments: marimba, xylophone, bells, and others.
- 412 Piano IV. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of twelve hours.
- 422 Voice IV. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of twelve hours.
- 432 String Instruments IV. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of twelve hours.
- 442 Organ IV. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of twelve hours.
- 445 Brass Instruments IV. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of twelve hours.
- 446 Woodwind Instruments IV. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of twelve hours.
- 447 Percussion IV. One, two or four hours. I, II.**
One or two lessons per week. May be repeated for a maximum of twelve hours.

Music Ensembles

Ensembles are open to all students enrolled in the University and to qualified persons not enrolled. Interested persons and students are invited to participate and should contact the director of each activity to arrange for an audition.

MUS MUSIC

- 127, 327 Opera Workshop. One-half hour. I, II.**
Preparation and presentation of opera scenes and complete works. All phases of performance and technical procedures of staging, costumes, and management.
- 205 Chamber Music. One-half hour. I, II.**
Study and performance of standard chamber music literature, quartets, quintets. Open to pianists, vocalists, string and wind instrument players upon recommendation of instructor. Course may be repeated.
- 225 Choir. One-half hour. I, II.**
Formerly MUS 125, 325, 425.
Rehearsal and performance of choral literature of the highest standard. Sections include Chamber Singers, Concert Choir, Madrigal Singers, Oratorio Chorus, Women's Chorale. Two or three rehearsals per week. May be repeated for a maximum of four hours credit.
- 226 University Singers. One-half hour. I, II.**
Formerly MUS 126, 326, 426.
Formerly Chamber Choir.
Rehearsal and performance of the finest music written for the small vocal ensemble. Concerts given both on and off campus. Three or more rehearsals per week. May be repeated for a maximum of four hours credit.
- 235 Orchestra. One-half hour. I, II.**
Formerly MUS 135, 335, 435.
Rehearsal and performance of outstanding orchestra literature from the Baroque to the Contemporary eras. Concerts given both on and off campus. Three or more rehearsals per week. May be repeated for a maximum of four hours credit.
- 250 Small Ensembles. One-half hour. I, II.**
Formerly MUS 150, 350, 450.
Rehearsal and preparation of literature for the following ensembles: (a) Chamber Orchestra; (b) Brass Choir; (c) Percussion Ensemble; (d) Stage Band; (e) Clarinet Choir. May be repeated for a maximum of four hours credit.
- 255 Band. One-half hour. I, II.**
Formerly MUS 155, 355, 455.
Rehearsal and performance of standard band literature. Band includes both symphonic and concert units. Concerts given both on and off campus. Three or more rehearsals per week. May be repeated for a maximum of four hours credit.
- 256 Marching Band. One hour. I.**
Formerly MUS 156, 356, 456.
Preparation and performance of marching band shows during the football season. Three or more rehearsals per week. May be repeated for a maximum of four hours credit.

Music Theory, History and Literature

- 101 Orientation to Music. Two hours. A.**
Prerequisite: Approval of Chairman.
Fundamentals of music theory and literature providing an enrichment experience for students contemplating careers in music.

MUS MUSIC

- 181 Beginning Theory I. Four hours. I.**
Teaches the perception and understanding of music through an integrated development of hearing, analysis, composition, singing, and keyboard skills. Achieved through the study of relatively simple, short structures of music from the Late Baroque to the Early Romantic periods.
- 182 Beginning Theory II. Four hours. II.**
Prerequisite: MUS 181.
Continuation of MUS 181.
- 271 Enjoyment of Music. Three hours. I, II.**
May not count toward music major or minor.
Designed to provide the general college student with a cultural background in music. Masterpieces of music, composers, and musical techniques are presented through listening materials and through concert attendance.
- 272 Music Literature. Three hours. I.**
Formerly MUS 171.
Critical listening and score-reading of the standard repertory of music in Western Civilization from Gregorian plainchant to the contemporary era. May be waived upon demonstration of proficiency.
- 281 Intermediate Theory III. Four hours. I.**
Prerequisite: MUS 182.
Continuation of MUS 182. Integrated skills further developed through the study of more difficult, longer structure of music from the Early Baroque to the Early Modern periods.
- 282 Intermediate Theory IV. Four hours. II.**
Prerequisite: MUS 281.
Continuation of MUS 281.
- 360 Music Fundamentals for Elementary Teacher. Two hours. I, II.**
Open only to Elementary Education Majors who have been admitted to the Teacher Education Program.
Materials and methods designed to provide the grade teacher with sufficient knowledge and skills to teach music in the classroom. Attention given to notation, rhythmic participation, rhythm and melody instruments, creative activities, and listening experiences. Three discussion-laboratory hours per week.
- 366 Fundamentals of Conducting. One hour. I, II.**
Formerly Conducting.
Prerequisite: Junior standing in music or approval of instructor. Basic techniques in conducting.
- 367 Instrumental Conducting. One hour. I, II.**
Prerequisite: MUS 366.
Instrumental conducting techniques and their application in rehearsal and performance.
- 368 Choral Conducting. One hour. I, II.**
Prerequisite: MUS 366.
Choral conducting techniques and their application in rehearsal and performance.
- 371 Music History I. Three hours. I.**
Prerequisite: MUS 271 or approval of instructor.
Survey of music history from beginnings through the Baroque era.
- 372 Music History II. Three hours. II.**
Prerequisite: MUS 371 or approval of instructor.
Survey of music history from the Classic era to present.

MUS MUSIC

- 383 Orchestration. Two hours. I, II.**
Survey of ranges, timbres, and characteristics of orchestral instruments. Scoring for choirs and full orchestra.
- 384 Scoring for Band. Two hours. I, II.**
Formerly MUS 584.
Primary course in instrumentation and arranging for the band medium, including scoring for small ensembles, marching band, concert band, and other combinations of wind and percussion instruments.
- 385 Jazz Improvisation. Two hours. A.**
Prerequisite: MUS 182 and upper division status on a major instrument and approval of instructor. Open to music majors only.
Skills required by the instrumental performer for improvising in contemporary jazz idioms. May be repeated for a maximum of four credit hours.
- 415 Liturgics. Three hours. A.**
Historical survey of the development of liturgics as background for the work of the church musician.
- 416 Hymnology. Three hours. A.**
Development of the hymn; types of hymns and their uses; evaluation and effective use of materials in hymnals used today.
- 417 Techniques and Materials for Church Choirs. Three hours. A.**
Examination of sacred choral repertoire; study of conductor's skills and techniques; church choir administration; evaluation and effective use of materials in hymnals being used today.
- 418 Church Service Playing Techniques and Materials. Three hours. A.**
Study and practical application of skills in accompanying anthems and oratorios, hymn playing, improvisations; examination of repertoire for service playing; survey of liturgics in use today.
- 480 Form and Analysis. Three hours. I, II.**
Prerequisite: Junior standing in music.
Emphasis on materials of form; study of small part-forms with attention to motives, phrases, periods, cadences; compound forms; large instrumental forms; large and small vocal forms.
- 481 Counterpoint. Three hours. A.**
Formerly MUS 581.
Prerequisite: MUS 281 or equivalent.
Analysis and composition in sixteenth and eighteenth century contrapuntal styles including parts of the mass, two and three part inventions, and fugues.
- 483 Composition. Two hours. A.**
Formerly MUS 583.
Prerequisite: MUS 282 or equivalent or approval of instructor.
Individual guidance in the exploration and development of compositional techniques relevant to the student's stylistic direction. May be repeated once.
- 499 Recital. One or two hours. A.**
- 513 Accompanying. One hour. A.**
Formerly MUS 613.
Practical training in the tradition, interpretation and execution of accompaniments. May be repeated for a maximum of two hours credit.

MUS MUSIC

- 550 Teaching Techniques. One or two hours. A.**
Analysis of current teaching methods and materials with the intention of developing sound teaching procedures. May include observation and performance. Topics announced in woodwinds, brass, percussion, strings, voice, piano and organ. May be repeated for credit a maximum of two hours.
- 551 Performance Literature. One or two hours. A.**
Study and analysis of literature for various performing media relative to performance practices and problems. Topics announced in woodwinds, brass, percussion, strings, voice, piano and organ. May be repeated for credit a maximum of two hours.
- 555 Symphonic Music Literature. Three hours. I.**
Prerequisite: MUS 371 and 372.
Evolution of the symphony from its beginning to the 20th century, with emphasis on score reading and listening.
- 556 Choral Music Literature. Three hours. A.**
Formerly MUS 556 and 557.
Prerequisites: MUS 371 and 372.
Survey of choral music literature from the fifteenth century to the present.
- 563 Teaching Piano in Classes. Two hours. A.**
Prerequisite: Three years of piano study at the college level, or the equivalent. Methods and materials used in teaching of piano classes.
- 564 Advanced Instrumental Conducting. Two hours. A.**
Prerequisite: MUS 367 or equivalent.
Designed to increase skills in score reading, preparation, interpretation and conducting of representative orchestra or band works.
- 565 Advanced Choral Conducting. Two hours. A.**
Prerequisite: MUS 368 or equivalent.
Designed to increase skills in score reading, preparation, interpretation and conducting of representative choral works.
- 570 Band Pageantry. Two hours. A.**
Prerequisite: Approval of instructor.
Charting and scoring for the modern marching band.
- 572 Seminar in Music History. One to three hours. A.**
Formerly MUS 672
Intensive study in a specific historical era, genre or composer. Topics will be studied in this sequence: Medieval, Renaissance, Baroque, Classic/Romantic and Contemporary. Additional topics to be announced. May be repeated for a maximum of six hours.
- 584 Fundamentals of Electronic Music I. Two hours. A.**
Mechanics of the synthesizer. Emphasis on "sound possibilities" and their actual production.
- 585 Fundamentals of Electronic Music II. Two hours. A.**
Prerequisite MUS 584 or approval of instructor.
Composition through the use of the synthesizer.
- 586 Workshop in Instrumental Music. One to four hours. A.**
Topics in band or orchestral procedures. May be repeated for a maximum of four hours.

MUS MUSIC

- 587 Advanced Theory Survey. Three hours. A.**
Prerequisite: Approval of instructor.
Primarily intended for students in need of a thorough review in basic music theory. Intensive work in four-part writing, sight-singing, ear-training, keyboard harmony and analytical techniques.
- 588 Pedagogy of Theory. Two hours. A.**
Comparative study of theory systems with emphasis on presentation and illustrative exercises dealing with related theoretical problems.
- 589 Workshop in Choral Music. One to four hours. A.**
Techniques, literature and materials pertinent to a particular area, or areas, of preparation and performance of choral music. Topics to be announced. May be repeated for a maximum of four hours.

Graduate Courses

- 605 Chamber Music. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 612 Piano. One to five hours. I, II.**
Prerequisite: MUS 412. Four years or equivalent, as demonstrated by the student's proficiency on piano. May be repeated for a maximum of ten hours credit.
- 622 Voice. One to five hours. I, II.**
Prerequisite: MUS 422. Four years or equivalent, as demonstrated by the student's proficiency in voice. May be repeated for a maximum of ten hours credit.
- 625 Choir. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 626 University Singers. One-half hour. I, II.**
- 627 Opera Workshop. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 632 String Instruments. One to five hours. I, II.**
Prerequisite: MUS 432. Four years or equivalent as demonstrated by the student's proficiency on string instruments. Graduate applied instruction in violin, viola, violoncello or string bass. May be repeated for a maximum of ten hours credit.
- 633 Special Problems in String Teaching. One to three hours. A.**
Specialized study of problems in studio or class teaching. Exposure to special techniques for successful teaching of skills at all levels.
- 635 Orchestra. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 642 Organ. One to five hours. I, II.**
Prerequisite: MUS 442. Four years or equivalent, as demonstrated by the student's proficiency on organ. May be repeated for a maximum of ten hours credit.
- 645 Brass Instruments. One to five hours. I, II.**
Prerequisite: MUS 445. Four years or equivalent, as demonstrated by the student's proficiency on brass instruments. Graduate applied instruction in trumpet, French horn, baritone horn, trombone or tuba. May be repeated for a maximum of ten hours credit.

MUS MUSIC

- 646** **Woodwind Instruments. One to five hours. I, II.**
Prerequisite: MUS 446. Four years or equivalent, as demonstrated by the student's proficiency on woodwind instruments. Graduate applied instruction in flute, oboe, clarinet, bassoon, or saxophone. May be repeated for a maximum of ten hours credit.
- 647** **Percussion. One to five hours. I, II.**
Prerequisite: MUS 447. Four years or equivalent, as demonstrated by the student's proficiency in percussion. May be repeated for a maximum of ten hours credit.
- 650** **Small Ensembles. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 655** **Band. One-half hour. I, II.**
May be repeated for a maximum of one hour.
- 683** **Seminar in Choral Procedures. Two hours. A.**
Study of techniques and methods involved in preparation and performance of choral music, including emphasis on choral arranging for the various voice classifications. Includes a survey of junior and senior high school literature.
- 685** **Psychology of Music. Three hours. A.**
Reactions to musical stimuli; consideration of musical aptitude and achievement; application of psychological theories to musical learning.
- 686** **Advanced Counterpoint. Three hours. A.**
Prerequisite: MUS 481 or equivalent or approval of instructor.
Continuation of MUS 481 with emphasis on the compositions of the late Baroque era including canon, passacaglia and chorale prelude.
- 687** **Analytical Techniques I. Three hours. A.**
An intensive study of the structure of Renaissance, Baroque and Early Classic music.
- 688** **Analytical Techniques II. Three hours. A.**
Prerequisite: MUS 687 or approval of instructor.
An intensive study of the structure of Late Classic, Romantic and Modern music.
- 689** **Advanced Composition. Two hours. A.**
Prerequisite: MUS 483 or equivalent, or approval of instructor.
Continuation of MUS 483. May be repeated once.
- 696** **Special Project in Theory/Composition. Two hours. A.**
Requirement for the Master of Music, Specialization in Theory/Composition. May be fulfilled either by theory project or composition.
- 697** **Graduate Recital. Two or three hours. A.**
- 698** **Research in Music and Music Education. Two hours. A.**
Research techniques appropriate to music and music education; principles of research design; organization of the research report; analysis of representative research.
- 699** **Thesis. Three hours. I, II.**

Philosophy (PHI)

Miller, J. R., Chairman; B. Gray, B. Harris, W. Jones, Nordgulen, F. Williams.

The Department of Philosophy offers a comprehensive undergraduate major in philosophy for students who wish to understand the main ideological forces at work in both the East and the West. The departmental programs are designed to prepare students for graduate study at other universities as well as for advanced professional training in fields where a background in philosophy is highly recommended, such as the ministry and the legal profession. As part of the University's general goal to offer programs of study which prepare men and women to take their place in the continuing development of a democratic society, philosophy seeks to cultivate the art of effective and clear reasoning, and offers the student a thorough grounding in the terminology of the great philosophers and philosophical systems.

Bachelor of Arts Degree Curricula Major in Philosophy

MAJOR REQUIREMENTS	30 hours
PHI 110, 130, 211, 300, 301, and either 480 or 530, plus any additional 12 hours in Philosophy as approved by the department chairman. Six hours of Religion may be counted as part of the 12 hours.	
RECOMMENDED COURSES	
Majors in Philosophy are urged to take a foreign language.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, and GSS 247 or HIS 203, and 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	43 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Philosophy

A minor consists of any 18 hours in Philosophy, including at least 3 hours in either PHI 110, 130, 211, 300, or 301. Three hours of Religion may be counted in a minor.

Course Descriptions

PHI PHILOSOPHY

- 110 Introduction to Philosophical Thought. Three hours. I, II.**
Basic introductory course in philosophy, seeking to acquaint the student with the character of philosophical thinking, the main issues and problems to which the great philosophers have devoted themselves, and an understanding of the role of philosophy in today's world.
- 130 Introduction to Moral Philosophy. Three hours. I, II.**
Survey of representative theories concerning the nature of moral thought, and of representative arguments concerning particular moral problems. Contemporary issues will be discussed such as problems pertaining to physical and mental health.
- 211 Introductory Logic. Three hours. I, II.**
Study of principles fundamental to the development of critical and analytical reasoning skills; deduction; induction; analogical inferences; fallacies in reasoning; conceptual confusions; varied functions of language.
- 240 Introduction to Philosophy of Religion. Three hours. I, II.**
Study of ideas of belief and knowledge, nature and existence of God, doctrine of man, religious experience, meaning, ethics, faith. Philosophy of religion as religion coming to an understanding of itself.
- 300 Survey of Philosophy I. Three hours. I, II.**
History of philosophical thought as seen through an examination of selected philosophers from ancient Greece through Augustine.
- 301 Survey of Philosophy II. Three hours. II.**
History of philosophical thought as seen through an examination of selected philosophers from Augustine through Kant.
- 340 Philosophies of India. Three hours. A.**
Formerly Oriental Philosophy — Hinduism.
Study of the philosophies of India, Hindu and Buddhist, including Vedic Period, classical systems, Epic Period, heterodox systems, orthodox systems and contemporary thought.
- 345 Philosophies of China and Japan. Three hours. A.**
Study of the major philosophical traditions of China and Japan, including original, Han, and late Confucianism; Chou Schools, Neo-Taoism, Shinto, and Chinese and Japanese Buddhism.
- 350 Analytic Philosophy. Three hours. A.**
Analysis of some of the main problems which have exercised British philosophers in the twentieth century, e.g., Russell, Moore, Austin, Wittgenstein and Ryle.
- 360 Phenomenology. Three hours. A.**
Origin of the phenomenological movement in the writings of Brentano and Stumpf, its classical statement in the writings of Edmund Husserl, and its subsequent development in the writings of Scheler, Sartre, Heidegger, and Merleau-Ponty.
- 361 Existentialism. Three hours. A.**
Study of the sources of modern existentialism in the writings of Pascal, Hamann, Kierkegaard, and Nietzsche, and examination of such recent existentialists as Sartre, Camus, Unamuno, Jaspers, Buber, and Marcel.

PHI PHILOSOPHY

- 370 19th and 20th Century Idealism. Three hours. A.**
Study of Idealism as developed in the writings of such philosophers as Fichte, Schelling, Royce, Hegel, Bradley and Bosanquet.
- 375 Russian Philosophy. Three hours. A.**
Study of the origin and development of the schools and movements of Russian philosophy from the eighteenth century to the present, including Nihilism, Positivism, Personalists, Russian Neo-Kantians, Idealists, and Russian Marxism.
- 385 Philosophy of Technology. Three hours. II.**
Survey of contemporary theories concerning the interrelations of man, technology and nature. Pro-technology and anti-technology positions are considered through study of such representative theorists as Herbert Marcuse, Marshall McLuhan, Kenneth Boulding, and B. F. Skinner.
- 398 Ideological Foundations of Western Civilization. Three hours. I, II. CL HIS 598.**
Introduction to basic concepts in the ideological heritage of the Western World through the Enlightenment. Readings consist largely of selections from great books and documents in religion, science, economics, political theory, and philosophy.
- 399 Ideological Foundations of Western Civilization. Three hours. I, II. CL HIS 399.**
Introduction to basic concepts in the ideological heritage of the Western world from the romantic era to the present. Readings consist largely of selections from great books and documents in religion, science, economics, political theory, and philosophy.
- 410 American Philosophy. Three hours. A.**
Analysis of representative writings of major classical American philosophers, including Peirce, Royce, James, Dewey, Hocking, Whitehead, and Santayana. Attention given to the influence of Dewey and Whitehead on the American educational process.
- 420 Contemporary Ideas of God. Three hours. A.**
Study of some of the main concepts of God in contemporary thought, dealing with such Eastern thinkers as Radhakrishnan and Suzuki, as well as those in the Western tradition such as Berdyaev, Maritain, Buber, Altizer, Hartshorne, Findley, Cobb.
- 430 Symbolic Logic. Three hours. II.**
CL MAT 430.
Basic introduction to modern symbolic logic: Propositional calculus, first-order predicate calculus, proofs and metaproofs, nature and properties of formal logical systems.
- 450 Organizational Ethics. Three hours. I.**
Ethical principles will be discussed and applied to different policies, procedures, and practices of organizations in such areas as business, education, the military, and religion. Topics covered will include: the formulation of a general code of conduct for various organizations; loyalties and responsibilities of superiors and subordinates; personal versus organizational objectives.
- 480 Special Topics in Philosophy. Three hours. A.**
Prerequisite: Approval of instructor.
Detailed examination of a problem-area or a school of philosophy that has been significant in the history of philosophy or the thought of one outstanding philosopher. May be repeated for a total of six hours.

PHI PHILOSOPHY

- 490 Independent Work in Philosophy. Three hours. I, II.**
Prerequisite: Approval of instructor.
Individual research and reading on a specified philosophical problem chosen by the student and instructor. Regular consultation and final paper required. May be repeated for credit so long as the work is different from prior taking. May be repeated for a maximum of six hours.
- 510 Aesthetics. Three hours. A.**
Examination of the major philosophical theories of art and beauty and the place of aesthetic language in the general area of value judgments. Representative classical and contemporary figures will be considered.
- 515 Health and Biomedical Ethics. Three hours. I & II.**
An examination of the value-issues which surround problems which arise in health-related fields and whose resolution calls for moral judgments. Typical problems would include: euthanasia, experimentation with humans, behavior control, genetic engineering, distribution of health care facilities.
- 530 Seminar in Philosophy. Three hours. A.**
Prerequisite: Approval of instructor.
Intensive examination of a general philosophical subject such as metaphysics, epistemology or axiology. May be repeated for a maximum of six hours credit providing the course content is different each time.
- 550 Philosophy of Physical and Biological Sciences. Three hours. A.**
Formerly 450 and Philosophy of Science.
Examination of some basic concepts and presuppositions of the natural sciences. Hypotheses, theories and laws; reality-status of unobservable entities; conceptual models; induction and deduction in scientific method; impact of scientific revolutions; objectivity and value-neutrality; causality and indeterminism; reductionism and teleology.
- 560 Philosophy of Social and Behavioral Sciences. Three hours. A.**
Examination of some basic concepts and presuppositions of the social and behavioral sciences. Theory construction and testability; hypothetical constructs and intervening variables; association and causation; mathematical and conceptual models; the place of value-judgments; behaviorism; statistics, induction, and deduction.

REL RELIGION

- 301 World Religions. Three hours. I, II.**
Formerly Comparative Religions.
Study of the basic notions found in the world's great religions. Attention is given to the historical context of the development of these religions and to the doctrines, rituals and literature produced by them.
- 305 Survey of the Old Testament. Three hours. I.**
Formerly REL 101 and Introduction to Old Testament.
A survey of the history and religious development of the ancient Hebrews, with attention given to the religious concepts and values of the literature of the Old Testament.
- 306 Survey of the New Testament. Three hours. II.**
Formerly REL 201.
A study of the history of New Testament times and an examination of the meaning and significance of the teachings of Jesus and the writings of the early Church.

Physics (PHY)

George, T., Chairman; Faughn, Kuhn, Laird, Mahr, Sousa, C. Teague.

The primary function of the Department of Physics is to prepare the student for work in industry, do graduate work in Physics, engineering and various interdisciplinary fields where a basic knowledge of science is mandatory and to teach Physics and science in the public schools.

Bachelor of Science Degree Curricula Major in Physics

MAJOR REQUIREMENTS	34 hours
PHY 201, 202 and 24 hours of courses numbered 300 and above. (At the discretion of the chairman PHY 131 may be substituted for PHY 201.)	
SUPPORTING COURSE REQUIREMENTS	25-30 hours
CHE 111, 112 and the Mathematics courses necessary to meet prerequisites for Physics courses.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 3 hours Biological Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	18-23 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Physics (Teaching)

To revise the above program for teacher certification in Physics, the student would take the following professional education courses: EDF 102, 202, 317, PSY 211, ESE 451, 498, 499. Other changes in the basic curriculum are as follows: PHY 201, 202 and 20 hours numbered 300 and above. A teaching minor is required. It may not be necessary to take MAT 353.

Minor in Physics

A student with a major in another field may complete a minor in Physics by taking PHY 201, 202 and a minimum of eight additional hours of Physics numbered 300 and above for a total of 18 hours. PHY 131 may be substituted for PHY 201 and PHY 132 may be substituted for PHY 202. In addition, nine hours of Chemistry are recommended.

Minor in Physics (Teaching)

To revise the above program for teacher certification in Physics, three additional hours numbered 300 or above must be added to make a total of 21 hours in Physics and additional education courses.

Graduate Programs

The Department of Physics offers advanced degree programs. The Master of Science is designed primarily to prepare students for careers in industry, community college teaching and/or further graduate study in Physics. The Master of Arts in Education Degree with an emphasis in Physics is offered in the College of Education with the cooperation of the Department of Secondary and Higher Education. The regulations for the degree may be found in the College of Education section of the Graduate Catalog.

The Master of Arts in Education Degree with an emphasis in General Science is offered in the College of Education with the cooperation of the Department of Secondary and Higher Education and the other science departments. The regulations for the degree may be found in the College of Education section of the Graduate Catalog.

Course Descriptions

PHY PHYSICS

- 100 Introduction to Modern Physics. Two hours. A.**
Broad introductory survey of aspects of modern physics, including radioactivity and nuclear fission.
- 101 Physical Science (Physics). Three hours. I, II.**
(Not open to students who have completed college laboratory courses in physics.)
Designed to give the students whose primary interests are in other fields an understanding of some basic scientific problems and their importance in the scientific age. Topics on energy, sound, light, electricity, magnetism, and nuclear phenomena give the student a broad view of the universe. Two lecture and two laboratory hours.
- 107 Scientific Calculations. One hour. I, II.**
Designed to aid students in making scientific calculations easily and rapidly.
- 131 Elementary Physics. Five hours. I, II.**
Prerequisite: One unit each of high school algebra and plane geometry.
Fundamental ideas of mechanics, heat and sound. Four lecture hours; two laboratory hours.
- 132 Elementary Physics. Five hours. I, II.**
Prerequisite: PHY 131.
Fundamental ideas of electricity, magnetism and optics. Four lecture hours; two laboratory hours.
- 201 Mechanics, Heat and Sound. Five hours. I, II.**
Prerequisite: MAT 172.
Corequisite: MAT 111.
Composition and resolution of forces, laws of equilibrium, Newton's laws of motion, work and energy, momentum, simple harmonic motion, hydrodynamics, heat phenomena, sound and wave motion. Four lecture hours; three laboratory hours.

PHY PHYSICS

- 202 Electricity, Magnetism and Optics. Five hours. I, II.**
Prerequisite: PHY 201.
Electrostatics, nature of electricity, magnetism, Ohm's law, measurement of electrical quantities, sources of electrical energy, Lenz's law, inductance and capacitance, alternating currents, electromagnetic waves, optics. Four lecture hours; three laboratory hours.
- 221 Statics. Three hours. A.**
Prerequisite: PHY 201.
Corequisite: MAT 112.
Study of force systems on bodies at rest; descriptions of force systems; principles of statics; distributed forces; internal forces. Applications to hydrostatics, frames and trusses, beams. (Does not count toward a physics major.)
- 300 Modern Physics. Three hours. I.**
Prerequisite: PHY 132 or 202, and MAT 109.
Introduction to some important theories and experiments of modern physics. Topics covered include: theory of special relativity; quantum effects, particle aspects of electromagnetic radiation, wave aspects of material particles. Rutherford scattering and the nuclear atom; structure of the hydrogen atom, many-electron atoms and electron spin, and x-ray spectra.
- 301 Modern Physics II. Three hours. II.**
Prerequisite: PHY 300.
Instruments and accelerating machines used in nuclear physics, nuclear structure, radioactivity, nuclear reactions, elementary particles, introduction to molecular and solid state particles.
- 306 Classical Physics Laboratory. Two hours. I.**
Prerequisite: PHY 132 or PHY 202.
Laboratory experiments will be done in the classical fields of physics such as: mechanics, optics, electricity, and magnetism. Four laboratory hours per week.
- 307 Electronics. Four hours. A.**
Prerequisite: PHY 202 or PHY 132.
Theory of thermionic tubes and solid state devices, rectifiers, amplifier circuit principles, modern pulse circuitry, the oscilloscope. Three lecture hours. Three laboratory hours.
- 308 Atomic and Nuclear Laboratory. Two hours. II.**
Corequisite: PHY 301.
Performance of various experiments in Nuclear Physics, such as, radiation instruments, range and energy of particles, absorption, half-life, neutron moderators and neutron flux measurements, coincidence techniques. Four lab hours per week.
- 310 Methods of Mathematical Physics. Three hours. A.**
Corequisite: MAT 213.
Study of physical applications of infinite series, complex numbers, determinants, matrices, partial differentiation, multiple integrals, vector analysis, ordinary differential equations. Not available for credit toward a teaching minor in physics.
- 502 Physical Optics. Three hours. A.**
Prerequisite: PHY 202 or approval of instructor.
Corequisite: MAT 112.
Wave motion, reflection and refraction, further study of lenses, the telescope, dispersion, facts concerning the spectrum, interference, diffraction, plane polarized light, the electromagnetic theory of light, the quantum theory, origin of spectra.

PHY PHYSICS

- 503 Thermodynamics. Three hours. A.**
Prerequisite: PHY 202.
Corequisite: MAT 213.
Study of temperature, thermodynamic systems, ideal gases. First and second law of thermodynamics, Carnot cycle, Kelvin temperature scale, entropy.
- 506 Physics for High School Teachers. Three hours. A.**
Prerequisite: One year of college physics and approval of instructor.
Topics from general physics to prepare teachers to teach high school physics with ease and confidence. Topics from advanced and modern physics to impart extra knowledge and a greater understanding. Two lecture hours; three hours laboratory and discussion.
- 510 Special Problems in Physics. One to six hours. A.**
Prerequisite: PHY 202.
Special laboratory experiments, development of new equipment, or solution of special mathematical problems related to physics. May be repeated for a maximum of six hours.
- 516 Electricity and Magnetism I. Three hours. A.**
Prerequisite: PHY 202.
Corequisite: MAT 353.
D.C. and A.C. circuit analysis. Steady state solutions for D.C. networks, transient and steady state solutions for series circuits, complex vector solutions for A.C. networks. Brief introduction to theory of electrostatic fields.
- 517 Electricity and Magnetism II. Three hours. A.**
Prerequisite: PHY 516.
Continuation of PHY 516. Covers electrostatic problems, dielectrics, magnetic field, magnetic properties of matter and Maxwell's equations.
- 558 Classical Mechanics I. Three hours. A.**
Prerequisite: PHY 202.
Corequisite: MAT 353.
Introduction by means of calculus to formulation and use of principles of classical mechanics. Covers force and motion of particles, work, Newton's Law of Gravitation, free and forced harmonic oscillations, translational and rotational motion of rigid bodies, wave motion.
- 559 Classical Mechanics II. Three hours. A.**
Prerequisite: PHY 558.
Continuation of PHY 558. Covers central forces, generalized coordinates, LaGrange's equations, Hamilton's equations, vibrating systems and normal coordinates.
- 570 Quantum Mechanics. Three hours. A.**
Prerequisite: PHY 558.
Basic principles of wave mechanics, solutions of Schrodinger wave equation for simple systems. Interpretation of solutions and application to atomic and molecular problems.

Graduate Courses

- 600 Physics for Elementary School Teachers. One to six hours. A.**
Prerequisite: Approval of instructor.
Topics from general physics selected to aid the elementary teacher to teach physical science with greater confidence. Application of modern learning theories and psychological foundations with their implications for modern science curricula. Variable credit in lecture and laboratory. May be taken for a maximum of six credit hours.

PHY PHYSICS

- 601 Advanced Mathematical Physics. Three hours. A.**
Prerequisite: MAT 353.
Physical applications of Fourier series; calculus of variations; gamma, beta, and error functions; coordinate transformations; tensor analysis; function of a complex variable; series solutions to differential equations; integral transforms, partial differential equations; probability.
- 606 Selected Topics in Physics for Teachers. Three hours. A.**
Prerequisite: Approval of instructor.
Intensive study of topics in physics selected from the following fields: mechanics, thermodynamics, sound, electricity, magnetism, optics, and modern physics. Selection will depend upon the need of the students enrolled in the course. Two lecture hours; three hours laboratory and discussion.
- 608 Problems in Teaching of Secondary Physical Science. One to six hours. A.**
Study of problems in science relevant to secondary physical science. May be repeated for a maximum of six hours credit.
- 609 Inquiry Physics for Teachers. Three hours. A.**
For elementary teachers and physical science teachers. Topics in physics selected from the following: Mechanics, heat, sound, electricity, magnetism, and optics. Taught by an inquiry approach to prepare teachers to utilize discovery methods in their science teaching. Combined lecture-laboratory four hours per week.
- 610 Physics for Teachers of Physical Science. Three hours. A.**
Topics in physics selected from the following: Mechanics, heat, sound, electricity, magnetism, optics, modern physics, nuclear physics. Care will be taken not to duplicate subjects in PHY 609. Two hours lecture, two hours laboratory.
- 611 Demonstrations and Experiments for Physical Science Teaching. Three hours. A.**
Prerequisite: PHY 609 or PHY 610 or approval of instructor.
Designed to give practical experience in selecting, preparing, and using equipment for class demonstrations and experiments. Emphasis is placed on inexpensive equipment for the teacher of physical science. Combined lecture-laboratory four hours per week.
- 615 Advanced Nuclear Physics. Three hours. A.**
Prerequisite: PHY 570.
General properties of the nucleus; two body scattering problems; nuclear forces; nuclear models; theory of nuclear reactions; theory of beta decay.
- 620 Semiconductor Physics. Three hours. A.**
Prerequisite: PHY 559, PHY 570.
Band theory of solids; excess carriers in semi-conductors; materials technology and the measurement of bulk properties; p-n junction rectifiers and transistors; semiconductor devices.
- 625 Electromagnetic Waves. Three hours. A.**
Prerequisite: PHY 517.
Applications of Maxwell's Equations. Topics included are Maxwell's Equations, plane electromagnetic waves in free space and in matter; reflection and refraction, wave guides, radiation of electromagnetic waves, and electromagnetic fields of a moving charge.

PHY PHYSICS

- 640 Electronics II. Four hours. A.**
Prerequisite: MAT 353, PHY 307.
Theory of solid state devices; rectifiers; amplifiers; oscillators; pulse and digital circuits. Three lecture hours and three laboratory hours.
- 660 Advanced Classical Mechanics. Three hours. A.**
Prerequisite: PHY 559.
LaGrange's equations; variational principles; the two body problem; rigid body mechanics; special relativity.
- 662 Statistical Mechanics. Three hours. A.**
Prerequisite: PHY 559, PHY 503.
Systematic derivation of thermodynamic formulas; Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics; ensemble theory; distribution functions and partition functions; fluctuations; applications to gases and solids.
- 671 Intermediate Quantum Mechanics. Three hours. A.**
Prerequisite: PHY 570.
Schrodinger wave equations; eigenfunctions and eigenvalues; energy levels; collision theory.
- 680 Special Topics in Physics. One to three hours. A.**
Specially assigned theoretical or experimental work on premises not covered in other courses.
- 681 Selected Topics. One to three hours. A.**
Prerequisite: Approval of instructor.
Certain topics not normally presented that may be of interest to groups of certain students will be presented. Topics may include: nuclear physics; relativity; semi-conductors; angular momentum; atomic physics; electricity; acoustics. May be repeated for a maximum of three hours credit.
- 690 Thesis Research. One to six hours.**
Prerequisite: Approval of thesis-research advisor.
Research in physics followed by the preparation of a thesis under the guidance of the research advisor. May be repeated but a maximum of six hours may be applied toward a degree.

AST ASTRONOMY

- 130 Introductory Astronomy. Three hours. A.**
Elementary survey course: study of moon, sun, and eclipses; solar system; galaxy; sun's motion in and around the galaxy; far stars, farthest stars and techniques. Optical, radio, x-ray equipment and use. Non-laboratory.
- 330 Theories in Modern Astronomy. Three hours. A.**
Investigations into modern controversies concerning origins of earth, sun, planets, galaxies and universe. Considerations also of theories concerning the nature of pulsars, quasars and black holes. Non-laboratory.

Political Science (POL)

Singleton, A., Chairman; Blanchard, Dean, Fretty, Gurganus, Heberle, Kline, T. Kwak, Lamb, Lloyd, Ogden, Patton, Rainey, Vance.

The primary function of the Department of Political Science is to offer a meaningful understanding of government and the political process, and to direct the students into the many careers open to political science majors in government, public service, private enterprise, law, and teaching and to provide positive knowledge necessary to participate in the complexities of modern society. A Political Science major is useful in conjunction with other majors where a knowledge of politics and the political process is essential. It also prepares students for advanced graduate study in the discipline.

Political Science majors may choose a general course of study or may choose to emphasize one of the following sub-fields: American political process, comparative government, international relations, political theory and methodology, or public administration. Supporting courses vary according to the option chosen. The program of study in public administration has been developed on the basis of guidelines for undergraduate programs in public administration by the National Association of Schools of Public Affairs and Administration.

The Legal Assistance program is designed to prepare majors for a career as a legal assistant. Either a two-year or a four-year option is available.

The Transportation Systems program offers courses emphasizing the inter-relatedness of transportation systems with other societal systems.

Major in Political Science

MAJOR REQUIREMENTS 30 hours

POL 100, 101 and six hours from International Relations and/or Comparative courses; six hours from American and/or Public Administration courses; three hours from 555 or 556; plus nine hours in Political Science (a total of 15 hours must be in courses numbered 300 or above).

SUPPORTING COURSE REQUIREMENTS 0-18 hours

The student will be encouraged to choose at least 18 hours from a listing of supporting courses for the particular major option chosen. Lists of supporting courses vary for each option.

GENERAL EDUCATION REQUIREMENTS 49 hours

GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). **Refer to pp. 54-58 for detailed University general education requirements.**

FREE ELECTIVES	31-49 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Political Science (Teaching)

To revise the above program for teacher certification in political science, students must take a minor (teaching) and the following professional education courses and requirements:

EDF 102, 202 and 317; ESE 449, 498, and 499;
 PSY 211. (These requirements reduce the free electives by 26 hours plus the hours of the teaching minor, usually 21, for the usual grand total of 47.)

Minor in Political Science

POL 100 or 101 plus 15 hours, of which 9 hours must be in courses numbered 300 or above.

Minor in Political Science (Teaching)

To revise the above program for a teaching minor add three hours for a total of 21.

Major in Legal Assistance

MAJOR REQUIREMENTS	36 hours
LAS 101, 102, 399, 401; GBU 300, 302; LEN 314; POL 360, 460, 463 or 464, 565.	
SUPPORTING COURSE REQUIREMENTS	21-25 hours
ACC 108, 109, 322; ENG 301; OAD 151, 152 (or demonstration of equivalent typing skill); POL 101, 203 or 332, 370.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102, or 105; GSP 180, 181, 281; ENG 209, 210 or 211, 212; 6 additional hours of Humanities; 12 hours of Mathematics or Natural Science; GSS 246, 247 or HIS 202, 203, 6 additional hours of Social Sciences; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	12 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Transportation Systems: Environmental Aspects

MAJOR REQUIREMENTS	33 hours
TRA 300, 400, 500, 510; PLA 220, 334; POL 370; MKT 300, 315; EDP 312; and 3 hours from SOC 332, GEO 421 or POL 331.	
SUPPORTING COURSE REQUIREMENTS	12 hours
POL 101; GLY 206; GEO 210; STA 207.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 additional hours Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	28 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Transportation Systems: Environmental Aspects

TRA 300, 400, 500, 510; PLA 334; POL 370, a total
of 18 hours. (With a transportation minor, neither
PLA 334 nor POL 370 can count toward a major).

Associate of Arts Degree Curriculum Legal Assistance

FRESHMAN YEAR	31-35 hours
GSE 101 and 102 or 105; GSO 100; OAD 151, 152 (or demonstration of equivalent typing skills); POL 101; LAS 101, 102; General Education Elective in Humanities or Math/Science; ACC 108, 109; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	31 hours
ACC 322; ENG 301; GBU 300, 302; LEN 314; POL 203 or 332, 360; MIL 201, 202 (or options for men, electives for women).	
ELECTIVES	6 hours
FIFTH SEMESTER	4 hours
LAS 399.	
TOTAL CURRICULUM REQUIREMENTS	66-70 hours

Graduate Programs

The Master of Arts degree is offered as preparation for junior college teaching, as an intermediate degree for those who wish to continue their graduate careers, or as preparation for advanced positions in government, industry and other areas of employment. The Department offers a Master of Arts degree in Political Science as a 30 hour program. Students may emphasize international relations, comparative government, public law, American political process, public administration, or political theory, but POL 600 is required. All students must pass a reading examination in a modern foreign language or substitute a requirement in statistics as determined by advisors.

The Department offers the degree of Master of Public Administration primarily for persons interested in government service. The minimum requirements for completion of the degree consist of 36 hours, competence in statistics, and completion of a supervised internship. Specialized options in Judicial Administration and Public and Environmental Health Administration are offered. The Institute of Government, an administrative unit of the Department, serves as focus for many activities connected with the public administration offerings.

The Master of Arts in Education Degree with an emphasis in Political Science is offered in the College of Education with the cooperation of the Department of Political Science. The regulations for the degree may be found in the College of Education section of the Graduate Catalog.

For further information concerning the objectives and areas of course work, admission requirements, the Graduate Record Examination, comprehensive and oral examinations, as well as other pertinent matters, see the Graduate Catalog.

Course Descriptions

Sub fields of Political Science courses numbered 300 through 600's are indicated by the numbering sequence as follows: Comparative Government — 10's, International Relations — 20's, American (State and Local) — 30's, American Political Process — 40's, Judicial Process — 60's, Public Administration — 70's, Theory — 50's, Special Topics and Methodology by 00's and 90's.

POL POLITICAL SCIENCE

- 100 Introduction to Political Science. Three hours. I, II.**
Survey of the political characteristics of modern democracies and dictatorships and their relation to governmental institutions and practices, with reference to the government of the United States.
- 101 Introduction to American Government. Three hours. I, II.**
Principles, functions, and basic political institutions of the American system of government at the national level.
- 201 Comparative Politics. Three hours. I, II.**
Introductory study of politics by use of comparison. Examination of some basic concepts regarding the organization and functioning of government and politics by comparison of selected aspects of politics in different societies.

POL POLITICAL SCIENCE

- 202 Introduction to International Politics. Three hours. I, II.**
Introductory survey of basic principles and forces of international politics and foreign policy, with emphasis on the international behavior of the great powers.
- 203 American State and Local Government. Three hours. I, II.**
Study of the institutions and processes of government of the fifty states and of cities and counties.
- 301 Research and Writing in Political Science. Three hours. I, II.**
Prerequisite: Majors only.
Practical application of techniques and methods used in collection, analysis and written presentation of political data.
- 315 Politics of Western Democracies. Three hours. A.**
Prerequisite: Three hours of political science or approval of instructor.
Examination of major characteristic similarities and differences in the political systems of selected Western Democracies.
- 316 Government and Politics in U.S.S.R. Three hours. I.**
Prerequisite: POL 100 or approval of instructor.
Survey of domestic politics in the U.S.S.R. including the background and development of the Soviet system, the party-state structure, the policy-making process and power struggle, and relation of the system to Soviet society.
- 321 American Foreign Policy. Three hours. II.**
Prerequisite: Three hours of political science or approval of instructor.
Analysis of the internal processes and external factors which affect U.S. foreign policy, with emphasis on the post-World War II period.
Case studies in decision-making.
- 327 International Law and Organization. Three hours. A.**
Prerequisite: Three hours of political science or approval of instructor.
Analysis of the development of the U.N.; functional and regional approaches to peace, security, economic cooperation, social welfare, and law in international relations.
- 331 Urban Politics. Three hours. A.**
Political processes of urban areas including comparisons of alternative structures of urban and other local governments.
- 332 Government of Kentucky. Three hours. I, II.**
Political setting, popular control of government, constitution, legislature, governor, courts, local government, finance, functions of government and relation to national government. (Credit not allowed for POL 332 and either POL 400B or POL 401B.)
- 340 American Politics: Parties, Public Opinion and Pressure Groups. Three hours. I.**
Prerequisite: POL 101 is recommended.
Informal political institutions of American government; functions, organization, financing of political parties, public opinion and pressure groups. Their relationship to democracy.
- 341 The Legislative Process: Congress and State Legislatures. Three hours. I.**
Prerequisite: POL 101 is recommended.
A systematic examination of the decision-making process in Congress and State Legislatures.

POL POLITICAL SCIENCE

- 342 The American Chief Executive: President and Governor. Three hours. II.**
Prerequisite: POL 101 is recommended.
An examination of the power and functions of the offices of the President and Governor. Recent developments affecting the American President will be emphasized.
- 345 Minority Group Politics. Three hours. A.**
Prerequisite: POL 101 is recommended.
Examination and comparison of various theories, strategies, forms of participation, leadership styles, and concepts (e.g., Black Power) of minority group politics.
- 357 American Political Thought. Three hours. I.**
Study of the political philosophy and values that have shaped the American political system. Emphasis given to problems in democratic theory and to competing ideologies within the American political system.
- 360 Judicial Process. Three hours. A.**
Prerequisite: Three hours of political science or approval of instructor.
Study of legal and judicial systems in the United States, and their role in the American political process.
- 370 Introduction to Public Administration. Three hours. I.**
Prerequisite: POL 101 or 203.
Survey of organization, authority, decision-making, intra-organization communications and application of principles to the American bureaucracy by case studies.
- 371 Governmental Administration of Social Services, Programs, and Agencies. Three hours. A.**
Prerequisite: Three hours of political science, social work, law enforcement, recreation, or approval of instructor.
Examination of the political and administrative problems in public agencies and survey of management tools available to those responsible for the delivery of social services.
- 400 Frankfort Administrative Internship. Fifteen to eighteen hours. A.**
The courses include:
- 400A Internship in State Government. Three hours.**
- 400B Kentucky State Government and Constitution. Three hours.**
(Credit not allowed for both POL 332 and POL 400B.)
- 400C Problems of State Government. Three hours.**
- 400D Administration of State Agencies. Three hours.**
- 400E Research for State Government. Three to six hours.**
Internship is for upper-division students who have a definite interest in employment in public service. Enrollment is limited and by invitation only.
- 401 Legislative Internship. Fifteen hours. A.**
The courses include:
- 401A Legislative Internship. Three hours.**
- 401B Kentucky State Government and Constitution. Three hours.**
(Credit not allowed for both POL 332 and POL 401B.)
- 401C Legislative Process. Three hours.**
- 401D Involvement in Government. Three hours.**

POL POLITICAL SCIENCE**401E Analysis of Contemporary Problems in State Government Administration. Three hours.**

Internship is for upper-division students who have a definite interest in the Legislative process in the Commonwealth. Enrollment is limited and by invitation only.

405 Special Topics in Political Science. Three hours. A.

Exploration of a particular topic: theorist, institution, process, policy, writings, or their combinations. Prerequisites set by the department. May be repeated for a maximum of six hours provided subject matter is different each time.

415 Totalitarianism in the Twentieth Century. Three hours. A.

Comparative study of "totalitarian" political systems including their acquisition of power, characteristics, policies, and ideological foundations; consideration of totalitarian models and theories derived from them and their value in the comparative study of politics.

416 World Communism. Three hours. II.

Prerequisites: Six hours of political science or approval of instructor. Survey of theory and practices of international communism as promoted by Marx, Lenin, Stalin, Mao, Castro, and others; analysis of interaction and change within the world communist system, including organization efforts, strategies and goals of the system, with major consideration to the current era of polycentrism.

440 Voting Behavior. Three hours. A.

Prerequisite: POL 101 is recommended.

Survey of recent research in the field of voting behavior particularly, but not exclusively, in the U.S. Topics include public opinion and polling, participation, and campaign behavior. Attention paid to methodologies and techniques used in voting behavior research.

460 Law and Society. Three hours. A.

Examination of the sources, nature, function and limits of law as an instrument of social and political control and direction. Illustrative examples taken from property, torts, contracts and criminal law as well as selected areas of public policy.

463 Constitutional Politics. Three hours. A.

Prerequisite: POL 360 or approval of instructor.

Examination of constitutional problems arising out of the structure of American Government. Topics include judicial review, constitutional limits on legislative and executive powers, federalism, national powers over the economy, war powers. Emphasis on cases in their legal and political context.

464 Law and Politics of Civil Liberties. Three hours. A.

Prerequisite: POL 360 or approval of instructor.

Intensive study of the legal, philosophic and political ramifications of four historic and contemporary problems of civil liberties: Freedom of expression and association, church-state relations, and defendants' rights. Emphasis on case study.

490 Independent Work in Political Science. One to three hours. A.

Prerequisite: Approval of department.

Individual research and/or reading on a problem or area within the field of political science chosen by the student after consultation with instructor. Regular reports and final research paper required. May be repeated for a total of six hours.

POL POLITICAL SCIENCE

- 495 Practicum in Political Science. One to three hours. A.**
Formerly POL 500.
Prerequisite: Approval of departmental chairman.
Supervised field study program. May be repeated for maximum of six hours credit provided subject matter is different each time course is taken.

The courses include:

- 495A Practicum in American Political Process.**
- 495B Practicum in Comparative Politics and International Relations.**
- 511 British Government and Commonwealth. Three hours. A.**
Study of constitutional system and political institutions of Great Britain and their transfer to diverse Commonwealth nations: e.g., India. Comparative study of historical, geographical, social and economic variables which affect the nature of the political system.
- 512 Government and Politics of China. Three hours. A.**
Analysis of political development, organizational structure and operation of Chinese political systems with particular emphasis on Chinese Communism, foreign policies and contemporary problems in China.
- 513 Government and Politics of Japan and Korea. Three hours. A.**
Comparative analysis of political development, organizational structures and operation of political systems of Japan, and Korea with particular emphasis on interaction of the two countries with the United States.
- 516 Policy-making and Administration in Communist Regimes. Three hours. A.**
Analysis of Communist political institutions, with emphasis on decision-making and administration; relation of Communist Parties to other governmental institutions; leadership; interest groups; principles and problems of Communist administration.
- 517 Politics and Modernization. Three hours. A.**
Comparative study of politics in contemporary African, Asian, Latin American, and Middle Eastern societies to consider the relationship between political change and the broader social change called modernization.
- 518 Political Culture and Socialization. Three hours. A.**
Prerequisite: Three hours of political science, sociology, or psychology, or approval of instructor.
Processes, agents, and goals which affect the formation, expression, and impact of political behavior by citizens in the United States and other countries.
- 521 Contemporary International Relations. Three hours. A.**
Prerequisite: Six hours of political science or approval of instructor.
Systematic analysis of major contemporary theories and approaches to the study of international politics and foreign policy.
- 525 Workshop in International Affairs. Three hours. A.**
Explores major problems in international affairs. Covers various areas of the world with reference to significant background factors and international problems of the people. Designed for secondary teachers in the social science field although open to other qualified students. Offered only during summer session.

POL POLITICAL SCIENCE

- 530 Problems in Metropolitan and Municipal Government and Politics. Three hours. A.**
Formerly called Municipal Government and Administration.
Prerequisite: POL 331 is recommended.
Examination and comparison of intergovernmental, social, fiscal and other economic problems and their impact upon metropolitan and municipal politics.
- 533 Workshop in Local Government and politics. Three hours. A.**
Focuses attention on major problem areas of Kentucky local government. Different areas of concern will be explored each time the course is offered.
- 541 Politics and Education. Three hours. A.**
Prerequisite: Approval of instructor.
Examination of political decision-making and public policy in the field of education including participants in school decision-making, educational interest groups, distribution of educational power across several levels of government, and impact of schools in the process of political socialization.
- 555 History of Political Theory I. Three hours. I.**
Survey of political thought from the time of Plato to the Reformation.
- 556 History of Political Theory II. Three hours. II.**
Survey of political thought from the sixteenth century to the present.
- 564 Judicial Administration. Three hours. A.**
Examination of principal aspects of judicial administration: Organization of the judicial system; relation of judicial system to other governmental agencies; court personnel management; court budgeting and fiscal management; jury selection and administration; calendar management; record keeping.
- 565 Administrative Law. Three hours. A.**
Prerequisite: Graduate standing or approval of instructor.
Nature of the powers vested in administrative agencies; the problems of administrative procedure; and the methods and extent of judicial control over administrative action.
- 570 Public Management Systems. Three hours. A.**
Prerequisite: POL 370 or graduate standing.
Examination and evaluation of methods and tools for analyzing operations and structures in public organizations: e.g., uses of and relationships among systems analysis, operations research, program and performance budgets, EDP as techniques available for governmental decision-making.
- 575 Governmental Organization and Administrative Theory. Three hours. A.**
Prerequisite: POL 370 or graduate standing.
Comparison of governmental organizations to other organizations within the society and analysis of the differences and their impact upon theories and practices of administration in public agencies.
- 576 Public Personnel Administration. Three hours. A.**
Principles and problems of recruitment, examination procedures, rating, classification and assignment to the job, with the philosophies of pay, promotion, employee motivation and discipline analyzed. Process of formulating and administering public personnel policies; concepts and principles utilized in selecting governmental personnel systems. Focus upon American national, state and local personnel systems.

POL POLITICAL SCIENCE

- 577 Public Finance Administration. Three hours. A.**
Interactions among the administrative, legal, and legislative aspects of the fiscal decision-making process at federal, state, and local levels.

Graduate Courses

- 600 Research Methods in Political Science. Three hours. A.**
Prerequisite: Graduate standing in political science.
Bibliography and development of political science.
- 610 Seminar in Comparative Politics. Three hours. A.**
Prerequisite: Approval of instructor.
Theories, analytic and organizing techniques, and sources of data utilized in comparative analysis of political environments, behaviors, structures, functions, processes, and/or policies.
- 620 Seminar in International Relations. Three hours. A.**
Prerequisite: Approval of instructor.
Inquiry into contemporary problems of international affairs; the nation-state system and concepts of national interest in modern politics; the forms and distribution of power by which states seek to implement national interests; the making of foreign policy and methods of adjusting international conflict.
- 635 Seminar on Intergovernmental Relations. Three hours. A.**
Prerequisite: Approval of instructor.
Study of adoption, maintenance, and operations of the American federal system. Attention focused on different interlevel and inter-jurisdiction relationships within the system to analyze its development and ability to deal with current problems.
- 643 Seminar in Political Process. Three hours. A.**
Prerequisite: Approval of instructor.
Examination of theories of community power structure; analysis of political activity by pressure groups; legislative process; survey and evaluation of sources for political information. Conducted through discussions of problems arising in relationship between educational institutions and political affairs.
- 653 Seminar in Political Theory. Three hours. A.**
Intensive study of selected problems or writers.
- 663 Seminar in Public Law. Three hours. A.**
Prerequisite: Approval of instructor.
Study in depth of selected problems in public law.
- 644 Judicial Administration Seminar. Three hours. A.**
Prerequisite: POL 564 and enrollment in or completion of POL 670.
Intensive study of selected problems in Judicial Administration. Emphasis will be placed on problems and interests developing from students' internship experience.
- 670 Public Administration Internship. Three to twelve hours. A.**
Prerequisite: Graduate standing and by invitation only after the completion of the MPA preliminary examinations.
Students will work under Department supervision in an office or with an official of a public agency or local government. A written report must be submitted to earn credit. May be repeated for a total of 12 hours.

POL POLITICAL SCIENCE

- 673 Seminar in Theory of Public Administration. Three hours. A.**
Prerequisite: Approval of instructor.
- 695 Special Problems. One to three hours. I, II, S.**
May be repeated for a total of six hours provided that a different problem is studied each time.
- 699 Thesis. Three hours. I, II, S.**
May be repeated for a total of six hours.

Legal Assistant Courses**LAS LEGAL ASSISTANT**

- 101 Introduction to Legal Assistance. Four hours. I.**
The career of legal assistant, the role of the lawyer in society, legal ethics, survey of court systems. Intensive work in legal bibliography and legal research. Three lecture and two laboratory hours.
- 102 Introduction to Civil and Criminal Procedure. Four hours. II.**
Prerequisite: LAS 101.
Intensive study of civil and criminal procedure and the drafting of related legal documents. Three lecture and two laboratory hours.
- 399 Legal Assistant Internship. Four hours. A.**
Prerequisite: LAS 101, 102.
Supervised work experience as legal assistant in a law office. Supervision by Director of Legal Assistant Program in conjunction with employer. Periodic meetings of interns with director to discuss experiences.
- 401 Legal Assistant Seminar. Three hours. I.**
Prerequisite: LAS 399.
Intensive study of selected problems of legal assistance. Emphasis will be placed on problems and interests developing from students internship experience.

Transportation Courses**TRA TRANSPORTATION**

- 300 Introduction to Transportation Studies. Three hours. A.**
Introductory survey of transportation systems and their relationships to other societal systems. Integral to the course is the student's involvement in relating the field of transportation to the student's prior studies in other areas.
- 400 Studies in Transportation. Three hours. A.**
Prerequisite: Approval of instructor.
Study of special topics related to transportation systems. Topics will include physical, social and/or political environmental aspects of transportation. May be repeated once for a maximum of six hours credit if subject matter is different each time.

**TRA TRANSPORTATION SYSTEMS:
ENVIRONMENTAL ASPECTS**

- 500 Independent Study in Transportation. Three hours. A.**
Prerequisite: TRA 300 and approval of instructor.
Individual research and/or reading on a problem or area in transportation chosen by the student after consultation with the course instructor. May be repeated once for maximum of six hours if subject matter is different each time.
- 510 Senior Seminar in Transportation. Three hours. A.**
Prerequisite: Approval of instructor.
Study of transportation problems of modern society with attention to current and projected solutions to those problems.

Psychology (PSY)

Enzie, R., Chairman; S. Falkenberg, V. Falkenberg, Genthner, Hindman, J. Lee, Parkhurst, Peoples, Riggs, Rottersman, Seyfrit, Shuntich, Trenary, Watkins.

The fundamental involvement of psychological factors in all areas of human endeavor requires that departmental curricula serve several purposes. Uppermost among these are:

Acquaint the student with the content and methods of systematic psychology.

Prepare the prospective graduate student for advanced work in professional and scientific psychology and/or related areas.

Offer areas of selective emphasis of content as service courses for minors and supporting preparation in other curricula.

Several areas of selective emphasis are available for majors in terms of their plans for seeking employment or for advanced study in psychology and/or related fields. These include personality-social, biological factors, abnormal-clinical, developmental and experimental research. Students planning to teach psychology should have some course background in animal biology, (including physiology) and in physical sciences, along with principles courses in other behavioral sciences.

Bachelor of Science Degree Curriculum Major in Psychology

MAJOR REQUIREMENTS	30 hours
PSY 211, 291, 301 (These three courses are to be scheduled for completion before the junior year if possible). One hour advanced lab credit. One of the following: 311, 313, 315. One of the following: 302, 319, 402, 490. Two of the following: 305, 308, 312, 314, 404, 500, 501. Unrestricted Electives: Any two psychology courses.	
SUPPORTING COURSE REQUIREMENTS	3 hours
MAT 107.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101 and 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 hours additional Social Sciences; 9 hours Mathematics and Natural Science including 3 hours Physical Science, 3 hours Biological Science, and 6 hours of Laboratory Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	43 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Psychology (Teaching)

To revise the psychology major for teacher certification in psychology, the student is required to take the following professional education courses: EDF 102, 202, 317, ESE 449, 498, 499.

Minor in Psychology

A minor consists of 18 hours of psychology including PSY 211 and 291. A total of 21 hours is required for a teaching minor.

Second Major in Psychology

Specific courses and minimum total hours required are the same for both a first or a second major in psychology.

Graduate Programs

The department offers major work for the Master of Science Degree with emphasis in Clinical Psychology or School Psychology and the Master of Arts Degree with emphasis in General Psychology. Students pursuing the M.S. Degree and carrying a full program can expect to complete requirements in

four semesters and one summer term, including the full-time one semester internship. Graduate assistants in the M.S. program will require four semesters and two summer terms to complete degree requirements. Students pursuing the M.A. Degree and carrying a full program can complete course requirements in two semesters, including six hours of thesis research. However, most students may find that an added summer term will be needed to complete their research. Students majoring in other departments may elect selected graduate courses in psychology.

Course Descriptions

PSY PSYCHOLOGY

- 211 General Psychology. Three hours. I, II.**
Prerequisite: Second semester Freshmen.
Introduction to foundation concepts in the various areas of psychology.
- 291 Psychology: Statistical-Experimental I. Four hours. I.**
Prerequisite: MAT 107 or 109 and PSY 211.
Introduction to techniques and problems of the experimental method and statistical analysis in psychology. Representative experiments and data analysis.
- 301 Psychology: Statistical-Experimental II. Four hours. II.**
Prerequisite: PSY 291.
Continuation of PSY 291.
- 302 Tests and Measurements. Three hours. A.**
Prerequisite: PSY 211.
Principles of measurement with application to informal and standardized tests used in education, business, industry, and government. Problems of administration, scoring, and appraisal are considered.
- 305 Psychology of Personality Three hours. I, II.**
Prerequisite: PSY 211.
Basic approaches to the study of personality. Theory and fact upon which these approaches are related to various kinds of behavior patterns.
- 308 Abnormal Psychology. Three hours. I, II.**
Prerequisite: PSY 211.
Descriptive study of the nature, course classification and prevalence of abnormal behavior, with attention to intellectual, personality, cognitive, sensory and motor functions.
- 311 Physiology Psychology. Three or Four hours. A.**
Prerequisite: PSY 291 or approval of instructor.
Facts, concepts and principles regarding physiological events that underlie behavior. Attention to contemporary research methods and problems undergoing study. Three hours lecture; two hours laboratory for those students electing the four credit option.
- 312 Developmental Psychology I. Three hours. I, II.**
Formerly Child Psychology.
Prerequisite: PSY 211.
Theoretical and empirical approaches to the development of the infant and child with attention to perceptual, behavioral, social and cognitive development and the capacity for learning.
- 313 Learning. Three or four hours. A.**
Prerequisite: PSY 291.
Experimental study of learning, transfer and retention processes with an analysis of various kinds of learning. Three lecture hours; two laboratory hours required for students electing the four credit option.

PSY PSYCHOLOGY

- 314 Developmental Psychology II. Three hours. A.**
Formerly Adolescent Psychology.
Prerequisite: PSY 211.
Developmental study with emphasis on changes during adolescence, adulthood, aging and senescence.
- 315 Sensation and Perception. Three or four hours. A.**
Prerequisite: PSY 291.
Experimental study of sensation and perception, the sensory and cognitive processes by which man knows his world. Three lecture hours; two laboratory hours required for students electing the four credit option.
- 319 Organizational Psychology. Three hours. A.**
Prerequisite: PSY 211.
Human factors in the organizational patterning of business, industry, hospitals, churches and other cultural institutions.
- 402 Industrial Psychology. Three hours. A.**
Prerequisite: PSY 211.
Methods and principles of psychology as applied to business and industry. Emphasis is on employee selection, classification, training and evaluation.
- 404 Motivation and Emotion. Three hours. A.**
Prerequisite: PSY 291 or approval of instructor.
Study of biological and learned variables in motivated behavior including reflexes, instincts, imprinting, emotion, cognitive and other neuro-physiological phenomena.
- 407 Problems in Psychology. One to three hours. A.**
Formerly PSY 507.
Prerequisite: PSY 291 and approval of instructor.
Qualified students may outline and study a definite problem in some areas of psychology for one, two or three hours of credit. Amount of credit depends on nature and extent of the problem studied. Results must be presented in a formal paper. May be repeated for a total of six hours credit providing a different problem is studied each time.
- 490 Clinical Psychology. Three hours. A.**
Prerequisite: PSY 305.
Survey of clinical theories, methods and approaches.
- 497 Special Topics in Psychology. Three hours. A.**
Prerequisite: PSY 211 and approval of department.
Selected topics for intensive study. Variable topics across semesters in terms of student interest and available faculty.
- 500 Social Psychology. Three hours. I, II.**
Prerequisite: PSY 211.
Behavior of individuals in relation to personality, social, and cultural systems.
- 501 Theories of Learning. Three hours. I.**
Prerequisite: PSY 291 or approval of instructor.
In-depth study of learning theories. Emphasis on contemporary developments and current research.

Graduate Courses

PSY PSYCHOLOGY

- 620 Statistics and Research Design. Three hours. I.**
Prerequisite: PSY 291 and 301 or equivalent.
Principles and techniques of scientific observation, control, and analysis specifically oriented to research in psychology.
- 622 Personality Development. Three hours. I.**
Prerequisite: Approval of department.
Theories and research concerning the structure, function, and development of the normal personality.
- 624 Intellectual Assessment. Three hours. I.**
Prerequisite: Approval of department.
Techniques, principles and problems in the administration, interpretation, and reporting of both individual and group tests of intelligence.
- 625 Personality Assessment. Three hours. I.**
Prerequisite: Approval of department.
Techniques, principles, and problems of evaluating personality via interviews, objective and projective testing. Emphasis on integration of results.
- 626 Professional Concerns. One hour. II.**
Prerequisite: Approval of instructor.
Consideration of ethical and related problems of psychologists.
- 629 Analysis of Behavior. Three hours. I.**
Prerequisite: Approval of department.
Principles of the analysis of psychological phenomena from the behavioral viewpoint. Emphasis on analysis of complex human behavior.
- 640 Rorschach. Three hours. II.**
Prerequisite: PSY 625 or approval of department.
Administration, scoring and interpretation of the Rorschach ink blot technique with emphasis on integration with other assessment data.
- 641 Seminar in Abnormal Behavior. Three hours. II.**
Prerequisite: PSY 622 or approval of department.
Etiology and description of various aspects of psychopathology and ineffective behavior.
- 643 Practicum. Four hours. A.**
Formerly part of PSY 660, 663, 684, and 685.
Prerequisite: Approval of department.
Supervised practice in applied settings. Selective participation with an assigned agency varies with the student program, with his level of preparation in course work and any previous supervised field experience. Class meetings as arranged and two full work days for 16 weeks in the assigned agency. Must be repeated once for a total of 8 credit hours. Graded Pass-Fail.
- 645 Specialized Techniques: Play Therapy. Two hours. A.**
Prerequisite: PSY 643.
Special arrangements for supervised practice in child therapy. Considerations of theory and practice with specialized methods with children. Class meetings by arrangements and one patient contact day per week.
- 646 Specialized Techniques: Behavior Modification. Two hours. A.**
Prerequisite: Approval of department.
Supervised practice in the use of specialized conditioning techniques in behavior change. Theory and methods in clinical practice. Class meetings arranged and one day per week in applied settings.

PSY PSYCHOLOGY

- 647 Specialized Techniques: Group Psychotherapy. Two hours. A.**
Prerequisite: PSY 643.
Supervised experience in therapy with groups. Theory and method of group therapeutic processes. Graded Pass-Fail.
- 648 Introduction to School Psychology. Four hours. A.**
Prerequisite: Approval of department.
Theory, observation, and supervised practice in the role of the school psychologist. Includes systems analysis, the consultation process, and interprofessional relationships.
- 650 Psychotherapy and Behavior Change I. Three hours. II.**
Prerequisite: PSY 641 or approval of department.
A didactic and experiential introduction to the theories and techniques facilitative of personal growth and behavior change.
- 653 Psychophysiology. Three hours. I.**
Prerequisite: Approval of department.
A survey of the principles, research and methodology of psychophysiology including consideration of the autonomic correlates of emotion and arousal, biofeedback, psychosomatic diseases and psychophysiological correlates of psychopathology.
- 660 Psychotherapy and Behavior Change II. Three hours. I.**
Prerequisite: PSY 650 or approval of department.
The in-depth study of techniques selected from those presented in PSY 650. Emphasis will be placed on developing proficiency in such skills and techniques.
- 662 Research in Professional Psychology. Three hours. A.**
Prerequisite: Approval of department.
Evaluation of research designs and their implementation in professional settings. Emphasis is on preparing the student to be a research consumer.
- 669 Community Psychology. Three hours. I.**
Prerequisite: Approval of department.
An overview of the theory and methods of consultation to mental health agencies in community settings.
- 670 Seminar in Sensation and Perception. Three hours. A.**
Prerequisite: PSY 301 or 311, and approval of instructor.
Selected areas of contemporary theory and research. Attention, alertness and other recent and classical problems of central nervous system involvement in perception. Representative models of the perceptual processes as advanced by leading theorists.
- 671 Animal Behavior. Three hours. A.**
Prerequisite: PSY 313 and/or approval of instructor.
Critical areas of research on determinants of animal behavior. Emphasis on experimental findings regarding innate and species specific factors, learning processes including reinforcements, discrimination, insight and learning set phenomena. Two lecture hours, two laboratory hours.
- 672 Symbolic Processes. Three hours. A.**
Prerequisite: Approval of instructor.
Verbal learning, concept formation, problem solving, creativity. Special emphasis on human symbolic processes in verbal behavior.
- 673 Seminar in Physiological Psychology. Three hours. A.**
Prerequisite: PSY 311 or equivalent and approval of instructor.
Selected areas of contemporary theory and research. Special reference to circulatory, endocrine and neurophysical systems.

PSY PSYCHOLOGY

- 677 Experimental Social Psychology. Two hours. A.**
Prerequisite: PSY 620, and 500 or equivalent.
Methodological and basic content problems and procedures in personal-social interaction. Special reference to contemporary theory and research.
- 678 Experimental Personality Psychology. Three hours. A.**
Prerequisite: Approval of instructor.
Examination of current methodology and empirical data with reference to investigations of personality variables.
- 680 Advanced Child and Exceptional Child. Three hours. A.**
Prerequisite: PSY 622 or approval of Department.
Theoretical issues and practical problems in intellectual, social, perceptual, physical and personality development with implications for education and adjustment.
- 687 Independent Work in Psychology. One to three hours. A.**
Prerequisite: Approval of instructor.
Student responsibility for conceptualization and investigation of research problem and drawing formal conclusions. May be repeated for a maximum of six hours credit providing a different problem is studied each time.
- 690 Thesis Research. One to six hours. A.**
Prerequisite: Approval of department.
Experimental investigation of a selected topic, including preparation of a formal report. May be repeated for a maximum of six credit hours.
- 699 Internship. Ten hours. A.**
Prerequisite: Approval of advisor.
Intensive supervised practicum in approved setting. Graded Pass-Fail.

Speech and Theatre Arts (SPE & THE)

Benson, R., Chairman; Huss, Robinette, Brothen, T. Smith, Sporre, Druessedow, Johnson.

The Department of Speech and Theatre Arts offers major programs in Speech, Speech and Theatre Arts, and Theatre Arts; and, in conjunction with the Department of Music, a Bachelor of Fine Arts in the Performing Arts.

The Speech and Theatre Arts Department offers two scholarships: The Pearl Buchanan Scholarship for Drama and the Clarence Gifford Scholarship in Drama.

Bachelor of Arts Degree Curricula
Major in Speech Communication and Human Relations
Curriculum Requirements

The major in Speech Communication and Human Relations offers the student an interdisciplinary program in communication consisting

of a core of communication and other human related courses, and an area of emphasis chosen by the student in consultation with his advisor. The goal of this interdisciplinary major is to produce a communication specialist with career opportunities in such fields as law enforcement, military, personnel and sales, social programs, government, industrial relations, and, for educators, human communication.

MAJOR REQUIREMENTS	36 hours
SPE 100, 200, 205, 220, 320, 350, 405, 410; SOC 235, 320; PHI 385; PSY 211.	
SUPPORTING COURSE REQUIREMENTS	12 hours
Twelve hours to be selected by the student with approval of the advisor.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	25 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Speech Communication and Human Relations

MINOR REQUIREMENTS	21 hours
SPE 200, 205, 350, 410; PSY 211; SOC 320; PHI 385.	

Major in Speech

MAJOR REQUIREMENTS	30 hours
SPE 150, 205, 240, 300, 330, 410, three hours SPE 315, plus nine hours Speech electives.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	43 hours
To be selected by student.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

Major in Speech (Teaching)

To revise the above program for teacher certification in Speech, the student would take the following professional education courses:

EDF 102, 202, 317; ESE 442 or 443, 498, 499; PSY 211.

In addition, the student must have a teaching minor which requires 21-24 hours. The student has 19-22 hours free electives.

The total curriculum is 128 hours128 hours

Minor in Speech

Courses required for a minor in Speech are SPE 150, 205, 240, 300, 330 or 410, plus three hours Speech electives 18 hours

Minor in Speech (Teaching)

Courses required for a minor in Speech (teaching) are SPE 150, 205, 240, 300, 330, 410, plus three hours Speech electives 21 hours

Major in Speech and Theatre Arts

MAJOR REQUIREMENTS 36 hours
SPE 150, 205, 240, 300, 330 or 410; THE 110, 231, 341, 342, 390, 391; 3 hours SPE 315 and THE 330, with at least one hour in each.

SUPPORTING COURSE REQUIREMENTS 0 hours

GENERAL EDUCATION REQUIREMENTS 55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women).
Refer to pp. 54-58 for detailed University general education requirements.

FREE ELECTIVES 37 hours
To be selected by student.

TOTAL CURRICULUM REQUIREMENTS128 hours

Major in Speech and Theatre Arts (Teaching)

To revise the above program for teacher certification in Speech and Theatre Arts, the student would take the following professional education courses:

EDF 102, 202, 317; ESE 442 or 443, 498, 499. In addition the student must have a teaching minor which requires 21-24 hours. The student has 10-13 hours free electives. The total curriculum requirement is

.....128 hours

Major in Theatre Arts

MAJOR REQUIREMENTS	30 hours
SPE 150; THE 110, 231, 341, 390, 391, 4 hours THE 330, and eight hours Theatre Arts electives.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	43 hours
To be selected by student.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

Bachelor of Fine Arts Degree Curricula Major in Performing Arts

Curriculum Requirements

The B.F.A. in the performing arts is a professional degree program designed to prepare the student as a performer in the musical theatre. The B.F.A. consists of course work in music, drama, and dance, and directed performance in musical theatre productions.

MAJOR REQUIREMENTS	73 hours
SPE 150; THE 110, 131, 215, 231, 280, 331, 341, 390, 391, 480, and three hours THE 330, MUS 122, 222, 322, 422, 181, 182, 371, 372, two hours Music Ensemble and/or Opera Workshop; PHE 345, 350, 554. Candidates must meet piano certification requirements as stated in the Music section of this catalog.	
SUPPORTING COURSE REQUIREMENTS	0 hours
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Course Descriptions

SPE SPEECH

- 100 Introduction to Speech Communication. Three hours. I, II.**
A study of theories and practices of communication in intrapersonal, interpersonal, small group, and public-speaking settings.
- 150 Improvement of Voice and Articulation. Three hours. I, II.**
Basic theory and speech production; drills for improvement of voice and articulation; adapted to students' individual speech needs.
- 200 Interpersonal Communication in Human Relations. Three hours. I, II.**
Formerly Introduction to Interpersonal Communication.
Analysis of the role of oral communication in human relationships with emphasis on primary one-to-one experience; performance directed toward student development of proficiency in oral communication.
- 205 Argumentation in Conflict Resolution. Three hours. I.**
Formerly Argumentation and Advocacy.
Principles and practice of argument in conflict situations and the manner in which communication can serve as a vehicle for their intensification or resolution. Emphasis on analysis of political and legal discourse in human relations as evidenced in state vs. federal jurisdictional disputes, sexism, labor, racism, etc.
- 220 Human Relations in Group Interaction. Three hours. A.**
Formerly Communication in Groups.
Group discussion of selected cases in human relations. Special emphasis on theories of human relationships and dynamics of the problem solving process.
- 240 Oral Interpretation of Literature. Three hours. I.**
Basic techniques of reading aloud; analysis of selections of prose and poetry; practice in reading aloud.
- 250 Phonetics of the English Language. Three hours. I, II.**
Formerly SPE 450.
Phonetic analysis of contemporary American speech practices in broad and narrow transcription.
- 300 Forms of Public Address. Three hours. I.**
Advanced study in the preparation and delivery of speeches toward the recognized ends of speaking; argumentative, conciliatory, commemorative, eulogistic, and evocation. Special emphasis on audience adaptation, selection of materials, organization, style, and delivery.
- 315 Forensics Practicum. One hour. I, II.**
Formerly Forensics.
Prerequisite: Approval of instructor.
Study and application of the principles of argumentation and debate. Students will participate in intercollegiate forensic activities, which include debate as well as individual speaking events, throughout the academic year. May be repeated for a total of four semester hours.
- 320 Persuasion in Contemporary Communication. Three hours. A.**
Formerly Persuasion.
A study of the theories of persuasion and their application as applied to the study of themes and tactics representative of the persuasive character of counter-culture persuasion, citizen advocacy programs, and political campaign management such as mass demonstration, civil rights, and political indoctrination.

SPE SPEECH

- 330 The Rhetorical Tradition. Three hours. A.**
Formerly Rhetorical Theory.
Historical survey of theories of communication and persuasion from earliest times, the men who produced them, and the philosophical assumptions upon which they rest.
- 340 Readers Theatre. Three hours. A.**
Formerly Oral Interpretation of Literature II.
Prerequisite: SPE 240.
Introduction to the performance and directing of group presentations in oral interpretation.
- 349 Cooperative Study: Speech. Two to four hours. A.**
Prerequisite: Departmental approval.
Field work under faculty and employer supervision in a cooperative placement situation related to the student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. May be repeated for a total of 8 hours. Will not count toward fulfilling major requirements.
- 350 Organizational Communication. Three hours. A.**
Formerly Business and Professional Speaking.
Speech Communication for effective leadership in corporate business management, labor unions, ecclesiastical bodies, and municipal boards. Theory and practice in conference techniques, interviewing, parliamentary procedures, and public speaking.
- 360 Speech and Language Development. Three hours. A.**
CL SED 360.
Normal patterns of speech and language acquisition; application of learning theory and linguistic concepts.
- 405 Propaganda in Human Relations. Three hours. A.**
Formerly Public Opinion and Propaganda.
Analysis of propaganda as an instrument of social change with emphasis on the motives and strategies of traditional and contemporary movements and groups.
- 410 Foundations of Speech Communication Theory. Three hours. A.**
Formerly Introduction to Communication Theory.
Foundational knowledge regarding the nature of human interaction, including such topics as communication on an interpersonal and intrapersonal level, systems of behavior in organizations, effects of mass communication, communication barriers and breakdowns.
- 430 History and Criticism of American Public Address. Three hours. A.**
A study of oral discourse on social, political, economic, and religious issue in American society. Selected speeches and speakers are placed in the cultural and rhetorical contexts and are critically analyzed.
- 490 Special Topics in Speech Communication: _____.**
Three hours. A.
Presentation of course material of a timely, specialized, or topical nature. Specific course orientation will appear beside title. May be repeated for a maximum of nine hours, provided subject matter is different each time.
- 499 Independent Study in Speech Communication.**
One to three hours. I, II.
Formerly Special Problems in Rhetoric and Public Address.
Individual research and reading on a specified speech communication subject. Regular consultation and final paper or performance required.

Graduate Courses

SPE SPEECH

- 600 Special Topics in Speech Communication: _____.**
One to three hours. A.
 Designed for participants in workshops, short courses, or for presentation of course material of a timely, specialized, or topical nature. Specific course orientation will appear beside title. May be repeated for a maximum of six hours, provided subject matter is different each time.
- 605 Independent Studies in Speech Communication.**
One to three hours. A.
 Individual research and reading on a specified speech communication subject. Regular consultation and final paper required.

THE THEATRE ARTS

- 100 Forms and Philosophy of Theatre. Three hours. I, II.**
 Understanding and appreciating the arts of the theatre, development of dramatic forms and practices, consideration of the elements of contemporary theatrical practice. Analysis of plays. Attendance at selected play productions required.
- 110 Fundamentals of Stagecraft. Three hours. I, II.**
 Formerly Technical Theatre.
 Problems of stagecraft dealing with the scenic process; use of materials, methods of construction and handling of scenery, fabrication and construction of properties. Two hours lecture and two hours laboratory.
- 131 Stage Movement. Three hours. I.**
 Study of the body's physical capabilities as a means of projecting emotion; training in style in movement applicable to the performance of classical and modern drama.
- 215 Theatrical Make-up. Two hours. A.**
 Formerly Make-up.
 Techniques in application and design of make-up, both straight and character.
- 231 Fundamentals of Acting. Three hours. I, II.**
 Formerly Acting I.
 Basic techniques of acting. Study and practice in pantomime, voice, and characterization.
- 280 Musical Theatre. Three hours. A.**
 Study of the development of musical theatre as an art form, and an examination of the acting, directing, and production techniques peculiar to that form.
- 310 Principles and Practices of Scenic Design. Three hours. A.**
 Formerly DRA 411, Stage Design.
 Prerequisite: THE 110 or approval of instructor.
 Principles of composition, scale, perspective, and color applied to the stage; production of ground plans, sketches, and models.
- 311 Principles and Practices of Lighting Design. Three hours. A.**
 Formerly DRA 412, Stage Lighting.
 Prerequisite: Sophomore standing.
 Examination of theories of lighting with application to the stage, mixed media, dance, and natural environment. Consideration given to color principles, lighting instruments and control equipment.

THE THEATRE ARTS

- 315 Principles and Practices of Costume Design for the Theatre.**
Three hours. A.
Formerly Stage Costume.
Design and execution of theatrical costumes with emphasis on originality, color and line. Attention given to costumes of various periods and styles.
- 330 Theatre Arts Practicum. One hour. I, II.**
Formerly Rehearsal and Performance.
Prerequisite: Approval of department.
Study and practice of acting and technical production through participation in departmental productions. May be repeated for a total of six hours.
- 331 Problems in Acting. Three hours. A.**
Formerly Acting II.
The study of roles and scenes from plays, serious and comic. Practice in character analysis, creation of roles, rehearsal and presentation of scenes.
- 341 Fundamentals of Play Direction. Three hours. I.**
Formerly Directing I.
An introduction to the principles of play directing. Study of play selection and analysis, characterization, composition, blocking, and casting and rehearsal procedures.
- 342 Styles of Play Direction. Three hours. A.**
Formerly DRA 441. Directing II.
Study of directing styles. Individual student projects culminating in the direction of a one-act play or extended scene.
- 349 Cooperative Study: Theatre Arts. Two to four hours. A.**
Prerequisite: Departmental approval.
Field work under faculty and employer supervision in a cooperative placement situation related to the student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. May be repeated for a total of 8 hours. Will not count toward fulfilling major requirements.
- 390 Development of Theatre in Western Civilization I. Three hours. I.**
Formerly DRA 500. History of Theatre I.
Intensive examination of development of theatre from the Greeks to the Elizabethans.
- 391 Development of Theatre in Western Civilization II.**
Three hours. II.
Formerly DRA 501. History of Theatre II.
Development of theatre from the French Renaissance to the modern period.
- 395 The Development of Drama in Western Civilization.**
Three hours. A.
Study of the form and content of selected plays from 5th century Greece to the present.
- 410 Seminar in Scenography and Stage Lighting. Three hours. A.**
Prerequisite: THE 310 and 311, or approval of instructor.
Problems and theories of scenographic and lighting design for ballet, opera, musical comedy, and legitimate drama; analysis of new methods and materials; discussion of student designed productions and products.
- 431 Directed Studies in Acting. One to three hours. A.**
Prerequisite: THE 231 and 331, or approval of department.
Individual attention to advanced projects in acting.

- 442 Directed Studies in Play Direction. One to three hours. A.**
Prerequisite: THE 341 and 342, or approval of department.
Direction of a studio or major production under faculty guidance.
- 450 Introduction to Dramatic Theory and Criticism. Three hours. A.**
Study of the significant theories of dramaturgy found in the critical writings from Greece's fourth century, B.C., to the twentieth century.
- 460 Creative Dramatics. Three hours. A.**
Principles and techniques of leading children in the creation of informal dramatic activities.
- 465 Children's Theatre Production and Direction. Three hours. A.**
Formerly Children's Theatre.
Analysis of scripts and play production methods for the child audience. Application of thematic, dramaturgical, and developmental concepts to selecting, directing, designing, and managing plays for children's theatre.
- 470 Theatre Organization and Management. Three hours. A.**
An analysis of personnel requirements of theatre production; the division of production responsibilities and interpersonal relationships among production members; theatre policy, program planning, publicity, budget making, purchasing, ticket selling; house management, equity rules and regulations.
- 480 Workshop in Musical Theatre. One to six hours. S.**
Prerequisite: Approval of department.
Workshop instruction in voice, acting, dance, and participation in musical theatre productions.
- 490 Special Topics in Theatre Arts: _____ Three hours. A.**
Presentation of course material of a timely, specialized, or topical nature. Specific course orientation will appear beside title. May be repeated for a maximum of nine hours, provided the subject matter is different each time.
- 499 Special Problems in Theatrical Production and Research. One to three hours. I, II.**
Independent study in theatre production and research. Departmental approval required. May be taken for a maximum of six hours credit.

Graduate Courses

- 600 Special Topics in Theatre Arts: _____ One to three hours. A.**
Designed for participants in workshops, short courses, or for presentation of course materials of a timely, specialized, or topical nature. Specific course orientation will appear beside the title. May be repeated for a maximum of six hours provided subject matter is different each time.
- 605 Independent Studies in Theatre Arts. One to three hours. A.**
Individual research and reading on a specified theatre arts topic. Regular consultation and final paper required.

College of Business

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EASTERN KENTUCKY UNIVERSITY COLLEGE OF BUSINESS

Howard A. Thompson, Dean

James M. L. Karns, Associate Dean

The programs in the College of Business are designed to provide professional education for careers in Business and to develop an intellectual understanding of the role of the citizen in a rapidly changing technological society. Through the Liberal Arts requirements for the degree, the College attempts to provide a well-rounded education for the student.

The College of Business, in cooperation with the Graduate School, offers the degree of Master of Business Administration. The Department of Business Education and Office Administration, which is located within the College of Business, cooperates with the College of Education to offer the Master of Arts in Education degree for teachers of business.

Four-year programs leading to the degree of Bachelor of Business Administration are offered in Accounting, Economics, Electronic Data Processing, Finance, General Business, Health Care Administration (in cooperation with the College of Allied Health and Nursing), Insurance, Management, Marketing, Office Administration, Real Estate, and Transportation and Physical Distribution Management. A four-year program for secondary business teachers leading to the Bachelor of Science degree is offered.

The College of Business offers two-year programs leading to the Associate of Arts degree in the following areas: Accounting (three options including Financial, Health Care Agency, and Municipal), Administrative Office Services, Banking, Electronic Data Processing, Executive Secretary, Health Care Administration (in cooperation with the College of Allied Health and Nursing), Legal Secretary, Management, Medical Secretary, Real Estate, and Retailing.

The specific programs are outlined in the departmental sections of the catalog. Each student, upon transferring into the College of Business, is assigned a faculty advisor especially trained in the requirements of the program the student intends to pursue. Students changing programs should consult with the Administrative Assistant to the Dean for reassignment to an appropriate faculty advisor.

Students in the College of Business are eligible for financial aid and grants, as are all other students in the institution, and should contact the Financial Aids Office if interested.

Many students planning to attend law school find undergraduate programs in business particularly good background for their legal study. Special advisors are available in the College of Business for pre-legal students.

Students pursuing a Bachelor of Business Administration and who desire to enter international business may participate in the Soviet Area Concentration of Studies for Business. By careful planning a student may schedule from 15 to 29 credit hours in courses which are highly desired by business firms engaged in Soviet-American trade. Within this concentration from 4 to 12 hours may include cooperative study assignments with an international business firm. Business students interested in the Soviet Area Concentration of Studies should contact the Associate Dean, College of Business.

Bachelor of Business Administration Requirements for Graduation

In order to be graduated with a Bachelor of Business Administration degree, students must apply to the Office of the Dean of the College of Business. December graduates should apply the preceding April; May and August graduates should apply the preceding October. The requirements for the degree are as follows:

1. A minimum of 128 hours and a quality point average of 2.0. Candidates for degrees must earn 30 of the last 36 hours in residence at Eastern Kentucky University. This requirement may be waived by the Dean of the College of Business.

Hours earned by correspondence study are accepted upon written approval of the Dean. However, not more than 25 percent of the total hours offered for the degree may be in correspondence, military, credit, or credit by examination. A degree may not be awarded if less than 32 hours have been earned in residence at Eastern Kentucky University. Of the 128 hours for the degree, 43 must be earned in upper division courses (courses at the 300, 400 and 500 level).

2. Not more than sixty percent of undergraduate coursework shall be devoted to business, economics, and administration. However, up to nine hours of lower division economics will not be included in this sixty percent.

3. Completion of the business core and supporting course requirements.

4. Completion of sufficient coursework in a major.

5. The two main objectives of the BBA degree are (1) professional development for business careers, and (2) broad liberal arts and science education. Students are encouraged, in most program areas, to choose free electives from arts and sciences and general education courses. Electives should be chosen in consultation with the student's advisor.

Major Requirements

Each student in the College of Business must choose a major field. Students should make this choice at the time they enter the College of Business. The student's schedule for each semester must be approved by his faculty advisor. A grade of "C" or higher is required in each course for credit toward the major.

At least 12 of the hours in the major must be earned at Eastern Kentucky University. In addition, a 2.0 quality point average must be maintained in all work taken in the College of Business.

For majors which are available and their requirements, see the various departments in sections of this catalog devoted to course offerings. No minor or second major is recognized in the College of Business since students take the business core.

Required Subjects*

1. GSO 100

GSE 101 and 102 or 105

GSP 180, 181 and 281

Humanities, 12 hours (Area II, pattern A, B, or C)

Social Science, 12 hours

Science or Math, 9 hours

Military Science (for men), or options, 8 hours

2. Supporting course requirement: MAT 107

*Refer to pp. 54-58 for detailed University general education requirements.

3. The Business Core

ACC 108, 109

ECO 220, 230, 231, 324

EDP 312

FIN 300

GBU 300

MGT 200

MKT 300

OAD 301 or 400 (at the election of the major department)

Bachelor of Science in Business Education Teacher Certification

The Department of Business Education and Office Administration, in cooperation with the College of Education, provides programs leading to certificates qualifying graduates to teach business subjects in the high school. Students in these programs must have a quality point average of 2.25 on their entire record and also in their required area, or major, to be eligible for student teaching. Students following these programs may have portions of the business core requirements waived. Students interested in business teacher certification should consult the Chairman of the Department of Business Education and Office Administration.

Master of Business Administration Degree Program

The College of Business, in cooperation with the Graduate School, offers the Master of Business Administration degree and cooperates with the College of Education for the Master of Arts in Education degree in business education.

MASTER OF BUSINESS ADMINISTRATION DEGREE PROGRAM

Program Objectives

The Master of Business Administration degree program is broad in nature and is designed to develop general competence in the functions of management. It provides for study in breadth in selected

functional areas and for concentrated study in a specialized field of the student's choice.

The Master of Business Administration degree program is designed to provide opportunities for developing: skill in scientific analysis; the ability to integrate concepts and research findings of business and the behavioral sciences to draw logically sound conclusions; to think creatively; to communicate effectively; and to appreciate the role and responsibilities of business enterprise in our broad social framework.

Special Program Requirements*

For Admission — Applicants to the Master of Business Administration programs must (1) hold a bachelor's degree from an accepted institution with work comparable to that required for the Business Core, (2) have a 3.0 grade point average on a four-point system. (However, under certain conditions students whose grade point average is lower than 3.0 may be accepted conditionally for admission), and (3) make satisfactory scores on the Graduate Record Examination and the Graduate Management Admission Test.

For General Information — Upon written petition, subject to the approval of the Chairman of the Graduate Committee of the College of Business, the student may transfer six semester hours of graduate level work from another accredited institution.

The maximum course load for graduate students studying in the College of Business is 12 semester hours; registration in excess of this maximum must be approved by the Chairman of the Graduate Committee of the College of Business. Students shall consult the Chairman of the Graduate Committee of the College of Business about any combined course and outside work load.

At least twenty-four semester hours of work must be completed in courses open only to graduate students.

Students whose records, performance or examination indicate deficiencies in the use of English will be required to take additional work to increase their proficiency in the use of English. This requirement will take precedence over all other courses in the student's graduate program.

For Admission to Candidacy — Admission to candidacy is granted only if (1) all conditions and course deficiencies have been removed,

*Students must also meet the general requirements of the Graduate School.

(2) the student has completed at least nine but not more than 18 hours of graduate level work in the College of Business with at least a 3.0 grade point average, and (3) the student is recommended by the Graduate Committee.

If in any semester of study the student fails to achieve at least a 3.0 grade point average, he will automatically be placed on academic probation. If, in the following semester, the student fails to achieve an overall 3.0 grade point average, he will be withdrawn from study in the College of Business. Following such withdrawal the student may be readmitted for further graduate study in the College of Business only if a petition (accompanied by a complete record of all college or university work previously undertaken) has been approved by the Chairman of the Graduate Committee of the College of Business and the Dean of the Graduate School.

For Thesis — Not more than six semester hours of credit may be earned for the thesis. A committee to direct and approve the thesis shall be nominated by the Chairman of the Graduate Committee of the College of Business.

For Non-Thesis — Students not electing to write a thesis must complete ECO 604, EDP 608, and OAD 600, commonly called "tool" subjects. These courses cannot be used to satisfy concentration requirements.

For Comprehensive — Students electing to write a thesis shall pass an oral examination on the thesis and the course work. Students electing not to write a thesis shall pass a comprehensive examination covering four areas of study, including the major area of study.

The comprehensive or oral examination shall be scheduled by the Chairman of the Graduate Committee of the College of Business in the semester in which the student expects to finish his course work or in the semester or summer session which his thesis is accepted, but not later than three weeks before the end of the semester or summer session. Should a student fail either the comprehensive or oral examination, he may petition the Chairman of the Graduate Committee of the College of Business for not more than one additional attempt to qualify. Re-examination must be taken and passed within the next three semesters, including summer sessions, following the semester or summer session in which the student first failed to qualify, but at least sixty days must elapse between examinations.

For Prerequisites — All courses open only to graduate students are presented on the assumption that the students enrolled in them

have had some foundation in each of the business core requirement areas. Students with deficiencies must preface their MBA program with additional course work in the deficient areas or provide other evidence of competency in the deficient areas.

For Program Planning — At least 30 semester hours must be taken in the fields of accounting, economics, business, and office administration. Each student will select an area of concentration in accounting, economics, marketing, management, finance, or general business administration.

Students selecting an area of concentration in accounting will take 12 semester hours in accounting, at least 3 semester hours in economics, and at least 3 semester hours in each of two of the areas of marketing, management, or finance.

Students selecting an area of concentration in economics will take at least 12 semester hours of economics, at least 3 semester hours in accounting, and at least 3 semester hours in each of two of the areas of marketing, management, or finance.

Students selecting an area of concentration in marketing, management, or finance will take 9 semester hours in the field selected, 3 semester hours in each of the other two fields, plus 3 semester hours in economics and 3 semester hours in accounting.

Students selecting an area of concentration in general business administration will take at least 3 semester hours in each of the fields of marketing, management, finance, economics, and accounting plus 6 semester hours of approved electives.

The first course which a student takes in any field outside his field of concentration is to be the number 600 course in that area. Exceptions to the above program planning guide are to be made only with the approval of the Director of the MBA Program.

Minors

There is a minor in Business Administration for students in colleges other than the College of Business. This minor consists of ACC 108, 109, ECO 230, 231 and six elective hours in Business Administration.

A minor in Economics may be taken by students enrolled in the College of Arts and Sciences pursuing a Bachelor of Arts degree. A student pursuing a Bachelor of Arts degree (teaching) may also minor in Economics. (See departmental description, pp. 402-407.)

A non-teaching Secretarial minor is offered by the Department of

Business Education and Office Administration. (See departmental description, pp. 394-402.)

A minor in Electronic Data Processing is offered for students in colleges other than the College of Business. (See description within the Department of Business Administration, pp. 377-394.)

Department of Accounting

Smith, C. K., Chairman; Bayes, Dyer, French, Gibbs, Griffith, Latham, McKeehan, Messmer, Moore, Reed, Wilson.

The Department of Accounting provides courses in principles of accounting required of all students obtaining a degree in Business. In addition, it offers four programs for majors. The professional accounting program is designed to prepare graduates to enter an accounting firm with the anticipation of working toward the CPA certificate. The industrial and governmental accounting programs are designed for students who want careers in government or industry but do not intend to seek the CPA designation. The health care administration program is designed to supply a present and growing need for properly prepared management personnel in the health care industry.

The Department of Accounting also offers an associate degree in Accounting with options in Financial, Municipal, and Health Care Agencies.

Both programs* in Health Care Administration are supported by the Kentucky Hospital Association, The Kentucky Association of Health Care Facilities, and the Kentucky Medical Association. The curricula also have been endorsed by the Kentucky Board of Licensure for Nursing Home Administrators.

A listing of required courses for each program is shown elsewhere in the Catalog. It is recommended that all students carefully select their courses in consultation with their faculty advisor to improve their career effectiveness. Courses submitted toward the major must be completed with a grade of "C" or higher. At least 12 of the hours in the major must be earned at Eastern Kentucky University. No minors or second majors are available in the Department of Accounting.

The Department of Accounting participates in the Master of Business Administration Program. A student with a strong accounting background may take a concentration consisting of 12 hours of grad-

*Both baccalaureate and associate degree programs are available in Health Care Administration. Students interested in the Associate of Arts degree in Health Care Administration should consult the Department Chairman.

uate level accounting courses. However, ACC 500 and 600 cannot be taken by students who have an undergraduate major in accounting. A detailed description of this program is presented in the Graduate Catalog.

Bachelor of Business Administration Major in Accounting

MAJOR REQUIREMENTS	21 hours
ACC 225, 226, 321, 322, 327, 425, and 441.	
BUSINESS CORE	36 hours
ACC 108 and 109; OAD 400; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300.	
SUPPORTING COURSES	6 hours
MAT 107; ECO 530.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours additional Social Sciences; 9 hours of Mathematics and Natural Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
BUSINESS ELECTIVES	9 hours
FREE ELECTIVES	4 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Bachelor of Business Administration Major in Health Care Administration*

MAJOR REQUIREMENTS	18 hours
ACC 300, 311, 370; ECO 593; OAD 280; MGT 320.	
BUSINESS CORE	36 hours
ACC 108, 109; OAD 301 or 400; ECO 230, 231, 324; HEA 450 or ECO 220; FIN 300; GBU 300; MGT 200; MKT 300; EDP 312.	
SUPPORTING COURSES	15 hours
MAT 107; HEA 455; NUR 460; HEA 416; ACC 375.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203; 6 additional hours of Social Sciences; 9 hours of Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	

*See also footnote on page 371 regarding Associate Degree in Health Care Administration.

ELECTIVES	4 hours
(to be approved by joint Allied Health-Business Advisory Committee and dependent upon specialty, background, and interest.)	
INTERNSHIP	3 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Associate of Arts Degree Curriculum Accounting

With Options in Financial, Municipal, and Health Care Agencies

At least 67 hours must be completed with a 2.0 grade point average for this degree to be awarded.

FRESHMAN YEAR	34 hours
GSE 102, 102, or 105; GSO 100; ACC 108, 109, GSP 180, 181; MAT 107; OAD 101; MIL 101, 102 (or options for men, electives for women); ECO 230; MGT 200; ECO 231.	
SOPHOMORE YEAR	34 hours
Financial option; *ACC 180, 225, *300; OAD 354; EDP 200 or EDP 312; OAD 301; SPE 100; MIL 201, 202 (or options for men, electives for women); FIN 300; GBU 300; approved elective.	
Municipal option: *ACC 180, *200, 300; ECO 231; EDP 200 or EDP 312; OAD 301; SPE 100; MIL 201, 202 (or options for men, electives for women); FIN 300; GBU 300; approved elective.	
Health Care Agency: *ACC 180, 300, *370; ECO 231; EDP 200 or EDP 312; OAD 301; SPE 100; MIL 201, 202 (or options for men, electives for women); FIN 300; GBU 300; approved elective.	
TOTAL CURRICULUM REQUIREMENTS	68 hours

*With approval, ACC 327 may be substituted for ACC 300;
and ACC 322 may be substituted for ACC 180.

Course Descriptions

ACC ACCOUNTING

- 108 Principles of Accounting. Three hours. I, II.**
Fundamental accounting relationships; completion of the accounting cycle; accounting process for merchandising enterprises; receivables, payables and inventories; deferrals, accruals and intangible assets.
- 109 Principles of Accounting. Three hours. I, II.**
Prerequisite: ACC 108 or satisfactory completion of departmental examination.
Accounting systems, concepts, and principles; formation, organization, and operations of partnerships and corporations; departments and branches; and statement analysis, cost and manufacturing accounting.

ACC ACCOUNTING

- 180 Business Taxes. Three hours. I.**
Prerequisite: ACC 109.
A basic course in taxes with emphasis on procedure. It will acquaint the student with the procedures involved in monthly, quarterly, and annual tax returns required by local, state, and federal governments. It will emphasize forms and procedure rather than theories and law. This course may not be counted toward a baccalaureate degree in accounting.
- 200 Municipal Accounting. Three hours. I.**
Prerequisite: ACC 109.
Study in fiscal procedures for state, county, and municipal governments. This course may not count toward a baccalaureate degree in accounting.
- 225 Principles of Accounting-Intermediate. Three hours. I, II.**
Prerequisite: ACC 109.
Accounting statements; receivables; inventories; current liabilities; investments in stocks, bonds, funds, and miscellaneous items.
- 226 Principles of Accounting-Intermediate. Three hours. I, II.**
Prerequisite: ACC 225.
The acquisition, use, and retirement of plant and equipment; depreciation, depletion, and revaluations of plant and equipment; intangible assets and deferred charges; long-term liabilities; capital stock; surplus; statements from incomplete data; errors and their corrections; statement analysis; statement of application of funds.
- 300 Managerial Accounting. Three hours. I, II.**
Prerequisite: ACC 109.
Accounting structure and systems; the uses and interpretation of financial statements; accounting and management control; and the uses of accounting in the decision-making process. May not be taken by accounting majors.
- 311 Health Care Fiscal Management. Three hours. A.**
A theoretical and practical study of organization and functions of health care facility financial administration: institutional fiscal policies, internal and external controls, cost analysis and budgeting; collection and reimbursements; financial and statistical reporting as tools of management.
- 321 Principles of Accounting-Advanced. Three hours. I, II.**
Prerequisite: ACC 226.
Partnerships—formation and operation; special partnership problems; home office and branch relationships; corporate combinations; consolidated balance sheet; special problems with consolidated balance sheets; consolidated income and retained earnings statement; foreign branches and subsidiaries.
- 322 Income Tax Accounting. Three hours. I, II.**
Prerequisite: ACC 109.
Income tax legislation—Federal and State; returns for individuals; gross income; basis and determination of gain or loss; capital gains and losses; dividends; deductions; withholding. Also includes a survey of income tax laws relating to partnerships, corporations, trust, estate, and gift taxes.
- 323 Advanced Tax Accounting. Three hours. I, II.**
Prerequisite: ACC 322.
Federal income tax report preparation with emphasis on partnership and corporate returns, estate and trusts; gift and estate taxes; special problems in preparation of tax returns.

ACC ACCOUNTING

- 327 Cost Accounting. Three hours. I, II.**
Prerequisite: ACC 109.
Cost flows and cost systems; the cost accounting cycle factory overhead; departmentalized manufacturing expenses; job order cost, process cost, and standard cost accounting budgeting; and direct costing.
- 330 Problems in Real Estate Taxation. Three hours. I.**
Prerequisite: Approval of the instructor.
This is a specialized course in tax and accounting problems encountered in real estate transactions and tax shelters. The needs of students registering for the course will determine the primary emphasis.
- 370 Health Agency Accounting. Three hours. II.**
Prerequisites: ACC 109, 300.
A course to introduce the student to the special complexities involved in accounting in a health agency setting. Includes subjects such as accounting for cost, patient revenues, third party reimbursement programs, and special problems with the developing trend toward public rate regulation procedures.
- 375 Seminar in Health Care Administration. Three hours. A.**
Individual and group investigation of contemporary problems, issues and trends in selected health care facilities.
- 390 Internship in Accounting. Three hours. II.**
Prerequisite: Junior standing, "B" average, and approval of chairman of the Department of Accounting.
The purpose of the internship will be to help the student to gain practical accounting knowledge in his chosen vocation. Progressive reports and a term paper will be required. Enrollment is limited by invitation only.
- 395 Internship. Three hours. I, II.**
The purpose of the internship is to acquaint the student with the health care field and to enable the student to practice the application of managerial skills under the supervision of a selected preceptor. The length of the internship shall total 12 weeks and ideally would be served in two residencies of 6 weeks each. In the BBA program the split residencies would occur during the summers following the second and third academic years. In the AA program the split residencies would occur during the summers following the first and second academic years.
- 425 Readings in Accounting. Three hours. I, II.**
Prerequisite: ACC 321 or approval of instructors.
This course will be a readings course in accounting literature with special emphasis on publications of the American Institute of Certified Public Accountants, the American Accounting Association, the Securities and Exchange Commission, and court cases in the areas of accountants legal liability, etc.
- 430 Accounting and Financial Practices in Regulated Industries. Three hours. A.**
(Same as FIN 430).
Prerequisites: ACC 109 and FIN 300.
Analysis of regulatory accounting and financial practices of regulated industries. Emphasis on requirements imposed by regulatory agencies including the ICC, FPC, PSC, and CAB.
- 441 Auditing. Three hours. I, II.**
Prerequisite: ACC 425, ECO 391.
Professional ethics; accountant's legal responsibility; internal control; preliminary arrangements for an audit; general procedure of an audit; the original records; the asset accounts; the liability accounts; operating accounts; the audit report.

ACC ACCOUNTING

- 490 Special Problems in Accounting. One to six hours. A.**
Prerequisite: Approval of chairman of department.
Intensive study of selected topics in accounting. Selections will depend upon the needs of the student with the approval of major advisor and chairman of the Department of Accounting.
- 500 Public School Accounting. Three hours. A.**
Prerequisite: Senior standing.
Study in accounting and fiscal procedures for public schools.
- 510 Survey of Accounting. Three hours. I, II.**
Prerequisite: Senior standing or bachelor's degree completed.
The purpose of this course is to provide the graduate student with a basic foundation in the fundamentals of accounting in order to enable him to proceed with additional accounting courses that may be required in his graduate program. This course may not be taken for credit by students who have credit for either ACC 108 and 109 or their equivalent. This course will definitely not be accepted for any of the thirty hours in the MBA program, and will definitely not be accepted for the accounting requirement in the MBA program.
- 521 Fund Accounting. Three hours. I.**
Prerequisite: ACC 109.
Advanced study in accounting and fiscal procedures for institutions and federal, state, county, and municipal governments.
- 525 Accounting Problems. Three hours. II.**
Prerequisite: ACC 226.
This is an advanced course in accounting and the contents will be determined by the needs of the students registering for it.
- 527 Advanced Cost Accounting. Three hours. A.**
Prerequisite: ACC 327.
Advanced problems in costs, budgets, distribution costs, measurements of departmental efficiency, and analysis of cost information for managerial decisions.
- 540 CPA Law. Three hours. A.**
Prerequisite: Strong Accounting background and approval of instructor.
Law as it relates to the accounting profession. Cases used from previous examinations given by the American Institute of Certified Public Accountants. Emphasis on short cuts and suggestions for time-saving in the examination room.

Graduate Courses

- 600 Managerial Accounting. Three hours. II.**
Prerequisite: ACC 109.
A study of accounting procedures and systems to provide data for managerial decision making. Subjects include planning, analysis of relevant cost, impact of taxes and limitations of data.
- 625 Advanced Auditing. Three hours. II.**
Prerequisite: ACC 441.
Rules of professional conduct; auditing standards and case studies of American Institute of Certified Public Accountants; auditing rules and regulations of Securities and Exchange Commission; analysis of problem areas in reporting.

ACC ACCOUNTING

- 627 Research in Taxes. Three hours. I.**
Prerequisite: ACC 323.
An intensive analysis of the Internal Revenue Code. Research and discussion of tax problems affecting business and of tax planning and saving opportunities from the point of view of the professional accountant.
- 628 Accounting Theory. Three hours. II.**
Prerequisite: Strong accounting background.
History and theory of accounting as discussed in accounting literature, periodicals, research bulletins, and publications of professional organizations.
- 640 Seminar in Accounting. Three hours. A.**
Prerequisite: Strong accounting background.
This course involves directed readings and intensive investigations into controversial and specific areas of accounting. Oral and written reports are required.
- 690 Special Problems in Accounting. One to six hours. A.**
Prerequisite: Approval of chairman of department.
Intensive study of selected topics in Accounting. Selections will depend upon the needs of the students with the approval of major advisor and chairman of the Department of Accounting.
- 698-699 Thesis. Six hours. A.**
Individual direction of research and thesis writing.

Business Administration

Burton, G., Chairman; Alford, Bodley, Broaddus, Davis, Hager, Hale, Hibbard, Hungarland, King, Landrum, Lin, Losey, Martin, Neal, Nickles, Nixon, Parson, Patterson, Sherwood, Thompson, Westenhofer.

The Department of Business Administration offers courses in Electronic Data Processing, Finance, General Business, Insurance, Management, Marketing, Real Estate, and Transportation leading to the Bachelor of Business Administration degree. A student may also pursue two-year programs leading to the Associate of Arts degree in Banking, Electronic Data Processing, Management, Real Estate and Retailing.

The Department of Business Administration participates in the Master of Business Administration program. A student may concentrate at the graduate level in finance, management, marketing, or general business (a combination of these areas). A detailed description of this program is presented in the Graduate Catalog.

Electronic Data Processing

The electronic data processing major consists of 18 hours of EDP courses above the business core. All work for the major must be

completed with a grade of "C" or higher. At least 12 of the hours in the major must be earned at Eastern Kentucky University.

There is a minor in Electronic Data Processing for students in colleges other than the College of Business. The minor consists of 18 hours of data processing courses. MAT 372 may be taken in place of EDP 340. Credit may not be counted in both MAT 372 and EDP 340.

Bachelor of Business Administration Degree Curriculum Major in Electronic Data Processing

MAJOR REQUIREMENTS	18 hours
EDP courses above the business core.	
BUSINESS CORE	36 hours
ACC 108 and 109; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300; OAD 301 or 400.	
SUPPORTING COURSE REQUIREMENT	3 hours
MAT 107.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours additional Social Science; 9 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
BUSINESS ELECTIVES	9 hours
FREE ELECTIVES	10 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Associate of Arts Degree Curriculum Data Processing

At least 67 hours must be completed with a 2.0 grade point average for this degree to be awarded.

FRESHMAN YEAR	34 hours
GSO 100; GSE 101, 102 or 105; ACC 108, 109; EDP 200, 320; MAT 107; MIL 101, 102 (or options for men, electives for women); OAD 151 or 152; PHI 211; 3 hours electives.	
SOPHOMORE YEAR	33-35 hours
ECO 220, 230; EDP 340, 350, 355, 360; MIL 201, 202 (or options for men, electives for women); MGT 200; OAD 301 or 400; OAD 354; and Social Science, Science or Math elective.	
TOTAL CURRICULUM REQUIREMENTS	67-69 hours

Course Descriptions

EDP ELECTRONIC DATA PROCESSING

- 200 Principles and Applications of Data Processing. Three hours. A.**
Prerequisite: Enrolled in associate degree program or approval of departmental chairman.
An introductory course designed to acquaint the student with the field of data processing and application concepts. Includes: an historical review of data processing; information organization, collection, processing and retrieval concepts; data processing techniques, procedures and systems; uses of computers in management; basic programming concepts.
- 312 Introduction to Data Processing Systems. Three hours. I, II.**
Prerequisite: Junior standing or by approval of instructor.
Introduction to the history and development of electro-mechanical and electronic computer systems, including machine functions, computer organization, conceptual programming, systems and uses of computer systems in management. Three hours lecture and limited laboratory time for demonstrators.
- 320 Assembly Languages. Three hours. I, II.**
Prerequisites: EDP 312 or approval of instructor.
Study of instruction codes, input-output, macros, machine representation of characters, control, arithmetic and logic operation, subroutines, indexing and indirect addressing, assembly systems and current advances in computer organization. Three lecture and two hours laboratory.
- 340 FORTRAN/RPG Programming. Three hours. II.**
Formerly EDP 440.
Prerequisite: EDP 312 and ECO 220.
Introduction to FORTRAN/RPG. History and applications in both research and day-to-day business operation. Advanced problems on the H-2050, DEC 11/70, and Kentucky Educational Network Computer Systems. Three hours lecture and two hours laboratory.
- 345 PL-1 Programming. Three hours. I.**
Formerly EDP 445.
Introduction to the PL-1 language and its relationship to FORTRAN, COBOL and ALGOL.
- 349 Cooperative Study in Electronic Data Processing. Two or four hours. A.**
Prerequisite: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 350 COBOL Programming. Three hours. I.**
Formerly EDP 450.
Prerequisite: EDP 312.
Introduction to COBOL. History and applications in both research and day-to-day business operations. Advanced problems on the H-2050, DEC 11/70, and Kentucky Educational Network Computer systems. Three hours lecture and two hours laboratory.
- 355 Input-Output Techniques. Three hours. I.**
Formerly EDP 460.
Prerequisite: EDP 312.
Theory of data handling: key tapes, optical readers, bar-code readers, paper tape, disc storage; remote terminals and teleprocessing.

EDP ELECTRONIC DATA PROCESSING

- 360 Data Processing Internship. Two to four hours. A.**
Prerequisites: GPA of 2.0 and approval of department chairman.
Practical experience in data processing.
- 470 EDP Applications. Three hours. II.**
Prerequisite: EDP 350.
Complex systems analysis and programming problems.
- 475 Business Systems I. Three hours. I.**
Formerly EDP 328.
Prerequisites: EDP 320 or EDP 350.
Study of business systems, management organization of systems analysis, systems function, concepts and programs, analysis and design, application feasibility studies, information retrieval and systems planning and control. Three hours lecture.
- 476 Business Systems II. Three hours. II.**
Formerly EDP 331.
Continuation of EDP 475 which is prerequisite.
- 500 Quantitative Business Applications. Three hours. A.**
Prerequisite: EDP 340, 345, or 350. Senior or Graduate Standing.
Programming for decision-making under uncertainty. PERT, optimization, inventory control models, linear programming, transportation models, dynamic programming, queing models and simulation.
- 595 Special Problems in Data Processing. One to four hours. A.**
(May be repeated for a maximum of four hours.)
Prerequisite: Approval of advisor and chairman of department.
Independent work, special workshop, special topics or seminar.
- 604 Introduction to Information Processing. Three hours. II.**
Prerequisite: Graduate Standing.
Functional application and corresponding problems involving the interaction of business operations and EDP equipment/personnel. Alternative methods of input/output, file organization, and report generation are investigated with emphasis being placed on Business Education within mini or timeshared EDP systems.
- 608 Computer Information Systems. Three hours. I.**
Prerequisite: Graduate Standing.
Characteristics, nature and potential of computerized information systems. How computer-base systems are constructed and the opportunities and problems associated in matching the computer system to the needs of the organization.
- 690 Independent Study in Data Processing. One to four hours. A.**
(May be repeated for a maximum of four hours.)
Prerequisite: Approval of advisor and chairman of department.
Independent study of selected topics in Data Processing.

Finance

The finance major consists of 18 hours above the business core. All courses submitted toward the major must be completed with a grade of "C" or higher. At least 12 of the hours in the major must be earned at Eastern Kentucky University.

Bachelor of Business Administration Degree Curriculum Major in Finance

MAJOR REQUIREMENTS	18 hours
FIN courses above the business core. In addition to the finance courses listed in this section, ECO 394 and 492 and GBU 370 may be counted toward the finance major.	
BUSINESS CORE	36 hours
ACC 108 and 109; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300; OAD 301 or 400.	
SUPPORTING COURSE REQUIREMENT	6 hours
MAT 107, ECO 530.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours additional Social Science; 9 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for complete University general education requirements.	
BUSINESS ELECTIVES	6 hours
FREE ELECTIVES	10 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Associate of Arts Degree Curriculum Banking

At least 67 hours must be completed with a 2.0 grade point average for the degree to be awarded.

FRESHMAN YEAR	34 hours
GSE 101, 102 or 105; ACC 108, 109; GSO 100; ECO 230; MGT 200; OAD 152; MIL 101, 102 (or options for men, electives for women); SPE 100; Social Science, Science, or Math 6 hours.	
SOPHOMORE YEAR	33-35 hours
ACC 300; ECO 231, 324; EDP 200 or 312; FIN 308; GBU 220 or 360 and 300, 370; OAD 301, 354; MIL 201, 202 (or options for men, electives for women).	
TOTAL CURRICULUM REQUIREMENTS	67-69 hours

Course Descriptions

FIN FINANCE

300 Business Finance. Three hours. I, II.

Prerequisite: Junior Standing.

Financial management of business firms; sources and uses of working capital, analysis of working capital, sources of permanent capital, capital structure, cost of capital analysis, reinvestment of earnings and dividend policy.

FIN FINANCE

- 301 Personal Money Management. Three hours. II.**
A consumer approach to insurance, family budgeting, income taxes, elementary investment principles and estate planning. Does not count toward the major in Finance or General Business.
- 304 Financial Institutions. Three hours. I.**
Prerequisite: Junior Standing.
Sources and uses of funds; savings and loan institutions, insurance companies, pension funds, trusts and other financial intermediaries. Analysis of the impact of this area of financial operations on the economy.
- 308 Commercial Banking. Three hours. I.**
Prerequisite: Junior Standing.
Problems of commercial banking discussed from the point of view of bank management; size of asset reserves, credit analysis, investment policies. Problems of equity reserves and capital account.
- 324 Investments. Three hours. I.**
Prerequisite: Junior Standing.
Characteristics of bonds, stocks, securities market, investment banking. Sources of investment information; interpreting financial news; taxation of securities; investors of limited means; analysis of securities.
- 349 Cooperative Study in Finance. Two or four hours. A.**
Prerequisite: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 430 Accounting and Financial Practices in Regulated Industries. Three hours. I.**
(Same as ACC 430.)
Prerequisites: ACC 109 and FIN 300.
Analysis of regulatory accounting and financial practices of regulated industries. Emphasis on requirements imposed by regulatory agencies including the ICC, FPC, and CAB.
- 460 Public Finance and Taxation. Three hours. II.**
Prerequisite: Senior Standing.
Financing government; a study of objectives of governmental spending, budgetary processes, economic impact and fiscal theory, distribution of governmental burden, taxation, shifting and incidence of taxation.
- 590 Special Problems in Finance. One to four hours. A.**
(May be repeated for a maximum of four hours.)
Prerequisite: Approval of advisor and Chairman of Department.
Independent work, special workshop, special topics, or seminar.
- 600 Administrative Analysis in Finance. Three hours. II.**
Prerequisite: Graduate Standing.
Readings, problems and study of current controversial issues with emphasis on decision-making in the financial administration of the firm.
- 601 Seminar in Investments. Three hours. A.**
Prerequisite: Graduate Standing.
Readings on traditional and current issues emphasizing the need for continuing and penetrating analyses of the valuation, selection, portfolio timing and balance of securities investment. Technical competency is not emphasized as much as developing the broadly cultivated mind required to acquire insight into the dynamics of the securities investment problem.

FIN FINANCE

- 690 Independent Study in Finance. One to four hours. A.**
 (May be repeated for a maximum of four hours.)
 Prerequisite: Approval of advisor and Chairman of Department.
 Independent study of selected topics in Finance.
- 698-699 Thesis. Six hours. A.**
 Individual direction of research and thesis writing.

General Business

The general business major consists of 18 hours above the business core. The 18 hours consist of six credit hours in each of the fields of management, finance and marketing above courses required in the business core. All courses submitted toward the major must be completed with a grade of "C" or higher. At least 12 of the hours in the major must be earned at Eastern Kentucky University.

**Bachelor of Business Administration
 Degree Curriculum
 Major in General Business**

MAJOR REQUIREMENTS	18 hours
FIN, 6 hours; MGT, 6 hours; MKT, 6 hours above the business core.	
BUSINESS CORE	36 hours
ACC 108 and 109; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300; OAD 301 or 400.	
SUPPORTING COURSE REQUIREMENTS	3 hours
MAT 107.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 additional hours Social Science; 9 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for complete University general education requirements.	
BUSINESS ELECTIVES	9 hours
FREE ELECTIVES	10 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Course Descriptions**GBU GENERAL BUSINESS**

- 200 Real Estate Construction. Three hours. A.**
 Prerequisite: Approval of instructor.
 A consideration of basic construction terminology and methodology.
 The reading, interpretation and analysis of construction blueprints as
 related to construction development and appraisal.

GBU GENERAL BUSINESS

- 220 Practices and Procedures. Three hours. A.**
Formerly GBU 390.
Prerequisite: Enrolled in the associate degree program in Banking or approval of departmental chairman.
A course designed to acquaint banking majors with the wide range of activities and procedures typical of many banks.
- 300 Business Law. Three hours. I, II.**
Prerequisite: Junior Standing or approval of instructor.
Law in general; kinds of law persons, torts, contracts, personal property, real property and forms of business organization.
- 302 Business Law. Three hours. II.**
Prerequisite: Junior Standing or approval of instructor.
Bailments; sales of personal property; market practices, negotiable contracts, secured creditors and labor relations.
- 310 Real Estate Principles. Three hours. I, II.**
Prerequisite: Junior Standing or approval of instructor.
Procedures involved in the ownership and transfer of real property, laws governing real estate transactions.
- 320 Real Estate Law. Three hours. A.**
Prerequisite: GBU 310 or approval of instructor.
A study from the businessman's point of view of real estate instruments, property rights and liabilities, estates and interest and leins.
- 330 Real Estate Finance. Three hours. A.**
Prerequisite: GBU 310 or approval of instructor.
A study of sources of funds for financing real estate transactions, financial instruments that are used and problems encountered in financing real property.
- 340 Real Estate Appraisal. Three hours. A.**
Prerequisite: GBU 310 or approval of instructor.
A study of fundamentals of appraising real property, approaches to determining value and the factors that contribute to the cost of real estate.
- 349 Cooperative Study in General Business (Banking, Insurance, Real Estate). Two or four hours. A.**
Prerequisites: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 350 Real Estate Marketing. Three hours. A.**
Prerequisite: GBU 310 or approval of instructor.
The study of factors in marketing residential, business, industrial and farm property such as: listing, prospecting, advertising, showing; determining the needs of the client; qualifying clients; closing the sale.
- 355 Real Estate Property Management. Three hours. A.**
Prerequisite: GBU 310 or approval of instructor.
Factors involved in the administration, marketing and evaluation of residential and commercial income properties and interaction with development and construction firms.
- 360 Business Internship. Two to four hours. A.**
Prerequisites: GPA of 2.0 and approval of departmental chairman.
Practical experiences of the type appropriate for the student's major.

BU GENERAL BUSINESS

- 0 Principles of Risk and Insurance. Three hours. I, II.**
Formerly FIN 320.
Prerequisite: Junior Standing.
Principles and coverages of insurance. Methods of risk assumption; fire insurance, transportation insurance, casualty insurance, life insurance, fidelity and surety bonds.
- 2 Property and Liability Insurance. Three hours. I.**
Prerequisite: GBU 370.
Analytical study of important property and casualty coverage available with emphasis on the underwriting, legal and economic characteristics.
- 4 Life and Disability Insurance. Three hours. II.**
Prerequisite: GBU 370.
Functions and uses of life and disability insurance, contract analysis, legal aspects, group, industrial and other forms of life and disability insurance.
- 0 Real Estate Brokerage. Three hours. A.**
Prerequisite: GBU 330.
The establishment and operation of a Real Estate Broker's office with concentration on the unique problems of staff recruitment and training, sales activities, marketing policies and practices and professional ethics involved in such an agency. Attention is given to specific office operations required by the Kentucky Revised Statutes regarding Real Estate Brokerages.
- 0 Real Estate Investments. Three hours. A.**
Prerequisites: GBU 330, 340.
Analysis in real estate investments; organization and operation of the Real Estate Investment Trust and other trusts; syndications; partnerships and corporations in real estate investments; and selection of investment portfolios in real estate.
- 0 Property and Liability Insurance Operations. Three hours. II.**
Prerequisite: GBU 372.
A functional course including underwriting and reinsurance, claims settlement, agency management, marketing methods, principles of rate-making, statement analysis and types of insurance carriers.
- 2 Life and Health Insurer Operations. Three hours. I.**
Prerequisite: GBU 374.
Company operational problems and activities including organizational characteristics, underwriting, investment, financial statement analysis, mathematical aspects and regulation.

Insurance

The insurance major consists of 18 hours above the business core. All courses submitted toward the major must be completed with a grade of "C" or higher. At least 12 of the hours in the major must be earned at Eastern Kentucky University.

Bachelor of Business Administration Degree Curriculum Major in Insurance

MAJOR REQUIREMENTS*	18 hours
Includes GBU 370, FIN 324 and 12 additional hours in insurance. The 12 additional hours may be selected from FIN 420 and GBU 372, 374, 470, and 472.	
BUSINESS CORE	36 hours
ACC 108 and 109; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300; OAD 301 or 400.	
SUPPORTING COURSE REQUIREMENT	3 hours
MAT 107.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours additional Social Science; 9 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
BUSINESS ELECTIVES	9 hours
FREE ELECTIVES	10 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

*Some 300 and 400 level courses in Insurance may not be offered until the academic year of 1978-79.

Management

The management major consists of 18 hours above the business core. All courses submitted toward the major must be completed with a grade of "C" or higher. At least 12 of the hours in the major must be earned at Eastern Kentucky University.

Bachelor of Business Administration Degree Curriculum Major in Management

MAJOR REQUIREMENTS	18 hours
MGT 504 and 15 other hours of MGT above the business core. Up to six hours of the following courses may be substituted for the MGT requirements above the business core: ACC 300; ECO 333, 530, 597; EDP 475; OAD 560; and PSY 319.	

Students wishing an emphasis in Personnel Management should take the following courses: MGT 320, 324, 500, 504 and six other hours of MGT above the business core. Acceptable substitutes for the six other hours of MGT include ACC 300, ECO 333 and 597, OAD 560 and PSY 319. Students wishing an emphasis in Production Management should take the following courses: MGT 306, 310, 340, 504, and six other hours of MGT courses above the business core. Acceptable substitutes for the six other hours of MGT include ACC 300, EDP 475, and ECO 530.

BUSINESS CORE	36 hours
ACC 108 and 109; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300; OAD 301 or 400.	
SUPPORTING COURSE REQUIREMENT	3 hours
MAT 107.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 additional hours Social Science; 9 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for complete University general education requirements.	
BUSINESS ELECTIVES	9 hours
FREE ELECTIVES	10 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Associate of Arts Degree Curriculum Management

At least 67 hours must be completed with a 2.0 grade point average for the degree to be awarded.

FRESHMAN YEAR	33 hours
GSO 100; GSE 101, 102 or 105; GSP 180 and 181 or 281; ACC 108, 109; ECO 230; MAT 107; MGT 200; OAD 151 or 152; MIL 101, 102 (or options for men, electives for women); ANT 110 or 102 or GSS 142 or POL 100 or 101 or SOC 131.	
SOPHOMORE YEAR	34 hours
ECO 231; EDP 200 or 312; ACC 300; MGT 306, 310, 320; MKT 300; FIN 300; GBU 300; OAD 301; MIL 201, 202 (or options for men, electives for women).	
TOTAL CURRICULUM REQUIREMENTS	67 hours

Course Descriptions

MGT MANAGEMENT

- 200 Concepts of Modern Organization. Three hours. I, II.**
Prerequisite: Sophomore Standing.
Concepts of management in organizations; universality of management functions; fundamental concepts in planning, organizing, directing and controlling; human relations aspects of managerial functions; search for a practical philosophy of management.
- 306 Managerial Systems Analysis. Three hours. I, II.**
Prerequisite: MGT 200 and Junior Standing.
Introduction to concepts of selection, installation, operation, maintenance and control of management systems.
- 310 Production Control. Three hours. A.**
Formerly MGT 440.
Prerequisite: MGT 306.
Control of time, quantity and quality of operations. Routing, scheduling, dispatching and control problems. Systems relationships in manufacturing, sales and technical staff departments.
- 320 Personnel Management and Industrial Relations. Three hours. II.**
Prerequisite: Junior Standing.
Personnel management in factory, store and office; job analysis, description and classification; personnel selection, maintenance and training; promotion; labor turnover; wage policies; health and safety.
- 324 Collective Bargaining. Three hours. I.**
Analysis of bargaining procedures; study of basic institutional issues in bargaining, economically related administrative clauses, strike and lockout tactic and contract administration. Preparation, negotiation and interpretation of labor contracts.
- 340 Managerial Decision Theory. Three hours. II.**
Prerequisite: Junior Standing.
Procedures and techniques employed in operations management. Managerial decision-making; statistical, linear programming and general quantitative analysis applied in case problems.
- 349 Cooperative Study in Management. Two or four hours. A.**
Prerequisite: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to the student's academic studies. Credit varies with hours of employment; two or fours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 410 Small Business Operation. Three hours. I, II.**
Prerequisite: Junior Standing or approval of instructor.
Small business organization, location, financial planning, records, unit costs, merchandising, credit and personnel policies.
- 500 Administrative Behavior. Three hours. I.**
Prerequisite: MGT 200 and Senior or Graduate Standing.
Selected concepts from the behavioral sciences brought into a framework relevant to business decision-making. Examines social science research in decision-making by individuals and groups.
- 504 Administrative Policy. Three hours. I, II.**
Prerequisite: MGT 200 and Senior or Graduate Standing.
Issues in organization and structure of the business, employment policies, pricing policies, relations with governmental agencies, research and development policies, marketing strategy and employer and stockholder relations.

MGT MANAGEMENT

- 550 Management Seminar. Three hours. I.**
Prerequisite: Senior or Graduate Standing.
Each semester some topic in management will be studied intensively.
- 590 Special Problems in Management. One to four hours. A.**
(May be repeated for a maximum of four hours.)
Prerequisite: Approval of advisor and Chairman of Department.
Independent work, special workshop, special topics or seminar.
- 600 Administrative Analysis in Management. Three hours. I.**
Prerequisite: Graduate Standing.
Examines the evolution of management concepts and philosophies.
An analysis of the contributions of various philosophies in the synthesis of an eclectic philosophy of management.
- 620 Administrative Analysis of Complex Organizations. Three hours. II.**
Prerequisite: Graduate Standing.
Parallel analyses of administrative practices in business and government with emphasis on administrative theory. Stress placed on administrative practices observed in the functions of planning, organizing, directing and controlling.
- 690 Independent Study in Management. One to four hours. A.**
(May be repeated for a maximum of four hours.)
Prerequisite: Approval of advisor and Chairman of Department.
Independent study of selected topics in Management.
- 698-699 Thesis Six hours. A.**
Individual direction of research and thesis writing.

Marketing

The marketing major consists of 18 hours above the business core. All courses submitted for the major must be completed with a grade of "C" or higher. At least 12 hours of the major must be earned at Eastern Kentucky University.

Bachelor of Business Administration Degree Curriculum Major in Marketing

MAJOR REQUIREMENTS	18 hours
MKT 500 or 504 and 15 additional hours of MKT above the business core. In addition to the marketing courses listed in this section, ECO 394 and GBU 370 may be counted toward the marketing major.	
BUSINESS CORE	36 hours
ACC 108 and 109; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300; OAD 301 or 400.	
SUPPORTING COURSE REQUIREMENT	3 hours
MAT 107.	

GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 additional hours Social Science; 9 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for complete University general education requirements.	
BUSINESS ELECTIVES	9 hours
FREE ELECTIVES	10 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Associate of Arts Degree Curriculum Retailing

At least 68 hours must be completed with a 2.0 grade point average for the degree to be awarded.

FRESHMAN YEAR	34 hours
GSO 100; GSE 101, 102 or 105; ACC 108, 109; ECO 230; EDP 200 or 312; MGT 200; OAD 151 or 152; SPE 100; Laboratory Science or Math, 3 hours; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	34 hours
ACC 300; ECO 231; FIN 300; GBU 300; MKT 300, 310, 304, 320; OAD 301, 354 or approved business elective; MIL 201, 202 (or options for men, electives for women).	
TOTAL CURRICULUM REQUIREMENTS	68 hours

Course Descriptions

MKT MARKETING

- 300 Marketing. Three hours. I, II.**
Prerequisite: Junior Standing.
Consumer buying. Marketing functions and institutions; direct selling, department stores, mail-order houses, chain stores, agricultural wholesaler, raw materials, cooperative marketing, speculation, price policies, brand policies and ethical aspects of marketing.
- 304 Retailing. Three hours. I, II.**
Prerequisite: Junior Standing.
Location and arrangement of stores; organizational principles; personnel procedures; time procedures; merchandising principles; sales promotion.
- 310 Salesmanship. Three hours. I.**
Prerequisite: Junior Standing.
The art of selling; motive behind buying, attitudes of buyer and salesman, the interview, arousing interest, creating desire, answering objections, meeting excuses, diplomacy of the close, and types of customers.

MKT MARKETING

- 315 Marketing Logistics. Three hours. II.**
Prerequisite: MKT 300.
Analysis of the movement and storage of goods, the coordination and control of inventory, customer services, packaging, material handling, facility location and flow of information.
- 320 Advertising. Three hours. I, II.**
Prerequisite: MKT 300.
Concepts of advertising; slogans, trademarks; layouts and engraving. Scheduling of advertising; direct mail, outdoor and dealer display. Economic and legal aspects of advertising.
- 324 Advertising Copy and Layout. Three hours. II.**
Prerequisite: MKT 320.
Advertising copy for various media. Art principles used in designing graphic and written advertising material.
- 330 Principles of Transportation. Three hours. I.**
Prerequisite: MKT 300 or approval of instructor.
Various forms of transportation and institutional factors influencing transportation decisions. Regulation, public policy, rate making services, and the interaction of transportation with other elements of business.
- 349 Cooperative Study in Marketing. Two or four hours. A.**
Prerequisite: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to the student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 400 International Marketing. Three hours. I.**
Prerequisite: MKT 300.
Determination of marketing strategy by United States firms and multinational corporations for serving foreign markets and for adapting to variations in cultural and economic factors affecting foreign marketing efforts.
- 430 Traffic Management. Three hours. II.**
Prerequisite: MKT 330.
Analysis of industrial and carrier functions relating to the buying and selling of transportation services. Includes responsibilities of both carriers and shippers, pricing of services, legal duties, and sources of information and tools available for solving transportation problems.
- 440 Industrial Marketing. Three hours. I.**
Prerequisite: MKT 300.
An analysis of the marketing structure for industrial products. Product lines, channels of distribution, selling, pricing and wholesaling problems.
- 450 Consumer Behavior in Marketing. Three hours. II.**
(Former title, "Marketing Environments")
Prerequisites: MKT 300 and Junior or Senior Standing.
The role of consumer decision-making as it affects the marketing firm. Emphasis on the basic concepts of consumer behavior and the interrelationships that exist between marketing and the behavioral sciences.
- 500 Marketing Research and Analysis. Three hours. I.**
Prerequisite: MKT 300 and ECO 220; and Senior or Graduate Standing.
Study of the role of research in marketing decision-making; the research process, with emphasis on the collection, analysis, and interpretation of data as applied to the solution of marketing problems. Students are required to develop and carry out a research project.

MKT MARKETING

- 504 Marketing Management. Three hours. II.**
Prerequisite: MKT 300 and Senior or Graduate Standing.
A managerial approach to the study of marketing with emphasis on planning and decision-making in the areas of marketing policies and strategies.
- 590 Special Problems in Marketing. One to four hours. A.**
(May be repeated for a maximum of four hours.)
Prerequisite: Approval of advisor and Chairman of Department.
Independent work, special workshop, special topics, or seminar.
- 600 Marketing Problems. Three hours. S.**
Prerequisite: Graduate Standing.
A survey, analysis and evaluation of current trends, controversial issues and advanced technology in the field of marketing. The course is oriented toward decision-making from the standpoint of marketing administration in the firm.
- 690 Independent Study in Marketing. One to four hours. A.**
(May be repeated for a maximum of four hours.)
Prerequisite: Approval of advisor and Chairman of Department.
Independent work, special workshop, special topics, or seminar.
- 698-699 Thesis Six hours. A.**
Individual direction of research and thesis writing.

Real Estate

The real estate major consists of 21 hours above the business core. All courses submitted for the major must be completed with a grade of "C" or better. At least 12 hours in the major must be earned at Eastern Kentucky University.

**Bachelor of Business Administration
Degree Curriculum
Major in Real Estate**

MAJOR REQUIREMENTS	21 hours
GBU 310, 320, 330, 340, 350, 355, and 400 or 410.	
BUSINESS CORE	36 hours
ACC 108 and 109; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300; OAD 301 or 400.	
SUPPORTING COURSE REQUIREMENTS	6 hours
MAT 107 and GBU 370.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours additional Social Science; 9 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	

BUSINESS ELECTIVES	6 hours
Suggested electives for the major in real estate include: PLA 220, 221, 324; ACC 300, 322; MKT 320; ECO 341, 360, 597; GBU 200.	
FREE ELECTIVES	7 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Associate of Arts Degree Curriculum Real Estate

At least 66 hours must be completed with a 2.0 grade point average for the degree to be awarded.

FRESHMAN YEAR	33 hours
ACC 108; ANT 110 or 202 or GSS 142 or POL 100 or 101 or SOC 131; ECO 230; GBU 310; GSE 101, 102 or 105; GSO 100; GSP 180 and 181 or 281; OAD 151 or 152; ECO 231; Lab Science or Math 3 hours; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	33 hours
FIN 300; GBU 320, 330, 340, 350, 370; OAD 301, 354; SPE 100; MIL 201, 202 (or options for men, electives for women); business elective, 2 hours.	
TOTAL CURRICULUM REQUIREMENTS	66 hours

Transportation and Physical Distribution Management

The transportation and physical distribution management major consists of 21 hours above the business core. All courses submitted for the major must be completed with a grade of "C" or better. At least 12 hours in the major must be earned at Eastern Kentucky University.

Bachelor of Business Administration Degree Curriculum

Major in Transportation and Physical Distribution Management

MAJOR REQUIREMENTS	21 hours
ECO 593; FIN 430; MKT 315, 330, 430, 590; TRA 300.	
BUSINESS CORE	36 hours
ACC 108 and 109; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300; OAD 301 or 400.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 additional hours Social Science; 9 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	

SUPPORTING COURSE REQUIREMENT	3 hours
MAT 107.	
BUSINESS ELECTIVES	6 hours
Suggested electives for the major in transportation and physical distribution management include: PLA 334; ACC 300; FIN 460; ECO 530; ECO 597.	
FREE ELECTIVES	10 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Business Education and Office Administration

Patrick, A., Chairman; Gump, Hogg, Jennings, Jones, Mountz, Vice, Watanabe.

The purposes of the Department of Business Education and Office Administration are to prepare qualified teachers of business and qualified office personnel in two-year and four-year programs. A student may major in four-year programs in **Business Education** or in **Office Administration** or in two-year programs in **Administrative Office Services, Executive Secretary, Legal Secretary, or Medical Secretary**. A non-teaching **Secretarial** minor is also offered.

Business Education

The Department, in cooperation with the College of Education, provides programs leading to a Bachelor of Science degree and certificates qualifying graduates to teach business education at the secondary level. The Department offers an area in business education (which requires a minimum of 48 hours in business) and single majors (without minor fields of study) for students who plan to teach business subjects exclusively. Graduates with an area in business education are certified to teach in all subject areas of business education at the secondary level; students taking single majors (which require from 37 to 39 hours in business) are not required to have minors and may elect one of three content specializations in business teaching in which to concentrate their study. Majors in business education which require a minimum of 30 to 34 hours in business and a minor or second major in some other field are offered for those students who wish to combine teaching business with other subjects. Majors may be completed with emphasis in one of three fields — accounting, general business, or secretarial.

Students who desire to qualify as teachers for federally reimbursed

vocational business education programs follow the same area or major programs mentioned above; however, they must have the equivalent of a year (2,000 hours) of appropriate office work experience.

In order to be admitted to teacher education programs, a student must have a 2.0 grade point average on his entire record and also in his teaching field or fields. However, to be eligible for student teaching, a grade point average of 2.25 is required for the student's entire record and in his teaching field or fields.

Anna D. Gill Award

Each spring the outstanding graduating senior in the department of Business Education and Office Administration is selected to receive the Anna D. Gill Award. This prize consists of the income from a fund established in the honor of Miss Gill, a former member of the business faculty.

Bachelor of Science Degree Curricula Area in Business Education (Teaching)

MAJOR REQUIREMENTS	48 hours
ACC 108, 109, 3 hours ACC elective; ECO 230, 231, 324; GBU 300; OAD 115*, 116, 152, 202, 253, 260, 301, 303, 354; 2 hours business elective.	
SUPPORTING COURSE REQUIREMENTS	27 hours
EDF 102, 202, 317; ESE 454, 455, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	130 hours

*Students who have adequate background in shorthand to enter OAD 116 instead of OAD 115 may do so.

Major in Business Education with Accounting Emphasis (Teaching) (Minor Required)

MAJOR REQUIREMENTS	30 hours
18 hours ACC; ECO 230; GBU 300; OAD 151, 152, 253.	

SUPPORTING COURSE REQUIREMENTS	26 hours
EDF 102, 202, 317; ESE 455, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	55 hours
See requirements for Area in Business Education above.	
FREE ELECTIVES	17 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

**Major in Business Education with
General Business Emphasis (Teaching)
(Minor Required)**

MAJOR REQUIREMENTS	30 hours
ACC 108, 109, 3 hours ACC elective; ECO 230, 231, 324; GBU 300; OAD 151, 152, 253; 3 hours business elective.	
SUPPORTING COURSE REQUIREMENTS	26 hours
EDF 102, 202, 317; ESE 455, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	55 hours
See requirements for Area in Business Education above (p. 395).	
FREE ELECTIVES	17 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

**Major in Business Education with
Secretarial Emphasis (Teaching)
(Minor Required)**

MAJOR REQUIREMENTS	34 hours
ACC 108, 109, 3 hours ACC elective; ECO 230; OAD 116, 152, 202, 253, 260, 301, 303, 354.	
SUPPORTING COURSE REQUIREMENTS	27 hours
EDF 102, 202, 317; ESE 454, 455, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	55 hours
See requirements for Area in Business Education above (p. 395).	
FREE ELECTIVES	12 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

**Single Major in Business Education with
Accounting Emphasis (Teaching)**

MAJOR REQUIREMENTS	39 hours
18 hours ACC; ECO 230, 231; GBU 300; OAD 151, 152, 253, 301; 3 hours business elective.	

SUPPORTING COURSE REQUIREMENTS	26 hours
EDF 102, 202, 317; ESE 455, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	55 hours
See requirements for Area in Business Education above (p. 395).	
FREE ELECTIVES	8 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Single Major in Business Education with General Business Emphasis (Teaching)

MAJOR REQUIREMENTS	39 hours
ACC 108, 109, 3 hours ACC elective; ECO 230, 231, 324, 391; GBU 300; OAD 151, 152, 253, 301, 354; 3 hours business elective.	
SUPPORTING COURSE REQUIREMENTS	26 hours
EDF 102, 202, 317; ESE 455, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	55 hours
See requirements for Area in Business Education above (p. 395).	
FREE ELECTIVES	8 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Single Major in Business Education with Secretarial Emphasis (Teaching)

MAJOR REQUIREMENTS	40 hours
ACC 108, 109, 3 hours ACC elective; ECO 230, 231; OAD 116, 152, 202, 253, 260, 301, 303, 354; 3 hours business elective.	
SUPPORTING COURSE REQUIREMENTS	27 hours
EDF 102, 202, 317; ESE 454, 455, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	55 hours
See requirements for Area in Business Education above (p. 395).	
FREE ELECTIVES	6 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

ORGANIZATIONS

The Department sponsors Pi Omega Pi, a national honorary fraternity for outstanding students who are interested in teaching in the field of business. Pi Omega Pi is a member of the Association of College Honor Societies. The Department also sponsors a chapter of Phi Beta Lambda, a national organization for developing leadership in business students.

Award

The Department presents annually the National Business Education Associa-

tion Professional Award to the outstanding senior in business teacher education.

Graduate Program

Students may earn the Master of Arts in Education degree with a specialization in business education. For information concerning this degree program, refer to the College of Education section of the catalog.

Office Administration

As part of its undergraduate program, the Department offers a variety of programs for the preparation of office personnel.

Secretarial Minor

A student with a major in another field may complete a non-teaching secretarial minor which consists of the following courses: OAD 116, 253, 260, 301, 303, and four hours of approved business electives. Some students may have to complete prerequisite courses in typewriting and/or shorthand; these courses will count as part of the approved business electives necessary for a minimum of 18 hours. Suggested electives include ACC 108; OAD 202, 354, 540, and 560; GBU 300; EDP 312.

Bachelor of Business Administration Curriculum

The Bachelor of Business Administration degree is offered for students who want to complete a four-year office administration program without teaching certification.

Major in Office Administration

MAJOR REQUIREMENTS	19 hours
OAD 116, 152, 202, 253, 260, 303, 560.	
BUSINESS CORE REQUIREMENTS	36 hours
ACC 108, 109; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300; OAD 301 or 400.	
SUPPORTING COURSE REQUIREMENTS	3 hours
MAT 107.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 9 hours Mathematics and Natural Sciences; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
BUSINESS ELECTIVES	9 hours
FREE ELECTIVES	9 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

All work toward the Major in Office Administration must be completed with a grade of "C" or higher. At least 12 of the hours listed as **Major Requirements** must be earned at Eastern Kentucky University.

Associate of Arts Degree Curricula Administrative Office Services

FRESHMAN YEAR	33 hours
GSO 100; GSE 101, 102 and 105; ACC 108, 109; 3 hours approved Social Science; ECO 230; MGT 200; MIL 101, 102 (or options for men, electives for women). OAD 152*, 253; SPE 100.	
SOPHOMORE YEAR	33-35 hours
ACC 180 or 300; ECO 231; EDP 200 or 312; GBU 300; MGT 320; MIL 201, 202 (or options for men, electives for women); OAD 260, 280, 301, 354, and 349 or 350.	
TOTAL CURRICULUM REQUIREMENTS	66-68 hours

*If students do not have typewriting background adequate to enter OAD 152, they must take OAD 151 in addition to the program specified above.

Executive Secretary

FRESHMAN YEAR	33 hours
GSO 100; GSE 101, 102 or 105; ACC 108; 3 hours approved Social Science, Natural Science, or Mathematics; GSS 246 or HIS 202; MIL 101, 102 (or options for men, electives for women); OAD 101, 115*, 151*, 152; SPE 100.	
SOPHOMORE YEAR	33 hours
3 hours approved Social Science, Natural Science, or Mathematics; ECO 230; GSS 247 or HIS 203; MIL 201, 202 (or options for men, electives for women); OAD 116, 202, 253, 260, 301, 303, 354.	
TOTAL CURRICULUM REQUIREMENTS	66 hours

*Students who have adequate background in shorthand or typewriting to enter OAD 116 or 152 instead of OAD 115 or 151 may do so.

Legal Secretary

FRESHMAN YEAR	33 hours
GSO 100; GSE 101, 102 or 105; ACC 108; 3 hours approved Natural Science or Mathematics; 3 hours approved Social Science; MIL 101, 102 (or options for men, electives for women); OAD 115*, 116, 152, 253; SPE 100.	
SOPHOMORE YEAR	33-35 hours
ECO 230; GBU 300, 302; MIL 201, 202 (or options for men, electives for women); OAD 202, 260, 301, 303, 320, 354 and 349 or 350.	
TOTAL CURRICULUM REQUIREMENTS	66-68 hours

*Students who have adequate background in shorthand to enter OAD 116 instead of OAD 115 may do so.

Medical Secretary

FRESHMAN YEAR	35 hours
GSO 100; GSE 101, 102 or 105; ACC 108; BIO 171; HEA 202; MAS 100; MIL 101, 102 (or options for men, electives for women); AHN 101; OAD 115*, 116, 152, 253.	
SOPHOMORE YEAR	33-35 hours
ECO 230; MAS 225A or OAD 349 or 350; MIL 201, 202 (or options for men; OAD 354 and elective for women); AHN 200, 208; OAD 202, 260, 301, 303, 330; SPE 100.	

TOTAL CURRICULUM REQUIREMENTS **68-70 hours**

*Students who have adequate background in shorthand to enter OAD 116 instead of OAD 115 may do so.

Course Descriptions

OAD OFFICE ADMINISTRATION

- 101 Introduction to Business. Three hours. I, II.**
A survey of the functional areas of business administration. For the student who has no background in business.
- 115 Beginning Shorthand. Three hours. I, II.**
Prerequisite: OAD 151 or equivalent.
Principles of shorthand dictation and transcription. Four hours in class each week.
- 116 Intermediate Shorthand. Three hours. I, II.**
Prerequisites: OAD 115 or 152 or their equivalents.
A continuation of OAD 115 with increased emphasis on dictation and transcription, including the production of mailable business correspondence. Four hours in class each week.
- 151 Beginning Typewriting. Two hours. I, II.**
Techniques in keyboard control; skill building practice; personal and business letters; tabulating; term papers. *Note:* Any student who has received at least one full unit of high school credit in typewriting will not be permitted to take OAD 151 for credit toward a degree in the College of Business.
- 152 Intermediate Typewriting. Two hours. I, II.**
Prerequisite: OAD 151 or equivalent.
Continued emphasis on speed and accuracy building; increased emphasis on business papers, manuscripts, reports, and tabulation. Four hours in class each week.
- 202 Dictation and Transcription. Three hours. I, II.**
Prerequisites: OAD 116 and 152.
Continuation of shorthand vocabulary development; improvement of ability to take dictation and transcribe mailable copy; emphasis on development of skill necessary to meet occupational standards. Four hours in class each week.
- 253 Advanced Typewriting. Two hours. I, II.**
Prerequisite: OAD 152 or equivalent.
Increased emphasis on advanced typewriting problems. Production typewriting stressed.

OAD OFFICE ADMINISTRATION

- 260 Office Services. Three hours. I, II.**
Prerequisite: OAD 152 or equivalent.
Development of proficiency in office services such as machine transcription and a variety of duplication processes and filing systems.
- 280 Office Procedures and Administration. Three hours. A.**
A study of procedures, technologies, human relations, and services of modern, dynamic offices.
- 301 Business Communications. Three hours. I, II.**
Principles and practices of modern written business communication; various types of business letters and reports are studied; emphasis is on writing letters and reports.
- 303 Secretarial Practice. Three hours. I, II.**
Formerly OAD 203.
Prerequisite: OAD 152 or equivalent.
The course is designed to develop skills for secretarial competency and efficiency. The student is given experience in a variety of specialized secretarial duties typical of those of a professional secretary.
- 320 Legal Dictation, Transcription, and Office Practice. Three hours. A.**
Prerequisites: OAD 202, 253, 303; GBU 300.
Development of ability to write in shorthand and transcribe legal dictation; special attention given to unique functions of legal secretaries.
- 330 Medical Dictation, Transcription, and Office Practice. Three hours. A.**
Prerequisites: BIO 171; OAD 202, 253, 303; AHN 200.
Development of ability to write in shorthand and transcribe medical dictation; special attention given to unique functions of medical secretaries.
- 349 Cooperative Study (Office Administration). Two or four hours. A.**
Prerequisite: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment; two or four hours per semester or summer. Total credit hours allowed: six, Associate degree; twelve, Baccalaureate degree.
- 350 Simulated Office Situations. Three hours. A.**
Prerequisites: GPA of 2.0, OAD 253, and approval of departmental chairman.
Simulated office experiences of the type appropriate for the student's major. Enrollment is limited to students in executive secretary, legal secretary, medical secretary, administrative office services, office administration, and business teacher education programs.
- 354 Office Machine Calculation. Three hours. I, II.**
Development of competency in using calculating equipment to perform and understand types of computations commonly encountered in business.
- 360 Office Internship. Two to four hours. A.**
Prerequisites: GPA of 2.0, OAD 253, and approval of departmental chairman.
Experiences in offices of the type appropriate for the student's major. Enrollment is limited to students in executive secretary, legal secretary, medical secretary, administrative office services, office administration, and business teacher education programs.
- 400 Business Report Writing. Three hours. I, II.**
Basic instruction in formal research reports; principles and practices of report writing; planning and outlining the report; methods of securing data; organizing, analyzing, and interpreting data.

OAD OFFICE ADMINISTRATION

- 540 Records Management. Three hours. A.**
Formerly OAD 460.
Creation, classification, retention, protection, and disposal of records; filing procedures and equipment; effects of automation on records management; layout of facilities; records personnel administration; emphasis on administrative control of records.
- 560 Office Management. Three hours. A.**
Function and organization of the office; office layout and equipment; office personnel; work simplification and control; automation in the office; planning; organizing, and controlling office services; systems and jobs analysis.
- 580 Special Problems in Office Administration. One to four hours. A.**

Graduate Courses

- 600 Business Research and Report Writing. Three hours. II.**
Prerequisite: ECO 220 or equivalent; OAD 301 or 400.
Nature, scope, and importance of business research; research methodology; principles and mechanics of formal report writing; collection of data and completion of a formal report by each class member.
- 680 Independent Study in Office Administration. One to four hours. A.**

Economics

Shadoan, D., Chairman; Brizendine, Engle, Gillim, Hilton, Karns, Morrow, Sharp, Simmons, Wulleumier.

The curriculum in Economics is designed to increase the student's understanding of economic principles and to prepare the student for employment in the field of business and economics with privately owned firms and governmental agencies. Also, the program is designed to give the student an adequate background for graduate study.

At least 12 of the hours in the major must be earned at Eastern Kentucky University. Students pursuing the Bachelor of Business Administration Degree must make a grade of "C", or higher, in all courses counted toward a major in Economics.

A major in Economics is available to the student working toward a Bachelor of Business Administration degree. A major or minor in Economics may be taken by the student enrolled in the College of Arts and Sciences pursuing a Bachelor of Arts degree. The student pursuing a Bachelor of Arts degree (teaching) may also major or minor in Economics.

The Department of Economics participates in the Master of Business Administration program. A student enrolled in this program may take a concentration consisting of 12 hours of graduate level Economics courses. In addition, the student is required to take ECO

604. All Economics courses counting toward a concentration in Economics must be selected in consultation with the student's advisor. A detailed description of this program is presented in the Graduate Catalog.

Requirements for the various undergraduate programs are listed below.

Bachelor of Business Administration Degree Curriculum Major in Economics

MAJOR REQUIREMENTS	18 hours
ECO 530, 550, 593, plus nine additional hours of approved upper division courses in Economics.	
BUSINESS CORE REQUIREMENTS	36 hours
ACC 108, 109; OAD 301 or 400; ECO 220, 230, 231, 324; EDP 312; FIN 300; GBU 300; MGT 200; MKT 300.	
SUPPORTING COURSE REQUIREMENTS	3 hours
MAT 107.	
GENERAL EDUCATION REQUIREMENTS	52 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; nine hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
BUSINESS ELECTIVES	12 hours
FREE ELECTIVES	7 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Bachelor of Arts Degree Curricula Major in Economics

MAJOR REQUIREMENTS	30 hours
ECO 230, 231, 324, 530, 550, 593, plus 12 additional hours of upper division courses in Economics.	
SUPPORTING COURSE REQUIREMENTS	18-36 hours
These requirements will be determined by consultation between the Chairman of Economics and the appropriate Department Chairman in the College of Arts and Sciences.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102,	

201, 202 (or options for men, electives for women).
 Refer to pp. 54-58 for detailed University
 general education requirements.

FREE ELECTIVES	7-25 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor Requirements

A minor in Economics requires completion of the following courses:
 ECO 230, 231, 324, 550, 593, plus three additional hours
 of upper division courses in Economics 18 hours

Bachelor of Arts Degree Curricula Major in Economics (Teaching)

A major in Economics (Teaching) is available; however, the major must be taken in conjunction with an approved major or minor. The supporting major or minor must be approved by the Department of Economics and the Department of Secondary and Higher Education.

MAJOR REQUIREMENTS	30 hours
ECO 230, 231, 324, 530, 550, 593, plus 12 additional hours of upper division courses in Economics.	
SUPPORTING COURSE REQUIREMENTS	47-56 hours
An approved major or minor, EDF 102, 202, 317; PSY 211; ESE 449, 498, 499.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; six hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	132-141 hours

Minor Requirements (Teaching)

A minor in Economics (Teaching) requires completion of the following courses:

ECO 230, 231, 324, plus 12 additional hours selected from the following courses: ECO 360, 333, 432, 492, 550, 597, and 593. Other additional upper division courses may be approved by the Department. The minor must be taken in conjunction with an approved teaching major.

Course Descriptions

ECO ECONOMICS

- 110 American Economic History. Three hours. A.**
This course stresses an historical description of trends and events from the European background of Colonial America to the present time. Special emphasis is placed upon modern interpretation regarding economic growth and upon governmental action in the field of economics.
- 220 Statistical Methods. Three hours. I, II.**
Formerly ECO 391.
The course will consider such as the following: frequency distributions; measures of location; measures of variation; probability; theoretical distributions; sampling distribution; problems of estimation; tests of hypotheses; problems of sampling; linear regression; correlation; index numbers; time series analysis.
- 230 Principles of Economics I. Three hours. I, II.**
A course in microeconomics: A study of the basic economic principles and their application to the firm. A study of the concepts of demand, supply, pricing, resource allocation under various competitive conditions, marginal analysis, government and business, and income distribution.
- 231 Principles of Economics II. Three hours. I, II.**
A macroeconomics course: A study of such economic principles as national income; production; employment; the money and banking system; the modern theory of national income; economic growth; inflation and deflation; and the problems of economic stabilization.
- 300 Managerial Economics. Three hours. I.**
Prerequisite: ECO 230.
A study of the economic concepts that are directly applicable to business decision making. The topics to be studied at the intermediate level are: cost and production; profits, demand and pricing; capital budgeting and investment; and forecasting.
- 310 Economics of the Environment. Three hours. A.**
Prerequisite: ECO 231.
Nature of the environmental problem; methods of making evaluations of environmental damage and costs of abating detrimental practices; concepts and methods of economic analysis as applied to environmental problems; an evaluation of alternative policies for environmental protection.
- 320 Statistical Methods II. Three hours. II.**
Prerequisite: ECO 220.
A statistical methods course with supplementary coverage of: sampling theory; probability theory; time series analysis; index numbers; simple linear regression; correlation. The course will also include: the chi-square distribution; analysis of variance; multiple regression and correlation; Bayesian inference; non-parametric statistics.
- 324 Money and Banking. Three hours. I, II.**
Prerequisite: ECO 231.
Nature and functions of money; monetary systems; history of banking; functions of the commercial bank; deposits and depositors; bank assets and reserves; loans and discounts; bank supervision; the federal reserve system; central banking policies; monetary and fiscal policies.

ECO ECONOMICS

- 333 Economics of Labor. Three hours. I.**
Prerequisite: ECO 230 and ECO 231.
A study of the following topics: history of the labor movement; union structure and government; collective bargaining, the labor market; governmental regulations and controls. Special attention is paid to current problems and issues in the field of labor relations.
- 341 Contemporary Economic Problems. Three hours. A.**
Prerequisite: ECO 231.
A survey of the current economic problems confronting the U.S. economy; economic growth; economic stabilization; income distribution; international trade; and government interventionism.
- 360 Consumer Economic Problems. Three hours. I.**
The economic analysis of consumer problems, including: study of the classical concept of consumer sovereignty; the economic importance and analysis of consumer demand; the economic analysis of consumer expenditures; and important aspects of consumer education and protection.
- 394 International Economics. Three hours. I.**
Prerequisite: ECO 324.
An introduction to international trade theory, balance of payments, and selected international financial institutions. The role of the U.S. is emphasized in the study of such problems as international monetary reform; the cold war; underdeveloped countries; and the Common Market.
- 432 Alternate Economic Systems. Three hours. A.**
Prerequisite: ECO 231.
A study of the following topics: capitalism; utopian forerunners; the Marxian theory of socialism and communism; modern socialism and communism; British socialism; the economy of the Soviet Union; Fascism as existed in Italy and Germany; the Consumers Cooperative Movement.
- 492 Business Cycles. Three hours. II.**
Prerequisite: ECO 231.
A study of the following: growth, instability, inflation, business cycle theories; personal spending and saving decisions; saving and spending in the business sector; government expenditures and tax patterns; prices, output, and employment, historical cyclical patterns; and economic forecasting.
- 520 Economic Thought and Philosophy. Three hours. II.**
Prerequisite: ECO 230 and ECO 231.
A study of the evolution of economic ideas from the Mercantilist period until present. Relation of the various schools of economic thought and their adherents to the development of a market system philosophy. Radical departures from orthodox economics are studied. This course may not be taken for credit by students who have previously taken ECO 511.
- 530 Quantitative Methods in Accounting, Business, and Economics. Three hours. I, II.**
Prerequisite: ECO 220 or approval of instructor.
The course will consider such as the following: probability; decision making; linear programming; game theory; inventory models; queuing models; transportation problems; and simulation techniques.

ECO ECONOMICS

- 550 National Income Analysis. Three hours. I.**
Prerequisite: ECO 231.
A study of macroeconomic concepts at the intermediate level. Topics studied are: national income; consumption theory; investment theory; inflation and deflation; monetary theory; the government in economic stabilization; and the comparison of Classical, Keynesian and modern theories.
- 560 Special Problems in Economics. Three hours. A.**
Prerequisite: Approval of advisor and chairman of the department. Independent work, special workshop, special topics, or seminar.
- 593 Intermediate Economic Theory and Analysis. Three hours. II,**
Prerequisite: ECO 230.
A development of the leading theories and analysis of value and distribution. Problems and policies of price determination of both the firm and the industry and factor pricing are considered at the intermediate level of analysis.
- 595 The Economics of Growth and Development. Three hours. II.**
Prerequisite: ECO 230 and ECO 231.
The measurement of underdevelopment; the international distribution of income; the causes of economic growth; public policy for the promotion of economic growth; theories and development.
- 597 Private Enterprise and Public Policy. Three hours. II.**
Prerequisite: ECO 230 and ECO 231.
A study of the principal government policies pertaining to business behavior and their applications by agencies and the courts. Specific policies are analyzed from the standpoint of economic concepts and alternatives to present policies.

Graduate Courses

- 600 Managerial Economics. Three hours. II.**
Prerequisite: ECO 230 and ECO 231.
This course deals with economic concepts that are directly relevant to managerial decision making. The topics studied are: demand and demand forecasting; cost analysis; production theory, and pricing under competitive and imperfect market conditions.
- 604 Statistical Methods. Three hours. I.**
Prerequisite: ECO 220 or equivalent.
An intermediate course in statistical methods that deals with the following topics: sampling theory, elementary probability theory, multiple and linear correlation analysis, hypothesis testing, chi-square distribution, analysis of variance, economic forecasting, and non-parametric statistics.
- 620 Contemporary Economic Problems. Three hours. A.**
Prerequisite: ECO 231 and approval of instructor.
This course deals with the application of economic principles to certain contemporary economic problems such as economic growth, economic stability, taxation, employment, poverty, national debt, gold outflow, monetary and fiscal problems.
- 660 Independent Study in Economics. One to four hours. A.**
- 698-699 Thesis. Six hours.**
Individual direction of research and thesis writing.

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EASTERN KENTUCKY UNIVERSITY

EASTERN KENTUCKY UNIVERSITY COLLEGE OF EDUCATION

Dixon A. Barr, Dean

J. Linward Doak, Associate Dean

Eastern Kentucky University has maintained a strong interest and commitment to the preparation of teachers since its founding in 1906. While teacher education at Eastern is viewed as an all-university function, the College of Education assumes major responsibility for students majoring in elementary education, library science, physical education, public health, recreation, rehabilitation education, school health, special education and speech pathology and audiology. Freshmen and sophomore students in these academic areas are advised in cooperation with Central University College; upperclassmen entering these programs will be assigned an advisor by their department chairman upon admission to the College of Education.

Admission to the College of Education

Admission to the College of Education is based on completion of a minimum of 60 semester hours of prescribed coursework in the appropriate program in Central University College.

It must be clearly understood that admission to the College of Education is **not** synonymous with admission to the teacher education program.

Curriculum Requirements

Each student must make application for a planned curriculum at the time he completes Central University College requirements and is admitted to the College of Education. Those students who are in teaching programs will initiate their applications for a planned curriculum while enrolled in EDF 202/300. Students in non-teaching programs must apply for a planned curriculum in the office of the chairman of their major department. Any change in the planned curriculum must be approved by the student's advisor, the department chairman, and the Dean of the College of Education. *It is the student's responsibility to register for the proper courses so that he will have satisfied all requirements at the time he expects to graduate.*

Students may plan their curricula from the following options:

1. an area of concentration, or
2. two majors, or
3. one major and two minors, or
4. one major and one minor when credit in both totals 48 semester hours (54 when English is included as the major), or
5. a single major of 30 hours in approved teaching or non-teaching fields.

Teacher Education Programs

The curricula offered by the University has been planned and developed to meet the needs of students who desire to become teachers, principles, supervisors, superintendents, attendance officers in the public schools, guidance counselors, and school librarians. Curricula are offered for the preparation of elementary teachers (options are available for library science, physical education, and kindergarten teaching); for teachers of the special subjects of art, business, health, physical education, home economics, industrial arts, music, and special education; for teachers of technical and industrial subjects in vocational schools; and for the preparation of secondary school teachers in fields of biology, chemistry, earth science, economics, English, French, geography, German, history, Latin, mathematics, physics, political science, psychology, Russian, social science, sociology, Spanish, speech, and speech and drama.

Teacher Admission, Certification and Evaluation

Glynn N. Creamer, Director

This office is responsible for the admission of students to teacher education programs at Eastern. It receives and processes applications for teaching certificates and certificates for other school personnel (principals, supervisors, superintendents, counselors, and librarians). This office regularly conducts follow-up studies of graduates of the teacher education program.

Those students planning to follow a teaching program in the College of Education must meet the requirements for admission to the teacher education program. All students, regardless of the college in

which they enroll, must apply for admission to teacher education if they expect to complete a teaching program and be approved for certification.

Those who plan to work toward a teaching certificate must enroll in EDF 102, Professional Laboratory and in EDF 202, Professional Orientation. Enrollment in EDF 102 should be in the freshman year and in EDF 202 in the sophomore year. The application for the teacher education program will be processed as a part of EDF 202. Transfer students who have had a similar introductory course prior to entering Eastern should enroll in EDF 300, Orientation to Teacher Education. This must be done during the transfer student's initial semester at Eastern.

The Admissions Committee for Teacher Education will review the application materials submitted during EDF 202/300 and take appropriate action concerning the student's admission to the teacher education program on the completion of 60 semester hours and based on the following criteria:

1. Complete twelve hours of on-campus residence credit at Eastern prior to admission to the teacher education program.
2. Attain a 2.0 grade-point average (4.0 scale) in all college work at Eastern including a passing grade in EDF 102, and a minimum grade of C in EDF 202/300.
3. Demonstrate proficiency in communication skills including evidence of satisfactory speech and speaking effectiveness.
4. Present satisfactory recommendations from four Eastern faculty members including the student's instructor in EDF 102, EDF 202/300 and the student's advisor.
5. Provide evidence of no physical or psychological impairments that would preclude teaching success.
6. Accumulate a satisfactory record of acceptable social behavior in the university community as well as the community at large.
7. Present satisfactory results on such examinations as may be required by the Admissions Committee.

When a student has been admitted to the teacher education program, and not until then, may he enroll in the professional education sequence. No student will be enrolled in EDF 317, Human Development and Learning, or subsequent education courses, without an admission card. If, after admission to the teacher education program, a student is placed on either academic or social probation, his application will be reviewed.

Professional Laboratory Experiences

David L. Rush, Director

The office is responsible for the organization and administration of all professional laboratory experiences relating to the teacher education program of the University. This includes location and approval of teaching centers, assignment, supervision, and evaluation of students in a learning environment and liaison with public schools in all matters related to practicum experiences of students in teacher education programs.

The Office of Professional Laboratory Experiences receives and evaluates all applications for student teaching, determines appropriate disposition of the application, and provides continuous assessment of the applicant's pre-teaching and teaching experiences during the professional semester.

Admission to Student Teaching

Students of senior standing may enroll in student teaching if they have satisfied the following requirements:

1. Admitted to the teacher education program.
2. Filed an application during the **first** four weeks of the semester prior to the term in which student teaching is desired. Any application filed is evaluated and processed for approval or disapproval. This appraisal will specifically examine:
 - a. A valid medical examination including a current tuberculosis test. Any significant deviation from normal physical and psychological well-being will be referred to a proper examining physician.
 - b. Behavior that relates to the moral, ethical, social, and personal standards of professional competency. The student's comportment will be subject to review and appraisal by the department responsible for the student teaching recommendation and the College of Education.
 - c. Each student applying must complete a curriculum contract and file it with the Dean, College of Education, prior to final approval for student teaching.
3. Completed a minimum of 12 semester hours of on-campus residence at Eastern prior to admission to student teaching.
4. Completed all prerequisites in professional education and pre-

student teaching curricula in the applicant's area as prescribed by this catalog.

5. Recommended by the student's advisor and approved by the department chairman.
6. Standing of at least 2.25 grade-point average based on hours attempted on the official Eastern transcript in the student's major/minor and overall program.
7. A grade of not less than C in EDF 317.

Graduation Requirements

Students completing programs in the College of Education are eligible for the Bachelor of Science degree, except library science majors who are eligible to receive the Bachelor of Arts degree upon satisfactory completion of program requirements. General graduation requirements from the College of Education are as follows:

1. Submission of an application for graduation in the office of the Dean of the College of Education. December graduates must make application during the preceding month of April; May and August graduates must make application during the preceding October.
2. Completion of a minimum of 128 semester hours, 43 of which must be in upper division courses (300, 400 and 500 levels). A candidate for a degree must have been in residence a minimum of 36 weeks and must have earned a minimum of 32 hours while in residence. Thirty of the last 36 hours must be earned at Eastern Kentucky University.
3. Completion of all coursework on the student's planned curriculum.
4. Attainment of a minimum cumulative grade point average of 2.0 or higher. (Students in teaching curricula are reminded that a 2.25 in overall coursework, in academic major/minors, successful completion of EDF 102, and a grade of C or above in EDF 202/300 and 317 is required for admission to student teaching.)

Secondary education majors (other than those in library science, physical education, school health, special education, and speech pathology and audiology) will follow the prescribed curriculum and requirements of another academic college, as well as the policies for

Teacher Education stated elsewhere in this catalog. These students take certain professional education coursework in the College of Education, as well as in their academic college. The College of Education cooperates closely with the other colleges in matters pertaining to the secondary major's admission to Teacher Education, as well as approval for, assignment to, and supervision of student teaching.

Educational Administration (EAD)

Charles L. Ross, Acting Chairman; Marcum, Rush, Stewart.

The Department of Educational Administration offers a graduate program of specialization for those students who plan to become school superintendents, supervisors, elementary principals, secondary principals, and school business administrators. In cooperation with the Graduate School, the department offers the following graduate degrees and/or programs:

Rank I certification (Sixth Year Non-degree Program)

Certification in 15-semester hour programs

Specialist in Education Degree

Educational Administration and Supervision

For additional information regarding these programs, contact the office of the department chairman or consult the *Graduate Catalog*.

Graduate Courses

EAD EDUCATIONAL ADMINISTRATION

- 600 Introduction to Educational Administration. Three hours. I, II.**
Study of theories of administration and practice at the district and community level. Administrative functions and types of school organizations are examined. Research studies which have been completed by state and regional administrative groups make up a large part of the material for the course.
- 601 School Personnel Administration. Three hours. A.**
Principles of personnel administration and their application in obtaining, utilizing, compensating, developing, and separating school personnel.
- 602 School Buildings and Grounds. Three hours. A.**
Emphasis on the cooperative planning of school buildings which fit the school program as identified by educational specifications. Equipping, furnishing, and maintaining buildings are studied.
- 603 School Finance. Three hours. A.**
Problems, issues, trends, and the structure of financing schools. Systems analysis, program budgeting, and accountability are analyzed at state/local levels.

EAD EDUCATIONAL ADMINISTRATION

- 605 School Law. Three hours. A.**
Legal principles and interpretations of constitutional and statutory laws. Judicial decisions, school codes pertaining to administration and supervision of public and private schools.
- 606 The Elementary School Principal. Three hours. I.**
Prerequisite: EAD 600
Organization and management of the elementary school. Study of the various duties, demands, and responsibilities of the elementary school principal in providing professional and educational leadership.
- 607 Educational Administration and Supervision: (subtitle). One to three hours. A.**
Prerequisite: Approval of advisor and Chairman of Department.
Independent work, workshops, special topics, or seminars. May be repeated under different subtitles.
- 609 The Secondary School Principal. Three hours. II.**
Prerequisite: EAD 600
Organization and management of the secondary school. Study of the various duties, demands, and responsibilities of the secondary school principal in providing professional and educational leadership.
- 608 Administration and Supervision of Early Childhood Education Centers. Three hours. A.**
Legal and practical aspects of administration and supervision in early childhood education including funding, staffing, staff development, parental involvement, facilities, record keeping, health, and community relations. Special attention to Kentucky statutes and policies and to Federal guidelines.
- 611 Supervision of Instruction. Three hours. I.**
Organization and functions of school supervision; current practices, problems, objectives, and techniques.
- 621 Practicum in Administration and Supervision. Three hours. A.**
Prerequisite: Professional certificate in administration and supervision.
Field experiences with emphasis on organization and administration of schools in the applicant's specialized area of certification. Campus seminars will be held to analyze problems and experiences of the field activities.
- 640 The Superintendency. Three hours. I.**
Specific competencies in combining administrative theory and practices in city and county schools. Appraisal of programs, purchasing, contracts, bonds and securities, central office services, professional negotiations, role of school boards. Case Studies.
- 691 Issues and Trends in Educational Administration and Supervision. Three hours. A.**
Exploration of basic issues and trends in the field of educational administration and supervision. Development and critical analysis of substantive positions on issues and movements.
- 697 Independent study. One to three hours. A.**
Designed for advanced graduate students who desire to investigate special problems relating to educational administration and/or supervision.

EAD EDUCATIONAL ADMINISTRATION

- 698 Project Development. Three hours. A.**
Prerequisites: Admission to Ed.S. Program and EDF 669 or equivalent.
Study of research and investigation in the area of specialization. Examination of appropriate design models. Development of acceptable project proposal.
- 699 Specialist Project. Three hours. A.**
Prerequisites: EDF 695 and EAD 698.
Guided completion of a scholarly project appropriate to the student and his/her field of specialization.

Educational Foundations (EDF)

William A. McKenney Jr., Chairman; Brewer, Collins, Flesher, R. Grise, Hume, D. Mills, Stull, Woolum.

The Department of Educational Foundations provides instruction in those professional subjects deemed basic to the teacher education student's preparation regardless of his teaching specialty or intended level of school practice. Instruction is offered in a number of related foundational disciplines including human development, educational sociology, educational philosophy, history of education and comparative education.

Graduate instruction in the foundations is provided as a service to all degree programs in Education. Foundation courses contribute to that core of common learnings required of all master's degree programs in Education and in other related fields.

Course Descriptions

EDF EDUCATIONAL FOUNDATIONS

- 102 Professional Laboratory. One hour. I, II.**
Experiences include observation, limited participation, tutoring, and serving as teacher's aides. Students participate in seminars with college staff, classroom teachers and other professional school staff. Required for education majors. Grading is pass-fail.
- 200 The American Educational System. Two hours. I, II.**
Scope, nature and purposes of education in the United States and how schools are organized, financed, and conducted. Deals with basic questions which relate to pertinent educational issues.
- 202 Professional Orientation. Three hours. I, II.**
Prerequisite: Sophomore standing.
Acquaints the students with the role of public education and the nature of the teaching profession. Analyzes own personal fitness for teaching. Application is made for admission to the Teacher Education Program.

EDF EDUCATIONAL FOUNDATIONS

- 300 Orientation to Teacher Education. One hour. I, II.**
Required of transfer students who have an introductory education course prior to coming to Eastern. Analyzes own personal fitness for teaching. Application is made for admission to the Teacher Education Program.
- 317 Human Development and Learning. Three hours. I, II.**
Prerequisite: PSY 211, Biological or Physical Science, admission to Teacher Education Program.
Study of psychological, biological and environmental bases of behavior. Appropriate laboratory experiences are provided.
- 507 Problems in Educational Foundations. One to three hours. A.**
Prerequisite: Approval of advisor and the chairman of the department.
For independent work, special workshops, a special topic, or seminar.
- 526 Applying Research to Classroom Problems. Two hours. I.**
Study and interpretation of recent research for the help it can give in dealing with classroom situations and problems. Class members will be encouraged to focus on situations and problems directly related to their own teaching.

Graduate Courses

- 607 Educational Foundations: (subtitle). One to three hours. A.**
Prerequisite: Approval of advisor and chairman of the department.
Independent work, workshops, special topics, or seminars. May be repeated under different subtitles.
- 615 Human Development. Three hours. I, II.**
Study of the forces which influence personality development and learning, implications for classroom procedures, and the role of the teacher in using these forces to promote learning.
- 632 History of Education in the United States. Three hours. I, II.**
Rise and development of public education in the United States. Sociological, psychological, and scientific movements in education; education reorganization; brief study of the development of public education in Kentucky.
- 636 Philosophy of Education. Three hours. I, II.**
Meaning and scope of philosophy and education; contrasting philosophies and conceptions of education; evaluation and interpretation of present-day issues and problems in education.
- 637 Comparative Education. Three hours. I.**
Study of the development of educational thought and practice in selected nations of Europe, the Orient, and South America. Emphasis will be placed on intellectual, historical and sociological factors.
- 650 Educational Sociology. Three hours. I, II.**
Investigation of the social forces and institutions influencing education. A study of cultural change, social control, social stratification, ethnic patterns, and religion and their effects on the school.
- 669 Research in Education. Three hours. I, II.**
Fundamental principles of educational research, types of research, and the techniques; identifying educational problems; organization and interpretation of data; preparing and evaluating research reports. Required of all candidates for the Master of Arts in Education degree who do not prepare a thesis. Should be taken early in the graduate program.

EDF EDUCATIONAL FOUNDATIONS**695 Advanced Research Methodology. Three hours. I**

Prerequisite: EDF 669 or its equivalent.

Theories and models of research design in the study of behavior and the educative process; statistical analysis of data. Research proposals may be developed. Required of all students in Specialist in Education degree programs.

Educational Psychology and Counseling (EPY & EPC)

Lola Doane, Chairman; Anglin, Beardsley, Doak, L. Sexton, Snowden, Southwood.

The Department of Educational Psychology and Counseling offers graduate programs with specializations for those students who plan to become school counselors, school psychometrists, rehabilitation counselors, counselors in community and industrial settings, or student personnel workers in higher education. A program with emphasis in school social work is offered in cooperation with the Department of Anthropology, Sociology, and Social Work. In cooperation with the Graduate School, the Department offers the following graduate degrees and/or programs.

Master of Arts in Education Degree

Elementary School Counseling

Secondary School Counseling

School Social Work

School Psychometry

Master of Arts Degree

Industrial and Community Services Counseling (option with emphasis in Rehabilitation Counseling)

Student Personnel Services in Higher Education

Certification Programs

Standard Pupil Personnel Certification

Rank I (Sixth Year Non-degree Program)

School Social Work

Specialist in Education Degree

School Counseling

Student Personnel Services in Higher Education

For additional information regarding these programs, contact the office of the department chairman or consult the *Graduate Catalog*.

Course Descriptions

EPY EDUCATIONAL PSYCHOLOGY

- 318 Learning Theories Applied to Teaching. Three hours. A.**
Examination of theories of learning and implications for adaptation in the school setting. Emphasis on the practical aspects of theories of learning through utilization of a variety of techniques and procedures, including video taping, micro teaching, and role playing.
- 320 Educational Psychology. Three hours. II.**
Prerequisite: One course in psychology or approval of instructor.
Theories and processes of learning, maturation, individual differences, personality, and statistical procedures.
- 412 Measurement and Evaluation in the Schools. Three hours.**
Principles and procedures in evaluating pupil growth in skills, attitudes, aptitudes, and understandings. Experience in test construction, analysis, item analysis and marking systems for teachers in elementary and secondary schools and other interested educational personnel.
- 504 Psychology of Individual Differences. Three hours. A.**
Prerequisites: Undergraduate psychology course or approval of instructor.
Study and application of the facts of human variability, including differences in such areas as age, sex, class, intelligence and achievement.
- 507 Problems in Educational Psychology and Guidance. One to three hours. A.**
Prerequisite: Approval of the advisor and chairman of the department. Approval of instructor.
Independent investigation of a research problem, or directed readings, in a selected area of study chosen in consultation with the instructor.
- 555 Vocational Development and Adjustment. Three hours. II.**
Comprehensive coverage of the application of psychological principles to personnel selection, training, placement, and evaluation; motivation, interaction, and morale; and effective human relations in business, industry, and community agencies.

Graduate Courses

- 616 Tests and Measurements. Three hours. I, II.**
Study of the concepts, principles and methods involved in the use of current tests and inventories. Emphases on measurement theory underlying construction, use, and interpretation of data from standardized tests.
- 623 Educational Implications of Learning Theories. Three hours. A.**
Prerequisite: One course in psychology.
Examination of major theories of learning.
- 624 Individual Appraisal of Intelligence. Three hours. A.**
Prerequisite: EPY 616 or statistics course.
Consideration of the fundamental theories of intelligence. Practicum training, by arrangement, in administration and interpretation of the Stanford-Binet and Wechsler Scales.
- 642 Statistical Methods I. Three hours. I.**
Introduction to the techniques appropriate for the treatment of educational and psychological data. Use and interpretation of descriptive statistical methods. Correlational analysis, sampling distributions, tests of significance, problems of estimation and procedures in testing statistical hypotheses.

EPY EDUCATIONAL PSYCHOLOGY

- 643 Statistical Methods II. Three hours. II.**
Prerequisite: Approval of instructor.
Use and interpretation of multi-sample inferential statistics. Analysis of variance, co-variance, factorial designs, multiple regression, and nonparametric techniques.
- 652 Advanced Educational Psychology. Three hours. A.**
Prerequisite: Approval of instructor.
Basic problems of biological and environmental factors are reviewed and the principles of motivation and learning are emphasized.
- 654 Mental Health and Personal Adjustment. Three hours. A.**
Prerequisite: Approval of instructor.
Study of the personal and social factors related to the development of individual mental health and mental illness.
- 656 Practicum in Psychometry. Three hours. A.**
Prerequisite: EPY 616, 642, and 624; consent of instructor.
Advanced laboratory practice in giving tests and interpreting results. Attention given to intelligence tests, measurements of special aptitudes, inventories for self-appraisal, and measures of personality.
- 698 Project Development. Three hours. A.**
Prerequisites: Admission to Ed.S. Program and EDF 669 or equivalent.
Study of research and investigation in the area of specialization. Examination of appropriate design models. Development of acceptable project proposal.
- 699 Specialist Project. Three hours. A.**
Prerequisites: EDF 695, EPY 698 and 642.
Guided completion of a scholarly project appropriate to the student and his/her field of specialization.

EPC COUNSELING

- 602 Counseling Psychology. Three hours. II.**
Prerequisite: One course in psychology.
Examination of counseling methods and concepts with emphasis on current systems of counseling.
- 607 Counseling: (subtitle). One to three hours. A.**
Prerequisite: Approval of advisor and chairman of department.
Independent work, workshops, special topics, or seminars. May be repeated under different subtitles.
- 608 Administration of Pupil Personnel Services. Three hours. A.**
Prerequisite: Approval of instructor.
Administrative problems relating to child accounting. Major areas emphasized will be attendance reports and records, school census, duties and responsibilities of school officials and non-school personnel and agencies, and social and economic factors influencing school attendance.
- 613 Introduction to Counseling. Three hours. I.**
Sociological, psychological, philosophical and educational foundations of pupil personnel services; history and growth of the guidance movement; function, scope, and organization of guidance.
- 614 Organization and Administration of Guidance Services. Three hours. A.**
Prerequisite: EPC 613.
Consideration of the theory, organization, and personnel practices involved in organizing and administering guidance programs.

EPC COUNSELING

- 620 Group Processes. Three hours. I, II.**
Psychology of groups, including social influence, leadership, and inter-and intra-group behavior.
- 622 Occupational and Educational Information. Three hours. I.**
Occupational information in educational and vocational planning; theories of vocational choice; sociology of occupations, and interpretation and utilization of current data pertaining to career fields.
- 625 Elementary School Guidance. Three hours. II.**
Guidance practices for the elementary counselor, teacher, and other personnel, as derived from principles of child development.
- 630 Counseling Practicum in the Secondary Schools. Three hours. A.**
Prerequisite: Minimum of 20 hours including EPC 613, 640, and approval of instructor.
Practicum student will be assigned, under supervision, to counseling experiences with secondary school students in a secondary school setting.
- 632 Counseling Practicum in the Elementary School. Three hours. II.**
Prerequisite: Minimum of 20 hours including EPC 613, 640, and approval of instructor.
Practicum student will be assigned, under supervision, to counseling experiences with elementary school students in an elementary school setting.
- 634 Counseling Practicum in Higher Education. Three hours. II.**
Prerequisite: EPC 640, 644, and approval of instructor.
Practicum student will assist with testing programs, record keeping, and counseling college students; may also be assigned as resident counselor or as student activities counselor.
- 636 Counseling Practicum in Community Settings. Three hours. II.**
Prerequisite: EPC 640.
Practicum student will be assigned, under supervision, to counseling experiences in industry, public agency, social welfare center, or other institutional settings.
- 640 Counseling Theory and Practice. Three hours. I.**
Major theories of counseling. Attention is given to personality structure and individual behavior from which these are derived.
- 644 Student Personnel Services in Higher Education. Three hours. I.**
Study of student personnel services; emphasis upon relationship of these services to the total college program, research and organization.
- 645 Internship in Student Personnel Services. Three hours. II.**
Prerequisite: EPC 644.
Supervised experience for student personnel trainees. Opportunity provided to share responsibilities for all phases of student personnel services.
- 646 Techniques of Counseling. Three hours. A.**
Includes a consideration of different schools of thought in current counseling practice; how the counselor works; and effective procedures for counseling.
- 647 Advanced Counseling Practicum in Elementary Schools. Three hours. A.**
Prerequisite: EPC 632.
Supervised practice in counseling with emphasis upon evaluation of counseling with elementary school students.

EPC COUNSELING

- 649 Advanced Counseling Practicum in Secondary Schools.**
Three hours. A.
 Prerequisite: EPC 630.
 Supervised practice in counseling with emphasis upon evaluation of counseling interviews with secondary school students.
- 651 Advanced Counseling Practicum in Higher Education.**
Three hours. II. A.
 Prerequisite: EPC 634.
 Supervised practice in counseling with emphasis upon evaluation of counseling with college students.
- 691 Issues and Trends in Counseling. Three hours. A.**
 Critical examination of current issues and developing trends in counseling research.

Elementary Education (ELE)

William A. Morris, Chairman; Barker, Byrne, Chisholm, J. Davidson, R. Deane, A. Francis, Gatwood, Hendricks, J. Howard, E. Jeffries, M. Jennings, M. Kolloff, Michalak, R. Miller, Moretz, Peel, Potts, Ramsey, Sams, Simmons, Waldrop.

The Department of Elementary Education has advisory and curricular responsibility for students majoring in elementary education and offers elective courses for other interested students. In cooperation with the Graduate School, the Department offers the following graduate degrees and/or programs.

Master of Arts in Education Degree

Elementary Education

Elementary Education — Reading

Elementary Education — Early Childhood

Rank II Certification (Fifth Year Non-degree Program)

Reading Specialist Certification

Rank I Certification (Sixth Year Non-degree Program)

Specialist in Education Degree

Elementary Education

For additional information regarding these programs, contact the office of the department chairman or consult the *Graduate Catalog*.

Bachelor of Science Degree Curriculum Major in Elementary Education (Teaching)

MAJOR REQUIREMENTS 34 hours
 ELE 356, 360, 361, 362, 475, 550, 560, 498, 499.

SUPPORTING COURSE REQUIREMENTS 32 hours
 EDF 102, 202, 317; PSY 211; EPY 318; PHE 322;
 LIB 301; MAT 201, 202; MUS 360; GEO 101 or 102 or
 345 or 346; HIS 202 or 203.

GENERAL EDUCATION REQUIREMENTS 55 hours
 GSO 100; ENG 101 and 102 or 105; 12 hours Humanities;
 GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours
 additional Social Science; GSP 180, 181, 281, MIL 101,
 102, 201, 202 (or options for men, electives for women).
 Mathematics and Natural Science, 12 hours. Refer to
 pp. 54-58 for detailed University general
 education requirements.

FREE ELECTIVES 6-14 hours

TOTAL CURRICULUM REQUIREMENTS 128 hours

Elementary education majors have available to them dual certification options in kindergarten education and physical education. For curriculum information regarding physical education consult the appropriate section of this catalog. the appropriate section of this catalog.

Kindergarten Education Curriculum

Endorsement for teaching in kindergarten is available to interested persons who are majoring in elementary education. Completion of the following ten hours in addition to the regular program for elementary education is required:

ELE 517, 519, 497 10 hours

Course Descriptions

ELE ELEMENTARY EDUCATION

- 356 Social Studies in the Elementary Schools. Three hours. I, II.**
 Prerequisites: Twelve hours of general education social science.
 Theory, content, and practice of teaching social studies in the elementary school.
- 360 Teaching of Elementary School Mathematics. Three hours. I, II.**
 Prerequisites: EDF 317, MAT 201 and 202, and admission to Teacher Education Program.
 Methods and materials of teaching elementary mathematics; emphasis on discovering and developing fundamental concepts as a foundation for problem-solving; use of modern instructional media in planning and demonstrating lesson plans. Opportunities to observe classes on primary and intermediate levels.
- 361 Art Education in the Elementary School. Four hours. I, II.**
 Inquiry into art materials and processes as an integral part of the total school experience. Implications for fostering creative growth and development within the child.
- 362 Music Education for the Elementary Teacher. Two hours. I, II.**
 Prerequisite: MUS 360.
 Study and appraisal of teaching techniques, music literature, learning activities, curricular plans, and materials essential to the sequential development of musical learning in the elementary school.

ELE ELEMENTARY EDUCATION

- 475 Teaching of Elementary School Science. Three hours. I, II.**
Prerequisite: 12 hours in general education science.
Modern materials and methods for elementary science teaching from kindergarten through grade eight. Five discussion-laboratory hours per week.
- 497 Supervised Student Teaching in Kindergarten. Four to eight hours. I, II.**
Prerequisite: ELE 519.
Observation and teaching under professional supervision.
- 498 Fundamentals of Elementary Education. Three hours. I, II.**
Prerequisite: EDF 202 or 300, EPY 318, ELE 356, 360, 475, 550 and 560. (SEE SUPERVISED STUDENT TEACHING IN CATALOG.)
Taken first six weeks of the same semester with ELE 499. Functional approaches to responsible teaching in the elementary school through study and discussion, directed observation and laboratory experiences involving preparation of teaching materials, and other experiences prior to student teaching.
- 499 Supervised Student Teaching. Five to ten hours. I, II.**
Prerequisite: ELE 498 (SEE ADMISSION TO STUDENT TEACHING IN CATALOG.)
Observation, participation and responsible classroom teaching along with related professional activities.
- 507 Problems in Elementary Education. One to three hours. A.**
Prerequisite: Approval of advisor and Chairman of the Department.
Independent work, special workshops, special topics, or seminar.
- 517 The Child in Early Education. Three hours. I, II.**
Focuses specifically on physical, social, psychological, and intellectual development of the child under six and role of the kindergarten teaching in working with young children.
- 519 Teaching in the Kindergarten. Three hours. I, II.**
Prerequisite: ELE 517.
Focuses upon the kindergarten movement; organization, equipment, curriculum, and procedures used with children of kindergarten age; leaders and literature of kindergarten education. Opportunity provided for observing and participating in kindergarten.
- 521 Practices and Problems in Early Childhood Education. Four hours. A.**
Prerequisite: ELE 517 and 519.
Designed for experienced teachers. In depth study and application of significant practices and problems in early childhood education.
- 522 Creative Experiences in Childhood Education. Three hours. A.**
Designed for prospective and in-service teachers with focus upon the nature of creativity, development of skills used in creative expression; activities which promote creativeness in children and teachers.
- 530 Multi-Cultural Populations and School Curriculum. Three hours. A.**
Exploration of ethnic and family backgrounds, class structure, patterns of living, language characteristic, and teacher-pupil attitudes as they relate to the school experience.
- 531 Teaching the Rural Disadvantaged Child. Three hours. A.**
Characteristics of the rural disadvantaged. Techniques, materials, and organizational patterns designed to benefit the rural disadvantaged student.

ELE ELEMENTARY EDUCATION

- 541 Survey of Elementary Curriculum Programs. Three hours. I, II.**
For students in physical education, art, or music seeking certification for grades 1-12. Explores elementary curriculum and the role of special teachers. Examines problems of individual learners, and functions of the entire school-community. Not open to elementary education majors.
- 550 Reading and Language Arts in the Elementary School I. Three hours. I, II.**
Prerequisite: EDF 317, admission to Teacher Education Program.
Theory, content, and practice of teaching reading and language arts in the elementary school.
- 551 Linguistics in Elementary Education. Three hours. A.**
Prerequisites: ELE 550, or 671 or 673.
Investigation of elements in the science of linguistics and their application to communication skills of elementary children.
- 560 Reading and Language Arts in the Elementary School II. Three hours. I, II.**
Prerequisite: ELE 550.
Theory, content, and practice of teaching reading and other language arts in the elementary school.
- 570 Identification and Correction of Developmental Reading Problems. Three hours. A.**
Procedures and materials appropriate for the identification and correction of moderate reading problems in the regular classroom.

Graduate Courses

- 601 Practicum in Kindergarten Education. Four hours. I, II.**
Prerequisites: ELE 517, ELE 519.
Observation and teaching under professional supervision.
- 602 Practicum in Elementary Education. Four hours. A.**
Supervised teaching experiences in elementary levels of education.
- 605 Survey of Reading-Language Arts Programs for Administrators. Three hours. A.**
Prerequisite: Master's Degree in Education.
A survey of principles and practices appropriate for the administration of reading and language arts programs. Skills, concepts, current knowledge, and appropriate inservice education strategies which are needed for effective program implementation will be included.
- 607 Elementary Education: (subtitle). One to three hours. A.**
Prerequisite: Approval of advisor and chairman of department.
Independent work, workshops, special topics, or seminars. May be repeated under different subtitles.
- 611 Humanistic Teaching — Strategies and Behaviors. Three hours. A.**
Rationale for and practice with techniques for effective teaching using humanistic and behavioral approaches. Emphasis is placed upon meeting the individual professional needs of participants.
- 665 Investigations in Reading. One to three hours. II.**
Prerequisite: Approval of the instructor.
Individual research and study of investigative and theoretical literature dealing with the teaching of reading in the elementary school.

ELE ELEMENTARY EDUCATION

- 666 Investigations in Elementary School Mathematics. One to three hours. II.**
For students who desire to make a critical study of investigative and theoretical literature dealing with teaching of mathematics in the elementary school.
- 667 Investigations in the Teaching of Social Studies. One to three hours. A.**
Prerequisite: Approval of instructor.
For students who desire to make a critical study of investigative and theoretical literature dealing with teaching social studies.
- 668 Techniques and Materials for Remedial Reading. Three hours. I, II.**
Prerequisite: ELE 675 or permission of instructor.
Methods, materials, and techniques appropriate to the correction of reading difficulties.
- 670 Trends in Elementary Science Education. Three hours. I, II.**
Exploration of modern trends, practices, and foundation programs drawn from appropriate disciplines which relate to elementary and junior high science teaching.
- 671 Readiness and Primary Reading Programs. Three hours. A.**
Intensive study of methods and materials appropriate for developing reading readiness and for guiding reading instruction in grades K-3. Emphasis upon the newer approaches and latest research.
- 672 Mathematics in Elementary Education. Three hours. I, II.**
Exploration of trends, concepts, and issues involved in modern elementary mathematics programs. Research findings are examined and multi-sensory materials presented.
- 673 Developmental Reading in the Elementary School. Three hours. I, II.**
Advanced study of methods, materials, and organizational procedures appropriate for teaching developmental reading in the elementary school.
- 674 Improvement of Language Arts Instruction in the Elementary School. Three hours. A.**
Examination of current trends and curriculum problems related to teaching of language arts in the elementary school. Major emphasis on listening, oral and written expression, spelling and handwriting.
- 675 Diagnosis of Reading Problems. Three hours. A.**
Prerequisite: ELE 671 or 673.
Theory and implementation of diagnostic procedures for the appraisal of reading problems. Emphasis on assessing quantity and quality of reading disabilities.
- 676 Investigations in Elementary School Science. One to three hours. A.**
Prerequisite: Approval of the instructor.
Individual research and study of investigative and theoretical literature dealing with the teaching of science in the elementary school.
- 677 Practicum in Remedial Reading. Three hours. A.**
Prerequisite: ELE 668 and ELE 675.
Supervised experiences in diagnosis and correction of reading problems.

ELE ELEMENTARY EDUCATION

- 678 Practicum in Elementary Mathematics Education. Three hours. A.**
Prerequisite: ELE 672.
Practicum experiences in diagnosing children's problems in elementary school mathematics; observation and limited teaching to correct identified problems.
- 679 Integrating Elementary Mathematics and Science Curricula. Three hours. A.**
Strategies and materials for integrating processes and concepts significant to educational and psychological bases of mathematics and science curricula.
- 691 Issues and Trends in Elementary Education. Three hours. A.**
Prerequisite: Permission of the instructor.
Opportunities provided for participation in exploration and analysis of critical issues relating to elementary education.
- 695 Advanced Diagnosis and Remediation of Reading Problems. Three hours. A.**
Prerequisites: ELE 668, 675, 677, or their equivalent.
Content and experience to extend and relate knowledge and skills in diagnosis and remediation of reading problems.
- 697 Independent Study. One to three hours. I, II.**
Primarily for advanced graduate students who desire to investigate special problems relating to elementary education.
- 698 Project Development. Three hours. A.**
Prerequisites: Admission to Ed.S. Program and EDF 669 or equivalent.
Study of research and investigation in the area of specialization. Examination of appropriate design models. Development of acceptable project proposal.
- 699 Specialist Project. Three hours. A.**
Prerequisites: EDF 695 and ELE 698.
Guided completion of a scholarly project appropriate to the student and his/her field of specialization.

Laboratory School

L. Stephen Traw, Director; William R. Thames, Assistant Director; Brown, Carr, Carter, Combs, Connallon, Creech, Daniel, Daugherty, Graham, S. Hayes, G. Hays, Henderson, Higgingbotham, Hoffman, Isaacs, James, Kearns, Kincer, Lane, Lichty, A. Martin, McCord, McKay, Mills, Morrison, Roy, C. Smith, D. Smith, T. Smith, Sowders, Strange, J. Stull, Turner, Vance, J. Walker, R. Warren, Webster, Wickersham.

Model Laboratory School is an integral part of the total teacher education program at Eastern. Three of its major purposes are (1) to provide a quality program of instruction for its own students; (2) to serve as a center for professional laboratory experiences for prospective and in-service teachers, and (3) to provide opportunities for

research and experimental programs. Closed-circuit television connects the Laboratory School with the Bert Combs Building where classes in professional education are taught.

Pupils who attend the Laboratory School come from the city and county in the surrounding community. The number of pupils for each grade is limited.

Model Laboratory School enrolls approximately 750 students with a staff of forty-one full-time faculty members. It is located in the Donovan Building which was first occupied in 1961. The school program incorporates recent developments in education.

Library Science (LIB)

Juanita Phillips, Chairman; Deane, Hatfield

The major purpose of the Library Science program is to prepare school media librarians. Students majoring in Library Science may earn a minor in an approved secondary teaching field. In cooperation with the Graduate School, the Department offers the following graduate degrees and/or programs: Master of Arts in Education Degree with emphasis in Library Science and Rank II Certification (Fifth Year Non-degree Program).

The undergraduate program outlined in this catalog became effective with Freshmen entering during the 1975-76 school year and leads to the provisional certification for school media librarians grades K-12 and the baccalaureate degree. Students enrolled prior to the 1975-76 school year will follow the program outlined in the 1974-76 catalog.

Bachelor of Arts Degree Curricula Major in Library Science

MAJOR REQUIREMENTS	30 hours
LIB 301, 498, 500, 501, 502, 511, 521, 531, 563, 569.	
SUPPORTING COURSE REQUIREMENTS	35 hours
EDF 102, 202, 317; EPY 318; ELE 541, 550; ESE 498, 574; LIB 499; PSY 211.	

GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101 and 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 hours additional Social Sciences; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
ELECTIVES	12 hours
TOTAL CURRICULUM REQUIREMENTS	132 hours

Second Major in Library Science

The requirements for a second major in Library Science are the same as for the first major.

Course Descriptions

LIB LIBRARY SCIENCE

- 301 Children's Literature and Related Materials. Three hours. I, II.**
Prerequisite: GSE 101 and 102.
Survey course designed for teachers and media librarians planning to work with children. Emphasis on media to supplement the school curriculum and to encourage recreational reading for ages 1-10.
- 498 Librarianship in the School Media Center. Three hours. A.**
Prerequisites: EDF 202 or 300, EDF 317, LIB 301, 500, 501, 502, 511, 521, 531, 563, 569.
Taken the first 6 weeks of the same semester with LIB 499. Functional approach to librarianship in the elementary and secondary school media center.
- 499 School Media Practicum. Four hours. I, II.**
(Ten hours for Freshmen enrolling 1975-76 and thereafter.)
Designed to give the trainee practical experience in many phases of school media service including circulation routines, teaching children the use of reference materials, and assisting in the cataloging of new books and materials. Reading guidance, story telling and the organization of unit materials are stressed.
- 500 Organization and Administration of the School Media Center. Three hours. I.**
Prerequisite: Admission to the Teacher Education program.
Philosophy, objectives and administration of the media center in the elementary and secondary schools.
- 501 Literature and Related Materials for Adolescents. Three hours. I, II.**
For teachers and media librarians planning to work with adolescents. Emphasis is placed on media to supplement the school curriculum and to encourage recreational reading for ages 11-14. Book selection, reading interests and needs of adolescents are stressed as well as the various types of materials for use by and with adolescents.

LIB LIBRARY SCIENCE

- 502 Literature and Related Materials for Young Adults. Three hours.**
For teachers and school media librarians planning to work with young adults. Emphasis is placed on media to supplement school curriculum and encourage recreational reading for young adults, ages 14 and up. Stresses reading interests, levels, and needs of young adults, including types of materials suitable for more mature students and problems of selection. (Will not be offered until 1977-78.)
- 511 Non-Book Instructional Materials. Three hours. I.**
Selection, organization, and utilization of non-book instructional materials in school media centers.
- 521 Reference. Three hours. II.**
Provides information for satisfactory use of library resources. Stresses essential reference work including dictionaries, encyclopedias, atlases, yearbooks, periodical indexes, and the more important subject and trade bibliographies.
- 531 Classification and Cataloging. Three hours. I.**
Fundamental principles and methods of classification and cataloging of books and related materials. Attention is centered on the classification and cataloging of books for school media centers.
- 551 Reading Interests and Advanced Book Selection. Three hours. I.**
Role of reading in the educative process; reading habits and interests of groups and individuals; selection of readable materials. Methods of working with children and young adults in the school media center; study in depth of titles suitable for children and young adults.
- 563 Preparation of Instructional Media. Three hours. I, II.**
Selection and preparation of free and inexpensive materials; displays, graphics, models, bulletin-board utilization, mounting and preserving of materials.
- 569 Instructional Media. Three hours. I, II.**
Philosophy and techniques of the effective utilization of instructional media. Emphasis is on slides, tape and disc recordings, films, filmstrips, transparencies, and the operation of equipment for presenting such media.

Graduate Courses

- 601 School Library Practicum. Three hours. I, II.**
Practicum for graduate students offering practical experience in many phases of school library service. Circulation routines, reference materials, cataloging of new books and materials, reading guidance, story telling, and the organization of unit materials are stressed.
- 605 Advanced Children's Literature. Three hours. A.**
Prerequisite: LIB 301 or comparable course.
Advanced course to consider the characteristics of good reading for children; the types and evaluation of the literature; the methods of guidance and use of books and materials for curricular and leisure needs; the correlation of book and non-book materials. For librarians and teachers.
- 607 Library Science: (subtitle). One to three hours. A.**
Prerequisite: Approval of advisor and chairman of department.
Independent work, workshops, special topics, or seminars. May be repeated under different subtitles.
- 609 History of Books. Three hours. A.**
Considers the records of early man, invention of the alphabet, manuscript books, and the making of books from earliest times to the present. Acquaints the student with the techniques and standards for the appraisal of the physical book.

Secondary and Higher Education (ESE, EHE, EAE)

Joe Wise, Chairman; Barr, Cairncross, A. Chase, Craig, G. Creamer, Cunningham, Hurley, McCann, McHone, Owens, Randall, Stoess, Widener.

The Department of Secondary and Higher Education has undergraduate curricular responsibility for professional education courses in most secondary subject areas. The department provides field supervision of secondary student teachers.

The Department provides graduate level offerings in curriculum development, higher and adult education. In cooperation with other academic departments, the Department provides non-degree 5th and 6th year programs and the Master of Arts in Education degree with emphasis in most secondary teaching fields.

Course Descriptions

ESE SECONDARY EDUCATION

- 307 Clinical Experiences for Secondary Teachers. One to three hours. A.**
Prerequisite: Approval of the chairman of the department.
Provides clinical experiences such as observations, participation and tutoring for prospective teachers in locations such as the C.U.C. Learning Lab.
- 366 Methods of Teaching Home Economics. Four hours. II.**
Prerequisite: EDF 202 and PSY 211.
Philosophy of home economics education methods of teaching in-school and out-of-school groups; selection, development and use of instructional materials.
- 378 Music Education: Principles and Practices I. Three hours. I.**
Prerequisite: Junior standing in music.
Designed to acquaint the student with a balanced music education curriculum in the elementary schools. Emphasis placed on understanding and planning a developmental sequence to assure musical growth of children from kindergarten through sixth grade.
- 379 Music Education: Principles and Practices II. Three hours. II.**
Prerequisite: ESE 378.
Designed to acquaint the student with a balanced music education curriculum in the secondary school. Emphasis placed on understanding and planning a developmental sequence to assure musical growth of young people from seventh through the twelfth grade.
- 440 Teaching of Art in the Secondary School. Three hours. I, II.**
Prerequisite: Open only to senior art students who plan to teach.
Relation of adolescent maturation levels and art experiences; planning for, organization and philosophy of art education in the secondary school.

ESE SECONDARY EDUCATION

- 441 Teaching of Biology in the Secondary School. Three hours. II.**
Prerequisite: 24 hours of biology and approval of chairman of the department.
Modern materials and methods in teaching biology in secondary schools; organization, planning, directed observation, execution and evaluation of the classroom and laboratory activities; sources; preparation, and use of biological materials; planning construction, care and use of equipment.
- 442 Teaching of Speech in the Secondary School. Three hours. A.**
Prerequisite: Major or minor in speech.
Principles and practice of speech education and its relation to other areas; special attention to content, materials, activities, textbooks, methods evaluation and problems.
- 443 Teaching of English in the Secondary School. Three hours. I, II.**
Prerequisite: Major or minor in English.
Study of effective methods of introducing composition, grammar, and literature to the secondary school student; special emphasis on programming, lesson planning and evaluating.
- 444 Teaching of French in the Secondary School. Three hours. II.**
Prerequisite: Major or minor in French.
Objectives, content, and methods of teaching French in the secondary schools.
- 445 Teaching of German in the Secondary School. Three hours. II.**
Prerequisite: Major or minor in German.
Objectives, content, and methods of teaching German in secondary schools.
- 446 Teaching of Latin in the Secondary School. Three hours. II.**
Objectives, content, and methods of teaching Latin in secondary schools.
- 447 Teaching of Spanish in the Secondary School. Three hours. II.**
Prerequisite: Major in Spanish.
Objectives, content, and methods of teaching Spanish in secondary schools.
- 449 Teaching of Social Studies in the Secondary School. Three hours. I, II.**
Trends and objectives of social studies; techniques involved in the learning processes; materials, both basic and supplementary, to enrich teaching; various methods of teaching; evaluation of learning processes; understanding of social studies as they develop civic competence and an understanding of social relations.
- 450 Teaching of Mathematics in the Secondary School. Three hours. I, II.**
Prerequisite: Eighteen hours of college mathematics or approval of chairman.
Historical background of the mathematics curriculum; new developments in secondary school mathematics for the modern curriculum; improvement programs for school mathematics; examination of texts and materials; consideration of newer topics, such as sets and bases other than ten.

ESE SECONDARY EDUCATION

- 451 Teaching of Physical Science in the Secondary School. Three hours. II.**
Prerequisite: Major or minor in the physical sciences.
Review of fundamentals of chemistry and physics, with emphasis on applications to secondary school teaching of chemistry, physics, and physical science. Emphasis upon new techniques that are useful in teaching principles of science in the classroom and laboratory.
- 452 Teaching of Industrial Arts in the Secondary School. Three hours. I, II.**
Function and objectives of industrial arts; the industrial arts curriculum; methods of presentation; planning, equipping and organizing the laboratory; instructional materials; evaluation of student achievement.
- 453 The Home Economics Curriculum. Three hours. I, II.**
Prerequisite: Approval of instructor.
Current trends in organization and content of home economics programs for secondary school student, out-of-school youth, and adults; curriculum planning. Organization and administration of the department. Construction and use of evaluation instruments in home economics.
- 454 Materials and Methods of Teaching Shorthand. One hour. I, II.**
Prerequisite: OAD 116.
Method, techniques, and devices for teaching shorthand.
- 455 Materials and Methods in Teaching Bookkeeping, Basic Business, and Typewriting. Three hours. I, II.**
Prerequisite: OAD 253, ACC 109 or its equivalent, and two additional courses in business.
Methods, materials, and techniques used in the teaching of bookkeeping, typewriting, and the basic business subjects.
- 457 Instrumental Methods and Materials. Two hours. I, II.**
Acquaints the student with the role, objectives and methods of instrumental music in the public schools.
- 458 Choral Methods and Materials. Two hours. I, II.**
Acquaints the student with the role, objectives and methods of choral music in the public schools.
- 466 Teaching of Physical Education in the Secondary School. Three hours. I, II.**
Theories of play and study of existing play programs; correlation with other subjects; game skills, lesson planning, observation, and demonstration teaching.
- 487 Teaching of Health Education in the Secondary School. Three hours. II.**
Study of the methods, materials, and curriculum design in secondary health education; attention given to characteristics and health needs of secondary students.
- 488 Special Education in the Secondary School. Three hours. II.**
Pre-vocational and vocational preparation of retardates. Personal and social skills and habits in the world of work. Relationships with rehabilitation and community programs.
- 498 Fundamentals of Secondary Education. Three hours. I, II.**
Prerequisite: EDF 202 or 300, and 317.
Graduate approach to responsible classroom teaching through experiences in study and discussion, organizing materials, directed observation, laboratory work, and other pre-student teaching laboratory experiences.

ESE SECONDARY EDUCATION

- 499 Supervised Student Teaching. Five to ten hours. I, II.**
Prerequisite: ESE 498.
Observation, participation, and responsible classroom teaching including related professional activities.
- 501 The Junior High School. Two hours. A.**
Origin, development, and present status of the junior high school movement; its place in the public school system; aims, purposes, and objectives; evaluation of types of programs; the junior high school plant; library, apparatus, and equipment.
- 507 Problems in Secondary Education. One to three hours. A.**
Prerequisite: Approval of advisor and the chairman of the department.
Independent work, special workshops, special topic, or seminar.
- 550 Special Problems in Business Education. One to four hours. A.**
Formerly BED 550.
Workshops and/or individual research on selected topics or problems in business education. May be repeated for a maximum of four credit hours.
- 560 Cooperative Business Education Programs. Three hours. A.**
Formerly BED 560.
Background, aims, coordination techniques, and administrative policies for organizing and operating cooperative programs in business occupation.
- 563 Occupational Programs in Home Economics. Three hours. A.**
Formerly HEC 563.
Prerequisite: Approval of instructor.
Development of occupational programs in vocational home economics, including philosophy, curriculum, space and equipment needs, teaching methods and materials, program evaluation and federal-state funding.
- 564 History and Philosophy of Industrial Education. Three hours. A.**
Formerly IET 564.
History of industrial education from its early beginnings to the present; the contributions of leaders; movements in the development of industrial and vocational education, modern concepts of industrial education.
- 565 Workshop in Home Economics Education. One to three hours. A.**
Formerly HEC 565.
Prerequisite: Approval of instructor.
Concentrated work on a current aspect in vocational home economics. May be repeated to a maximum of six hours.
- 566 Special Problems in Home Economics Education. One to three hours. I, II, S.**
Formerly HEC 566.
Prerequisite: Approval of instructor.
The student chooses a problem and works under the supervision of the instructor. May be repeated by graduate students to a maximum of six hours.
- 570 Tests and Measurement in Business Education. Three hours. I.**
Formerly BED 570.
Basic qualities of good tests; emphasis placed on construction, analysis, and revision of tests in business education subjects.

ESE SECONDARY EDUCATION

- 574 Teaching Reading in the Secondary School. Three hours. A.**
Prerequisite: EDF 317 and admission to Teacher Education Program. Assists the secondary teacher in teaching reading in the content areas. Includes emphasis on developmental reading, reading skills, (vocabulary development, critical reading, concentration, and study techniques). Appraisal of reading abilities, appropriate materials, evaluation, and organization of secondary reading programs.
- 578 Music in Special Education. Three hours. A.**
Formerly MUS 578
Prerequisite for non-music majors: MUS 360 and ELE 362 or approval of instructor.
Deals with the place of music in the education of the emotionally, mentally, physically and socially handicapped, as well as the gifted. Music perception, self-concept, and behaviour modification will be developed within the perspective of special education. Special teaching techniques and resources will be explored and developed.

Graduate Courses

- 600 Principles of Business Education. Two hours. I.**
Formerly BED 600.
Objectives, principles, curricula, and trends of business education on the secondary level.
- 602 Art Program in the Public School. Three hours. A.**
Formerly ART 602.
Prerequisite: Six hours in art.
Analysis of the history of art education in the public schools coupled with a study related to planning and organization of contemporary art education programs.
- 607 Secondary Education: (subtitle). One to three hours. A.**
Prerequisite: Approval of advisor and chairman of department.
Independent work, workshops, special topics, or seminars. May be repeated under different subtitles.
- 610 Improvement of Instruction in Shorthand and Transcription. Two hours. A.**
Formerly BED 610.
- 611 Humanistic Teaching-Strategies and Behaviors. Three hours. I, II.**
(CL: ELE 611)
Rationale for and practice with techniques for effective teaching using humanistic and behavioral approaches. Emphasis is upon meeting the individual professional needs of participants.
- 612 Curriculum Theory and Development. Three hours. II.**
Critical study of issues and problems in curriculum development, the rationale underlying major positions of these issues, implications for work at various levels of the educational program, and principles and techniques of curriculum change.
- 620 Improvement of Instruction in Typewriting and Office Practice. Three hours. I.**
Formerly BED 620.
- 630 Improvement of Instruction in Basic Business Subjects. Two hours. A.**
Formerly BED 630.
- 640 Improvement of Instruction in Bookkeeping and Accounting. Two hours. II.**
Formerly BED 640.

ESE SECONDARY EDUCATION

- 641** **Methods and Materials for Science Education. Three hours. A.**
Provides opportunity for the teacher of science at the secondary level to work with new curriculum materials, to practice teaching strategies consistent with the materials and to engage in individualized projects related to the professional role.
- 642** **Administration and Supervision in Business Education. Two hours. I.**
Formerly BED 650.
Problems in budgeting, layout, equipment, curriculum planning, and supervision in business education.
- 643** **Trends and Materials in the Teaching of English. Three hours. A.**
Survey of philosophies, objectives, materials, media, methods and curriculum development as related to teaching literature, oral and written language and composition.
- 649** **Trends and Materials in Social Studies. Three hours. A.**
Designed to broaden the horizons of secondary social studies teachers. Attention focused on new curriculum materials, simulation videotaped microteaching. Participants will be actively involved and consultants will assist in areas of particular interest.
- 650** **Trends and Materials in the Teaching of Mathematics. Three hours. A.**
Examination of curricular trends, modern programs, appropriate strategies and innovative materials in secondary mathematics.
- 660** **Curriculum Development in Home Economics. Three hours. A.**
Formerly HEC 660.
Prerequisite: Approval of instructor.
Educational trends and their implications for home economics in the secondary school; principles of curriculum construction as applied to junior and senior high school home economics.
- 661** **Supervision of Home Economics. Three hours. A.**
Formerly HEC 661.
Prerequisite: Approval of instructor.
Principles and techniques of effective supervision of home economics at different educational levels, with emphasis on supervision of student teaching.
- 662** **Philosophy of Home Economics Education. Three hours. A.**
Formerly HEC 662.
Prerequisite: Approval of instructor.
Major ideas, trends, and past developments in home economics education and their influence and implications in the future directions of the field.
- 663** **Secondary School Curriculum. Three hours. II.**
Aims of the public secondary schools; plans for evaluating curriculum procedures; qualities of good teaching; procedures of evaluating and improving classroom teaching; methods of making the school a more effective agency.
- 665** **Seminar in Home Economics Education. One to three hours. A.**
Formerly HEC 665.
Prerequisite: Approval of instructor.
Discussion of current topics and research relevant to home economics. May be repeated to a maximum of six hours.

ESE SECONDARY EDUCATION

- 667 Evaluation in Home Economics Education. Three hours. A.**
Formerly HEC 667
Prerequisite: Approval of instructor.
Theories and techniques of evaluation; construction and interpretation of devices used to measure progress and attainment in home economics.
- 668 Research in Home Economics Education. One to six hours. A.**
Formerly HEC 668.
Prerequisite: Approval of instructor.
Independent research. May be repeated to a total of six hours.
- 670 Seminar in Business Education. Three hours. II.**
Formerly BED 660.
Reading and discussion relating to the major current problems in business education.
- 671 Special Problems in Industrial Arts Education. One to six hours. A.**
Formerly IET 664.
Problems of particular value to the teacher in the field, both of a practical and of a research nature, will be pursued by the student and developed through conferences and activities directed by the staff.
- 672 Curriculum Practices and Trends in Industrial Education. Three hours. I.**
Formerly IET 665.
Current concepts and trends in industrial education; principles underlying curriculum construction and development; long range planning for improvement of program.
- 673 Seminar in Industrial Arts Education. Three hours. A.**
Formerly IET 666.
Current problems and issues in industrial education with emphasis on their historical, social, philosophical, and psychological dimensions. Study of recent research related to industrial education and its implications for the field.
- 674 Supervision & Administration in Music Education. Three hours. A.**
Formerly MUS 674.
Functions, techniques and problems of supervision and administration in music education; development of effective programs in city and county school systems; in-service education and workshop techniques; professional and community relationships.
- 675 Current Trends in Secondary Music. Two hours. A.**
Formerly MUS 675.
Overview of the music curriculum in the junior and senior high school; relationship of the general and specialized aspects of music in secondary schools; characteristics of adolescents and their implications for musical growth.
- 676 Current Trends in Elementary Music. Two hours. A.**
Formerly MUS 676.
Current thought and practices in elementary music; knowledge of the learner and the learning process, structure of music, and methods of developing skills, related to a practical program of experiences designed to promote children's musical growth. Non-music majors must have equivalent of MUS 360 and permission of instructor.
- 677 Practicum in Remedial Reading. Three hours. A.**
Supervised experiences for secondary reading teachers in diagnosis and correction of reading problems.

ESE SECONDARY EDUCATION

- 678 Principles of Music Education. Three hours. I.**
Formerly MUS 678.
Presentation and discussion of basic educational principles and their implications for music education, with reference to all types of school situations.
- 679 Foundations of Music Education. Three hours. II.**
Formerly MUS 679.
Formerly Field Work in Music Education.
Historical, philosophical and psychological foundations of music education and their relationship to curriculum development.
- 680 Problems in Music Education. One to three hours. I, II.**
Formerly MUS 680.
Problems in the various areas of music education. Emphasis on curriculum improvement through exposure to current research and literature in the field. May be repeated for a maximum of three hours.
- 681 Workshop in Music Education. One to four hours. Summer Only.**
Formerly MUS 681.
Philosophy, objectives, literature, materials, and techniques pertinent to a particular area, or areas, of music instruction. Topics to be announced. May be repeated for a maximum of four credit.
- 684 Organization & Administration of Instrumental Music. Two hours. A.**
Formerly MUS 684.
History and roles of instrumental music; methods of program initiation, student recruitment and testing, organization and administrative aspects of various instrumental groups; administrative procedures for property and library materials.
- 690 Field Experiences in Secondary Education. One to three hours. A.**
Field experiences in areas of specific interest to the secondary teacher. Students supervised by College of Education staff in actual school setting.

EHE HIGHER EDUCATION

- 607 Problems in Higher Education. One to three hours. A.**
May be repeated under different subtitles only. May be repeated under different titles for a maximum of six hours.
Prerequisite: Approval of advisor and chairman of the department.
Independent work, special workshops, selected topics, or seminar.
- 680 Organization and Supervision of Student Teaching. Three hours. I.**
Prerequisite: Teaching experience.
For school and college personnel concerned with improving student teaching experiences.
- 690 College Teaching. Three hours. II.**
For students who are teachers or prospective teachers in college. Attention given to knowing students as individuals and class groups, planning courses, practical problems of selecting and guiding learning experiences, using varied instructional media, evaluating student progress.
- 691 The Community Junior College. Three hours. A.**
Designed for the prospective or in-service junior college teachers or administrators. Attention will be given to the philosophy, objectives, organization, and operation of community junior colleges. Stress placed on the unique role of the junior colleges.

ESE SECONDARY EDUCATION

- 695 Perspectives in Higher Education. Three hours. I.**
Origins, evolution, and trends in post-secondary education; the technical school, the junior college movement; the role of public and private colleges and universities in American education. Stress placed upon the sociology of higher education.
- 697 Curriculum in Higher Education. Three hours. II.**
Issues, trends, and principles in curriculum development in higher education; the nature, place, and interrelationship of general education and work in fields of specialization. Opportunity for students to observe and appraise innovative practices, and to project programs.
- 698 Seminar in College Teaching. One hour. I, II.**
Topics in higher education. A research paper is required one semester. May be taken concurrently with EHE 699.
- 699 Practicum in Higher Education. Three hours. I, II.**
Supervised teaching in an acceptable post-secondary school or college.

EAE ADULT EDUCATION

- 507 Problems in Adult Education. One to three hours. A.**
Prerequisite: Approval of advisor and chairman of the department. Independent work, special workshops, special topic, or seminar.
- 512 Organization and Administration of Adult Education. Three hours. A.**
Organizing, financing, staffing, promoting, and evaluating programs of adult education. Teaching-learning resources and the role of the adult education administrator.
- 514 Teaching in Adult Education. Three hours. A.**
Major problems of teaching procedures and materials appropriate to the adult learner.

Special Education and Rehabilitation (SED & RHB)

Wietse de Hoop, Chairman; Bolling, G. Carr, Connelly, Eldot, Greenough, R. Howard, Meckler, M. Roberts, Supplee, M. T. Thompson, L. Waters, R. White, J. W. Wingo, Zentall.

The Department of Special Education and Rehabilitation prepares special education teachers, school speech pathologists and rehabilitation counselors. *New guidelines for State certification of special education teachers have resulted in major program changes. Entering freshmen and transfer students should stay in close contact with their advisors regarding their programs of study.* Programs are offered leading to B.S. degrees in three areas of Special Education (Learning and Behavioral Problems, Trainable Mentally Retarded, Hearing Impaired), in Speech Pathology and Audiology and in Rehabilitation Education.

Programs are also offered which lead to certification at the Rank II and Rank I level, as well as Teacher Consultant and Director of Special Education. Graduate programs are offered leading to the Master of Arts and Specialist in Education degrees in Special Education.

Bachelor of Science Degree Curricula Major in Special Education

The B.S. in Special Education entitles the graduate to a teaching certificate K-12 in the area of specialization, and endorsement for teaching in the elementary classroom grades 1-8.

Learning and Behavior Problems

SPECIAL EDUCATION REQUIREMENTS	33 hours
SED 103, 104, 260, 271, 341, 351, 352, 358, 436, 438, 499 (6 hours); REC 311 or PHE 521; ELE 519.	
ELEMENTARY EDUCATION REQUIREMENTS	33 hours
ELE 361, 362, 356, 360, 475, 550, 560, 498, 499 (6 hours); LIB 301.	
SUPPORTING COURSE REQUIREMENTS	33 hours
EDF 102, 202, 317; EPY 318; MAT 201, 202; MUS 360; BIO 301, 303; SOC 131.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 3 hours additional Social Science; 6 hours Laboratory Science including 3 hours Physical Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
TOTAL CURRICULUM REQUIREMENTS	145 hours

Trainable Mentally Retarded

SPECIAL EDUCATION REQUIREMENTS	33 hours
SED 103, 104, 260, 272, 341, 351, 353, 359, 437, 499 (6 hours).	
ELEMENTARY EDUCATION REQUIREMENTS	33 hours
ELE 361, 362, 356, 360, 475, 550, 560, 498, 499 (6 hours); LIB 301.	
SUPPORTING COURSE REQUIREMENTS	33 hours
EDF 102, 202, 317; EPY 318; MAT 201, 202; MUS 360; BIO 301, 303; SOC 131.	

GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 3 hours additional Social Science; 6 hours Laboratory Science including 3 hours Physical Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
TOTAL CURRICULUM REQUIREMENTS	145 hours

Hearing Impaired

SPECIAL EDUCATION REQUIREMENTS	48 hours
SED 103, 104, 240, 260, 337, 338, 351, 354, 363, 380, 408, 439, 499 (6 hours), 587; ELE 519; PHE 521 or REC 311; LIB 569.	
ELEMENTARY EDUCATION REQUIREMENTS	28 hours
ELE 361, 356, 360, 475, 550, 560, 498, 499 (6 hours).	
SUPPORTING COURSE REQUIREMENTS	33 hours
EDF 102, 202, 317; EPY 318; MAT 201, 202; MUS 360; BIO 301, 303; SOC 131.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 3 hours additional Social Science; 6 hours Laboratory Science including 3 hours Physical Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
TOTAL CURRICULUM REQUIREMENTS	155 hours

Major in Speech Pathology and Audiology (Teaching and Non-Teaching)

MAJOR REQUIREMENTS	36 hours
SED 275, 285, 345, 360, 373, 374, 380, 476, 485, 587; PSY 312, 314; SPE 250.	
SUPPORTING COURSE REQUIREMENTS	38 hours
EDF 102, 202; SED 491, 492, 499, Special Education elective (3 hours); PSY 211; SPE 100; BIO 171, 301; PHY 101 or GSC 171.	

GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 6 hours additional Social Science; 3 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	8 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Rehabilitation Education (Non-Teaching)

MAJOR REQUIREMENTS	36 hours
RHB 300, 310, 410, 500, 501, 503, 509, 510; EPY 555.	
RELATED FIELDS	27 hours
BIO 171, 301; PSY 211, 308; SOC 131, 400; SWK 210; SED 104, 341.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203; 3 hours additional Social Science; 6 hours Mathematics and Natural Science including 3 hours laboratory and 3 hours Physical Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	19 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Rehabilitation Education (Non-Teaching)

The requirements for a minor in Rehabilitation Education (Non-Teaching) are:
RHB 300, 310 or 410, 500, 501, 503 and 509 **18 hours**

Course Descriptions

SED SPECIAL EDUCATION

- 103 Special Education Orientation. One hour. I, II.**
Observation of and participation with exceptional children in special
education settings. Required for all majors in special education.
Grading is pass-fail.

SED SPECIAL EDUCATION

- 104 Special Education Introduction. Three hours. I, II.**
Formerly SED 345.
Prerequisite: SED 103 or approval of instructor.
Brief overview of conditions of exceptionality. Systematic observation of and contact with exceptional children. Systematic observations of special education settings. Three lecture-laboratory hours.
- 240 Communication Skills for the Hearing Impaired (Oral, Total/combined, Manual). Three hours. A.**
Prerequisite: SED 104 or approval of instructor.
The study of the basic principles and theories of manual communication, finger-spelling and the basic patterns of American Sign Language. Designed to give students an expressive vocabulary and receptive skills for communicating with severely hearing impaired individuals who are dependent on this form of communication. Lab experiences.
- 260 Language and Speech Disorders of Exceptional Children. Three hours. I, II.**
Prerequisite: SED 104 or approval of the instructor.
Acquisition of normal language and speech. Identification of educational management of language and speech disorders in exceptional children. Two lecture and two laboratory hours.
- 271 Learning and Behavior Problems. Two hours. I, II.**
Prerequisites: SED 104, 260 or approval of the instructor.
Mild handicapping conditions due to physical, sensory, motor, intellectual and/or emotional problems.
- 272 Severe Mental Retardation. Two hours. A.**
Prerequisites: SED 104, 260 or approval of the instructor.
History, diagnosis and educational management of trainable and severely mentally retarded pupils. Counseling of retardates; parent utilization in educational management.
- 275 Speech Pathology: A Survey. Three hours. I.**
Introduction to the nature and causes of the major disorders of speech.
- 285 Anatomy and Physiology of Speech and Hearing Mechanism. Three hours. II.**
Prerequisite: SED 275, BIO 171, 301 or approval of instructor.
Introduction to the anatomical and physiological bases of respiration, phonation and articulation and hearing.
- 337 Education of the Hearing Impaired. Three hours. A.**
Prerequisites: SED 104 or approval of instructor.
The study of the hearing impaired in terms of intellectual, personality and emotional development. Topics emphasized include social maturity, motor functioning, multiple handicaps and the significant history of educational programs at the national, regional, state and local level.
- 338 Language for the Hearing Impaired. Three hours. A.**
Prerequisites: SED 240, 260.
Principles and techniques used in the development of language with deaf children. Topics emphasized include the study of the construction of the English sentence and principles of grammar with an emphasis upon the Fitzgerald Straight Language and Natural Language Systems.
- 341 Behavior Management of Exceptional Children. Three hours. I, II.**
Prerequisites: SED 104, 260 or approval of instructor.
Techniques of behavioral management of exceptional children in special education settings. Two lecture and two laboratory hours.

SED SPECIAL EDUCATION

- 351 Special Educational Assessment. Two hours. A.**
Prerequisites: SED 271 or 272 or 337.
Principles and application of educational assessment of exceptional children. Educational interpretation of assessment outcomes. To be taken concurrently with one of the following: SED 352, 353, or 354.
- 352 Assessment of Learning and Behavior Disordered Children. One hour. I, II.**
To be taken concurrently with SED 351. Application of special educational assessment of children with learning and behavior disorders.
- 353 Assessment of Trainable Mentally Retarded Children. One hour. A.**
Same as SED 352, but for trainable and severely retarded children.
- 354 Assessment of Hearing Impaired Children. One hour. A.**
Same as SED 352, but for hearing impaired children.
- 358 Prescriptive Teaching for Learning and Behavior Disordered Children. Two hours. I, II.**
Prerequisites: SED 341, 351, 352.
Design, implementation and evaluation of individualized programs based upon the educationally relevant characteristics of children with learning and behavior disorders. Curriculum design, analysis and application of instructional materials. Two lecture-laboratory hours.
- 359 Prescriptive Teaching for Trainable Mentally Retarded Children. Two hours. A.**
Prerequisites: SED 341, 351, 353.
Same as SED 358, for trainable and severely retarded children.
- 360 Speech and Language Development. Three hours. I.**
CL SPE 360.
Normal patterns of speech and language acquisition; application of learning theory and linguistic concepts.
- 363 Rhythm and Music for the Hearing Impaired. One hour. A.**
Prerequisite: MUS 360.
The role of rhythm and music in the education of the hearing impaired.
- 373 Speech Pathology: Articulation. Two hours. I.**
Prerequisite: SED 285 and 360, SPE 250, Admission to Teacher Education.
Principles of diagnosis and treatment of articulation problems. Observation to be arranged.
- 374 Speech Therapy Practicum. One hour. I, II.**
Prerequisite: SED 373.
Limited supervised practicum with individuals manifesting articulation errors. May be repeated for a maximum of 3 hours credit.
- 380 Introduction to Clinical Audiology. Three hours. I.**
Prerequisite: SED 275, physical science, admission to Teacher Education.
Survey of the profession of audiology; study of principal types of hearing loss, pure-tone testing.
- 408 Speech for the Hearing Impaired. Three hours. A.**
Prerequisite: SED 240, 260, 338.
A detailed analysis of the production of consonant sounds. Topics emphasized include phonetic transcription, developing speech readiness, voice quality, articulation, rhythm, phrasing, accent and fluency. Demonstration plus speech lab and classroom teaching experience.

SED SPECIAL EDUCATION

- 436 Academic Subjects for Learning and Behavior Disordered Children. Two hours. I, II.**
Prerequisite: SED 358.
Task Analysis and diagnostic teaching of academic subjects to learning and behavior disordered children, with emphasis on reading and mathematics.
- 437 Subject Matter for Trainable Mentally Retarded Children. Two hours. A.**
Prerequisite: SED 359.
Same as SED 436, for trainable mentally retarded children, with emphasis on crafts, self-help skills, social skills and work habits.
- 438 The Special Education Teacher. Two hours. I, II.**
Roles and functions of the special education teacher in resources teaching, itinerant teaching, self-contained classrooms, residential and other special education settings. Work-study programs, career education and vocational education for the exceptional child, at all levels of education.
- 439 Curriculum and Academic Subjects for the Hearing Impaired. Three hours. A.**
Prerequisites: SED 408, ELE 550.
The adaptation and modification of modern teaching techniques for presentation to hearing impaired students in the areas of mathematics, history, science, reading and pre-vocational skills. Preparation shall include the design, implementation and evaluation of individualized programs based upon the educationally relevant characteristics of exceptional children.
- 465 Speech Science. Three hours. A.**
Prerequisites: SED 285 and 380.
Physical characteristics of speech sounds with emphasis on the production, reception and perception of speech sounds.
- 470 Clinical Practice in Speech and Hearing Therapy. Three to six hours. A.**
Prerequisite: SED 374, approval of departmental advisor.
Supervised clinical experience in therapy of speech and hearing disorders.
- 476 Speech Pathology: Disorders of Speech. Three hours. I.**
Prerequisites: SED 373, SED 374.
Diagnosis and treatment of fluency and voice disorders.
- 485 Audiometry. Three hours. II.**
Prerequisite: SED 380.
Identification and evaluation of hearing loss. Special diagnostic testing, discussed and applied. Two lecture and two laboratory hours.
- 491 Speech Therapy Methods. Three hours. II.**
Prerequisite: Approval of departmental advisor.
Organization, materials and methods of administering speech and hearing programs.
- 492 Advanced Practicum. Three hours. II.**
Prerequisites: Approval of departmental advisor.
Practical casework in speech and hearing therapy.
- 499 Supervised Student Teaching in Special Education. Five or ten hours. II.**
Observation, participation and teaching or clinical work in the special educational situation in the selected area of exceptionality.

SED SPECIAL EDUCATION

- 507 Problems in Special Education. One to three hours. A.**
Prerequisite: Approval of Advisor and Chairman of the Department.
School-related work, special workshops, special seminars.
- *521 Mentally Retarded Children. Three hours. I.**
Prerequisites: SED 345 or approval of instructor.
Mental retardation as an educational, psychological, and social problem.
- *522 Behaviorally Disordered and Socially Deviant Children. Three hours. I.**
Prerequisite: SED 345 or approval of instructor.
Definition and description of behavior disorders in childhood including a study of major theoretical bases for child therapy and development of case study.
- *523 Learning Disabilities in Children. Two hours. II.**
Prerequisites: SED 345, SED 360 or approval of instructor.
Definition, description and assessment of learning disabilities in childhood with an emphasis on current theoretical bases for selecting teaching methods and materials.
- *534 Teaching the Educable Mentally Retarded. Three hours. II.**
Prerequisites: SED 521, and Admission to Teacher Education.
Curriculum, methods and materials for teachers of the mildly retarded with emphasis on individual and small group tutoring. Two lecture and two laboratory hours.
- *535 Teaching the Trainable Mentally Retarded. Three hours. II.**
Prerequisite: SED 521 and Admission to Teacher Education.
Same as SED 534 except for teachers of the severely retarded.
- *536 Teaching Children with Behavior and Learning Disabilities. Three hours. II.**
Prerequisites: SED 522, 523, and Admission to Teacher Education.
Academic remediation and therapy for children with behavior and learning disabilities. Laboratory experiences will consist of individual and small group tutoring. Two lecture and two laboratory hours.
- *541 Behavior Modification of Exceptional Children. Three hours. I.**
Directive and non-directive techniques used in educating exceptional children, with emphasis on operant conditioning. Two lecture and two laboratory hours.
- *560 Speech Problems and the Teacher. Three hours. A.**
CL SPE 560.
Acquaints the classroom teacher with the basic types of speech defects, his role and responsibilities, and sources of referral.
- 565 Seminar: Language Disorders. Three hours. A.**
Prerequisite: SED 360 and 476, and approval of instructor.
Study of language impairment and principles of remediation.
- 570 Directed Study in Speech Pathology. One to three hours. A.**
Directed projects in speech pathology. Proposal for the project must be submitted one semester in advance. Departmental permission is required.
- 575 Education of Exceptional Children. Three hours. A.**
Overview of exceptional children and special educational management for non-special educators. Required of post-baccalaureate students seeking provisional certification in special education in lieu of SED 104.

*These courses will be available only for students who have been previously admitted to a special education program prior to Fall 1976.

SED SPECIAL EDUCATION

- 580 Directed Study in Audiology. One to three hours. A.**
Directed projects in audiology. Proposal for the project must be submitted one semester in advance. Departmental permission is required.
- 587 Aural Rehabilitation. Three hours. I.**
Prerequisite: SED 485.
Theory and procedures of speech reading, auditory training and speech improvement.

Graduate Courses

- 600 Special Educational Evaluation. Three hours. I.**
Prerequisites: Provisional Certification in Special Education, or departmental permission.
Evaluation of social and personal characteristics of exceptional children as a basis for special educational planning and management.
- 601 Practicum in Special Education. Three to six hours. A.**
Practicum for graduate students who seek certification in an area in special education.
- 602 Psychology of Exceptionality. Three hours. I.**
Perception, learning and social-personal adjustment in exceptional children.
- 604 Educational Management of Learning and Behavior Disordered Children. Three hours. II.**
Prerequisite: SED 600, 602 or departmental permission.
Performance analysis, behavior management, intervention techniques, teaching materials, precision teaching.
- 605 Topical Seminar: The Teacher of _____.**
Three hours. I, II.
Prerequisite: SED 604.
The special teacher as a change agent. Working with parents; inter-professional dynamics in the educational setting.
- 606 Educational Management of the Trainable Mentally Retarded. Three hours. A.**
Prerequisite: SED 600, 602 or departmental permission.
Same as SED 604, but for Trainable Mentally Retarded.
- 607 Special Education: (subtitle). One to three hours. A.**
Prerequisite: Approval of advisor and chairman of department.
Independent work, workshops, special topics, or seminars. May be repeated under different subtitles.
- 608 Multiple Handicapped Hearing Impaired Children. Three hours. A.**
Prerequisite: SED 602.
Emotional, perceptual, physical and intellectual problems in hearing impaired children.
- 611 Special Education Curriculum Development. Three hours. A.**
The development, adaptation and evaluation of special education curricula, methods, materials and resources; procedures for implementing and evaluating instructional programs in educational settings.
- 612 Special Education Leadership Development. Three hours. A.**
Leadership roles and responsibilities in special education programs, procedures and techniques to develop interpersonal relationships in school and community activities, public relations; formulation of performance objectives.

SED SPECIAL EDUCATION

- 613 Field Work for Consultants and Directors of Special Education. Three hours. A.**
Experiences in consultation in special education; policies and procedures; record keeping systems and reports; conducting inservice training; utilization of supportive personnel and services.
- 615 Administration of Special Education. Three hours. A.**
History and current status of educational programs for exceptional children. Administrative, financial and legal provisions. Local, state and federal influences.
- 616 Supervision of Special Education Personnel.**
Recruitment, selection, scheduling, monitoring, supervision and evaluating special educational personnel.
- 625 Psycho-Educational Diagnosis of Exceptional Children. Three hours. A.**
Prerequisite: EPY 624.
Identification and psycho-educational diagnosis as the foundation for an educational plan for exceptional children. Students will complete psycho-educational diagnosis in each of the areas of exceptionality.
- 686 Seminar in Special Education and Rehabilitation. Three hours. A.**
Critical study of research literature on education and rehabilitation of exceptional individuals. Restricted to students in Rank I and Ed.S. programs in special education and graduate students in rehabilitation curricula.
- 690 Foundations of Special Education. Three hours. A.**
Study of the defining characteristics of special education and its place in the total of American education and society.
- 698 Project Development. Three hours. A.**
Prerequisites: Admission to Ed.S. Program and EDF 669 or equivalent.
Study of research and investigation in the area of specialization. Examination of appropriate design models. Development of acceptable project proposal.
- 699 Specialist Project. Three hours. A.**
Prerequisites: EDF 695 and SED 698.
Guided completion of a scholarly project appropriate to the student and his/her field of specialization.

RHB REHABILITATION

- 300 Introduction to Rehabilitation. Three hours. II.**
Nature of disability and disadvantages are discussed. History, philosophy and current trends in rehabilitation. Two hours lecture and two hours laboratory.
- 310 Field Experiences in Rehabilitation Education I.**
Prerequisites: BIO 171 or BIO 301; RHB 300 and RHB 509 (or approval of instructor—may be taken concurrently).
Orientation to a medical setting: Hospital, clinic, nursing home, etc.
Orientation to medical personnel: Physicians, nursing staff, physical therapists, recreational staff, etc.
Orientation to the daily routine of a medical facility.
Direct contact with patients in a helping capacity as agreed upon by the University Supervisor, the Medical Facility Supervisor (with approval of patient and student).

RHB REHABILITATION

- 410 Field Experiences in Rehabilitation Education. Three hours. II.**
Prerequisites: PSY 211 and PSY 308; RHB 300; RHB 500
(or approval of instructor—may be taken concurrently).
Orientation to a program for mentally retarded, disturbed or behavior
disordered individuals.
Orientation to the personnel who work with these types of disabilities.
Orientation to the routine of a program that involves these individuals.
Direct contact with the retarded, disturbed, or behaviorally disordered
in a helping capacity as determined by the University Supervisor and
the Program Supervisor (with approval of the student and the client).
- 500 Mental Disabilities and Behavior Disorders: Implications for
Rehabilitation. Three hours. II.**
Formerly RHB 402.
Prerequisites: PSY 308, RHB 300 or approval of instructor.
Survey of various mental disabilities and behavior disorders which
entitle an individual to rehabilitation services. Rehabilitation profes-
sionals' work in mental hospitals, institutions for delinquent and penal
institutions is emphasized. Problems of readjustment in home and
community, and employment possibilities are discussed.
- 501 The Rehabilitation Counselor. Three hours. I.**
Prerequisites: RHB 300, RHB 500, RHB 509.
Opportunities for observing rehabilitation settings and talking with
rehabilitation professionals will be provided. Government agencies
and private programs at the local, state and federal level are studied.
- 503 Public and Private Agencies and Services. Three hours. II.**
Prerequisites: RHB 300, RHB 500, RHB 509.
Study of national, state and community agencies which provide serv-
ices to handicapped individuals.
- 510 Practicum in Rehabilitation Education. Twelve hours. II.**
Formerly RHB 502.
Prerequisite: Completion of Rehabilitation coursework and approval of
the instructor.
Supervised field experiences in rehabilitation. Rehabilitation majors
are placed in a field situation of their choice to work under the direct
supervision of a rehabilitation counselor or professional worker. De-
partmental seminar and individual conferences are held weekly to
support and evaluate the field experiences.

Graduate Courses

- 607 Rehabilitation: (subtitle). One to three hours. A.**
Prerequisite: Approval of advisor and chairman of department.
Independent work, workshops, special topics, or seminars. May be
repeated under different subtitles.
- 617 Evaluating the Handicapped Individual. Three hours. A.**
Prerequisite: EPY 616.
A study of the devices and procedures used by rehabilitation profes-
sionals to assess the ability and potential of handicapped individuals.

School of Health, Physical Education, Recreation, and Athletics

Ned L. Warren, Dean

The School of Health, Physical Education, Recreation and Athletics has undergraduate curricular responsibilities for professional students in health, physical education and recreation as described on the following pages. In addition, the School, in cooperation with the Graduate School and the College of Education, offers the following graduate degrees and/or programs:

Master of Arts in Education Degree

Physical Education

School Health

Allied Health Sciences Education

Master of Science Degree

Physical Education

Recreation and Park Administration

Sports Administration

Rank II Certification (Fifth Year Non-Degree Program)

Physical Education

School Health

Rank I Certification (Sixth Year Non-Degree Program)

Physical Education

Specialist in Education Degree

Physical Education

For additional information regarding these programs, contact the office of the Dean of the School or consult the *Graduate Catalog*.

Intercollegiate Athletics

Donald Combs, Athletic Director

Martha Mullins, Assistant Athletic Director

There are fifteen varsity sports conducted within the School of Health, Physical Education, Recreation, and Athletics and administered by the Athletic Director. Varsity competition is organized within the National Collegiate Athletic Association, Ohio Valley Conference, Association of Intercollegiate Athletics for Women, and independently.

Physical Education (PHE)

Fred E. Darling, Co-Chairman

Ann Uhlir, Co-Chairman

Adams, Barton, Byhre, Calkin, Chrietzberg, Duncan, Gentry, Harkins, Holmes, Jennings, Jinks, Kidd, Kirkpatrick, Lichty, Martin, Maupin, Motley, J. Mulcahy, Mullins, Phillips, Polvino, Shriver, Stanaland, Suttie.

The Department of Physical Education offers programs to prepare students in both teaching and non-teaching positions.

Students preparing for teaching positions should take the Secondary School Physical Education Major which provides certification for teaching physical education in secondary schools and then complete additional requirements and/or recommendations to qualify for other positions.

Students preparing for non-teaching positions related to physical education should take the Secondary School Physical Education Major and then complete the additional requirements as recommended by their advisors to qualify for specific positions.

Bachelor of Science Degree Curricula Single Major in Secondary Physical Education (Teaching and Non-Teaching)

MAJOR REQUIREMENTS	34 hours
PHE 125, 320, 325, 568, 575; PHE 215 and 216 or 3 hours from 220, 221, 222, 223, 224, 225, 226, 227 and 4 hours from 305, 306, 307, 308; 365, or 367 and 368; 300 or 301; 400 or 510; 410, 562 or HEA 202; 7 hours of restrictive electives to be approved by PHE advisor.	
*SUPPORTING COURSE REQUIREMENTS	35 hours
BIO 162 or GSC 101; BIO 171, 301; EDF 102, 202, 317; ESE 466, 498, 499; PSY 211.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 3 hours Physical Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	

*Non-teaching students are not required to complete supporting courses with exception of BIO 162 or GSC 101, BIO 171 and BIO 301, thus increasing free electives.

FREE ELECTIVES	13 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Single Major in Secondary Physical Education (Teaching) with Elementary Physical Education Endorsement

Complete the major and PHE 323, 324, 521 and ELE 541. In addition, students will complete PHE 499 as a portion of their student teaching experience.

Single Major in Secondary Physical Education with Athletic Training Emphasis

Complete the teaching major and BIO 171; PHY 101*; CHE 101*; BIO 301 (may be used to meet general education requirements); NFA 201; HEA 202; PSY 305 or 314; PHE 315 or 562; PHE 410, 515, and 598 (Students desiring certification by National Association of Athletic Training must pass a National Certification Examination). Health teaching majors may complete an Athletic Training Emphasis by completing certain prescribed additional courses.

*Recommended but not required.

Minor in Physical Education (Non-Teaching)

The requirements for a minor in Physical Education (non-teaching) are:

PHE 125, 315, 6 hours of skill courses and 8 hours of
PHE courses as approved by PHE Department Chairman **18 hours**

Minor in Dance (Non-Teaching)

The requirements for a minor in Dance (non-teaching) are:

PHE 300, 301, 302, 345, 350, 550, 552, 554;
MUS 171; DRA 131 or 231 or 280 **18 hours**

Elementary Physical Education Minor for Elementary Education Majors

The requirements for a minor in Elementary Physical Education for Elementary Education Majors are:

PHE 125, 320, 323, 324, 325, 521, 562, and
3 additional hours of PHE skills courses **21 hours**

In addition to the course requirements listed above, the student is reminded that PHE 499 (five week student teaching assignment in elementary physical education) must be completed. Furthermore, as PHE 320 and 325 carry the prerequisites of BIO 171 and BIO 301, these courses should be taken as general education courses if at all possible.

Coaching Endorsement of Any Secondary Teaching Major

The requirements for a Coaching Endorsement of any secondary teaching major are:

PHE 320; 325; 410 or HEA 202; 315 or 523; and
any theory and technique of coaching course.

The student is reminded that because PHE 320 and 325 carry the pre-requisites of BIO 171 and BIO 301, these courses should be taken as general education courses if at all possible.

Corrective Therapy Emphasis of Secondary Physical Education Major (Teaching or Non-Teaching)

Complete the major and PHE 315, 410, 498, 562; REC 311, 511.

Recreation Therapy Emphasis of Secondary Physical Education Major (Teaching or Non-Teaching)

Complete the major and REC 202, 311, 460, 463, and 511.

Course Descriptions

- | | |
|------------|---|
| PHE | PHYSICAL EDUCATION AND RECREATION |
| 125 | Introduction to Physical Education. Two hours. I, II.
Orientation to the profession. Includes philosophy, aims, objectives, scope, interdisciplinary bases, current problems, professional leadership, publication, and career opportunities. |
| 214 | Lifetime Sports Skills. Three hours. I, II.
Basic knowledge and skill development in carry-over sport activities used throughout life. |
| 215 | Skills and Physical Education Activities. Three hours. I, II.
Study and practice of various skills required for participation in a variety of individual and team sports. |
| 216 | Skills in Physical Education Activities. Three hours. I, II.
Continuation of Physical Education 215. |
| 220 | Basketball. One hour. I, II.
Basic skills, strategy, rules, officiating, and teaching techniques related to basketball. (NAGWS Rules) |
| 221 | Field Hockey. One hour. I.
Basic skills, strategy, rules, officiating, and teaching techniques related to field hockey. (NAGWS Rules) |
| 222 | Flag Football. One hour. I.
Basic skills, strategy, rules, officiating, and teaching techniques related to flag football. (NAGWS Rules) |

PHE PHYSICAL EDUCATION AND RECREATION

- 223 International Team Sports. One hour. A.**
Basic skills, strategy, rules, officiating, and teaching techniques relating to team handball, rugby, lacrosse, and net ball. (NAGWS Rules)
- 224 Soccer — Speedball. One hour. II.**
Basic skills, strategy, rules, officiating, and teaching techniques relating to soccer and speedball. (NAGWS Rules)
- 225 Softball. One hour. II.**
Basic skills, strategy, rules, officiating, and teaching techniques relating to softball. (NAGWS Rules)
- 226 Track and Field. One hour. II.**
Basic skills, strategy, rules, officiating, and teaching techniques relating to track and field. (NAGWS Rules)
- 227 Volleyball. One hour. I, II.**
Basic skills, strategy, rules, officiating, and teaching techniques relating to volleyball. (NAGWS Rules)
- 241 Swimming and Diving. One hour. I, II.**
Prerequisite: GSP 180 or 181 Swimming or approval of the instructor. Introduction to and fundamentals of basic swimming strokes, elementary diving and self preservation.
- 261 Coaching Baseball. Two hours. I, II.**
Theory and practice in coaching the fundamentals of baseball; team offense and defense.
- 300 Social, Folk, and Square Dance. Two hours. I, II.**
Presentation of American and international folk dances and American ballroom dances. Understanding of basic terms, interpretation and appreciation of customs, traditions, and origins of other peoples and techniques of leading or directing social dance activities.
- 301 International Folk Dance. Two hours. I, II.**
Presentation of the folk dances of people throughout the world. Understanding of basic terms and steps; styling variations; interpretation and appreciation of customs, traditions, and origins of dances of other cultures; techniques of leading or directing dance activities.
- 302 Beginning Ballet. One hour. I, II.**
A basic course in classical ballet involving barre center work, and simple combinations across the floor.
- 305 Archery — Golf. Two hours.**
Basic skills, strategy, etiquette, rules, and technique relating to archery and golf. (NAGWS Rules)
- 306 Badminton — Net Sports — Tennis. Two hours. I, II.**
Basic skills, strategy, etiquette, rules, and teaching technique relating to badminton, table tennis, paddle tennis, deck tennis, and tennis. (NAGWS Rules)
- 307 Bowling, Fencing, Racquetball. Two hours. A.**
Basic skills, strategy, etiquette, rules, and teaching technique relating to bowling, fencing, and racquetball. (NAGWS Rules)
- 308 Cycling — Exercise Programs. Two hours. A.**
Basic skills, safety, conditioning, and knowledge of cycling; interval training, circuit training, Fartlek, calisthenics, weight training, and other exercise programs for conditioning and development.

PHE PHYSICAL EDUCATION AND RECREATION

- 315 Philosophy and Principles of Physical Development. Two hours. A.**
Discussion, demonstration, and practice of various methods of developing strength and physical health.
- 320 Kinesiology. Two hours. I, II.**
Prerequisite: BIO 171.
Study of human movement through anatomical physiological and bio-mechanical concepts.
- 321 Basic Physical Recreation Activities. Two hours. I, II.**
Basic physical activities and methods of organization appropriate for the recreational setting.
- 322 Physical Education in the Elementary School. Two hours. I, II.**
(Not open to Physical Education majors.)
Movement education in the elementary school curriculum, with focus on the classroom teacher's role in supporting and supplementing the elementary school physical education program.
- 323 Elementary Physical Education Skills and Theory. Three hours. I, II.**
Theory and principles of movement in the areas of dance, gymnastics and sports skills for the elementary school child. Emphasis on skills analysis.
- 324 Teaching of Physical Education in the Elementary School. Three hours. I, II.**
Prerequisite: PHE 323.
Study, appraisal, and practice of teaching techniques, methods, and materials essential to the sequential development of motor skill learning in the elementary school.
- 325 Physiology of Activity. Three hours. I, II.**
Prerequisite: BIO 301.
Effects of physical education activities on the various systems of the human body. Principles and approaches to physical conditioning will be studied. Two lecture and two laboratory hours.
- 326 History and Principles of Physical Education. Three hours. I, II.**
Prerequisites: GSS 246 or HIS 202 and GSS 247 or HIS 203.
Designed to develop understanding of the principles of a good physical education program. Contributions of historical programs to present day programs studied and evaluated.
- 340 Advanced Swimming and Water Leadership. Two hours. II.**
Prerequisite: GSP 180 (Swimming or equivalent). Waived if student can pass skill test.
Emphasizes advanced skills and water safety, proper conduct of competitive swimming meets, pool management, lifeguarding and pool filtration. Red Cross instructors (WSI) rating given to those who qualify.
- 341 Synchronized Swimming. One hour. I, II.**
Prerequisite: PHE 241 or approval of the instructor.
Introduction to and fundamentals of synchronized swimming and aquatic art. Techniques of water show production included.
- 345 Modern Dance Theory and Fundamentals. Two hours. I, II.**
Introductory modern dance technique; rhythmic analysis and musical notation; abstraction of gestures; movement qualities; and elements of design and space.

PHE PHYSICAL EDUCATION AND RECREATION

- 350 Dance Production and Workshop I and II. One-half hour. I, II.**
Prerequisite: Approval of the instructor.
May be repeated once for credit.
Opportunities for preparation, production and performance of individual and group modern dance competitions, culminating in a concert presentation. Three or more hours of rehearsal per week.
- 360 Coaching Basketball. Two hours. I, II.**
Theory and practice in coaching the fundamentals of basketball; team offense and defense.
- 361 Sports Officiating. Two hours. I, II.**
Theory and practice of officiating sports and games. Emphasis placed on studying and interpreting rules and techniques of officiating. One hour lecture, two hours laboratory.
- 362 Coaching Track and Field. Two hours. II.**
Theory and practice in coaching fundamentals involved in track and field.
- 365 Gymnastics. Two hours. I, II.**
Fundamentals of stunts and tumbling leading to instruction in events for women's competitive gymnastics; free exercise, vaulting, uneven bar, balance beam, and trampoline.
- 367 Basic Tumbling and Vaulting Activities. One hour. I, II.**
Basic movements and exercises upon the trampoline, in floor exercises, and vaulting. Safety methods, squad procedures, and pupil leadership stressed.
- 368 Basic Apparatus Activities. One hour. I, II.**
Basic movements and exercises on the pommel horse, rings, parallel bars, and horizontal bar. Safety method, squad procedures, and pupil leadership stressed.
- 370 Practicum in Physical Education. One hour. I, II.**
Designed to offer the student an overview of teaching physical education through consultation and application. Students will experience teaching-learning situations by assisting with various curricular programs.
- 383 Basketball Officiating. One hour. II.**
Techniques and skills of officiating, structure of officiating within girls' and women's sports, and relationship between performances, behavior, and the official's duties with emphasis on officiating basketball.
- 384 Volleyball Officiating. One hour. I.**
Techniques and skills of officiating, structure of officiating within girls' and women's sports, and relationship between performances, behavior, and the official's duties with emphasis on officiating volleyball.
- 385 Judging Women's Gymnastics. One hour. I.**
Judging of international gymnastics events for women including balance beam, uneven parallel bars, floor exercise, and vaulting according to the FIG-USGF rules and technique including skills associated with conducting meets and practical experience in judging compulsory and optional routines.
- 400 Organization of School Recreation Activities. Three hours. I, II.**
Problems related to directing recreational activities within a school system. Two hours of laboratory assigned each student.

PHE PHYSICAL EDUCATION AND RECREATION

- 410 Care and Prevention of Athletic Injuries. Two hours. I.**
Problems of athletic injuries as they concern the coach. Discussion, demonstration and practical experiences in the care and prevention of athletic injuries.
- 420 Coaching Football. Two hours. I, II.**
Theory and practice in coaching the fundamentals of football; team offense and defense.
- 467 Skill Acquisition. Three hours. A.**
Practical applications of motor principles for utilization by beginning physical education teachers.
- 498 Supervised Field Training. Five hours. A.**
Supervised field work in a clinical or administrative setting.
- 499 Supervised Student Teaching in Elementary Physical Education. Five hours. I, II.**
Observation, participation and teaching in elementary physical education.
- 510 Non-Class Curricular Physical Education Activities. Two hours. I, II.**
Policies, principles, standards and philosophy of non-class curricular physical education programs. Attention given to leadership styles, organization of special events, design and conduct of tournaments, and, intramural and extramural programs.
- 511 Coaching Field Hockey. Two hours. A.**
Theory and practice of coaching fundamentals of field hockey; includes skill analysis, strategies and systems of play.
- 512 Coaching Volleyball. Two hours. A.**
Examination of fundamental skills and strategies, analysis of basic styles of individual and team performance, and management necessary to coaching for effective performance.
- 515 Advanced Techniques of Athletic Training. Three hours. I, II.**
Study of specialized athletic training techniques including use of electrical therapy devices.
- 521 Physical Activity and Child Development. Three hours. A.**
Prerequisite: EDF 317.
Understanding of motor development and the improvement of human movement through developmental movement activities which are basic to readiness for performance at school.
- 523 Principles and Problems of Coaching. Three hours. I.**
Focus on coaching the girl athlete in contemporary society through an examination of research findings related to scientific factors affecting performance. Attention given to principles, problems and understandings essential to the management of athletic contests.
- 540 Coaching Swimming and Diving. Two hours. I.**
Prerequisite: PHE 340 or equivalent.
Designed to develop a body of knowledge concerning philosophy, rules, strategy, mechanics, and organization involved in developing and administering swimming and diving programs.

- 550 Advanced Dance Production and Workshop I and II.**
One-half hour. I, II.
Prerequisite: Approval of the instructor.
May be repeated once for credit.
Opportunities for directing the preparation, production, and performance of dance compositions culminating in a concert presentation. Three or more hours per week.
- 552 History of Dance. Two hours. A.**
History of dance from primitive man to the present with special emphasis on the development of American modern dance.
- 554 Modern Dance Technique and Choreography. Two hours. I, II.**
Prerequisite: PHE 345, or approval of instructor.
Modern dance technique, improvisation, choreography and production.
- 562 Physical Education for the Exceptional Individual. Two hours. I, II.**
Prerequisite: PHE 320 or 325.
Principles and practices of adapted physical education emphasizing nature, needs, and abilities of exceptional persons. Activities are modified to provide a program for these individuals.
- 568 Administration and Organization of Physical Education.**
Two hours. I, II.
Policies and procedures of administration on the elementary and secondary school level. Emphasis on construction and care of facilities, equipment and supervision of personnel.
- 575 Tests and Measurements in Physical Education. Three hours. I, II.**
Administration and scoring of tests; evaluation and use of results obtained.
- 590 Workshop in Physical Education. One to four hours. A.**
(This course may be repeated but credit will not be awarded for two workshops by the same sub-title.)
Identification and study of significant problems, teaching methods, research findings, evaluation techniques and the use of appropriate demonstrations and participation important to the improvement of teaching.
- 596 Workshop for Elementary Teachers in Physical Education Activities.**
Three hours. A.
Comprehensive review of techniques used in teaching physical education in the elementary grades. Emphasis placed on health evaluation, fitness testing, rhythmical activities, game activities, tumbling and self-testing activities.
- 598 Practicum in Athletic Training. Six hours. A.**
Supervised athletic training experience in a school, university or club setting.

Graduate Courses

- 620 Administration of Physical Education. Three hours. I.**
Procedures, policies, and problems relating to administrative functions of physical education administration. Topical areas include program, facilities and equipment, public relations, personnel, finances and supervision.
- 621 Physiological Bases of Physical Fitness. Three hours. I.**
Effects of chronic exercise on neuro-muscular, respiratory, and metabolic function.

PHE PHYSICAL EDUCATION

- 622 Sociology of Sport. Three hours. II.**
Meaning of sport in contemporary societies and the impact of social order on development of attitudes about promotion of amateur and professional sports.
- 623 Professional Preparation in Health, Physical Education and Recreation. Three hours. II.**
Study of undergraduate curricula designed to prepare health, physical education, and recreation specialists with attention to curriculum development, recruitment, selective admission and retention, certification, placement, and follow-up procedures.
- 624 Contemporary and Comparative Physical Education. Three hours. II.**
International physical education; current practices and trends as influenced by politics, religion, and other social factors.
- 625 The Role of the Supervisor in Physical Education. Three hours. A.**
Philosophy and principles of supervision in physical education; competencies and duties of the supervisor of physical education; techniques and methods of supervision in physical education.
- 630 Analysis of Human Motion. Three hours. II.**
Study of anatomical and physical laws that govern human motion using research findings as bases for accurate and up-to-date analysis of motor skills.
- 633 Motor Development. Three hours. A.**
Examination of physical activity as a factor in growth and development of children and adolescents including biological and behavioral science as the foundation for integrated study of physical growth, motor development, and physical activity.
- 649 Philosophical Bases of Physical Education. Three hours. I.**
Development of philosophical approaches to physical education and interpretation of the bases underlying principles used for decision making in the discipline.
- 650 Curriculum Designs in Physical Education. Three hours. I.**
Problems relating to design of programs in physical education. Curriculum project development by each student.
- 651 Equipment and Facilities in Physical Education. Three hours. I.**
Problems relating to the programming of equipment and facilities. Visits to and evaluation of surrounding facilities.
- 652 Motor Learning and Performance. Three hours. II.**
Focus on topics related to the learning of physical activity skills. Models of skill acquisition are studied as well as factors affecting the learning process.
- 662 Adapted Physical Education. Three hours. II.**
Basic principles of an adapted program for handicapped students. A project will be required of each student.
- 669 Organization and Administration of Athletics. Three hours. A.**
Administrative patterns for high school and college athletics. Topics include programs, personnel, facilities, athletic organization considerations.
- 670 Internship in Sports Administration. One to six hours. A.**
Supervised experience in selected aspects of sports in a sports administration setting.

PHE PHYSICAL EDUCATION

- 675 Seminar in Physical Education. Three hours. II.**
Designed for research and discussion of critical questions in physical education. Issues to be selected will vary according to the concerns of seminar students.
- 680 Interpretation of Data in Physical Education. Three hours. II.**
Statistical interpretation of physical education data. Written reports using statistics required.
- 685 Independent Study. One to three hours. I, II.**
Prerequisite: Approval of advisor.
Designed for graduate students who have demonstrated the ability to conduct individual research relating to physical education. May be repeated for maximum of three hours.
- 691 Issues in Physical Education. Three hours. I.**
Identification of critical issues arising from current problems. Exploration of points of view and possible solutions.
- 695 Advanced Testing and Evaluation in Health and Physical Education. Three hours. I.**
Prerequisite: PHE 575, 680 or approval of the instructor.
Comparative statistics, construction of measurement instruments, and evaluation techniques applied to health and physical education.
- 697 Thesis. Three or six hours. A.**
Designed for students preparing a thesis in partial fulfillment of the requirements for masters degree programs.
May be repeated for a maximum of 6 hours.
- 698 Project Development. Three hours. A.**
Prerequisite: Admission to Ed.S. Program and EDF 669 or equivalent.
Study of research and investigation in the area of specialization. Examination of appropriate design models. Development of acceptable project proposal.
- 699 Specialist Project. Three hours. A.**
Prerequisites: EDF 695 and PHE 698.
Guided completion of a scholarly project appropriate to the student and his/her field of specialization.

Recreation and Park Administration (REC)

James McChesney, Chairman; Baechtold, Nieland, Ogden, Rainey, Smith, Stephan.

Programs offered by the department are designed to develop competencies needed for administration, supervision, and leadership of recreational services. They focus upon planning, organizing and administering recreation programs and park services in a variety of settings.

Students, during their third year of study, who have special interest or strengths in a particular recreation setting, may concentrate more fully in their preparation for employment by electing any one of the optional emphases. The optional emphases are:

Recreation and Park Administration, Recreation Programming, Private and Voluntary Agency Recreation, Therapeutic Recreation, Correctional Recreation, Park Management, and Interpretive Education.

Bachelor of Science Degree Curricula Major in Recreation and Park Administration (Non-Teaching)

MAJOR REQUIREMENTS	34 hours
REC 100, 163, 202, 263, 311, 460, 463, 501, and 9 additional (optional emphases) hours within the recreation major curriculum.	
SUPPORTING COURSE REQUIREMENTS	26 hours
HEA 202; SPE 100; PSY 211 and in consultation with their advisor, students must complete 18 hours of specified interdisciplinary courses (optional emphases) or an approved minor.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men; electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	13 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Recreation and Park Administration

The requirements for a minor in Recreation and Park Administration are:
REC 100, 311, 501 and 9 additional hours

within the Recreation Curriculum **18 hours**

Associate of Arts Degree Curricula

The two-year Associate of Arts Degree curriculums are designed to prepare students as recreation technicians and supervisors in a variety of recreation positions. If at the end of two years a student desires to continue his college education, he may enter the four-year program.

Major in Recreation Supervision

FRESHMAN YEAR	32 hours
GSE 101, 102, or 105; GSO 100; GSP 180, 181; GSS 142 or SOC 131; PHE 214; SPE 100; REC 100, 163, 201, 202; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	32 hours
GSC 101 or GSC 262; HEA 202; PSY 211, IET 322; PHE 241 or 340, 300, 321; REC 263, 311, 410; MIL 201, 202 (or options for men, electives for women); 5 hours free electives.	
TOTAL CURRICULUM REQUIREMENTS	64 hours

Major in Park Maintenance

FRESHMAN YEAR	33 hours
GSE 101, 102 or 105; GSO 100; GSP 180, 181; GSS 142 or SOC 131; AGR 213, 215; IET 141; HEA 202; REC 100, 163, 263; MIL 101, 102 (or options for men; electives for women).	
SOPHOMORE YEAR	31 hours
ACC 108; PSY 211; OHO 362 G & H, OHO 362 B & F; REC 206, 299, 345; MIL 201, 202 (or options for men, electives for women); 6 hours free electives.	
TOTAL CURRICULUM REQUIREMENTS	64 hours

Major in Therapeutic Recreation Leadership

FRESHMAN YEAR	33 hours
GSE 101, 102 or 105; GSO 100; GSP 180, 181; GSS 142 or SOC 131; HEA 202; PHE 214, 321; PSY 211; REC 100, 163, 202; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	31 hours
SPE 100; RHB 300; IET 322; PHE 300; REC 263; 299, 311, 460; MIL 201, 202 (or options for men, electives for women); 5 hours free electives.	
TOTAL CURRICULUM REQUIREMENTS	64 hours

Major in Commercial Recreation Supervision

FRESHMAN YEAR	33 hours
GSE 101, 102 or 105; GSO 100; GSP 180, 181; GSS 142 or SOC 131; HEA 202; ACC 108; PSY 211; PHE 300; REC 100, 163, 202; MIL 101, 102 (or options for men, electives for women).	

SOPHOMORE YEAR	31 hours
SPE 100; ECO 230; MGT 200; PHE 214, 241 or 340, 215 or 310; REC 263, 299, 345, 460; MIL 201, 202 (or options for men, electives for women); 1 hour free electives.	
TOTAL CURRICULUM REQUIREMENTS	64 hours

Course Descriptions

REC RECREATION AND PARK ADMINISTRATION

- 100 Introduction to Recreation. Three hours. I, II.**
Designed as an introduction to the recreation profession. Nature of recreation and the individual, influence of leisure, recreation, philosophy, and employment possibilities.
- 163 Field Training I. One hour. I, II.**
Orientation of the recreation major to the profession through observation and practical experience in a recreation setting.
- 201 Camp Counseling. Three hours. I, II.**
Concentration is on knowledge of the camping movement, leadership, and camp counseling techniques. Practical experiences are required including a weekend overnight.
- 202 Recreation Leadership. Three hours. I, II.**
Techniques of leadership in working with individuals and groups in various settings. Methods of organization, guidance and supervision of program activities and laboratory experience.
- 206 Recreation and Park Maintenance. Three hours. I.**
Recreation and Park Maintenance objectives, policies, and elements. Planning and organizing the maintenance program. Supervising maintenance personnel.
- 225 Education for Leisure and Recreative Living. Three hours. I, II.**
The role of leisure in a quality life, planning for the new leisure, self motivation toward constructive use of uncommitted time, and development of knowledge and attitude toward recreative living.
- 263 Field Training II. One hour. I, II.**
Students are assigned to a recreation agency and required to plan, lead, or direct various activities requiring recreation leadership.
- 299 Professional Field Training. Two or four hours. I, II.**
Students work in a recreation and park agency to observe and conduct activities. Through this on-the-job training students apply and test classroom concepts and develop practical skills.
- 303 Private and Voluntary Agency Recreation. Three hours. II.**
Comprehensive study of recreation services and objectives. Visits to observe programs in action. Agency representatives lecture.
- 311 Recreation for Special Populations. Three hours. I, II.**
Leisure problems for aging citizens, handicapped individuals, hard-to-reach and delinquent youth, incarcerated individuals, and armed forces personnel. Modification of program activities and settings, use of community resources, rehabilitation processes, facility management, and financing.
- 316 Recreation Methods and Materials in Environmental Education. Three hours. I, II.**
Primary emphases on learning experiences in the out-of-doors. Urban and rural outdoor environments are surveyed as learning laboratories in a variety of subject-matter areas. Objects for outdoor experiences are developed and field trips are planned.

REC RECREATION AND PARK ADMINISTRATION

- 345 Special Recreation Problems Seminar. Three hours. II.**
Operation problems and solutions encountered by beginning workers and middle management are discussed and solved through individual student research and class discussion.
- 349 Cooperative Study in Recreation and Park Administration. Two or four hours. A.**
Prerequisite: Departmental approval.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment: Two or four hours per semester or summer.
- 410 Community Recreation. Three hours. I, II.**
Systems approach to leisure services; citizen involvement; community planning and development; and agency management through fiscal policies, budgets, and personnel administration. Study of facilities and equipment, leadership techniques, and programs.
- 460 Advanced Leadership and Programming. Three hours. I, II.**
Comprehensive course in recreation program planning, development, and leadership techniques with individuals and groups. Students plan a one-year program.
- 463 Professional Field Experience. Eight hours. I, II.**
Prerequisite: REC 460 or approval of instructor.
Students work in a recreation agency to observe and conduct activities. Through this training the student has the opportunity to test concepts developed in his regular class work and to develop competencies essential to successful professional recreation leadership.
- 501 Recreation and Park Administration. Three hours. I, II.**
Community organization, administrative practices, legal aspects, recruiting, selecting leaders, personnel practice, and public relations.
- 506 Planning, Design and Maintenance of Recreation Facilities. Three hours. II.**
Planning principles and procedures of recreation and park areas. Facilities, design problems, details of structure and equipment, master planning methods, study of standards and trends.
- 509 Independent Study. One-three hours. A.**
Prerequisite: For majors and minors only. Approval of advisor and instructor required.
Independent study of special topics and problems through directed readings and research. May be repeated for maximum of three hours.
- 511 Therapeutic Recreation. Three hours. I, II.**
Prerequisite: Approval of the instructor.
Terminology and programming in a therapeutic setting. Modification of leadership techniques and activities adaptation for the ill and handicapped. Field trips to observe programs.
- 516 Recreation Environmental Education Programs. Three hours. II.**
Prerequisite: REC 316 or approval of instructor.
Philosophy, policies, and procedures of organizing and conducting school centered environmental education programs. Emphasis is placed on program services which are year-round, including resident outdoor schools and day services provided by recreation and environmental agencies for school groups.
- 521 Camp Administration. Three hours. A.**
Prerequisite: REC 201 or approval of instructor.
Camp organization, business management, staffing, and program administration for different types of camps. Selection and development of camp sites.

REC RECREATION AND PARK ADMINISTRATION

- 590 Recreation Workshop. One to three hours. A.**
(May be repeated under different workshop subtitle.)
Identification and study of specialized techniques in recreation leadership, activity skills, operational methods, and services.
- 615 Practicum in Recreation. One to three hours. A.**
Prerequisite: Approval of department chairman.
Supervised practical work experience in a clinical or administrative setting.
- 625 Philosophy and Trends in Recreation and Leisure. Three hours. A.**
Changing environment, significance of leisure in American life, theories and concepts of recreation and leisure, education for the arts of leisure, and recreative use of leisure.
- 640 Administrative Processes and Practices. Three hours. A.**
Principles and concepts of administration. In-depth investigation of budgeting, policy formulation, and legislative provisions.
- 645 Seminar: Problems in Recreation. One to four hours. A.**
Extensive collection and analysis of data concerning issues, trends, or problems that should be solved by the profession.
- 697 Thesis. Six hours. A.**

School of Public Health (HEA)

Herman S. Bush, Chairman; Baugh, Calitri, Cartier, Foels, Good, A. S. Harvey, Harville, Higgins, Hissom, Holihan, Ison, Kinnan, Marmie, Ramsdell, Shannon, M. Thompson.

The purpose of the Department of School and Public Health is to prepare school health educators, community health educators, and environmental health specialists. Students may pursue a major in any of the three curricula and may seek a minor in school health. School health majors must acquire a minor in another teaching field.

Bachelor of Science Degree Curricula School Health Major (Teaching)

- MAJOR REQUIREMENTS 30 hours**
HEA 290, 450, plus 24 hours selected from HEA 202, 315, 345, 365, 375, 380, 455, 498, 500, 575, 590;
SOC 235; NFA 201; PHE 315.
- SUPPORTING COURSE REQUIREMENTS 52 hours**
Minor in a teaching field. BIO 301, 378; EDF 102, 202, 317; ESE 487, 498, 499; PSY 211.

GENERAL EDUCATION REQUIREMENTS	51 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 8 additional hours Mathematics and Natural Science including 3 hours Physical Science and 3 hours laboratory; GSP 180, 181, 281; MIL 101, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	0 hours
TOTAL CURRICULUM REQUIREMENTS	133 hours

Bachelor of Science Degree Curricula School Health Minor (Teaching)

MINOR REQUIREMENTS	21 hours
HEA 290 and 365 plus 15 hours selected from HEA 202, 315, 345, 365, 375, 380, 450, 455, 498, 500, 575, 590 and NFA 201.	

Bachelor of Science Degree Curricula Major in Public Health with an Emphasis in Environmental Health (Non-Teaching)

MAJOR REQUIREMENTS	40 hours
HEA 290, 320, 325, 360, 410, 416, 450, 455, 460, 463, 498 and BIO 221 or 273.	
SUPPORTING COURSE REQUIREMENTS	9 hours
CHE 101 or 111 and CHE 102 or 112.	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101 and 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 3 hours Biological Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	33 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Bachelor of Science Degree Curricula Major in Public Health with Emphasis in Community Health Education (Non-Teaching)

MAJOR REQUIREMENTS	40 hours
HEA 290, 315, 360, 416, 450, 455, 463, and 500; plus, 13 hours selected from HEA 320, 345, 375, 380, 498, 590, SOC 353, COM 510, and PSY 500.	
SUPPORTING COURSE REQUIREMENTS	0 hours

GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202 and GSS 247 or HIS 203, 6 hours additional Social Science; 12 hours Mathematics and Natural Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	33 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Course Descriptions

HEA SCHOOL AND PUBLIC HEALTH

- 202 Safety and First Aid. Two hours. I, II.**
Accident problems in the home, school, at work, and on highways. Instruction in meeting emergencies associated with breathing, bleeding, poisons, burns, and shock.
- 290 Foundations of School and Public Health. Three hours. I, II.**
Historical development of school and public health programs. Discussion of health principles and concepts to assist the student in attaining a sound and realistic philosophy of health education. Broad view of programs as they exist today.
- 315 Community Health Problems. Three hours. I.**
Opportunities of the community to seek solutions to major health problems. Official and voluntary health agencies at the local, state, national and international levels and their roles in health care.
- 320 Principles of Environmental Health. Three hours. I.**
Elements of environmental health, including water and waste treatment, air pollution, food sanitation, vector control, solid waste disposal and general sanitation problems. Familiarization with the field of environmental sanitation practice.
- 325 Industrial Health and Safety. Three hours. II.**
Importance of protecting the working environment. Emphasizes the methods and techniques of maintaining health and safety in industry and agriculture. Includes radiation protection for the worker and the community.
- 345 Habit Forming Substances. Three hours. I.**
Effect of drug use and abuse on the individual and society. Personal and community approaches for establishing intelligent use of drugs.
- 349 Cooperative Study in Public Health. Two to four hours. A.**
Prerequisites: Approval of Department Chairman.
Work under faculty and field supervisors in a cooperative placement related to student's academic studies. Credit varies with hours of employment; two to four hours per semester or summer. Total credit hours allowed: twelve.
- 360 Public Health Education. Three hours. II.**
Planning and organizing the public health program. Use of mass media and group processes, selection of personnel and materials, and evaluating public health services.

HEA SCHOOL AND PUBLIC HEALTH

- 365** **Procedures for Health Instruction. Three hours. I, II.**
Principles and techniques for developing and implementing worthwhile learning experiences in health education for school children. Curriculum design, materials and teaching strategies for K-12 will be included.
- 375** **Family Health Education. Three hours. I.**
Biophysical and psychosocial aspects of family living. Development of a wholesome attitude and sound values system towards sexuality and family living. Emphasis on curriculum content and developing teaching aspects of family health.
- 380** **Mental Health Education. Three hours. II.**
Basic needs for mental and emotional wellness. Emphasis on curriculum content and teaching aspects of mental health, and a more thorough understanding by the teacher of mental health regarding student behavior.
- 410** **Water Supplies and Waste Disposal. Three hours. I.**
Prerequisites: BIO 221 or 273.
Calculation of water requirements and the availability and utilization of surface and ground water supplies. Maintenance of raw water quality, water purification, and water delivery systems. Techniques for collection, treatment, and disposal of liquid and solid wastes.
- 416** **Public Health Administration and Laws. Three hours. II.**
Consideration given to organizational theory, decision making, leadership, principles of personnel and fiscal control, interpretation of state and local health laws, ordinances, and regulations.
- 450** **Interpretation of Health Data. Three hours. I.**
Understanding of graphical, statistical and research techniques used in health. Developing competencies in analyzing and interpreting research results.
- 455** **Epidemiology. Three hours. I, II.**
Factors that affect the occurrence and course of diseases — causative agents, susceptible hosts, favorable environments, and the effective use of statistical and epidemiological methods.
- 460** **Environmental Quality Control. Three hours. I.**
Investigation of environmental quality and its effects on man, animals, and plants. Develops skills needed for investigations and control procedures. Includes sampling, monitoring, and evaluation of the environment. One lecture and four laboratory hours.
- 463** **Field Experiences in Public Health. Six hours. II.**
Offered cooperatively with the Kentucky State Department of Health to seniors and consists of actual field experience and training in local and state public health work.
- 498** **Independent Study. One to three hours. I, II.**
Prerequisites: Approval of department chairman.
Opportunity for individual work on a health problem in a supervised situation. Restricted to students who have demonstrated ability in carrying on individual research.
- 500** **The School Health Program. Three hours. A.**
Organizational patterns necessary for an efficient, well-coordinated health program. Interrelated roles of health services, health instruction and healthful school living. Attention given to the role of the school health coordinator.

HEA SCHOOL AND PUBLIC HEALTH

- 575 Evaluation in School Health Education. Three hours. A.**
Familiarization with standardized and teacher-made instruments designed to evaluate health knowledge, attitudes and practices of students. Tests are constructed, administered and analyzed by class members.
- 590 School and Community Health Workshop. Three hours. A.**
Utilization of lectures, field trips, films, health demonstrations and group interactions to study health concerns of the school and community.

Graduate Courses

- 600 Advanced Health Science. Three hours. A.**
Provides students an opportunity to broaden their knowledge of the latest scientific facts and principles related to selected health concerns including disease, nutrition, fitness, drug use, family living, and emotional health. Emphasis is directed toward providing the students with guidelines and resources which enable them to maintain relevant information throughout their health teaching careers.
- 607 Health: (subtitle). One to three hours. A.**
Prerequisite: Approval of advisor and department chairman.
Independent work, workshops, special topics, or seminars. May be repeated under different subtitles.
- 620 Utilization of Health Resources. Three hours. A.**
Various facets of the problems faced by the consumers of health-related products and the intelligent use of available community health resources. Attention given to quackery and misconceptions as they relate to consumer health services.
- 650 Curriculum Improvement in School Health Education. Three hours. A.**
Current practices in elementary and secondary school health programs, evaluation of health courses of study and textbooks, study of student health interests and needs, and determination of the scope of health instruction at various grade levels.
- 675 Seminar in Contemporary Health Problems. Three hours. A.**
Opportunity for in-depth study of current health problems and issues utilizing guest speakers as the primary source of information.
- 680 Special Projects in Health and Health Education. One to three hours. A.**
Individual research into a specific health program selected by the student with the approval of the instructor.
- 697 Thesis. Six hours. A.**
- 698 Seminar for Allied Health Professions. Three hours. A.**
General survey of allied health professions, role of comprehensive health planning concepts, use of health surveys, and role of the allied health worker in the health care delivery system.
- 699 Practicum in Allied Health Sciences Education. Three hours. A.**
Student will be placed in a working situation providing supervised pedagogical experiences appropriate for the individual's area of specialty.

College of Law Enforcement

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EASTERN KENTUCKY UNIVERSITY

COLLEGE OF LAW ENFORCEMENT

Robert W. Posey, Dean

*Truett A. Ricks, Associate Dean

The College of Law Enforcement has the following purposes: 1) to meet the needs of agencies in the public safety sector of society by preparing student personnel for careers within that sector and to upgrade the several agencies by providing the in-service professional with a sound education foundation and the ability and knowledge to create a more viable professional group, organization, or agency; 2) to prepare student personnel for teaching and administrative careers in law enforcement, traffic safety and fire safety; 3) to provide research in the broad areas of law enforcement, driver and traffic safety, and fire safety; 4) to provide public and consultative service programs pertinent to law enforcement, driver and traffic safety, and fire safety to public and private police agencies, probation and parole agencies, correctional institutions, universities and colleges, youth-service-oriented agencies, and administrators and supervisory personnel in the public safety sector.

The College of Law Enforcement seeks to fulfill its purposes by offering a variety of Associate, Baccalaureate, and Masters Degree programs. On the Associate Degree level, the College offers programs in Business and Industrial Security, Correctional Services, Criminalistics, Fire Prevention and Control, Juvenile Delinquency, and Police Administration. Current Baccalaureate Degree programs include: Correctional Services, Fire Prevention and Control, Forensic Science and Police Administration. Graduate programs currently provide a Masters Degree in Criminal Justice with specialization in Corrections, Criminal Justice Education, Criminology, Juvenile Justice, and Police Administration.

The College of Law Enforcement has in the past furnished and continues to furnish lecturers for the Department of Justice, Bureau of Training. The College of Law Enforcement is furthering its overall purposes through this channel.

Extended campus classes are conducted by the College of Law Enforcement throughout the Commonwealth of Kentucky in a further

*On leave, 1976-77.

effort to carry out the public service purposes of the University and this College.

Major research related to curriculum and instructional materials is assigned to the Criminal Justice Center as well as additional major areas of concentration in Graduate Program development, faculty and student exchange, and manpower and related research projects.

The Coordinating Center for Criminal Justice was established by Eastern Kentucky University with the assistance of a grant from the Law Enforcement Assistance Administration in 1973. The purposes of the Center are to: 1) establish and enrich graduate offerings in criminal justice, 2) develop cooperative doctoral level programs in criminal justice, 3) initiate and conduct manpower research projects, and 4) develop a program of faculty and student exchange with other institutions in the Educational Consortium, which was established as the implementing agency for the LEAA grant. The Director of the Center is the Associate Dean of the College.

The Traffic Safety Institute fulfills these objectives in the broad area of traffic safety by the provision of 1) instruction for students wishing to teach driver education, 2) assistance and consultation to the people of the local, state and regional communities, and 3) research into the diverse elements of traffic safety.

The Department of Fire Prevention and Control offers four-year Bachelor of Science degree, two-year Associate of Arts, Certificate of Competency, and Commonwealth of Kentucky Basic Emergency Medical Technician Certification programs to provide education in the area of Fire and Life Safety.

The Bureau of Training, Kentucky Department of Justice, is an independent agency of state government which utilizes the facilities and services of Eastern Kentucky University and coordinates with the Dean of the College of Law Enforcement.

Admission to the College of Law Enforcement

Students enrolled in baccalaureate programs should apply for admission to the College during the semester in which Central University College requirements are expected to be met. This is usually the last semester of the sophomore year. Students should

apply for a planned curriculum, at the office of the Dean of the College, not later than the first semester of the junior year.

Associate degree programs offered by the College of Law Enforcement are also listed in this section of the *Catalog*. Students pursuing two-year programs in the College of Law Enforcement are enrolled in Central University College for advising and record keeping only. Their other academic affairs are administered by the Dean of the College of Law Enforcement. Students seeking an associate degree should apply for a planned curriculum at the Office of the Dean of the College at the beginning of the second semester of the freshman year.

Degree Requirements

General university requirements, described elsewhere in the *Catalog*, as well as specific course requirements set forth in the description of curricula, must be met by students completing baccalaureate programs administered by the College of Law Enforcement.

See programs under each department for major and minor requirements.

Curriculum options in Law Enforcement (referring to the general field) available to the student include two-year programs leading to the Associate of Arts Degree, four-year Bachelor of Science programs, a graduate program leading to a Master of Science Degree in Criminal Justice, and a joint doctoral program leading to a Doctorate of Education, or a Doctorate of Philosophy Degree. The doctoral degrees are offered through cooperating Doctoral Degree Granting Institutions.

The **options for a major** offered under the Associate Degree program include: Business and Industrial Security; Correctional Services; Criminalistics; Fire Prevention and Control; Juvenile Delinquency; and Police Administration.

Options offered under the Bachelor of Science Degree include Majors in Correctional Services; Fire Prevention and Control; Forensic Science; and Police Administration.

Options at the graduate level, leading to the Master of Science Degree in Criminal Justice include: Corrections, Criminal Justice Education, Criminology, Juvenile Justice, and Police Administration.

The options leading to the doctoral degree depend upon the par-

ticular joint doctoral program in which the student wishes to enroll. The curriculum at Eastern Kentucky University is designed to provide a solid foundation for the coursework taken at any one of these institutions.

Minors for students at the baccalaureate level include: Business and Industrial Security; Correctional Services; Fire Prevention and Control; Police Administration; and Traffic Safety.

Fire Prevention and Control (FPC)

Cozad, F. D., Chairman; Abney, W.

The Fire Prevention and Control Department offers a balanced and broad education to students who plan to enter the fire protection services as a career. It also offers courses of study to aid active fire protection personnel interested in professional growth. Areas of study include life safety and life support; fire prevention, suppression and investigation; and fire service administration.

The Department offers the Bachelor of Science, the Associate of Arts, the Certificate of Competency and the Kentucky Basic Emergency Medical Technician Certification to accomplish its goals.

Bachelor of Science Degree Curricula Fire Prevention and Control

MAJOR REQUIREMENTS	41 hours
FPC 100, 101, 120, 201, 221, 223, 250, 300, 305, 322, 350, 360, 400, 410.	
SUPPORTING COURSE REQUIREMENTS	24 hours
MGT 200; POL 203 or 332; LEN 301, 308, 303, 403, 6 hours Social Science.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102 or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours Social Science; 12 hours Math and Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	9 hours
To be selected by student from University offering.	
TOTAL CURICULUM REQUIREMENTS	129 hours

Minor in Fire Prevention and Control

The courses required to complete a minor in Fire Prevention and Control include: FPC 100, 120, plus 12 hours of FPC electives. Nine hours must be upper division.

Associate of Arts Degree Curricula Fire Prevention and Control

FRESHMAN YEAR	34 hours
General Education Laboratory Physical Science; General Education Social Science; General Education Laboratory Biological Science; GSE 101 or 105; GSE 102; GSO 100; GSP 180, 181; GSS 246 or HIS 202; FPC 100, 101, 120; MIL 101 or option, MIL 102 or option.	
SOPHOMORE YEAR	32 hours
General Education Humanities (6 hours); General Education Social Science Area III B2; GSP 281; GSS 247; FPC 201, 221, 223, 250; MIL 201 or option, MIL 202 or option; 3 hours elective.	
TOTAL CURRICULUM HOURS	66 hours

Certificate of Competency Fire Prevention and Control

The courses required to complete the Certificate of Competency in Fire Prevention and Control include: FPC 100, 101, 120, 201, 221, 223, 250, 300, 322, 350, 360.

TOTAL CURRICULUM HOURS	31 hours
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Basic Emergency Medical Technician Certification

Meets Kentucky Department for Human Resources certification requirements: FPC 301.

TOTAL CURRICULUM HOURS	5 hours
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Course Descriptions

FPC	FIRE PREVENTION AND CONTROL
100	Introduction to Fire Prevention and Control. Three hours. A. Historical and philosophical overview of fire prevention and control. Review of the nature and extent of life and property loss; functions of Federal, State, County, Municipal as well as private prevention and control agencies; review of current legislative developments and possible prevention and control programs; a discussion of contemporary and future problems as well as career opportunities.

FPC FIRE PREVENTION AND CONTROL

- 101 Organization for Fire Prevention. Three hours. A.**
Organization and function of Fire Prevention Programs. Inspection, surveying, mapping procedures, recognizing fire hazards, engineering solutions for fire hazards, enforcement problems, educational programs and public relations as they apply to Fire Prevention.
- 120 Chemistry of Fire and Fire Behavior. Three hours. A.**
Chemical and physical properties of combustibles; fundamentals of fire investigation; determining point of origin; recognition of ignition sources; residues of pyrolysis.
- 201 Building Design and Construction. Three hours. A.**
Exploration of building design and construction. Emphasizing the prevention and control of conflagration; contemporary and future architectural problems; Federal, State, County and Municipal codes as well as the authority and responsibility vested in the several agencies.
- 221 Fire Control I. Two hours. A.**
Prerequisite: FPC 120 or approval of faculty advisor.
Introduction to the concept of fire protection systems and their relationship to control and extinguishment. Study of extinguishing agents and their application. Concentration on fixed and portable carbon dioxide, dry chemical, dry powder, foam and halogenated systems.
- 223 Fire Control Tactics and Strategy. Three hours. A.**
Prerequisite: FPC 101.
Fireground decisions, tactics, and operations. Decision making for organizing and operations of fire control forces such as manpower, apparatus and equipment; guidelines for mutual aid; estimating fire flow and use of available fire flow; initial attack operations and special problems of urban, suburban and rural areas.
- 250 Legal Problems in the Fire Service. Three hours. A.**
A study of legislation and court decisions affecting the fire service professional. Reviewing rights, duties and liabilities.
- 300 Fire Service Supervision. Three hours. A.**
The theory and practice of supervision. The relationship of supervision to leadership; problems of morale and motivation; relationship of selection to employee function; leadership styles and organizational behavior.
- 301 Emergency Medical Treatment I. Five hours. A.**
Formerly LEN 200.
Through lecture, demonstration, skills practice, and study of text materials, the students learn to make effective emergency medical care in a variety of traumatic and medical emergencies. The course content was developed by the Committee on Injuries of the American Medical Association. The course is nationally recognized for certification of Emergency Medical Technicians. **This course may not be used to satisfy major or minor requirements.**
- 305 Hazardous Materials. Four hours. A.**
Study of chemical characteristics and reactions of material to storage, handling and transportation. Problems of electricity, liquid and solid combustibles, oxidizing and corrosive materials as well as radioactive compounds are explored. Two lecture and two laboratory hours.

FPC FIRE PREVENTION AND CONTROL

- 322 Fire Control II. Two hours. A.**
Prerequisites: FPC 120, 201 or approval of faculty advisor.
Study of sprinkler systems, automatic fire detection systems, and municipal fire alarm systems.
- 350 Arson Investigation. Three hours. A.**
Prerequisite: FPC 250.
A study of the art and practice of arson investigation. The detection of arson and associated crimes; collection and preservation of evidence; interviewing techniques; preparing cases for court; the coordination of arson investigation with other public and private agencies.
- 360 Water Supply for Fire Protection. Three hours. A.**
Students should complete a college Algebra course prior to enrolling. Study of water at rest and in motion. Bournoulli's Theorum, Pascal's Theorum, Venturi Action, Hazen-Williams Formula, Water Distribution Systems, Pumps, Velocity, Discharge Friction Loss, Pump Pressures and Nozzle Pressures as they relate to fire protection requirements. Concentration on theory followed by practical application.
- 389 Issues and Problems. Three hours. A.**
Discussions of past and present methods, techniques and devices in the field of fire prevention and control as well as occupational safety. Emphasis on application to future rural, suburban and metropolitan problems.
- 400 Fire Service Management. Three hours. A.**
A study of environmental management. Planning, organizing and evaluation of volunteer, permanent station, multi-station, multi-community and metropolitan departments; selection, motivation of personnel, budgeting, as well as other organizational problems.
- 410 Fire Prevention and Occupational Safety. Three hours. A.**
Implementation of loss prevention techniques and programs. Interpretation and application of fire and safety regulations; inspection and enforcement of building codes, fire and safety related ordinances; fire and safety insurance; relationship of occupational safety to fire prevention; economics of employee and property conservation.
- 450 Explosive, Incendiary, Toxic Materials and Devices. Four hours. A.**
Prerequisites: FPC 350 and approval of instructor.
A study of the relationship and characteristics of explosive and incendiary devices as well as toxic materials. Similar and dissimilar properties of compounds; nature, function, and properties of toxic materials; reactivity and stability of materials and devices; assembly and disassembly techniques; the use for and detection of explosive as well as incendiary devices. Two lecture and two laboratory hours.
- 489 Seminar. One hour. A.**
Prerequisite: Approval of instructor.
Development and presentation of research in contemporary methods, techniques and devices in the field.
- 499 Practicum. Six to twelve hours. A.**
Prerequisite: Approval of department chairman.
Supervised field observation, research and/or experience.
- 500 Labor Relations and Collective Bargaining in the Public Safety Sector. Four hours. A.**
Prerequisite: Approval of instructor.
Trends and practices of public safety employee groups. Legal, historical and contemporary developments in collective bargaining; legality of work stoppages; impasse and dispute settlement; problems and anticipated developments in the public safety sector; recognition as well as contract negotiations and preparation.

Correctional Services (COR)

Reedy, C., Chairman; Horn, Reed, Robuck, R. Snarr, Wingo.

The Department of Correctional Services offers programs designed for students who want to pursue careers as juvenile or adult probation officers, juvenile counselors, correctional caseworkers and related professional areas.

Bachelor of Science Degree Curricula Major in Correctional Services

MAJOR REQUIREMENTS	33 hours
COR 100, 120, 220, 250, 311, 315, 330, 440, and six hours of upper division electives in Correctional Services.	
MINOR REQUIREMENTS	18 hours
(Police Administration, Political Science, Psychology, Social Work, or Sociology are recommended.)	
SUPPORTING COURSE REQUIREMENTS	12 hours
SOC 131, 375; PSY 211, 308.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours Social Science; 12 hours Math and Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	10 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

Minor in Correctional Services

A student may minor in Correctional Services by completing COR 100, 120, 250, and nine hours upper division Correctional Services electives.

Associate of Arts Degree Curricula Correctional Services

FRESHMAN YEAR	32-34 hours
General Education Laboratory Science; GSE 101 and 102 or 105; GSO 100; GSP 180, 181; COR 100, 120; MIL 101, 102 (or options for men, electives for women); General Education Social Science (six hours); SOC 131; Elective.	
SOPHOMORE YEAR	34 hours
COR 220, 250, 311, 330, 315, 310 or 322; MIL 201, 202 (or options for men, electives for women); PSY 211, 308; SOC 375; POL 332 (or 203 for out-of-state students).	
TOTAL CURRICULUM REQUIREMENTS	66-68 hours

Associate of Arts Degree Curricula Correctional Services—Juvenile

FRESHMAN YEAR	31-33 hours
General Education Laboratory Physical Science; General Education Laboratory Biological Science; GSE 101 and 102 or 105; GSO 100; GSP 180, 181; HEA 202*; LEN 101, 203, 205, 314; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	35 hours
LEN 301, 303, 304, 306, 307, 310, 311; General Education Social Science (6 hours); PSY 211; POL 332 (or 203 for out-of-state students); MIL 201, 202 (or options for men, electives for women).	
TOTAL CURRICULUM REQUIREMENTS	66-68 hours

Course Descriptions

COR CORRECTIONAL SERVICES

- 100 Principles and Procedures in the Administration of Justice. Three hours. A.**
 An orientation to the foundations, components, and processes of justice. Study of the impact of social change upon past, present, and future relationships, policies, and procedures of system elements.
- 120 Introduction to Corrections. Three hours. A.**
 Formerly LEN 120.
 An introduction to the processes, procedures and issues in modern corrections. Evolution of the various elements of the juvenile and adult corrections systems.
- 220 Correctional Institutions. Three hours. A.**
 Formerly LEN 309.
 Prerequisite: LEN 120.
 Facilities, treatment and security for detention and incarceration; institutional variations based on the age, sex, and offense of the inmate population; social structure of the inmate population; problems of maintaining an effective balance between security and treatment within the institution.
- 250 Treatment in Corrections I. Three hours. A.**
 Formerly LEN 321.
 Prerequisite: COR 120.
 Introduction to the problems, procedures, and treatment methods unique to adult and juvenile corrections. Techniques of prevention and diversion.
- 310 The Juvenile and Police. Three hours. A.**
 Formerly LEN 310. CL PAP 310.
 The development of delinquent and criminal behavior; initial handling and proper referrals; preventive police techniques; special police problems with juveniles; juvenile laws; agencies concerned.
- 311 Juvenile Procedures. Three hours. A.**
 Formerly LEN 311.
 A course in organization, function, and jurisdiction of juvenile agencies; the processing and detention of juveniles; case disposition; and juvenile statutes and court procedures.

COR CORRECTIONAL SERVICES

- 315 Legal Issues in Corrections. Three hours. I, II.**
An overview of the statutes and court decisions related to corrections. Study of current legal issues and their impact on adult and juvenile procedures.

CORRECTIONAL SERVICES

- 320 Workshop. One to three hours. A.**
Formerly LEN 320.
The workshop is designed primarily for in-service personnel and will focus on current problems, issues and strategies in providing effective services. Students may enroll for a maximum of six semester hours credit in: 320a, Corrections; 320b, Juvenile Delinquency.
- 322 Institutional Security. Three hours. A.**
Formerly LEN 322.
Organization, supervision, and administration of custodial services; responsibilities and techniques in detention centers and correctional institutions; interface with treatment services.
- 330 Probation, Pardons, and Parole. Three hours. A.**
Formerly LEN 221.
Prerequisite: COR 120.
History and philosophy of probation and parole; function and operation of pardon and parole boards; statutory authorization and limitation; modern trends; personnel qualifications.
- 400 Applied Statistics for Criminal Justice Systems. Three hours. A.**
Formerly LEN 400. CL PAD 400.
Introduction to basic statistical concepts and procedures appropriate for the treatment of Criminal Justice data. Elements of the course will include; review of arithmetical and algebraic operations; descriptive statistics and graphs, measures of central tendency, measures of dispersion, probability, distribution concepts, correlation, hypothesis testing.
- 423 Seminar in Corrections. Three hours. A.**
Formerly LEN 423.
Prerequisite: Junior standing and approval of the instructor.
Review of the causes of crime and delinquency; examination of prediction techniques; evaluation of preventive and rehabilitative methods and services.
- 440 Correctional Administration. Three hours. I, II.**
Prerequisite: COR 120.
Concepts of management as applied to adult and juvenile corrections systems. Special emphasis upon organizational structure, planning, decision-making, and directing.
- 450 Treatment in Corrections II. Three hours. I, II.**
Prerequisite: COR 250.
Treatment techniques and processes in adult and juvenile corrections. Emphasis on skill development in interviewing, group processes, and crisis intervention techniques.
- 460 Independent Study (One to six hours). A.**
Prerequisite: Approval of department.
Individual study and/or research on a problem pertaining to Correctional Services.

COR CORRECTIONAL SERVICES**470 Field Experience. Three, six, nine, twelve hours. A.**

Formerly LEN 424.

Prerequisite: Approval of instructor.

Maximum of twelve semester hours credit; field services training designed to broaden the educational experience through appropriate observational and work assignments in governmental and private agencies; correlation of theoretical knowledge with practice in participating agencies. May be repeated for a maximum of 12 hours.

471 Field Experience. Three, six, nine, twelve hours. A.

Formerly LEN 424.

Prerequisite: Approval of instructor.

Maximum of twelve semester hours credit; field services training designed to broaden the educational experience through appropriate observational and work assignments in governmental and private agencies; correlation of theoretical knowledge with practice in participating agencies. May be repeated for a maximum of 12 hours.

Police Administration (PAD)

Bagby, R. E., Chairman; Allman, Barker, Black, Byrd, Carfield, Forester, Fox, B., Fraas, Gaines, Givan, Marshall, Nixon, Semberger, Stubblefield, Tillett, White.

The Police Administration Department offers a wide range of academic courses related to the following major objectives: (1) to prepare students for employment opportunities through a planned, career-ladder system; (2) to assist individual professional preparation, growth, and development; (3) to meet individual in-service educational and occupational needs; (4) to introduce and reinforce selected educational and occupational concepts and objectives in preparation for potential employment opportunities with various public and private, local, state, and federal law enforcement agencies and organizations.

Forensic Science (FOR)

The Department of Police Administration offers two degree programs in Criminalistics/Forensic Science. The Associate of Arts Degree in Criminalistics is designed for students interested in crime scene technology. Students acquiring the A.A. Degree in Criminalistics will have training in crime scene search, evidence preservation, report writing and a basic knowledge of crime laboratory techniques.

The Bachelor of Science Degree in Forensic Science should be pursued by those students interested in immediate employment in

forensic laboratories. This degree requires 30 semester hours of forensic science and 43 semester hours of supporting courses in chemistry, mathematics, and physics. An integral part of the Forensic Science Curriculum is an internship at an affiliated crime laboratory.

Bachelor of Science Degree Curricula Forensic Science

MAJOR REQUIREMENTS	30 hours
FOR 411, 412, 421, 495*, and 9 hours for electives; PAD 303, 314.	
SUPPORTING COURSE REQUIREMENTS	43-44 hours
CHE 111, 112, 325, 361, 362, 365, 570 and 3 hours upper division CHE electives; MAT 111 or 208; PHY 201 and 202 (or 131 and 132).	
GENERAL EDUCATION REQUIREMENTS	46 hours
GSO 100; GSE 101, 102; 12 hours Humanities; GSE 246 or HIS 202; GSE 247 or HIS 203, 6 additional hours Social Science; 3 hours Biological Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women. Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	9-10 hours
TOTAL CURRICULUM REQUIREMENTS	128 hours

*May be taken for a total of 12 hours, but only 6 hours are counted towards the Major Requirements.

Associate of Arts Degree Curricula Law Enforcement—Criminalistics (Crime Scene Technology)

FRESHMAN YEAR	33 hours
GSO 100; GSE 101, 102 or 105; GSP 180, 181; HEA 202*; CHE 111 and 112 or 101 and 102); PAD 101, 305; FOR 301; MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	31-33 hours
PHY 101; PSY 211; POL 332 (or 203 for out-of-state students); PAD 204, 303; FOR 308, 309, 380; MIL 201, 202 (or options for men, electives for women); General Electives 4-7 hours.	
TOTAL CURRICULUM REQUIREMENTS	64-66 hours

*Waived if completed Red Cross First Aid Course.

Course Descriptions

FOR FORENSIC SCIENCE

301 Introduction to Criminalistics. Three hours. A.

Formerly LEN 301.

Introduction to the use of physical evidence in law enforcement; a wide range of topics will be covered including the examination of fingerprints, firearms, questioned documents and field tests for blood and drugs.

Three lecture hours.

308 Criminalistics I. Three hours. A.

Formerly LEN 308.

Prerequisite: CHE 101 or approval of instructor.

Introduction to laboratory examination of the physical properties of fibers, hair, glass and soil; examination of fingerprints, footprints and tool marks; forensic photography; crime scene search, evidence preservation and report writing.

Two lecture and three laboratory hours. A.

309 Criminalistics II. Three hours. A.

Formerly LEN 309.

Prerequisites: CHE 101 or approval of instructor.

Introduction to handwriting and typewriting analysis, document examination and chemical tests for intoxication, powder residue and drugs; simple blood typing; principles of firearm identification.

Two lecture and three laboratory hours.

380 Seminar in Criminalistics. One hour. A.

Formerly LEN 380.

Prerequisite: LEN 308.

Presentation of significant developments in the area of criminalistics. One weekly meeting.

411 Analytical Methods in Forensic Science I. Three hours. A.

Prerequisites: CHE 325, 361 or approval of instructor.

Application of instrumental methods of analysis to the classification of physical evidence. Principles and applications of ultraviolet, visible and infrared spectroscopy, trace element analysis, x-ray analysis, emission spectroscopy, atomic absorption analysis.

One lecture and six laboratory hours.

412 Analytical Methods in Forensic Science II. Three hours. A.

Prerequisites: CHE 325, 361 or approval of instructor.

Continuation of FOR 411. Principles and applications of chromatographic techniques, mass spectrometry, neutron activation analysis and microcrystalline tests. Application of the above instrumentation to separation and identification of materials commonly encountered in a crime laboratory.

One lecture and six laboratory hours.

421 Forensic Analysis of Blood and Other Body Fluids. Three hours. A.

Prerequisite: FOR 411 or approval of instructor.

Introduction to the laboratory examination of blood, blood groups, and body fluids, techniques in handling dried blood. Study of antigens and antibodies.

Two lecture and three laboratory hours.

430 Analytical Toxicology. Three hours. A.

Prerequisites: FOR 411, 412 or approval of instructor.

Study of the biochemical activity of poisons and drugs. Isolation of barbiturates, amphetamines, tranquilizers and other drugs of forensic interest and the characterization and identification of these drugs.

Two lecture and three laboratory hours.

FOR FORENSIC SCIENCE

- 440 Forensic Photography. Two hours. A.**
Prerequisites: PHY 202 (PHY 132) or approval of instructor.
Fundamental aspects of photography and camera optics; film development; black and white and color photography; photomicrography.
One lecture and three laboratory hours.
- 445 Questioned Documents. Three hours. A.**
Prerequisites: FOR 411 or approval of instructor.
General considerations in the handling and analysis of documents. Theory and principles of handwriting, typewriting, duplicating processes and paper manufacture. Analysis of paper, inks, and print procedure.
Two lecture and two laboratory hours.
- 451 Forensic Microscopic Analysis. Three hours. A.**
Introduction to microscopic analysis: identification and characterization of materials, such as glass, hair, fiber, paint, soil, and bullets; microcrystalline tests for drugs and narcotics.
Six laboratory hours.
- 480 Seminar in Forensic Science. Two hours. A.**
Prerequisite: FOR 411.
Presentation of significant developments in the various areas of forensic science.
One lecture hour and weekly seminar meetings.
- 490 Introduction to Research. One to three hours. A.**
Prerequisites: FOR 411, FOR 412 or approval of instructor.
Introduction to laboratory research in one of the areas of forensic science. Library research, documentation styles and research report writing will be included in addition to the laboratory research. May be repeated for a maximum of six credit hours, but only three hours may be counted toward the Major Requirement.
- 495 Internship. Three, six, nine, twelve hours. A.**
Prerequisites: FOR 411, FOR 412 and approval of instructor.
Final year. Independent laboratory work and study at an affiliated crime laboratory. The one-semester internship will cover the following areas: instrumental analysis, toxicology, serology, trace evidence, crime scene service, comparative microscopy in firearms and tool marks. May be repeated for a maximum of 12 hours.
Four to sixteen weeks.

Minor in Police Administration (Formerly Law Enforcement)

A student may minor in Police Administration by completing a minimum of 18 semester hours of the following courses:

PAD 101, 204, 305, 314, and 6 upper division hours of Police Administration courses.

Bachelor of Science Degree Curricula Police Administration (Formerly Law Enforcement — General)

MAJOR REQUIREMENTS **40 hours**

PAD 101, 203, 204; FOR 301; PAD 302, 303, 305,
307, 314, 405, 425; 9 hours LEN electives.

MINOR REQUIREMENTS	18 hours
Requirements Specified by Department.*	
SUPPORTING COURSE REQUIREMENTS	9-13 hours
PSY 211, 308; POL 332 (or 203 for out-of-state students); HEA 202**; OAD 151***.	
GENERAL EDUCATION REQUIREMENTS	55 hours
GSO 100; GSE 101, 102, or 105; 12 hours Humanities; GSS 246 or HIS 202, GSS 247 or HIS 203, 6 additional hours Social Science; 12 hours Math and Science; GSP 180, 181, 281; MIL 101, 102, 201, 202 (or options for men, electives for women). Refer to pp. 54-58 for detailed University general education requirements.	
FREE ELECTIVES	2-6 hours
To be selected by student from University offerings.	
TOTAL CURRICULUM REQUIREMENTS	128 hours

*Minors are recommended in the fields of business, psychology, sociology, or political science. The minor field should be selected in consultation with an advisor in the College of Law Enforcement. The courses comprising the minor field (18 semester hours) will be selected with the approval of the advisor and the department head in the minor field.

**Waived if completed Red Cross First Aid Course.

***Waived if proficient in typing.

Associate of Arts Degree Curricula Police Administration (Formerly Law Enforcement — General)

FRESHMAN YEAR	31-33 hours
General Education Laboratory Physical Science; General Education Laboratory Biological Science; GSE 101 and 102 or 105; GSO 100; GSP 180, 181; HEA 202*; PAD 101, 203, 204, 314, MIL 101, 102 (or options for men, electives for women).	
SOPHOMORE YEAR	29 hours
FOR 301; PAD 302, 303, 305, 307; General Education Social Science (six hours); MIL 201, 202 (or options for men, electives for women); PSY 211; POL 332 (or 203 for out-of-state students).	
ELECTIVES	6 hours
6 hours of upper division College of Law Enforcement courses.	
TOTAL CURRICULUM REQUIREMENTS	66-68 hours

*Waived, if completed Red Cross First Aid Course.

Course Descriptions

PAD POLICE ADMINISTRATION

- 01 Introduction to Law Enforcement. Three hours. A.**
Formerly LEN 101.
An introduction to the philosophical and historical background; agencies and processes; purposes and functions. An evaluation of law enforcement today; current trends; career orientation.
- 02 Police Systems. Three hours. A.**
Formerly LEN 102.
Police systems established in America and abroad; functions and activities, divisions and subdivisions with responsibilities and functions of each. Contrasting of structures, with a view of transitions.
- 03 Police Patrol and Services. Three hours. A.**
Formerly LEN 203.
Organization, administration and supervision of patrol function. Responsibilities, techniques and methods of police and patrol. Various services and public assistance offered by police organizations.
- 04 Criminal Investigation. Three hours. A.**
Formerly LEN 304.
Fundamentals of criminal investigation, crime scene search and recording, collection and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow-up and case preparation.
- 02 Motor Vehicle and Traffic Records. Three hours. A.**
Formerly LEN 302.
A study of the development and need for traffic laws with primary attention focused upon the Uniform Motor Vehicle Code and Model Traffic Ordinances including use and implementation. The maintenance and preparation of an adequate records system relative to traffic safety is examined.
- 03 Court Procedures and Mechanics. Three hours. A.**
Formerly LEN 303.
Case preparation: officer demeanor in court; effective presentation of evidence; trial procedure; use of written notes; officer appearance; and reaction to cross examination.
- 05 Police Administration I. Three hours. A.**
Formerly LEN 205.
An examination of the principles of organization, administration, and functions of police departments. An evaluation of personnel policies, divisions, operations, command policies, and evaluation of the department as a whole.
- 07 Firearms. One hour. A.**
Formerly LEN 307.
Prerequisite: Police Administration major or minor, or Instructor approval.
A course designed to give the student basic knowledge of firearms safety; nomenclature; principles of marksmanship; and the moral, physical, and legal issues inherent in the philosophy of the use of deadly force.
- 10 The Juvenile and Police. Three hours. A.**
CL COR 310.
Formerly LEN 310.
The development of delinquent and criminal behavior; initial handling and proper referrals; preventive police techniques; special police problems with juveniles; juvenile laws; agencies concerned.

PAD POLICE ADMINISTRATION

- 314 Criminal Law. Three hours. A.**
Formerly LEN 314.
The nature of the criminal act; the essential elements; theories of responsibility; exculpatory matters; overview of common law offenders; identification of trends in the law.
- 320 Workshop in Law Enforcement. One to three hours. A.**
Formerly LEN 320.
The workshop is designed primarily for in-service law enforcement personnel and will focus on current problems, issues, and strategies in providing effective Law Enforcement. Students may enroll for a maximum of six semester hours credit in: 320a, Business and Industrial Security; 320b, Police Administration.
- 400 Applied Statistics for Criminal Justice Systems. Three hours. A.**
CL COR 400.
Formerly LEN 400.
Introduction to basic statistical concepts and procedures for the treatment of Criminal Justice data. Elements of the course will include: review of arithmetical and algebraic operations, descriptive statistics and graphs, measures of central tendency, measures of dispersion, probability, distribution concepts, correlation, hypothesis testing.
- 401 Organized Crime. Three hours. A.**
Formerly LEN 401.
History, scope, educational methods of control of Organized Crime in America. Particular emphasis is placed on the local, regional and statewide control of organized crime. The cultural and social implications of the presence of organized crime are examined in depth.
- 403 Laws of Arrest, Search and Seizure. Three hours. A.**
Formerly LEN 403.
A detailed study of the laws of arrest, search and seizure, with emphasis upon the constitutional basis; historical development and recent court decisions.
- 405 Police Administration II. Three hours. A.**
Formerly LEN 305.
Prerequisite: LEN 305.
A detailed study of the organization, administration and function of the police department. The designing of policies; a study of the arrangement within a department of specific operations and commands.
- 406 Seminar in Law Enforcement. Three hours. A.**
Specialized study of contemporary topics and issues in the field of Police Administration, i.e.: police discretion; diversion; role of police in modern society; police response to urban crisis; policy-making responsibilities and policy formulation; civil disobedience, disorder, disturbances, and riots; employee organizations; police education and professionalism; etc. Emphasis will be placed on the analysis of related material, as well as the presentation and discussion of different points of view.
- 410 Police-Community Relations. Three hours. A.**
Theoretical and practical problems and issues in the relationship between police agencies and the total community. Various police-community relations programs are outlined.

PAD POLICE ADMINISTRATION

- 424 Field Experience. Three, six, nine, twelve hours. A.**
Formerly LEN 424.
Prerequisite: Approval of instructor and department chairman.
Maximum of twelve semester hours credit; field services training designed to broaden the educational experience through appropriate observational work assignments in governmental and private agencies; correlation of theoretical knowledge with practice in participating agencies. May be repeated for a maximum of 12 hours.
(Intended for pre-service students.)
- 425 Supervision of Law Enforcement and Security Personnel. Three hours. A.**
Formerly LEN 425.
Prerequisite: PAD 305, 405 and Senior standing.
To furnish the police and security supervisor with an insight into the primary functions and responsibilities of the supervisory positions, to increase the supervisor's confidence; personnel management and discipline.

Business and Industrial Security (SEC)

The primary purpose of the Business and Industrial Security program is to prepare the student for employment relative to security or crime prevention in both private and public business and industry.

To develop understanding and comprehension of the significance and role of security in modern society, special emphasis is given to the concept of professionalism in such diverse topical security areas as transportation, hospital, retail, governmental, residential, etc.

Minor in Business and Industrial Security

A student may minor in Business and Industrial Security by completing a minimum of 18 semester hours of the following courses:

SEC 110, 210, 330, 333; FPC 350 or 410, and 3 hours
of upper division College of Law Enforcement electives.

**Associate of Arts Degree Curricula
Business and Industrial Security**

(Formerly Law Enforcement — Industrial Security)

FRESHMAN YEAR 32 hours

General Education Laboratory Physical Science; General Education Laboratory Biological Science; GSE 101 and 102 or 105; GSO 100; GSP 180, 181, 281; HEA 202*; PAD 101; SEC 110; PSY 211; MIL 101, 102 (or options for men, electives for women).

*Waived if completed First Aid Course.

SOPHOMORE YEAR	34 hours
PAD 204; SEC 210; PAD 314; SEC 330, 333; FPC 350, 410; 34 hours General Education Social Science (six hours); POL 332 (or 203 for out-of-state students); MIL 201, 202 (or options for men, electives for women).	
TOTAL CURRICULUM REQUIREMENTS	66 hours

Course Descriptions

SEC BUSINESS AND INDUSTRIAL SECURITY

- 110 Introduction to Security. Three hours. A.**
The historical, philosophical, and legal basis of security. The role of security, its applications, and the security individual in modern society; the concept of professionalism, a survey of the administrative, personnel, and physical aspects of the security field.
- 210 Principles of Loss Prevention. Three hours. A.**
An overview of the functional operations of various specialized areas of security and crime prevention; theft and risk control, security surveys and loss prevention management in proprietary and governmental institutions. Designed to determine security needs via the security appraisal audit and the crime risk (physical) survey.
- 330 Protection Management. Three hours. A.**
Prerequisite: SEC 110 or approval of instructor.
An overview of the organizational, administrative, and management practices of the security unit. Policy and decision making, administration of personnel and budgeting practices. Attention given to selected programs in business, industry, and government.
- 333 Comparative Security Programs and Current Problems. Three hours. A.**
Prerequisite: SEC 110 or approval of instructor.
Study and security problems and practices in specific areas. Topical subjects would be in bank, campus, computer, hospital and transportation security programs, etc. Emphasis placed on each subject would relate to the specific security problems associated with each.

Traffic Safety Institute (TRS)

Browne, W., Director; Furnish, Leber, McAfee, McBride, Mann, Shipley, Wiseman.

The primary function of the Traffic Safety Institute is to provide instruction, research, and public service in the broad area of traffic safety. Upper division and graduate students who desire to teach driver education in the secondary schools may meet the certification requirements by taking courses offered within the Traffic Safety Institute.

The Traffic Safety Institute offers a non-teaching minor in traffic safety. Eighteen hours, for fulfillment of minor requirements, may be chosen from the courses listed below.

Course Descriptions

TRS

TRAFFIC SAFETY

231

Traffic Safety Enforcement.

A study of administration and supervision of traffic law enforcement in state and local police departments. Students will learn: how to evaluate an existing program according to its effectiveness and its application to the total safety program of the community; how to apply sound enforcement methods and techniques; and how to provide a liaison between the police department and various official agencies and civic groups concerned with traffic safety.

232

Alcohol and Other Drugs — Traffic Crashes & Enforcement.

An extensive investigation into traffic-related areas of alcohol and other drugs, their origin, development, use and misuse, and the many complexities that have developed as a direct or indirect result of their abuse in our society.

332

Traffic Accident Investigation.

A study of the principles and techniques underlying the investigation of traffic accidents. This course is designed to increase the investigator's knowledge and understanding necessary for gathering factual information through investigation as opposed to reporting traffic accidents.

412

Current Developments in Driver and Traffic Control.

Current problems, trends and developments are reviewed, analyzed, and evaluated relative to driver and traffic control.

413

Research in Driver Control and Traffic Enforcement.

A study of the theory of research in practical application. This course is designed to equip the student with the necessary means needed to analyze state and local problems from an administrative perspective. A review and evaluation of solutions to current problems in specific areas related to driver control, law enforcement, or traffic safety.

414

Theory and Application of Implied Consent Laws and Chemical Test Procedures.

A study of history and theories of chemical testing to determine blood alcohol concentrations with particular reference to its application to the enforcement of traffic laws. Emphasis is placed on breath testing with laboratory work to qualify students as "Breath Test Specialist" in the use and maintenance of the breath test instrument (Breathalyzer). The course also includes a detailed study of applicable Kentucky Statutes and case decisions, coupled with training to enable the student to properly present test results as court evidence.

585

Introduction to Driver and Traffic Safety.

Driver and traffic safety education for prospective teachers; analysis of the driving task, arranged laboratory experiences in the supervision of practice driving for beginners.

586

Methods and Educational Media in Driver and Traffic Safety.

Basic principles of the teaching-learning process through the use of behavioral objectives for driver and traffic safety; factors in learning, variables in instructional program, and instructional design. Techniques in planning and developing instructional materials for use in teaching.

587

Behavioral Approaches to Driver and Traffic Safety.

Analyzing and writing objectives in terms of behavioral and environmental variables, designing and evaluating procedures, instructional materials, and programs in driver education.

588

Laboratory Instructional Programs in Driver and Traffic Safety.

The aims, objectives and role of laboratory programs in driver and traffic safety, designing and evaluating laboratory procedures, methods, and instructional materials.



Graduate School

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GRADUATE SCHOOL

C. H. Gibson, Dean

Degrees, Programs, and Requirements

The Graduate School, in cooperation with the College of Applied Arts and Technology, the College of Arts and Sciences, the College of Business, the College of Education, and the College of Law Enforcement, offers the following degree programs:

College of Applied Arts and Technology

- Master of Science Degree
 - Industrial Education
 - Industrial Technology
- Specialist Degree in Technology

College of Arts and Sciences

- Master of Arts Degree
 - English
 - French
 - Geography
 - History
 - Political Science
 - Psychology
 - Sociology
 - Spanish
- Master of Music Degree
- Master of Public Administration Degree
- Master of Science Degree
 - Biology
 - Chemistry
 - Clinical Psychology
 - Geology
 - Mathematics
 - Physics
 - School Psychology

College of Business

- Master of Business Administration Degree

College of Education

- Master of Arts in Education Degree
 - Elementary Education — General, Reading, Early Childhood
 - Counseling — Elementary, Secondary
 - Health Education — School Health, Allied Health Sciences
 - Library Science
 - School Psychometry
 - School Social Work
 - Special Education
 - Secondary Education
 - Art
 - Biology

Business Education
Chemistry
Earth Science
English
French
General Science
Geography
History
Home Economics
Industrial Education
Library Science
Mathematics
Music
Physical Education
Physics
Political Science
Reading
Sociology
Spanish

Master of Arts Degree
Industrial and Community Services
Rehabilitation Counseling
Student Personnel Services

Master of Music Education

Master of Science Degree
Physical Education
Recreation and Park Administration
Sports Administration

Specialist in Education
Educational Administration and Supervision
Elementary Education
Physical Education
School Counseling
Special Education
Student Personnel Services

Fifth and Sixth Year Certification for Teachers and School Service Personnel
Directors of Pupil Personnel
Elementary and Secondary Principals
School Business Administrators
School Media Librarian
School Psychometry
School Social Work
Superintendents
Supervisors

Joint Doctoral Program in Education

(Ed.D. programs are offered cooperatively with the University of Kentucky).

College of Law Enforcement

Master of Science Degree
Criminal Justice

Joint Doctoral Programs

(Ph.d. programs are offered cooperatively with the University of Maryland and Michigan State University. The joint Ed.D. is offered cooperatively with the University of Kentucky.)

Types of Admission

Students may gain admission to graduate study at Eastern Kentucky University as degree or as non-degree graduate students.

Students seeking to matriculate with degree status may be admitted with or without special conditions, depending upon the extent to which aptitude for graduate study and program prerequisites are satisfactory. The student should refer to the **Graduate Catalog** for more complete program requirements and details.

General Admission Requirements

Admission to the Graduate School at Eastern Kentucky University is based upon evidence that the applicant will be able to pursue creditably a program of graduate study in his field. Admission to the Graduate School should not be construed, however, as admission to candidacy for the degree, described later. Application forms may be secured from the Office of the Graduate School.

Applicants should be graduates of **accredited** four year institutions authorized to grant the baccalaureate degree.

The minimum undergraduate grade point ratio acceptable for unqualified admission to a degree program is 2.4 overall (4.0=A). An individual who applies for a degree program but does not meet the minimum requirements may be admitted for graduate study on a non-degree basis. Conditional admission to a degree program may subsequently be granted to a limited number of individuals upon appeal to the Graduate Council after they have demonstrated a high level of performance during the initial twelve hours of graduate study, presented satisfactory G.R.E. scores, and shown evidence of their potential to succeed in graduate school. The minimum grade point ratio for admission to non-degree programs is 2.0.

Specific program requirements are listed in college and/or departmental sections.

Students assume responsibility for filing complete admission data with the Office of the Graduate School, including two official copies of transcripts of all college credits. An official transcript must bear the seal and signature of the sending institution and should be transmitted directly to the Dean of the Graduate School.

The Graduate School reserves the right to withdraw without credit or refund any student for whom application is incomplete at the end of the first enrollment.

No student may receive graduate credit for a course without admission to the Graduate School.

All programs assume certain formal and informal prerequisites. Normally any deficiencies in preparation must be resolved during the first enrollment.

Undergraduate Admission

An undergraduate student who needs not more than nine semester hours in one semester (or three semester hours in one summer session) to complete all of the requirements of a baccalaureate degree may be allowed to register for graduate credit work under the conditions described below.

All work for undergraduate credit will be completed during that semester or summer session.

The total registration for all work will not exceed twelve semester hours in a semester (or six semester hours in a summer session).

All work to be counted for graduate credit must be approved **in advance of registration** by the graduate program advisor, the student's undergraduate college dean, and the dean of the Graduate School. Approval forms should be shown at the time the graduate class cards are picked up and again at the time payment is made at the fee calculation station during registration. Approval Forms for Undergraduate/Graduate Concurrent Enrollment may be obtained from the Graduate School Office. The student must make application to the Graduate School and meet all pertinent conditions for admission. Graduate credits earned must not be used to meet undergraduate requirements.

Graduate Record Examination

All degree candidates must submit scores on the aptitude section of the Graduate Record Examination* at the time of application for

*The Undergraduate Record Examination is accepted in lieu of the G.R.E. All Eastern seniors are strongly advised to take this examination.

admission to graduate studies. Certain domestic students who have not had an opportunity to take the GRE may be admitted conditionally for **one semester** provided they take the test during their **initial semester** as a graduate student. Some programs require Advanced Graduate Record Examinations in the subject field in addition to the aptitude sections. The Graduate Record Examinations are administered at Eastern in October, January, April and June. Applications to take the Graduate Record Examination must be received in the Office of the Educational Testing Service, Princeton, New Jersey, more than three weeks in advance of the testing date. Application forms are available in the Office of the Dean of the Graduate School. It is the student's responsibility to apply for, to take the examination, and to have the scores sent to the Dean of the Graduate School at Eastern.

Program Planning

After receiving notification of admission to the Graduate School and of the appointment of an advisor or graduate committee, the student should take the initiative to contact his chairman and discuss his objectives carefully. This conference should take place after the student has familiarized himself with program purposes and pertinent regulations as they are described in the Catalog and **before** registration. When prior conferencing is not possible, the student may obtain approval for the first semester's work in writing or on Registration Day. However, the complete program should be developed during the first semester of enrollment.

Admission to Candidacy

A graduate student must be admitted to candidacy before he is eligible for the master's degree. At least nine hours of graduate credit should be earned before admission to candidacy and admission to candidacy should be completed before the student enrolls for the last twelve hours.

All conditions of admission to the Graduate School should have been satisfied.

Graduate Record Examination scores for the combined aptitude

tests and departmental requirements on Advanced Tests shall have been satisfactorily met.

No student shall become a candidate without a minimum grade point standing of 3.0.

A complete program of studies for the program shall have been devised, approved, and filed with the committee chairman, department chairman, and Dean.

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OFFICE OF COMMUNITY COLLEGE PROGRAMS

Jack A. Luy, Dean

General Information

The Office of Community College Programs has been established as a major division within Eastern Kentucky University in recognition of the growing importance of providing trained people with the specific skills and education which require less than four years of training. During recent years, an increasing percentage of the work force has been found in technical, semiprofessional, and service oriented jobs. Preparation for many of the jobs in these categories requires the skills and knowledge which may be attained through at least two years of college. Many young people and adults who wish to prepare for these job opportunities are now enrolling in two-year college programs such as those provided by Eastern Kentucky University.

The Office of Community College Programs might be referred to as Eastern Kentucky University's door to "opportunity," for one purpose is to extend educational opportunities to students. It assures one of high quality education at reasonable costs in order to assist an individual to attain the knowledge and skills needed for productive and rewarding employment in a minimum of time.

Included among the services and educational opportunities offered through the Office of Community College Programs are:

- Information about all two-year programs offered by Eastern Kentucky University.
- Guidance for students or prospective students in selecting a program of study.
- Clearinghouse for information on new or proposed programs.
- Coordination for transfer of students from Kentucky community and junior colleges.

In cooperation with the respective Colleges of Eastern Kentucky University, the following programs of study are offered. Additional programs are being considered and may be available when a student is ready to enter college.

Associate of Arts Degree Programs of Study

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Purposes and Characteristics of Curricula

The purpose of Eastern's two-year program is to provide high quality instruction in a variety of technical, business, semiprofes-

sional, and service oriented professions. In general, these programs have the following characteristics:

- A minimum amount of time is needed for completion of a program. Two years is normally required to complete an Associate of Arts Degree. If transferring into a program, many credits already earned may be applicable.
- With rare exceptions, programs are structured to allow direct continuation into a four-year curricula with little, if any, "loss" of credit.
- Programs provide a blend of general and specialized education.
- Programs of study emphasize specific skills and knowledge needed within particular career fields.
- Many programs may be pursued on a part-time basis.
- Graduates of associate degree programs may continue their education toward a baccalaureate or higher degree.
- Programs of study combine academic training with laboratory experiences, observations, and "on-the-job" experiences.
- Departments maintain close contact and seek the support and advice of business, industry, and potential employers in each specialized area.
- In addition to university-wide loans, scholarships, work-study grants, etc., additional or special loans and scholarships are available for students in specific associate degree programs.

Highlights

Some of the outstanding features of the two-year programs at Eastern Kentucky University are:

- Classes and laboratories are taught by outstanding faculty who combine the best professional training with practical experience. The same faculty teach students in associate degree programs that teach students in other college programs.
- The University provides libraries, shops, laboratories, and other specialized facilities with the latest equipment for use in instruction.
- Outside resource people are brought to the University to lecture and demonstrate the latest equipment, methods, and techniques.
- Students enrolled in these programs are an integral part of the total University community and are encouraged to participate in all phases of the University's program — cultural, social, recreational, as well as academic.

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PUBLIC SERVICE AND SPECIAL PROGRAMS

University-wide coordination of Eastern Kentucky University's historical and continuing commitment to provide institutional resources to meet the varied needs and interests of many publics served by the University is provided through the Office of Public Service and Special Programs. In cooperation with the academic colleges and departments and other administrative divisions of the University, a variety of traditional and nontraditional educational opportunities are made available through the Division of Continuing Education, Division of Special Programs, Division of Television and Radio, and Office of University Computing Services.

Division of Continuing Education LaRue Cocanougher, Dean

Institutions of higher education can no longer meet their responsibility by offering only the services provided by the traditional campus programs. Opportunities must be available for groups and individuals who desire additional education but find it impossible, or at least impractical, to participate in the traditional educational activities of the university. This relatively new demand on the university is due to several factors; such as, the need for practitioners to either keep abreast of the great expansion of knowledge in their field or become less effective in their jobs, the desire for people to either improve their competence in their chosen vocation or prepare for a new vocation, and a renewed interest in educational activities brought about by increased leisure time for many people.

Eastern Kentucky University's Division of Continuing Education attempts to meet these needs through extended campus classes, correspondence study, Saturday and evening classes, and nontraditional programs. Consultative service by staff and faculty, along with other short term offerings, are also available.

Correspondence Study Department

Eastern Kentucky University, through its Division of Continuing Education, offers a number of regular college and high school correspondence courses as a means of study open to anyone who

desires to continue his education in this manner. These courses may be taken on either credit or non-credit basis. The college courses may be applied toward a bachelor's degree from Eastern Kentucky University or other institutions of higher education. The high school courses may be applied toward a high school diploma. Correspondence courses may also be taken on a non-credit basis for other goals such as studying for professional advancement, exploring new interests, or learning new skills.

Correspondence courses cover essentially the same material as the same or similar courses offered on campus. Students prepare assignments and submit them, along with any questions they may have, to their instructor through the Continuing Education Office. The instructor then evaluates the work and returns the evaluation form with his comments. This type of instruction offers an opportunity for the student to be taught on an individual basis. In essence, he has a tutorial type of arrangement which defies distance.

Fees and Enrollment Procedures

- A. Instructional fees, which do not include costs of textbooks and other reference materials, are governed by the following regulations:
1. All fees are payable in advance and are subject to change without notice to the student.
 2. Instructional fees for college courses are based upon the number of semester hours of credit given for the course. The fee, at present, is \$18.00 per semester hour. For a two-semester hour course the fee is \$36.00.
 3. The instructional fee for high school courses is \$22.00 for each one-half unit.
- B. Registration for a correspondence course includes the following procedures:
1. Applicants are required to make a separate application for each course on registration forms provided by the institution.
 2. College students are to use the four by six inch perforated **pink** registration card and high school students are to use the four by six inch **white** registration card.
 3. The registration form must be **completed in full** by using ink or typewriter. The applicant should check to make sure

that the same information is given on the form for the Office of Continuing Education and the form for the Registrar's Office.

4. **Send Both** completed registration forms together with the instruction fee to the Office of Continuing Education, Eastern Kentucky University, Richmond, Kentucky 40475. **Do Not Send Forms To The Registrar.**
5. Do not fold or bend the registration card except where perforated.
6. Additional registration forms can be obtained by writing to the Office of Continuing Education. Please state whether you desire to enroll for college or high school courses. The **Continuing Education Bulletin** which contains a listing of correspondence courses offered and regulations pertaining thereto, will also be sent upon request.

Extended Campus Department

Purposes and Objectives

Eastern Kentucky University strongly holds to the philosophy that there should be a close relationship with the homes, schools, industry, and various community groups of the state to the end that any citizen may feel free to call upon the University for any assistance which the institution may be able to render. The extended campus educational program of Eastern is designed to serve students who are unable to enroll in residence or who find it more helpful to work in local groups on certain common problems. More specifically, extended campus educational programs are designed to accomplish one or more of the following purposes:

1. To provide greater opportunities for those who want to increase their knowledge while regularly employed or improve their efficiency and skills either on a credit or non-credit basis.
2. To encourage communities to make effective use of the resources of the University.
3. To assist in acquainting the faculty of the various departments with the educational programs and needs facing the communities served by the University.

Request for Extended Campus Courses

Anyone who desires to do so may request an extended campus course if, in his opinion, there will be sufficient interest to justify offering the course. If a course is desired, please contact the Office of Continuing Education, Eastern Kentucky University, in order that procedures may be worked out for getting the course organized.

General Requirements

Students may be permitted to audit an extended campus course without credit by paying the minimum fee required.

A minimum of 40 student-teacher contact hours involving a minimum of 12 calendar days are required for a three-semester hour course. For a two-semester hour course there must be at least 27 student-teacher contact hours within a minimum time of 8 calendar days.

Cooperative Education

Cooperative education provides the student with an opportunity to blend theory with practice resulting in a balanced education. Learning within the classroom is combined with practical on-the-job training in business, industry, and/or government.

The determination of eligibility for participation in the cooperative education program is primarily a function of the department in which the student is majoring. Prior to enrolling in cooperative education, the student should normally have completed 30 semester hours including one semester at Eastern as a full-time student with a grade point average of at least 2.0.

Acceptance of a student into the program is also contingent upon the location of a suitable training site and an agreement with the employer to hire. The employer will be provided with a resume of the students' scholastic, experiential, and personal data, and he will be provided the opportunity to interview each applicant.

A co-op student will normally be employed full-time for a period of one semester following the employer's schedule. When employed for the full semester, the student may earn a maximum of four academic credits. If schedules can be arranged, a student may work full-time for one half-semester and earn two academic credits. If a department uses the parallel track ($\frac{1}{2}$ day on campus, $\frac{1}{2}$ day on the job) two academic credits may be earned. During the summer

period, cooperative education experience may be arranged for two or four credits. The salary is negotiable for each position but must fall within State and Federal wage guidelines.

Academic credit will be awarded for cooperative education only when the student is enrolled in the University and in the cooperative education program. Credit may not be awarded for past experiences or for anticipated future experiences. A maximum of six semester hours may be applied toward meeting graduation requirements for the associate degree, and a total of twelve semester hours toward the bachelor's degree. Cooperative education credit for students pursuing a second undergraduate degree will be determined by the department.

The student will be assigned an immediate or field supervisor by the employer to provide directions and coordination on the job. The field supervisor will also be responsible for providing periodic and final evaluation reports on the student and forwarding this information to the co-op director. Copies of these reports will be forwarded to the academic advisor.

Although the employer (field supervisor) will appraise the performance of each student, the grade will be assigned by the department in accordance with established criteria and through a comprehensive evaluation.

To maximize the benefit to the student, it is assumed that the employer will make every attempt to provide the student with a broad exposure of experiences related to the student's goals and the nature of the training site. The student should, however, realize that he or she is a full-time productive employee. The participating employer, the student, and the University will each sign a letter of agreement spelling out the duties and responsibilities of each party.

The same student will in most instances return to the same location for each cooperative education experience. A student may, however, occasionally be allowed to work for several employers in varying situations as long as the work experience is related to the student's career goals and those of the program.

Nontraditional Studies

The Division of Continuing Education does not limit its service to the programs included above. Even though these programs provide

an opportunity for many people who otherwise would not be able to continue their education, there are still a great number of potential consumers of education who need programs which deviate considerably from the traditional. It is for these people that the nontraditional programs are developed.

Additional Continuing Education Services

For information pertaining to Saturday and evening schedules, correspondence study, cooperative education, nontraditional studies, and faculty and staff consultative services, please write the Division of Continuing Education, Eastern Kentucky University, Richmond, Kentucky 40475 or call 606:622-2001.

Division of Special Programs

Kenneth Clawson, Dean

The Division of Special Programs has been established to provide leadership for the planning and implementation of a variety of special activities made available by the University. This division primarily is responsible for services and programs of a non-credit nature, and is responsible for the awarding of Continuing Education Units (CEU's) for participation in conferences, short courses, institutes, seminars, and workshops sponsored by the University. Among the special activities administered by this division are those described below.

Special Interest Courses

Each semester the University offers a variety of special interest courses for the adult citizen of the community and region. These short courses normally meet in the evening, one evening per week, and normally range from four to sixteen weeks in length depending upon the subject. Most are taught by regular university faculty and all use the university laboratories, studios, shops, recreation facilities, library and other specialized resources. All adults are welcome to enroll. Most special interest courses do not have pre-requisites nor must one have attended college in order to enroll. Courses are organized and offered based on individual interest and demand. Calls and letters of inquiry or requests for courses are invited.

Short Courses, Conferences, Workshops, Seminars, and Institutes

Eastern Kentucky University is committed to an expanding program of public services in an effort to assist with the many and varied needs for continuing professional education. Many services are provided in order to organize, develop, and implement or sponsor a variety of short courses, conferences, workshops, seminars, and institutes. These are normally developed in response to requests from business and professional people and organizations, most of whom are committed or mandated to continue their education. Programs vary in length from a few hours to several days of full-time study or they may be offered over a period of time. These programs may be offered on the campus or they may be scheduled at other suitable locations throughout the region and state for the convenience of the participants. Many businesses and other employing agencies and organizations contract with the university for specialized programs for their employees, such as management training seminars. Numerous conferences and meetings of an educational nature are regularly scheduled to meet on the campus.

Specialized Opportunity Programs for Servicemen and Women

Eastern Kentucky University has developed special programs to assist in the educational development of one of the most important segments of our society — the membership of the military services. Whether one is entering a service; has served for several years on active duty; is approaching ETS; or has applied for retirement, Eastern has a program which will assist in obtaining a college education and preparing for satisfying and rewarding civilian employment.

These programs are specialized in the sense that they allow the service member an opportunity to obtain initial and continuing evaluation of all classroom and field experience, military and civilian, in terms of equivalent academic experience on our campus. They are specialized, also, in the sense that the evaluation will be followed up by advisement on correspondence courses, off-duty classes, equivalency tests, etc., which will best prepare one to complete the requirements for a college degree on the campus with the least amount of time and expense.

● RECENT ENLISTEES — PROJECT AHEAD

This program allows qualified individuals, selected by military recruiters, to join the service of their choice and enroll in Eastern Kentucky University at the same time. ECU will maintain an academic advisement file for each student, and provide a continuing monitoring and counseling service. As one continues to accumulate military and civilian educational experience, he or she will receive regularly updated advice concerning additional courses to be taken to keep on target toward the degree chosen as his or her objective at Eastern Kentucky University.

● SERVICEMEN'S OPPORTUNITY COLLEGE

Eastern Kentucky University is a charter member of Servicemen's Opportunity College, a program designed to facilitate wide acceptance among universities of the military and civilian education attained by active duty servicemen and women. Among the features of this program are:

- Liberal college entrance requirements
- Traditional and non-traditional education programs adapted to the needs of servicemen
- Special academic assistance
- Maximum recognition of educational experience obtained in the Armed Services
- Residence or on-campus requirements adaptable to the needs of servicemen and women
- Unlimited transfer of credits among SOC members

A student may enroll at Eastern Kentucky University and immediately obtain college credit for all academic work previously completed at any accredited educational institution. One may also receive credit for military training and for successful completion of several types of tests, including the College Level Examination Program (CLEP).

Eastern Kentucky University is also involved with Bootstrap, a degree completion program for active duty members of the armed services. Bootstrap students may attend the University full-time and receive full pay and allowances while working toward service-approved degrees. G.I. Bill benefits are available during Bootstrap attendance to help meet living and educational expenses.

● DISCHARGED VETERANS

Eastern Kentucky University has a number of special programs for those who choose to accept discharges from an armed service in order to continue their education on the EKU campus.

Upon request, EKU will evaluate one's military and civilian classroom and field experiences and establish equivalent credit standing for this campus. An advisor will counsel one in the most efficient ways to meet the remaining requirements for completion of a specific degree program. Discharged veterans receive the same liberal evaluation granted to applicants under the Servicemen's Opportunity College program described earlier. Up to 96 semester hours of transfer and equivalency credit may be applied toward a degree program at Eastern. In addition, one may receive assistance of many kinds from the Veteran Affairs Office on campus. These services range from personal counseling to financial assistance in completing university educational requirements.

● RETIREES

Persons retiring from a military service typically have obtained a wide range of civilian and military educational experiences. Upon evaluation and testing, one may find that he has gained through equivalency a large portion of the academic credits required in college degree programs. Eastern Kentucky University will evaluate without charge service and academic experience, and will counsel the student regarding the remaining requirements for graduation.

Student Special Programs

The following programs are made possible through special grants to Eastern Kentucky University from the United States Department of Health, Education, and Welfare.

STUDENT SPECIAL SERVICES PROJECT

A program designed to assist students who, by reason of deprived educational, cultural, or economic background, or physical handicap, are in need of remedial and other special services to initiate or complete their post-secondary educational program. College students are provided counseling, guidance, tutorial assistance or other services indicated by their needs.

UPWARD BOUND PROJECT

A secondary school program based at Eastern Kentucky University serving twelve (12) counties located near the University. Designed to generate skills and motivation necessary for success in education beyond the high school, this program enrolls students from low-income backgrounds who have inadequate secondary preparation.

VETERANS UPWARD BOUND PROJECT

A state-wide program designed to identify veterans of financial, cultural, and academic need who dropped out of high school or require remedial assistance, as determined by the Veteran Administration or Veteran Upward Bound Program, and encouraged by them to complete an academic program leading to a high school equivalency certificate or academic improvement to permit pursuit of post-secondary goals.

International Education

There is a growing awareness of the need for greater international and intercultural understanding. The University provides assistance and attempts to foster a greater commitment and involvement throughout the institution in international education. Through the Division of Special Programs, a Director of International Education assists faculty and students who are planning travel and study abroad programs. Resource information is available and students and faculty are encouraged to contact the Director for assistance with individual and/or group experiences that are planned.

Foreign Student Advisor

Each year, Eastern Kentucky University has a growing number of foreign students studying at both the undergraduate and graduate levels. These students come from throughout the non-communist world and represent more than thirty nations. The Director of International Education serves as the designated University official to assist all foreign students with their legal requirements and their relations with the United States Office of Immigration and Naturalization and other official agencies. The Director also advises and assists foreign students with personal and financial problems and other needs as they arise.

For further information concerning special interest courses, short

courses, conferences, workshops, seminars, institutes, special programs for servicemen and women, student special programs, and international education, please write the Division of Special Programs, Eastern Kentucky University, Richmond, Kentucky 40475 or call 606:622-1444.

Division of Television and Radio

Fred C. Kolloff, Director

The Division of Television and Radio operates a professionally equipped and staffed color television production and radio broadcast facility.

Television Services

The Division's Television Section aids the faculty and staff in the production of instructional television materials through the use of studio, portable videotape and/or film facilities. In addition, the Division produces public service materials directed toward the citizens of Kentucky and distributed over the Kentucky Educational Television, commercial stations and community cable systems.

The University's television facilities also serve as a laboratory for those students involved in television broadcasting. Students may participate through University work programs and/or academic credit programs.

The Division also operates and maintains the campus wide closed-circuit television cable system which provides educational, commercial and campus-originated instructional programs to classroom buildings, dormitory lounges, the University Center, married student housing, and on-campus faculty housing.

WEKU-FM Radio

The Division also provides a public service to the citizens of central Kentucky with cultural, informational and instructional programming over WEKU-FM (88.9 mhz), the University's 50,000 watt stereo public radio station.

In order to bring the resources of the University to the public, several program series are produced in conjunction with University fac-

ulty and staff members. In addition, live broadcasts of University orchestras and choral groups, as well as guest lecturers are integrated into a varied format of music and information.

Student participation within WEKU-FM is encouraged through volunteer, University work and academic credit programs.

Further information concerning Eastern Kentucky University's television and radio facilities and services may be obtained by writing Division of Television and Radio, Eastern Kentucky University, Richmond, Kentucky 40475 or calling 606:622-2474.

Office of University Computing Services

The Office of University Computing Services is responsible for the University-wide coordination and administration of computing services made available to support the expanding use of computers for academic instructional and research activities along with the regular and ongoing administrative functions of the University. A broad range of services are made available to University users through the Division of Academic Computing Services and Division of Administrative Computing Services.

Division of Academic Computing Services Carol Teague, Director

The Division of Academic Computing Services provides assistance to members of the University community who are doing instructional or research projects that require the use of a computer. Two computers are located on the campus of Eastern Kentucky University and provide both batch and time-sharing computing facilities. In addition, access may be obtained to other computers in the state via the Kentucky Educational Computing Network.

Consulting and programming services are available to members of the faculty and staff who need assistance in using the available computing facilities. Educational seminars are offered periodically on topics of general interest to users. In addition, the office publishes and distributes user's guides and newsletters for the campus community.

Division of Administrative Computing Services **Patrick E. Ridgley, Director**

The Division of Administrative Computing Services provides data processing support for the administrative needs of the University. In fulfilling its mission, the Division provides a full range of services, including data entry, programming, systems analysis, and computer operations. The facilities of the Division also serve as a laboratory for students in the several data processing and computer science programs offered by Eastern Kentucky University. Students gain experience in programming and operating the University's campus computer system and working with the professional staff in an on-the-job training atmosphere.

For further information concerning computing facilities and services available, please write Office of University Computing Services, Eastern Kentucky University, Richmond, Kentucky 40475 or call 606:622-2028 or 606:622-3496.

Part Six

Official Directory

EASTERN KENTUCKY UNIVERSITY

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JEFFREY P. BROTHEN, B.A., M.F.A. Instructor of Theatre Arts
B.A., Sioux Falls College; M.F.A., University of Houston. At Eastern since 1974.

***ALICE BROWN, B.S., M.A.** Instructor, Learning Laboratory
Central University College
B.S., Appalachian State University; M.A., Appalachian State University; additional graduate work at Ohio University. At Eastern since 1973.

GEORGE M. BROWN, B.S. in Ed., M.S. in Ed. Associate Professor of
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B.S. in Ed., Eastern Illinois University; M.S. in Ed., Northern Illinois University; additional graduate work, University of Kentucky. At Eastern since 1963.

HARRY N. BROWN, A.B., M.A., Ph.D. Associate Professor of English
A.B., Davidson College; M.A., Appalachian State Teachers College; Ph.D., Ohio University. At Eastern since 1970.

JOHN W. BROWN, A.B., M.A., Ed.S. Residence Hall Administrator-
Counselor
A.B., M.A., Ed.S., Eastern Kentucky University. At Eastern since 1973.

JUDITH BROWN, B.A., M.Ed., Ed.S. Instructor of Education; Counselor,
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B.S., Northeast Louisiana State College; M.E.D., Northwestern State University; Ed.S., Eastern Kentucky University. At Eastern since 1970.

PATRICIA BROWN, R.N., B.S. Instructor of Nursing
B.S., Medical College of Virginia; additional work, West Virginia University. At Eastern since 1974.

TOMMY R. BROWN, B.S., M.S. Assistant Professor of Industrial Education
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B.S., M.S., Eastern Kentucky University; additional graduate work, University of Kentucky. At Eastern since 1970.

WILLIAM C. BROWN, B.S., M.A. Assistant Professor of Science
Supervising Teacher, Laboratory School
B.S., Davidson College; M.A., Stanford University; additional graduate work, Temple University, Eastern Kentucky University, University of Kentucky. At Eastern since 1973.

WILLIAM A. BROWNE, A.B., M.A., Ph.D. Associate Professor of
Traffic Safety
Director, Traffic
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A.B., Catawba College; M.A., Ph.D., Michigan State University. At Eastern since 1975.

W. GORDON BROWNING, B.A., M.A., Ph.D. Professor of English
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*On Leave, 1976-1977

- WILLIAM S. BROWNING, A.A.** Cable Operations Engineer
Division of Television and Radio
A.A., Eastern Kentucky University. At Eastern since 1975.
- PATRICIA YORK BRYANT, B.S., M.A.** Residence Hall Administrator-
Counselor
B.S., Cumberland College; M.A., Eastern Kentucky University. At Eastern since 1975.
- SANDRA BURCH, R.N., B.S.N.** Instructor of Nursing
B.S.N., University of Kentucky. At Eastern since 1969.
- JOHN D. BURKHART, B.A., M.A., Ph.D.** Associate Professor of
Home Economics
B.S., St. Charles College, M.A., Ph.D., Ohio State University. At Eastern since 1972.
- ROBERT E. BURKHART, B.B.A., M.A., Ph.D.** Professor of English
B.B.A., M.A., University of Pittsburgh; Ph.D., University of Cincinnati. At Eastern since 1967.
- SYLVIA D. BURKHART, B.A., M.A., Ph.D.** Asso. Professor of German
B.A., University of Kentucky; graduate work, University of Heidelberg; M.A., Ph.D., University of Cincinnati. At Eastern since 1965.
- J. DOUGLAS BURNHAM, A.B., M.S.W.** Assistant Professor of
Social Work
A.B., Alabama College; M.S.W., University of Alabama. At Eastern since 1975.
- GENE E. BURTON, B.B.A., M.B.A., Ph.D.** Chairman, Department of
Business Administration
Associate Professor of
Management
B.B.A., University of Texas at Arlington; M.B.A., University of Texas at Arlington; Ph.D., North Texas State University. At Eastern since 1976.
- HERMAN S. BUSH, A.B., M.A., H.S.Dir., H.S.D.** Chairman, Department
of School and Public Health;
Professor of Health
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- EDWARD P. BYHRE, B.A., M.A.** Assistant Professor of Health
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B.A., Augustana College; M.A., University of South Dakota. At Eastern since 1973.
- HUGH M. BYRD, B.A., M.S.** Associate Professor of Police Administration
B.A., Mississippi College; M.S., Eastern Kentucky University. At Eastern since 1968.
- ERNEST E. BYRN, B.S., Ph.D.** Professor of Chemistry
B.S., Ph.D., University of Tennessee. At Eastern since 1966.

- ROBERT L. BRYNE, B.S. in Ed., M.Ed., Ed.D.** Professor of
Elementary Education
B.S. in Ed., Ohio University; M.Ed., Kent State University; Ed.D., George Peabody College for Teachers. At Eastern since 1965.
- ELBA B. CAIRNCROSS, B.A., M.A., Ed.D.** Professor of Education
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- DONALD L. CALITRI, B.S., M.A.** Associate Professor of Health
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- GERALD F. CALKIN, A.B., M.S., M.S., Ph.D.** Associate Professor of
Physical Education
Gymnastics Coach
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- JACK T. CALLENDER, A.B., M.A.** Director for International Education
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- CHRISTINE CALVERT, B.S., M.S., Ph.D.** Associate Professor of
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- RHONDA CAMMACK, R.N., B.S.N.** Instructor of Nursing
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- GEORGE E. CAMPBELL, B.A., M.A., Ph.D.** Assistant Professor of
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- SARAH CAPPS, B.A., M.F.A.** Assistant Professor of Art
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- *GLENN O. CAREY, A.B., M.A., Ph.D.** Associate Dean, College of Arts and
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- WILLIAM E. CARFIELD, B.S., M.A.** Associate Professor of
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- ELIZABETH R. CARR, B.S., M.A.** Instructor of Mathematics and Science
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B.S., Randolph-Macon Woman's College; M.A., additional graduate work, Eastern Kentucky University. At Eastern since 1971.
- GLORIA T. CARR, B.S., M.S.** Assistant Professor of Special Education
B.S., M.S., Eastern Kentucky University. At Eastern since 1973.

- GARY K. CARSON, B.A., A.M., Ph.D.** Assistant Professor of English
B.A., Millsaps College; A.M., Ph.D., Harvard University. At Eastern since 1974.
- DOROTHY ANN CARTER, B.A., M.A., Ph.D.** Assistant Professor of French and Education
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- ROMEO E. CARTIER, JR., C.E., B.S., M.S., Ph.D.** Associate Professor of Health
C.E., Ohio, West Virginia; B.S., University of Miami; M.S., University of Connecticut; Ph.D., West Virginia University. At Eastern since 1973.
- VERNA CASEY, B.A., M.S.L.S.** Assistant Professor of Library Science
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- KAREN CASTEEL, B.F.A.** Assistant Professor of Home Economics
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- ELIZABETH S. CASTLE, A.A., A.B., B.S. in L.S.** Assistant Professor of Library Science
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A.A., Bethel Woman's College; A.B., Kentucky Wesleyan College; B.S. in L.S., George Peabody College. At Eastern since 1967.
- SHIRLEY CASTLE, A.B., M.A.** Director of Personnel Services
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- HAZEL CHAPPELL, R.N., B.S.N.** Instructor of Nursing
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- ANNE MARGARET CHASE, B.S., M.S., Ph.D.** Professor of Home Economics Education
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- LAWRENCE J. CHASE, A.B., M.A., Ph.D.** Associate Professor of Social Science
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- GARY K. CHASTAIN, B.S., M.S., Ed.D.** Associate Professor of Industrial Education and Technology
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- JOHN H. CHISHOLM, B.Ed., M.Ed.** **Assistant Professor of Elementary Education**
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- HAZEL L. CHRISMAN, B.A., M.A.** **Associate Professor of English**
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- AGNES L. CHRIETZBERG, B.S., M.S., Ph.D.** **Associate Professor of Physical Education
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- GEORGE A. CIVEY, III, B.A., M.A.** **Assistant Professor of Art**
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- JAMES R. CLARK, B.A.** **Director of Budget and Planning**
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- *WILLIAM M. CLARKSON, B.A., M.A., Ph.D.** **Associate Professor of Spanish**
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- KENNETH T. CLAWSON, B.S., M.A., Ph.D.** **Dean for Special Programs
Professor of Education**
B.S., M.A., Appalachian State University; Ph. D., Florida State University. At Eastern since 1968.
- GENEVIEVE J. CLAY, A.B., M.S. in L.S.** **Assistant Professor of Library Science
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- WILLIAM W. H. CLAY, A.B., M.A., Ph.D.** **Associate Professor of Social Science**
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- RICHARD M. CLEWETT, B.A., M.A., Ph.D.** **Associate Professor of English**
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LARUE COCANOUGH, A.M., M.A., Ed.D.

Dean for
Continuing Education
Professor of Education

A.B., Centre College; M.A., Ed.D., George Peabody College for Teachers.
At Eastern since 1966.

STEPHEN H. COE, A.B., M.A., Ph.D.

Associate Professor of History

A.B., Brown University; M.A., Ph.D., The American University. At
Eastern since 1966.

LOIS B. COKER, B.A., M.A.

Instructor of General
Studies English

B.A., Albany State College; M.A., University of Illinois; additional graduate
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NELLIE COLEMAN, R.N., A.A., B.S.N.

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At Eastern since 1975.

JANET COLLINS, R.N., B.S., M.S.N.

Instructor of Nursing

Diploma, Hartford Hospital School of Nursing; B.S., University of Kentucky;
M.S.N., University of Kentucky. At Eastern since 1976.

THOMAS P. COLLINS, B.S., M.A., Ed.D.

Associate Professor of
Educational Foundations

B.S., M.A., Eastern Kentucky University; Ed.D., University of Kentucky.

MARY VIRGINIA COLVIN, B.A., M.S., Ed.D.

Counselor,
Counseling Center;
Assistant Professor of
Educational Psychology
and Guidance

B.A., Baylor University; M.S., Ed.D., East Texas State University. At
Eastern since 1975.

DONALD COMBS, B.S., M.A.

Athletic Director, Assistant Professor
of Health and Physical Education

B.S., M.A., Eastern Kentucky State College; additional graduate work,
Eastern Kentucky University. University of Kentucky. At Eastern since 1963.

MARTHA L. COMBS, B.A., M.A.

Assistant Professor of English
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B.A., M.A., Morehead State University; additional graduate work, Eastern
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MARTHA CONAWAY, A.B., M.A.

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- JOHN D. CONNELLY, B.S., M.A., Ph.D.** Assistant Professor of
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B.S., Xavier University; M.A., North Eastern Illinois University; Ph.D.,
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- SHARON M. COOKSEY, R.N., B.S.N., M.S.N.** Assistant Professor of
Nursing
B.S.N., Berea College; M.S.N., University of Kentucky. At Eastern since
1972.
- ARLENE M. COOPER, A.B., M.A.** Counselor/Coordinator
Student Special Programs
A.B., M.A., Eastern Kentucky University; additional graduate work, Uni-
versity of Kentucky. At Eastern since 1973.
- DONALD A. COOPER, B.S., M.A., Ed.D.** Professor of Music
B.S., Wisconsin State University; M.A., Colorado State College; Ed.D.,
University of Montana. At Eastern since 1966.
- F. DALE COZAD, A.G.S., A.A.S., B.A., M.L.S.** Chairman
Department of Fire Prevention & Control
Associate Professor of Fire Prevention & Control
A.G.S., A.A.S., Carl Sandburg College; B.A., Knox College; M.L.S.,
Oklahoma University. At Eastern since 1975.
- GEORGE W. CRABB, B.A., M.A.T., M.A.L.S.** Assistant Professor of
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Catalog Section
B.A., Southwestern-at-Memphis; M.A.T., Vanderbilt University; M.A.L.S.,
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Colorado. At Eastern since 1964.
- CLYDE O. CRAFT, B.S., M.A., Ed.D.** Chairman, Department of Industrial
Education and Technology
Professor of Industrial Education
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B.S., M.A., Eastern Kentucky University; Ed.D., Texas A & M Univer-
sity. At Eastern since 1967.
- JEAN CRAIG, B.M., M.A., Ed.D.** Assistant Professor of Music Education
B.M.E., Oberlin Conservatory of Music; M.A., Ed.D., Teachers College,
Columbia University. At Eastern since 1967.
- MARY E. CRAMER, B.S.N.** Instructor of Baccalaureate Nursing
B.S.N., College of St. Teresa. At Eastern since 1976.
- EFFIE CREAMER, B.S., M.S., Ph.D.** Professor of Home Economics
B.S., Berea College; M.S., Ph.D., Texas Woman's University. At Eastern
since 1966.
- GLYNN N. CREAMER, B.A., M.Ed., Ed.D.** Associate Professor of
Mathematics Education
Director, Teacher Admission,
Certification and Evaluation
B.A., M.Ed., Ed.D., North Texas State University. At Eastern since 1966.

- JACK E. CREECH, A.B., M.A., Ed.S.** Associate Professor of History
Supervising Teacher, Laboratory School
A.B., M.A., Eastern Kentucky State College; Ed.S., University of Kentucky. At Eastern since 1956.
- ROBERT O. CREEK, B.S., M.S., Ph.D.** Associate Professor of Biology
B.S., M.S., West Virginia University; Ph.D., University of Arkansas. At Eastern since 1970.
- MABEL CRISWELL, A.B., M.A.** Associate Director of Housing
A.B., Eastern Kentucky University; M.A., University of Kentucky. At Eastern since 1970.
- JEANNETTE W. CROCKETT, B.S., M.A.** Assistant Professor of Education
Dean of Women
B.S., M.A., Eastern Kentucky University; additional graduate work as Indiana University. At Eastern since 1966.
- JACQUELINE B. CROSS, B.A., M.A., Ph.D.** Associate Professor of French
B.A., University of Toronto, Canada; M.A., Ph.D., University of Kentucky. At Eastern since 1966.
- JACK L. CULROSS, B.S., M.A., Ph.D.** Associate Professor of English
B.S., Spring Hill College; M.A., Ph.D., Louisiana State University. At Eastern since 1970.
- TERRELL CULROSS** Instructor, CUC Learning Laboratory
B.S., Louisiana State University; M.A., Eastern Kentucky University. At Eastern since 1976.
- SANDRA L. CUNDIFF, A.B.** Graphic Artist
Division of Television and Radio
A.B., Eastern Kentucky University; graduate work, Eastern Kentucky University. At Eastern since 1972.
- JUDITH A. CUNNINGHAM, A.B., M.A., Ed.D.** Associate Professor of
English Education
A.B., Murray State University; M.A., Ed.D., Ball State University. At Eastern since 1972.
- PAUL V. CUPP, JR., B.S., M.S., Ph.D.** Assistant Professor of Biology
B.S., M.S., Eastern Kentucky University; Ph.D., Clemson University. At Eastern since 1974.
- JOHN G. CURRA, B.A., M.A., Ph.D.** Assistant Professor of Sociology
B.A., M.A., San Diego State University; Ph.D., Purdue University. At Eastern since 1975.
- ROLAND S. DALE, R.R.A., B.S., B.S., M.A.** Assistant Professor
Director, Medical Record
Technology Program
B.S., Indiana University; M.A., Middlebury College; B.S., Illinois State University. At Eastern since 1976.
- NANCY S. DANIEL, B.S., M.A.** Assistant Professor of
Elementary Education
Supervising Teacher, Laboratory School
B.S., M.A., additional graduate work, Eastern Kentucky University. At Eastern since 1969.

- PHILIP DARE, B.A., B.D., M.A., Ph.D.** **Residence Hall
Administrator/Counselor**
B.A., Phillips University; B.D., Lexington Theological Seminary; M.A., Ph.D., University of Kentucky. At Eastern since 1974.
- FRED DARLING, B.S., M.A. in Ed., Dir.R., Dir.P.E., Re.D.** **Co-Chairman,
Department of Physical Education
Professor of Physical Education**
B.S., M.A., Eastern Kentucky State College; M.A. in Ed., University of Kentucky; Dir.R., Dir.P.E., Re.D., Indiana University. At Eastern since 1947.
- *VICKI R. DAUGHERTY, B.S., M.A.** **Assistant Professor of
Elementary Education
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B.S.N., Berea College; graduate work, Eastern Kentucky University. At Eastern since 1970.
- HAYWARD DAUGHERTY, B.S., M.A.** **Director of Student
Activities & Organizations**
B.S., M.A., Eastern Kentucky University. At Eastern since 1970.
- JAMES E. DAVIDSON, B.S., M.S., M.A.T., Ed.D.** **Associate Professor of
Mathematics Education**
B.S., M.S., Butler University; M.A.T., Indiana University; Ed.D., Teachers College, Columbia University. At Eastern since 1971.
- JOHN EDWIN DAVIDSON, B.S., M.S., Ph.D.** **Professor of Chemistry**
B.S., M.S., Ph.D., University of Tennessee. At Eastern since 1965.
- J. HOMER DAVIS, B.S., M.Ed.** **Associate Professor of Industrial Education
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- PATRICIA O. DAVIS, R.N., B.S.** **Instructor of Nursing**
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- JOHN W. DAVIS, M.B.A.** **Instructor Finance**
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- FRANCIS X. DAVY, A.B., M.A., Ph.D.** **Professor of English**
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- EDMOND G. DEAL, A.B., M.S., Ph.D.** **Assistant Professor of Geology**
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- CALLIE B. DEAN** **Records Supervisor, Registrar's Office**
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- DANIEL R. DEANE, JR., A.B., M.A., M.F.A.** Associate Professor of
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- JOHN M. DECK, B.S., M.S., P.E.Dir., P.E.D.** Chairman, General Studies
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B.S., Central Methodist College; M.S., P.E.Dir., P.E.D., Indiana Univer-
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- WIETSE DE HOOP, B.A., M.S., M.A., Ed.D.** Chairman, Department of
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- NANNIE BELLE DeJARNETTE, A.B.** Assistant Professor of
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- CHARLOTTE DENNY, R.N., B.S.N, M.A.** Associate Dean, College of
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Professor of Nursing
Diploma, Central Islip State Hospital School of Nursing; B.S.N., New
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City College of New York and University of Kentucky. At Eastern since 1967.
- JOHN A. DENTON, B.S., M.A., Ph.D.** Assistant Professor of Sociology
B.S., M.A., University of Tennessee; Ph.D., Tulane University. At Eastern
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- DONALD L. DEWEY, A.B., M.F.A.** Assistant Professor of Art
A.B., M.F.A., Indiana University. At Eastern since 1970.
- NANCY A. DICKENSON, R.N., B.S.N.** Instructor of Nursing
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- JERRY ANN DIMITROV, A.B., M.L.S.** Assistant Professor of
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A.B., Eastern Kentucky University; M.L.S., University of Kentucky. At
Eastern since 1970.

- WALLACE C. DIXON, A.B., A.M., Ph.D.** **Chairman, General Studies
Science Program
Professor of Biological Science**
A.B., Eastern Nazarene College; A.M., Ph.D., Boston University; additional graduate work, Harvard University. At Eastern since 1968.
- J. LINWARD DOAK, B.A., M.A., Ed.D.** **Associate Dean, College of
Education, Professor of
Educational Psychology**
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- LOLA T. DOANE, A.B., M.A., Ph.D.** **Chairman, Dept. of Educational
Psychology and Counseling,
Professor of Educational
Psychology and Counseling**
A.B., M.A., Morehead State University; Ph.D., University of Mississippi, At Eastern since 1970.
- WILLIAM F. DOHMEN, B.A., M.A., Ph.D.** **Assistant Professor
of English**
B.A., University of Wisconsin; M.A., Ph.D., University of Virginia. At Eastern since 1974.
- NEAL DONALDSON, B.S., M.A.** **Assistant Professor of Education
Vice President of Business Affairs**
B.S., M.A., University of Kentucky. At Eastern since 1965.
- THOMAS A. DONOHO, B.A., M.A.** **Station Manager — WEKU-FM
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- RANDOLPH DOZIER, A.B., M.A.** **Assistant Professor of Art**
A.B., M.A., Eastern Kentucky State College; additional graduate work, University of Kentucky. At Eastern since 1959.
- JEAN L. DRUESEDOW, A.B., A.M.** **Instructor of Theatre Arts**
A.B., A.M., Indiana University. At Eastern since 1974.
- SR. MARY DUDDEY, R.R.A., B.S.** **Instructor of Medical Record
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B.S. in Medical Record Science, St. Louis University. At Eastern since 1973.
- JOSEPH NORMAN DUGUAY, R.N., B.S., M.Ed.** **Assistant Professor
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Diploma, Middletown State Hospital, School of Nursing, Middletown; B.S., New York University; M.Ed., Teachers College, Columbia University. At Eastern since 1976.
- SHIRLEY G. DUNCAN, B.A., M.S.** **Assistant Professor of
Physical Education
Basketball Coach**
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- DORIS D. DWYER, A.B., M.A.** **Instructor**
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- JACK L. DYER, B.S., M.B.A., D.B.A., C.P.A.** **Professor of**
Accounting
 B.S., M.B.A., Indiana State University; D.B.A., University of Kentucky;
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- HOWARD L. ELDOT, B.Ed., M.S., Ph.D.** **Associate Professor**
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 B. Ed., University of Miami; M.S., Syracuse University; Ph.D., Indiana
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- MARGARET ELLIOTT, B.S., M.S.L.S.** **Instructor of Library Science**
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- SERGEANT MAJOR BOBBY L. McABEE** Chief Enlisted Instructor
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MARY C. BALDWIN, A.B., 1958-1964	Assistant Professor of English
J. G. BLACK, B.S., M.S., Ph.D., 1947-1968	Professor of Physics
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ROBERT O. BROWN	
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