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Graduate Catalog, 1977-1979

Eastern Kentucky University

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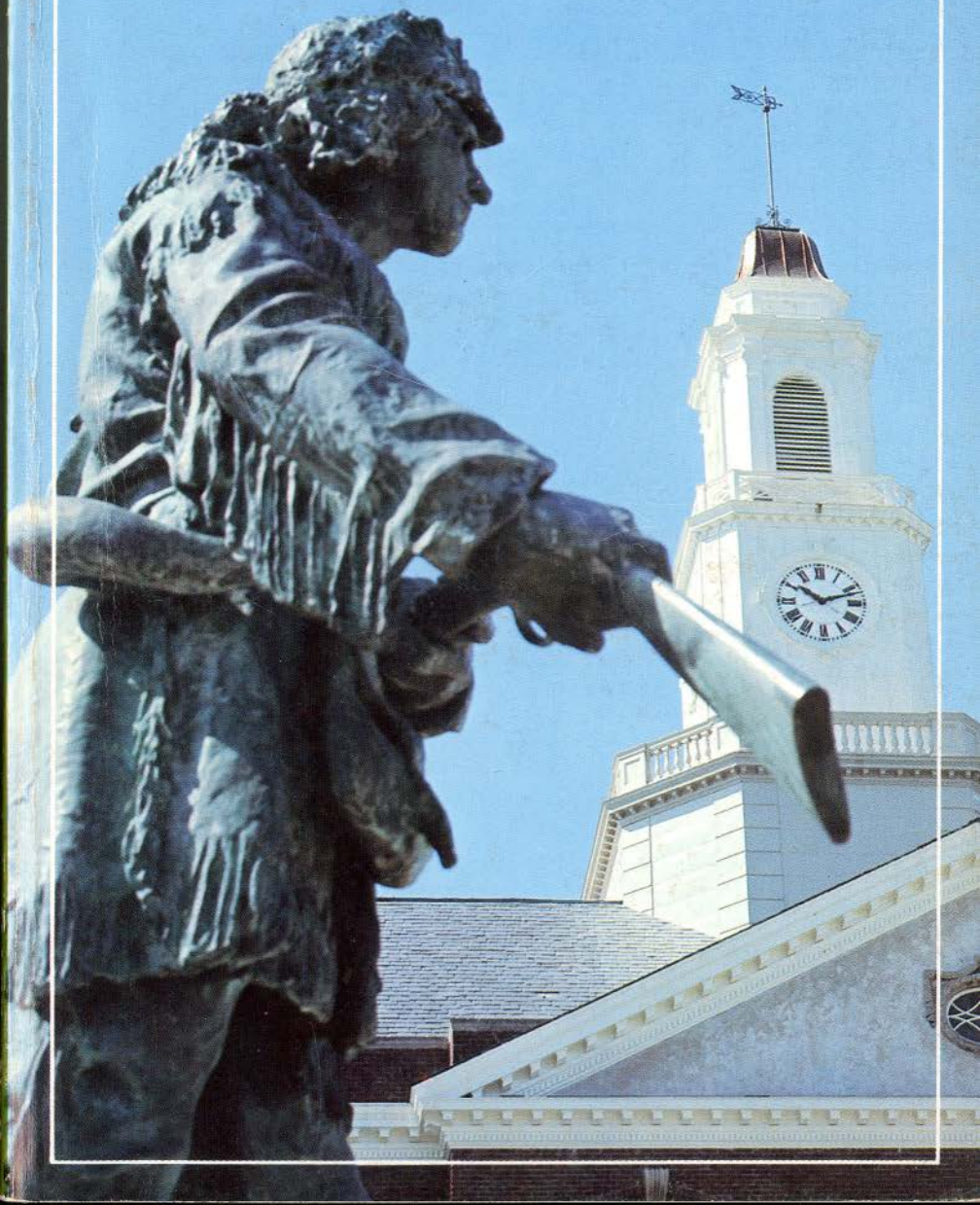
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EASTERN KENTUCKY UNIVERSITY

Bulletin · Graduate Catalog · 1977-79



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- American Association of Colleges for Teacher Education**
- American Association of Collegiate Schools of Business**
- American Association of State Colleges and Universities**
- American Association of University Women**
- American Council on Education**
- American Society of Allied Health Professions**
- American Technical Education Association**
- Association for Continuing Professional Education**
- Council of Graduate Schools in the United States**
- National Association for Business Teacher Education**
- National Association of Industrial Technology**

Accreditations

- American Chemical Society**
- American Medical Record Association**
- National Association of Schools of Music**
- National Council for Accreditation of Teacher Education**
- National League for Nursing (Associate Degree)**
- Southern Association of Colleges and Schools**

Bulletin

Vol. 68

August 1977

No. 2

PUBLISHED SEVEN TIMES A YEAR BY THE EASTERN KENTUCKY UNIVERSITY, in January, February, March, April, July, August, and November, and entered at the Post Office in Richmond, Kentucky 40475 as second-class matter.

Graduate Catalog 1977-79



Eastern Kentucky
University

BULLETIN • VOLUME 68 • NUMBER 2

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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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THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
CHICAGO, ILLINOIS

REPORT OF THE
COMMISSIONERS OF THE
LAND OFFICE
OF THE STATE OF ILLINOIS
FOR THE YEAR 1887

CHICAGO: PUBLISHED BY THE
STATE OF ILLINOIS
1888

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CALENDAR 1917

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CALENDAR 1917

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31	31	31	31

1977 — University Calendar — 1978

FIRST SEMESTER

- August 20 — Saturday
8:30-9:30 a.m. Check-in for Graduate Assistants
9:30 a.m. Assembly of faculty and Administrative Staff
10:30 a.m. College and departmental meetings
- August 21 — Sunday
10:00 a.m. Dormitories open.
3:30 p.m. President's greeting to parents, Hiram Brock Auditorium.
- August 22 — 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 upper division and graduate students.
- August 22 — Monday
1:00 p.m. ACT test for freshmen who have not previously taken this test and had scores reported to EKU — Combs 318.
- August 23 — Tuesday
8:00 a.m. Registration of upper division and graduate students.
10:30-12 noon Previously enrolled lower division students whose schedules were not approved in the spring should see advisors in their office.
1:00 p.m. Registration of lower division students.
- August 24 — Wednesday
8:00 a.m. Registration of lower division students.
- August 25 — Thursday
Classes begin.
- August 25, 29, 30, 31 — Thursday, Monday, Tuesday & Wednesday
5-6 p.m. Registration of students enrolling in evening classes.
- August 25-September 2
Late registration and schedule changes.
- August 27 — Saturday
9-11:00 a.m. Registration of students enrolling in evening classes.
- August 29 — Monday
First day to apply for student teaching for Spring Semester, 1978.
- September 2 — Friday
Last day to enter a class.
Last day to change from audit to credit.
- September 5 — Monday
Labor Day — No Classes.
- September 14 — Wednesday
Last day to:
— drop a class without a grade.
— change to or from "pass-fail".
— change from credit to audit.
- September 23 — Friday
Last day to apply for student teaching for Spring Semester, 1978.
- September 24 — Saturday
Undergraduate Record Examination for first semester graduates.
- October 10 — Monday
Columbus Day — No Classes.

- October 15 — Saturday
Graduate Record Examination.
- October 21 — Friday
Mid-semester reports to Registrar
Admission to Candidacy for all Dec. 1977 graduates must be completed.
- October 28 — Friday
May and August, 1978, graduates must apply for graduation by this date in their college dean's office.
- November 22 — Tuesday
Classes close at the end of the day for Thanksgiving holiday.
Evening classes will meet as scheduled.
- November 28 — Monday
Classes resume.
Last day to drop a course.
- December 2 — Friday
Thesis deadline for Dec. 1977 graduates.
- December 3 — Saturday
Law School Admissions Test.
- December 5-7
Pre-registration for Spring Semester.
- December 9 — Friday
Oral/Comprehensive Reports for Dec. 1977 graduates due in Graduate School
- December 12-17
Final Examinations.

SECOND SEMESTER

- December 5-7
Pre-registration for Spring Semester.
- January 8 — Sunday
12:00 noon Dormitories open for all students.
- January 9 — Monday
10:00 a.m. All new students and former students not enrolled during the fall semester meet in Brock Auditorium, Coates Administration Building.
1:00 p.m. Registration of upper division and graduate students.
Lower division advisors will be available in their offices.
Advisors will be assigned to students not enrolled Fall Semester, 1977, in the Office for Undergraduate Studies, Second Floor, Jones Building.
- January 10 — Tuesday
8:00 a.m. Registration of upper division and graduate students.
1:00 p.m. Registration of lower division students.
- January 11 — Wednesday
8:00 a.m. Registration of lower division students.
- January 12 — Thursday
Classes begin.
- January 12, 16, 17, 18 — Thursday, Monday, Tuesday & Wednesday
5-6 p.m. Registration of students enrolling in evening classes.
- January 12-20
Late registration and schedule changes.
- January 14 — Saturday
9-11:00 a.m. Registration of students enrolling in evening classes.
- January 14 — Saturday
Graduate Record Examination.

- October 15 — Saturday
Graduate Record Examination.
- October 21 — Friday
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Admission to Candidacy for all Dec. 1977 graduates must be completed.
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1:00 p.m. Registration of lower division students.
- January 11 — Wednesday
8:00 a.m. Registration of lower division students.
- January 12 — Thursday
Classes begin.
- January 12, 16, 17, 18 — Thursday, Monday, Tuesday & Wednesday
5-6 p.m. Registration of students enrolling in evening classes.
- January 12-20
Late registration and schedule changes.
- January 14 — Saturday
9-11:00 a.m. Registration of students enrolling in evening classes.
- January 14 — Saturday
Graduate Record Examination.

- January 16 — Monday
First day to apply for student teaching for Fall Semester, 1978.
- January 20 — Friday
Last day to enter a class.
Last day to change from audit to credit.
- February 1 — Wednesday
Last day to:
— drop a course without a grade.
— change from credit to audit.
— change to or from "pass-fail".
- February 10 — Friday
Last day to apply for student teaching in Fall Semester, 1978.
- February 11 — Saturday
Undergraduate Record Examination for May and August graduates.
- February 20 — Monday
Washington's Birthday — No Classes.
- March 10 — Friday
Mid-semester reports to Registrar.
Admission to Candidacy for all May 1978 graduates must be completed.
- March 13-18
Spring Vacation.
- March 20 — Monday
8:00 a.m. Class work resumes.
- March 24 — Friday
Good Friday — No Classes.
- April 13 — Thursday
Last day to drop a class.
- April 21 — Friday
Thesis deadline for May 1978 graduates.
- April 22 — Saturday
Graduate Record Examination.
- April 24-26
Pre-registration for Fall Semester.
- April 28 — Friday
December, 1978, graduates must apply for graduation by this date in their college dean's office.
- May 3 — Wednesday
Oral/Comprehensive Reports for May 1978 graduates due in Graduate School.
- May 8-13
Final Examination.
- May 14 — Sunday
Baccalaureate services and commencement exercises.
- May 15-June 9
Spring Intersession.
- May 29 — Monday
Memorial Day — No Classes.

SUMMER SCHOOL

- June 10 — Saturday
Graduate Record Examination.
- June 12 — Monday
Summer School registration.

June 13 — Tuesday

8:00 a.m. Classes begin.

June 15 — Thursday

Last day to:

- register for a full load.
- enter a course.
- change from audit to credit.

June 21 — Wednesday

Last day to:

- drop a course without a grade.
- change to or from "pass-fail".
- change from credit to audit.

July 4 — Tuesday

No Classes.

July 14 — Friday

Last day to drop a course.

July 20 — Thursday

Thesis deadline for Aug. 1978 graduates.

July 26 — Wednesday

Oral/Comprehensive Reports for Aug. 1978 graduates due in Graduate School.

August 3 — Thursday

Commencement.

August 4 — Friday

Close of Summer School.

August 7-19

August Intersession.

1978 — University Calendar — 1979

FIRST SEMESTER

- August 19 — Saturday
8:30-9:30 a.m. Check-in for Graduate Assistants.
9:30 a.m. Assembly for faculty and Administrative Staff.
10:30 a.m. College and departmental meetings.
- August 20 — Sunday
10:00 a.m. Dormitories open.
3:30 p.m. President's greeting to parents, Hiram Brock Auditorium.
- August 21 — 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 upper division and graduate students.
- August 21 — Monday
1:00 p.m. ACT test for freshmen who have not previously taken this test and had scores reported to ECU — Combs 318.
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8:00 a.m. Registration of upper division and graduate students.
10:30-12 noon Previously enrolled lower division students whose schedules were not approved in the spring should see advisors in their offices.
1:00 p.m. Registration of lower division students.
- August 23 — Wednesday
8:00 a.m. Registration of lower division students.
- August 24 — Thursday
Classes begin.
- August 24, 28, 29, 30 — Thursday, Monday, Tuesday & Wednesday
5-6 p.m. Registration of students enrolling in evening classes.
- August 24-September 1
Late registration and schedule changes.
- August 26 — Saturday
9-11 a.m. Registration of students enrolling in evening classes.
- August 28 — Monday
First day to apply for student teaching for Spring Semester, 1979.
- September 1 — Friday
Last day to enter a class.
Last day to change from audit to credit.
- September 4 — Monday
Labor Day — No Classes.
- September 13 — Wednesday
Last day to:
— drop a class without a grade.
— change to or from "pass-fail".
— change from credit to audit.
- September 22 — Friday
Last day to apply for student teaching for Spring Semester, 1979.
- September 23 — Saturday
Undergraduate Record Examination for first semester graduates.
- October 9 — Monday
Columbus Day — No Classes.

- October 20 — Friday
Mid-semester reports to Registrar.
Admission to Candidacy for all Dec. 1978 graduates must be completed.
- October 21 — Saturday
Graduate Record Examination.
- October 27 — Friday
May and August, 1979, graduates must apply for graduation by this date in their college dean's office.
- November 21 — Tuesday
Classes close at the end of the day for Thanksgiving holiday.
Evening classes will meet as scheduled.
- November 27 — Monday
Classes resume.
Last day to drop a course.
- December 1 — Friday
Thesis deadline for Dec. 1978 graduates.
- December 2 — Saturday
Law School Admissions Test.
- December 4-6
Pre-registration for Spring Semester.
- December 8 — Friday
Oral/Comprehensive Reports for Dec. 1978 graduates due in Graduate School.
- December 11-16
Final Examinations.

SECOND SEMESTER

- December 4-6
Pre-registration for Spring Semester.
- January 7 — Sunday
12:00 noon Dormitories open for all students.
- January 8 — Monday
10:00 a.m. All new students and former students not enrolled during fall semester meet in Brock Auditorium, Coates Administration Building.
- January 8 — Monday
1:00 p.m. Registration of upper division and graduate students.
Lower division advisors will be available in their offices.
Advisors will be assigned to students not enrolled Fall Semester, 1978, in the Office for Undergraduate Studies, Second Floor, Jones Building.
- January 9 — Tuesday
8:00 a.m. Registration of upper division and graduate students.
1:00 p.m. Registration of lower division students.
- January 10 — Wednesday
8:00 a.m. Registration of lower division students.
- January 11 — Thursday
Classes begin.
- January 11, 15, 16, 17 — Thursday, Monday, Tuesday & Wednesday
5-6 p.m. Registration of students enrolling in evening classes.
- January 11-19
Late registration and schedule changes.
- January 13 — Saturday
9-11:00 a.m. Registration of students enrolling in evening classes.
- January 13 — Saturday
Graduate Record Examination.

- January 15 — Monday
First day to apply for student teaching for Fall Semester, 1979.
- January 19 — Friday
Last day to enter a class.
Last day to change from audit to credit.
- January 31 — Wednesday
Last day to:
— drop a course without a grade.
— change from credit to audit.
— change to or from "pass-fail".
- February 9 — Friday
Last day to apply for student teaching in Fall Semester, 1979.
- February 10 — Saturday
Undergraduate Record Examination for May and August graduates.
- February 19 — Monday
Washington's Birthday — No Classes.
- March 9 — Friday
Mid-semester reports to Registrar.
Admission to Candidacy for all May 1979 graduates must be completed.
- March 12-17
Spring Vacation.
- March 19 — Monday
8:00 a.m. Class work resumes.
- April 13 — Friday
Good Friday — No Classes.
- April 19 — Thursday
Last day to drop a class.
- April 20 — Friday
Thesis deadline for May 1979 graduates.
- April 23-25
Pre-registration for Fall Semester.
- April 27 — Friday
December 1979 graduates must apply for graduation by this date in their college dean's office.
- April 28 — Saturday
Graduate Record Examination.
- May 2 — Wednesday
Oral/Comprehensive Reports for May 1979 graduates due in Graduate School.
- May 7-12
Final Examinations.
- May 13 — Sunday
Baccalaureate services and commencement exercises
- May 14-June 8
Spring Intersession.
- May 28
Memorial Day — No Classes.

SUMMER SCHOOL

- June 9 — Saturday
Graduate Record Examination.
- June 11 — Monday
Summer School registration.

June 12 — Tuesday

8:00 a.m. Classes begin.

June 14 — Thursday

Last day to:

- register for a full load.
- enter a course.
- change from audit to credit.

June 20 — Wednesday

Last day to:

- drop a course without a grade.
- change to or from "pass-fail".
- change from credit to audit.

July 4 — Wednesday

No Classes.

July 13 — Friday

Last day to drop a course.

July 19 — Thursday

Thesis deadline for Aug. 1979 graduates.

July 25 — Wednesday

Oral/Comprehensive Reports for Aug. 1979 graduates due
in Graduate School.

August 2 — Thursday

Commencement.

August 3 — Friday

Close of Summer School.

August 6-18

August Intersession.

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1977-78

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JOSEPH R. SCHWENDEMAN, JR., B.S., M.S., Ph.D.	Dean for Undergraduate Studies



The University

Introduction	20
History	21
Purpose	22

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 seven decades of educational service to the Commonwealth. The institution is recognized as one of the nation's leading producers of teachers with a large number of its 35,000 graduates having entered the teaching profession.

Situated near the heart of the Bluegrass, Richmond is served by a network of major highways which makes Eastern easily accessible from all parts of Kentucky and surrounding states. Richmond is 26 miles southeast of Lexington, Kentucky, and Interstate Highways I-75 (North-South) and I-64 (East-West) makes the metropolitan areas of Cincinnati, 112 miles to the North, and Louisville, 110 miles to the West, within convenient distance by automobile. Richmond is also served by U.S. Route 25 from Southeastern Kentucky and Kentucky Route 52 from the East and West. The completion of the Kentucky Turnpike, Mountain, Daniel Boone and Cumberland Parkways, provides even greater convenience in automobile travel to Richmond, since the city is located near the convergence of these arterial highways into the interstate systems.

Richmond, the county seat of Madison County, is an expanding community of approximately 20,000 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

Central University College offers courses designed to meet general University requirements and create meaningful learning situations. The primary curricular offerings of the College are the General Studies courses in Humanities, Science, and Social Science. The College also administers the Department of Learning Skills and the Department of Military Science.

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 instruc-

tion 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.

Office for Economic College, Washington, D.C.

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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) Counseling 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

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.

Graduate Assistantships

Graduate assistantships are available to unusually well qualified students in some departments. Duties may include laboratory supervision, teaching, and research-related tasks. Applications for assistantships may be obtained from the Dean of the Graduate School. Candidates for assistantships must be able to support applications with Graduate Record Examination scores.*

*Scores on the Undergraduate Record Examination are considered equivalent to "GRE" scores.

Graduate assistants who earn their assistance through work in the residence halls are required to live in dormitory housing provided by the University.

Students holding a graduate assistantship should not carry a combined teaching and course load in excess of fifteen semester hours. A non-teaching assignment of sixteen to twenty hours of work per week is considered the equivalent of a three hour teaching load.

Applicants must meet all the requirements for admission to the Graduate School prior to being awarded an assistantship.

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.

Phi Delta Kappa Scholarship

The Eastern Kentucky University Chapter of Phi Delta Kappa, an education fraternity, awards a full tuition scholarship each year to a full-time graduate student in education. Inquiries may be sent to the Graduate Office. Applications are not considered until the student has completed one semester of graduate study.

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 enrollment 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, and volleyball.

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, Delta Psi Kappa, Delta Sigma Rho, Eta Sigma Gamma, Gamma Theta Upsilon, Iota Lambda Sigma, Kappa Delta Pi, Kappa Mu Epsilon, Lambda Sigma Society, 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, Association for Law Enforcement, Association of the U.S. Army, Athenian Shield, Biology Club, Caduceus Club, Chemistry Club, Counter-Guerilla Raiders, Delta Omicron, Dickey Chapelle Society, ECU Association 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 Exceptional Children, Student National Education Association, Interior Design Club, University Art Club, University Players, Phi Epsilon Kappa, Finance Club, Human Development and Family Relations Club, Psychology Graduate Student Organization, Social Work Club, Society of Manufacturing Engineers, Political Science Club, Rho Epsilon, Masters of Business Administration Association.

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

ACTIVITY ORGANIZATIONS

Catalina Club, College Democrats, College Republicans Club, E Club, Eastern Dance Theatre, Eastern Progress Staff, Little Colonels, Milestone Staff, University Ensemble, Cho Sun Cats, Civitan, ECU 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, CIRUNA, Sigma Tau Alpha, Explorer Post #634, International Student Association, Lambda Alpha Epsilon, SIMS, EKU Sports Association, Society for Human Equality, Veterans Club, and Orienteering Club.

Service Organizations: Kappa Delta Tau, Circle K International, Men's Interdormitory Council, Student Association, Women's Interdormitory Council, Panhellenic 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, 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, Sigma Pi colony, Lambda Chi Alpha colony and Pi Beta Phi.

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 the 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, academic department chairmen, student publications, the campus radio station and other forms of announcement, while alumni periodically receive placement information and continue to have access to the University's free placement service.

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 35,000 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 Experiences, Dr. David L. Rush, Director; E. Teacher Admissions, Certification,

and Evaluation, Dr. Glynn Creamer, Director; F. Physical Education, Dr. Anne Uhlir, 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 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 of 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, LaRue 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. Correspondence with students; F. ID card photograph.

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 Graduate School

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 who intend to pursue a particular graduate program should refer to the section of this *Catalog* pertaining specifically to that program. Students not intending to fulfill requirements of specific programs may be admitted to the Graduate School in a special nondegree category, by meeting the requirements delineated in the section below entitled "General Admission Requirements."

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.

VISITING STUDENTS

Because of its unique programs and facilities, faculty, diversified institutes and workshops, Eastern is attractive to many students who have been previously admitted to other accredited graduate schools. In order for Eastern to officially enroll a visiting student for graduate credit, the student must file an application form and submit an official Visiting Student Certificate. The Visiting Student Certificate must bear the **SIGNATURE AND SEAL OF THE GRADUATE DEAN OF THE GRADUATE SCHOOL WHERE HE/SHE HAS BEEN ADMITTED**. Copies of the visiting student forms may be obtained from the Graduate School Office.

INTERNATIONAL STUDENT ADMISSION

International students who meet specific program requirements and for whom Eastern has appropriate programs at the graduate level are invited to make application. Such applications must be supported by satisfactory evidence of their qualifications to pursue a full course of study at this institution. Applications for admission of international students are not considered complete without **official** transcripts showing grades and degree awarded, **official** TOEFL (Test of English as a Foreign Language) scores, and **official** scores of the verbal and quantitative portions of the GRE (Graduate Record Examination). Students who are applying for a Master of Business Administration program must also provide **official** scores on the GMAT (Graduate Management Admission Test). Each of these examinations is given in a large number of centers throughout the world. Specific information on center locations, test dates, fees, and application materials should be requested from Educational Testing Service, Box 955, Princeton, N.J. 08540, U.S.A.

International students should apply several months in advance of their expected attendance date. Appropriate I-20 or DSP-66 forms will be issued after all official credentials have been received and the complete application has been reviewed and approved by the major department.

GRADUATE RECORD EXAMINATION

All degree candidates must submit scores on the aptitude section of the Graduate Record Examination* at the time of application for 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

*The Undergraduate Record Examination is accepted in lieu of the G.R.E. All Eastern seniors are strongly advised to take this examination.

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.

ACADEMIC LOAD

An academic load of nine to 15 hours is considered permissible during the regular semester for residence purposes. Graduate assistants are permitted to carry a maximum course load of 12 hours. During the summer session, students carrying six to nine hours are considered full-time. Various combinations of workshops, short term courses, and regular summer courses are permissible provided the total contact hours during any single instructional day does not exceed four hours. Any exceptions to maximum load limits stated must be made by the Dean of the Graduate School.

A minimum academic load of six semester hours of credit shall be regarded as full-time during an eight week summer term and a minimum of nine hours of such credit shall be regarded as a full academic load during a regular semester.

REGISTRATION

Graduate students should register on the dates stipulated in the University calendar. Registration packets should be obtained from the Office of the Graduate School; the advisor should approve and initial the Registrar's Schedule Card; the advisor and student bear responsibility for courses scheduled, subject to the policies and approval of the Graduate School; the student is responsible for clearance of motor vehicle, housing arrangements, and payments of all fees and assessments in accordance with prevailing University policy.

Students with interruptions of study on campus who wish to participate in registration should notify the Graduate School of their

plans to continue study, furnishing full names and Social Security numbers, at least three weeks in advance of the published registration dates.

PRE-REGISTRATION

Graduate students in good standing and new students admitted to their programs have the opportunity to pre-register for the Fall Semester and Spring Semester. Registration materials may be picked up in the Office of the Graduate School and classes selected in conference with the advisor on the following schedule (approximate):

Fall Semester	Mid-April
Spring Semester	Early-December

Students with interruptions of study on campus who wish to participate in pre-registration should notify the Graduate School of their plans to continue study, furnishing full names and Social Security numbers, at least three weeks in advance of the times specified above. Full-time students should watch "FYI", *Eastern Progress*, and bulletin boards for dates on registration.

A prerequisite to pre-registration is pre-advisement. The Graduate School reserves the right to suspend or alter registration orders not in consonance with the individual's planned program or in the instance of closed or cancelled sections. Program modifications necessitated by pre-registration should be accomplished through the regular drop-add procedure on the dates designated. Individuals who pre-register and later cancel the registration are liable for a charge of 10 per cent of the registration fee.

GRADE POINT AVERAGE

Candidates for a master's degree must have an average standing on all work attempted at ECU of at least 3.00 on a 4.00 scale. No credit shall be granted for a grade below C. Students may repeat a course to improve standing only with the explicit permission of their advisor and the Dean of the Graduate School.

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 of the Graduate School. Subsequent changes, while permissible, must be approved on the appropriate form by these parties in advance.

While the student should initiate candidacy proceedings, the committee chairman is responsible for the recommendation to the Graduate School and such intermediate bodies as exist. Admission to candidacy must be completed prior to midterm of the semester in which graduation is expected.

Admission to candidacy must be completed **prior** to scheduling of the comprehensive examinations.

LANGUAGE REQUIREMENTS

In graduate programs requiring competence in a foreign language, the requirement may be met in one of three ways: Twelve hours of college credit in an appropriate language may be accepted. A reading examination may be taken covering material appropriate to the discipline. Achievement of a grade of "B" in a designated course, offered during the fall semester, will be accepted as meeting the requirement.

Students must satisfy the language requirement prior to scheduling of the comprehensive examinations.

TIME REQUIREMENTS

A graduate student is expected to complete requirements for the master's degree no later than five years after beginning course work. The minimum time interval required for completion of a graduate degree shall be two semesters of full-time study.

MINIMUM HOURS REQUIRED

All master's degree programs, specialist's degree programs, and the sixth year programs for Rank I require a minimum of thirty semester hours.

At least half the course work required for any degree program must be satisfied with courses open only to graduate students (600 level).

MASTER'S THESIS

Students who submit a thesis in partial fulfillment of the master's degree must prepare it in conformity with the regulations approved by the Graduate Council. Two original approval pages bearing signatures of the graduate committee must be included with two typewritten, clear, unbound copies of the thesis and presented to the Graduate School Office at least **two** weeks prior to Summer Commencement and **three** weeks prior to the end of the Fall and Spring Semesters. These two copies are bound and become the property of the University Library. If any additional bound copies are desired by the student or his department, they should be presented directly to the Library or a commercial bindery.

Theses must be on paper of at least 50 per cent rag or cotton fiber content and must be in a form acceptable to the Graduate School. Instructions for the preparation of theses should be obtained from the Graduate Office **before** the thesis is typed. **Reproduction by multilith is strongly recommended.**

Theses must be developed under the direction of a member of the Graduate Faculty.

APPLICATION FOR MASTER'S OR SPECIALIST DEGREE

A student planning to receive the master's or specialist degree in May should apply before the end of the Fall semester. Candidates for the August Commencement should apply not later than the beginning of the Spring semester. Applications should be filed in the Office of the Graduate School. Fees are to be paid at the Business Office and receipts presented in the Office of the Graduate School at the time the applications are filed. Applications received after the published deadlines will automatically be changed to the next graduation list.

Students will be considered candidates for graduation only if they have a graduate gradepoint average of 3.0 or higher at the inception of the term prior to their scheduled commencement.

COMPREHENSIVE EXAMINATION(S)

All candidates shall perform satisfactorily on a written and/or oral examination of the contents of their program of studies. In some instances, the defense of the thesis shall suffice. Particulars are specified by program. Comprehensives are not to be given prior to admission to candidacy. Comprehensives are scheduled **after application for the degree has been filed** and evidence exists indicating that the student should complete all degree requirements during the term in

question. Committee chairmen should file the Schedule of Oral/Comprehensive Examination in the Graduate School Office with copies to the student and committee members at least **two weeks prior to the examination.**

Committee chairmen shall certify satisfactory completion of the comprehensives to the Dean of the Graduate School no later than ten days in advance of Commencement.

A review period of not less than 60 days nor more than one year is usually required of candidates who fail the comprehensives initially.

TRANSFER OF CREDIT

Candidates for the master's and specialist's degrees are restricted to a maximum of six semester hours of credit by transfer of work completed at another accredited institution. Official copies of transcripts must be submitted before any transfer credit can be accepted.

Credits earned at other institutions may be transferred only when grades of "B" or better have been earned.

In all cases, course work so completed must be acceptable to the student's graduate committee.

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.

CHANGE OF SCHEDULE

The University reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, to divide classes if the enrollment is too large for efficient instruction, and to change instructors when necessary. Additional courses will be organized if the demand is sufficient.

WITHDRAWAL FROM THE UNIVERSITY

Students who find it necessary to leave the University under any conditions must obtain and complete an official Withdrawal Card from the Office of Student Affairs. Students not officially withdrawing shall receive grades of "F" for the semester's course load.

SECOND MASTER'S DEGREE REQUIREMENT

Students desiring to pursue a second master's degree at Eastern Kentucky University shall have completed all requirements for the first master's degree at Eastern or other accredited university. In general, the same basic requirements for general admission, residence, admission to candidacy, and other conditions previously stated in this catalog relative to the first master's degree are also applicable to the second degree with the following exceptions:

1. A maximum of twelve semester hours of completed graduate work from the first master's degree may be applied toward the second degree if such courses are appropriate for the second program and are approved by the graduate advisor.
2. If the second master's degree involves certification (e.g., the Master of Arts in Education Degree) all requirements for the certificate must be met prior to the completion of the degree.

Candidates for a second master's degree should file application for admission to graduate school and identify their second program prior to registration for additional coursework. The student should then contact the chairman of the department offering the second program and plan a complete program of studies. Individual programs have specific requirements which must be met before pursuing a second master's degree. Normally, any deficiencies in preparation for a second master's degree must be resolved during the first enrollment.

SPECIALIST DEGREE REQUIREMENTS

The University offers advanced graduate work leading to the Specialist Degree. Beginning graduate students interested in two year programs with special preparation for teaching or professional service opportunities in post-secondary technical schools, junior or senior colleges should seek early advisement in order to assure proper program development.

Candidates for specialist degrees must possess an undergraduate grade point average of at least 2.5.

Candidates for specialist degree status must offer a graduate grade point average of 3.3.

Prior to admission to candidacy for the Specialist Degree, students must present a score on the combined aptitude tests of the Graduate Record Examination at the level of the 65th percentile, a value derived from scores achieved by Eastern seniors within programs.

Twelve hours of course work must be completed prior to graduation after admission to candidacy for the degree.

JOINT DOCTORAL PROGRAMS

Eastern Kentucky University in cooperation with the University of Kentucky, offers the degree, Doctor of Education. The graduate student may make application for admission to the program after completion of 18 hours of graduate work or subsequently.

Admission to the program is considered by a joint screening committee selected from faculty representing the two institutions.

The candidate may continue in residence at Eastern Kentucky University for one school year, completing a maximum of 30 semester hours beyond the master's degree, prior to transfer to the University of Kentucky.

Throughout the program term, the student shall be enrolled in both schools but will pay fees only to the resident University.

The College of Law Enforcement has also established joint doctoral programs in criminal justice with Michigan State University and the University of Maryland. Each cooperative Ph.D. program is designed to provide emphasis on different areas of specialization within the field. Programs differ in requirements at the respective institutions. Interested students should contact the College of Law Enforcement or the Graduate School for more specific information.

In each of the joint doctoral programs, the final degree is awarded by the participating university.

Catalog Applicable.—A student will be governed by the catalog in force during the school year in which he is admitted 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 Graduate School.



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College of Applied Arts and Technology

Kenneth S. Hansson, Dean

Departments within the College of Applied Arts and Technology offer programs leading to Master of Science and Specialist in Technology Degrees. The Department of Industrial Education and Technology has programs leading to the Master of Science Degree in the fields of Industrial Education and Industrial Technology and the Specialist in Technology Degree in Industrial Education.

The Departments of Home Economics and Industrial Education and Technology provide specialized courses in support of graduate programs in their respective disciplines leading to the Master of Arts in Education Degree.

Note that 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.

Agriculture (AGR)

DWIGHT G. BARKLEY, Chairman

The Department of Agriculture provides courses at the graduate level in technical agriculture and horticulture. Students receiving graduate credit must meet additional specific requirements.

Course Descriptions

AGR AGRICULTURE

- 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 retaken 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.

AGR AGRICULTURE

- 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

- 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)

, Chairman

The Department of Home Economics provides courses at the graduate level in Child Development and the Family; Interior Design and Housing; Nutrition, Foods and Food Administration; and Textiles, Clothing, and Fashion.

The Master of Arts in Education degree with an emphasis in Home Economics is offered in the College of Education with the cooperation of the Department of Home Economics. The requirements for the M.A.Ed. degree may be found in the College of Education section of this catalog.

Course Descriptions

CDF CHILD DEVELOPMENT AND THE FAMILY

- 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 retaken by graduate students to a maximum of six hours.

CDF CHILD DEVELOPMENT AND THE FAMILY

- 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.
- 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 retaken 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 retaken 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

- 550 Home Economics Workshop: _____. One to six hours. A.**
Focus will be on concentrated work in an area of home economics. Students may retake course up to maximum of six hours in same area. Workshop requirements will be designed to designate between graduate and undergraduate credit.
- 555 Seminar in Consumer Economics. Three hours. A.**
May be retaken 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 retaken by graduate students to a maximum of six hours.

IDH INTERIOR DESIGN AND HOUSING

- 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 retaken 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

- 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.

NFA NUTRITION, FOODS AND FOOD ADMINISTRATION

- 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.
- 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 retaken 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 retaken 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 retaken 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 retaken by graduate students to a maximum of six hours.

TCF TEXTILES, CLOTHING, AND FASHION

- 502 Textiles for Architectural Interiors. Three hours. A.**
Prerequisite: Approval of instructor.
Characteristics, properties, specifications, and uses of textiles for architectural interiors.
- 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.

TCF TEXTILES, CLOTHING, AND FASHION

- 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 retaken by graduate students to a maximum of six hours.

Industrial Education and Technology (IET)

CLYDE O. CRAFT, Chairman

Major work leading to satisfaction of requirements for the degrees of Master of Science in industrial education, Master of Science in industrial technology, and Specialist in Technology (industrial education) is offered by the Department.

The Master of Arts in Education degree with an emphasis in Industrial Arts Education is offered in the College of Education with the cooperation of the Department of Industrial Education and Technology. The requirements for the M.A.Ed. degree may be found in the College of Education section of this catalog.

The Master of Science Degree in industrial education is available in three options:

Option I is designed to meet the needs of experienced and prospective teachers of technical subjects in technical institutes, junior colleges, and similar institutions. By pursuing the program, the student has the opportunity for advanced graduate study in such technical areas as woods, metals, graphic arts, electronics, drafting, and design. The program is the logical prerequisite for the student interested in the Specialist in Technology Degree.

Option II is designed to meet the needs of experienced and prospective vocational industrial-technical teachers. By pursuing the program, the student broadens his professional and technical preparation.

Option III is designed to meet the needs of the experienced and prospective vocational education administrator. In addition to providing the student the opportunity for advanced study in the field of vocational administration, the program fulfills the graduate curriculum requirements specified for vocational administration certification in the State of Kentucky.

The Master of Science Degree in industrial technology is designed for the person who is working, or plans to work, in industry. The program is planned to provide opportunities for advanced study in technical subjects. Programs are planned individually and it is possible to include study from appropriate supporting disciplines such as business, psychology, mathematics, or the sciences.

The Specialist in Technology Degree is designed for the experienced or prospective technical teacher in technical institutes, junior colleges, four-year colleges, and other post-secondary institutions. This program, as a capstone to the Master of Science in industrial education or a similar program, provides opportunities for extending technical and professional preparation.

Special Program Requirements*

MASTER OF SCIENCE IN INDUSTRIAL EDUCATION — Option I and Option II

For Admission — Applicants are expected to present a major in industrial education at the undergraduate level and to provide evidence of acceptable professional and scholarly aptitude. An overall grade point average of 2.4 is normally expected.

For Admission to Candidacy — Satisfactory scores on the Graduate Record Examination Aptitude Tests are required. Attributes related to professional promise will be reviewed.

For Program — Individual plans of study will include work from four areas: I. Technical Education Core (six hours — IET 502, IET 530); II. Technical Specialty ** (nine hours — Selected electives from the technology of Graphic Arts, Woods, Electricity/Electronics, Metals, Design, or Drafting); III. College Teaching (nine hours EHE 690, 695, 697) or Vocational-Technical Teaching (nine hours EDF 669 and two of the following courses: ESE 564; IET 561, 661, 662, 663); IV. Supporting Work (six hours — Technical Specialty II, Research, Field Study, or Related Option).

For Thesis — Students who expect to continue graduate study to completion of the Specialist in Technology program may complete the research requirement as part of the master's curriculum. The thesis is optional in the Master of Science program, however.

For Comprehensives — The candidate will have an opportunity to demonstrate professional growth through a written and/or oral examination covering the four program components during the term in which graduation is scheduled.

MASTER OF SCIENCE IN INDUSTRIAL EDUCATION — Option III

For Admission — Applicants must present a major in a vocational education subject at the undergraduate level, be eligible for certification as a vocational education teacher and provide evidence of acceptable professional and scholarly aptitude. An overall grade point average of 2.4 and at least two years of successful vocational education teaching experience is normally expected.

For Admission to Candidacy — Satisfactory scores on the Graduate Record Examination Aptitude Tests are required. Attributes related to professional promise will be reviewed.

For Program — Individual plans of study will include work from three areas: I. Technical Education Core (six hours — IET 502 and IET 530); II. Administrative Core (eighteen hours — IET 663, IET 661, EDF 669, EPG 622 and 6 hours to be elected from the following: IET 561 or EPY 616; IET 573, EAD 600 or EAD 601, EAD 611, EPY 652, EDF 650, and ESE 612); III. Supporting Work (six hours to be elected from a vocational education field other than the undergraduate preparation).

For Thesis — While the thesis is not required, students with special research interests are encouraged to consider a thesis in lieu of the aforementioned six hours of supporting work.

For Comprehensives — The candidate will have an opportunity to demonstrate professional growth through a written and/or oral examination covering the three program components during the term in which graduation is scheduled.

MASTER OF SCIENCE IN INDUSTRIAL TECHNOLOGY

For Admission — Applicants are expected to present appropriate prerequisite preparation. In some instances, such work will consist of a major in industrial education with a specialization in technology. The program may have appeal to individuals with engineering backgrounds also. An overall grade point average of 2.4 is normally expected. Conditional admissions provisions exist.

For Admission to Candidacy — Satisfactory scores on the Graduate Record Examination are required. The Advisory Committee will appraise attributes related to professional and technical promise.

For Program — Individual plans of study will include work from four areas: I. Technical Education Core (six hours — IET 502, IET 530); II. Technical Specialty ** (nine hours — Selected electives from the technology of Graphic Arts, Woods, Electricity/Electronics, Metals, Design or Drafting); III. Supporting Discipline (nine hours — Selected electives from Business, Psychology, Mathematics, Statistics, Science, etc.); IV. Additional Supporting Work six hours — Thesis, or research, or Technical Specialty II, or Second Supporting Area).

For Comprehensives — The candidate will have an opportunity to demonstrate professional growth through a written and/or oral examination covering the various program components during the term in which graduation is scheduled.

SPECIALIST IN TECHNOLOGY

For Admission — Applicants are normally expected to present one year of graduate preparation in the field of industrial education and to possess unusual professional and scholarly competence. An overall undergraduate grade point average of 2.5 is expected.

For Admission to Candidacy — Students should present a 3.3 grade point standing on graduate work attempted. A score on the combined aptitude tests of the Graduate Record Examination at a level above the 65th percentile, based on scores achieved by Eastern Kentucky University seniors within programs. Commitment to the program as evidenced by experience, interviews with the committee and letters of recommendation must be demonstrated.

For Comprehensives — The candidate will have the opportunity to demonstrate professional maturity through a written and/or oral examination covering program components during the term in which graduation is anticipated.

*Students must also meet the general requirements of the Graduate School

**A student pursuing a Master of Science degree where specialized technical work is required (IET 600 level technical courses), is expected to have completed a minimum of fifteen semester hours in the same (or similar) specialty at the undergraduate level. Students having extensive teaching and/or industrial experience may choose to be examined on their prerequisite technical competency. In addition, in view of the rapidly changing technology in certain fields, students are admitted to graduate study in a technical specialty only by consent of the Department Chairman and the major professor in the technical discipline.

Students who do not meet the criteria for enrollment in graduate technical courses must alleviate deficiencies by enrolling in appropriate undergraduate courses as determined by consultation with the major professor. These courses will not apply toward meeting graduate degree requirements.

Course Descriptions

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

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.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 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 retaken 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.
- 504 Industrial Education Staff Exchange. Two to six hours. A.**
For in-service teachers enrolled in a staff exchange program designed to update technical skills in an appropriate industrial setting. Written reports are required. First week of exchange equal to two semester hours of credit with one additional hour of credit for each additional week. Satisfactory-Unsatisfactory grading.
- 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.
- 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 woodworking 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.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 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.
- 581 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.
- 589 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.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 591 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.
- 611a 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.
- 611b 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.
- 611c 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.
- 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.

- IET INDUSTRIAL EDUCATION AND TECHNOLOGY**
- 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.
- 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.

- IET INDUSTRIAL EDUCATION AND TECHNOLOGY**
- 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.
- 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.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 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 retaken 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 Zygo, Magniglo, dye penetrant, magniflux, X-ray, ultrasonic, nucleonic, and radiographic, destructive tests including tensile strength, compression, shear, torsion, and impact resistance; specimen preparation.
- 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.

IET INDUSTRIAL EDUCATION AND TECHNOLOGY

- 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.

College of Arts and Sciences

Frederic D. Ogden, Dean
Glenn O. Carey, Associate Dean

Departments within the College of Arts and Sciences offer programs leading to these degrees: Master of Arts, Master of Science, Master of Music, and Master of Public Administration.

The Departments of Anthropology, Sociology and Social Work, English, Foreign Languages, Geography, History, Political Science, and Psychology offer programs leading to the Master of Arts Degree.

The Departments of Biological Sciences, Chemistry, Geology, Mathematical Sciences, Physics, and Psychology offer programs leading to the Master of Science Degree.

The Department of Music offers a program leading to the Master of Music Degree.

The Department of Political Science offers a program leading to the Master of Public Administration Degree. Students may emphasize the general field of public administration or may elect options in judicial administration or public and environmental health.

The Master of Arts in Education Degree with an emphasis in a specific subject and the Master of Music Education Degree are offered in the College of Education with the cooperation of various departments in the College of Arts and Sciences. (The regulations for these degrees may be found in the College of Education section of this catalog.) These departments are Anthropology, Sociology and Social Work, Art, Biological Sciences, Chemistry, English, Foreign Languages, Geography, Geology, History, Mathematical Sciences, Music, Physics, and Political Science.

Courses offered for graduate credit by departments in the College are listed below by departments.

Note that 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.

Arts and Sciences Courses (CAS)

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 retaken for total of six hours.

Anthropology, Sociology, and Social Work (ANT, SOC, and SWK)

VANCE WISENBAKER, Chairman

In cooperation with the Graduate School, the Department of Anthropology, Sociology, and Social Work offers work leading to the Master of Arts Degree in Sociology.

The Master of Arts in Education Degree with an emphasis in Sociology or 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 this catalog.

Special Program Requirements*

MASTER OF ARTS

The Department of Anthropology, Sociology and Social Work offers a Master of Arts Degree with emphasis in the following areas: urban and community development, demography, and social psychology. The objectives of this program are to increase the student's knowledge of theory, method and knowledge in sociology, to enable him to do reasonable research in the area and to increase understanding of the nature of social life.

For Admission — An undergraduate grade point overall standing of 2.75 is required with at least a 3.00 in the major area. Conditional admission provisions exist. Applications for admission are acceptable from students with undergraduate majors in the social sciences with appropriate background courses as determined by the department. Inadequate undergraduate background may require the taking of undergraduate courses.

For Admission to Candidacy — Prior to admission, a student shall have taken the Undergraduate Record Examination field test or the Graduate Record Examination advanced test in sociology and achieved a satisfactory score. Satisfactory performance on either the Undergraduate Record Examination or the Graduate Record Examination aptitude test is expected.

For Program — Each student must complete thirty semester hours, including SOC 630, 634, and either 561 or 644. Six hours of this requirement must be met by SOC 698 and 699, which entail the completion of a satisfactory thesis.

*Students must also meet the general requirements of the Graduate School.

Twenty-four hours of courses including thesis are to be successfully completed in sociology with not more than six hours to be taken in related areas. Students considering future teaching in community or junior colleges are encouraged to select six hours of electives from appropriate courses in higher education (EHE 690, 691, 695, 696, 697).

For Language and Statistics — A student must pass either a reading examination in a foreign language or a competence examination in statistics, as determined by his advisor. Ordinarily competence in statistics will be demonstrated by passing the final examination in SOC 630.

For Comprehensive — The satisfactory completion of a comprehensive examination of the course program is required. This written examination will be followed by an oral examination over the thesis content.

For Thesis — An acceptable thesis is required.

Course Descriptions

ANT ANTHROPOLOGY

- 555 History of Anthropological Theory. Three hours. A.**
Prerequisite: ANT 120 and 201, 210 or 211; 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 120 and 201; or approval of department. May be taken 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.
- 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

- 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.

SOC SOCIOLOGY

- 561 Sociological Theory II — Contemporary Writers. Three hours. II.**
Prerequisite: Nine hours in sociology or graduate standing.
Current state of sociological theories; recent formulations, controversies and trends.
- 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 taken 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.
- 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.
- 626 Sociology of Deviance. Three hours. A.**
Prerequisite: Approval of instructor.
The course deals with an understanding of the social aspects of the varieties of deviant experience. One goal will be the acquisition of a perspective for explaining deviance. The relevance of this perspective for understanding substantive areas of deviance such as mental illness, crime, delinquency, alcoholism, etc., will be explored. To understand the nature of deviance and its relationship to the social fabric will be the major purpose of the course.
- 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.
- 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.
- 638 Sociology of Health and Medicine. Three hours. A.**
Prerequisite: Approval of instructor.
An in-depth analysis of the groups, occupations, and institutions oriented toward health and illness; an examination of high-risk populations such as the aged and the poor; an evaluation of alternative medical systems.
- 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.

SOC SOCIOLOGY

- 644 Theory Construction in Sociology. Three hours. A.**
Prerequisite: Approval of instructor.
Analysis of various approaches to integrating theory and research; examines problems of bridging the ideational-existential gap; emphasizes methods of building theory from empirical findings.
- 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.
- 650 Selected Topics: _____ . Three hours. A.**
Prerequisite: Approval of instructor.
Course content to be determined by student interest and instructor specialty. May be taken for a maximum of six hours provided the subject is different each time.
- 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

- 500 Social Welfare Policy. Three hours. I, II.**
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.
- 590 Directed Study. One to three hours. A.**
May be retaken 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.
- 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.
- 690 Social Agency Experience. Three hours. A.**
Formerly SWK 505.
Prerequisites: SWK 500 and 608 or approval of instructor.
Supervised experience in a social agency approved by Practicum Coordinator. Sixteen hours per week plus weekly on-campus seminar. Application must be made through Practicum Coordinator the semester prior to placement; for graduate students in School Social Work Program only.

Art (ART)**DANIEL N. SHINDELBOWER, Chairman**

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 this catalog.

Course Descriptions**ART ART**

- 503 Independent Work in Painting. Three hours. A.**
Prerequisite: ART 403.
Emphasis is placed upon individual expression. May be retaken for a maximum of nine hours.
- 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 retaken for a maximum 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 retaken for a maximum of nine hours.
- 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.
- 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)

EDWIN A. HESS, Chairman

The Department of Biological Sciences offers the Master of Science degree. The student may study in the areas of botany, zoology, physiology, genetics, microbiology, aquatic biology, wildlife ecology or other related areas of study in the biological sciences.

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 this 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.

The prospective graduate student should obtain a copy of "Introduction in Graduate Programs in Biological Sciences" by contacting the Chairman, Department of Biological Sciences. This guide provides detailed information about the programs and the responsibilities of the graduate student.

Scholastic requirements of the Graduate School prevail for the non-degree registration in courses in the Department of Biological Sciences.

Special Program Requirements*

MASTER OF SCIENCE

For Admission — The following special requirements normally are necessary for admission to the Master of Science program in Biology:

A 2.75 grade point average is generally preferred.

Completion of a satisfactory major in the biological sciences with appropriate supporting science.

Three letters of recommendation from professors or other professionals familiar with the student's scientific aptitude and development.

For Candidacy — In order to receive committee recommendation for admission to candidacy for the degree, the student must:

Complete, satisfactorily, the Advanced Test in Biology of the Graduate Record Examination.

Demonstrate aptitude for advanced study to a committee of biology faculty before 15 graduate semester hours have been completed.

For General Information

A minimum of 30 semester hours is required for the degree. The student is expected to complete coursework necessary to gain competency in the area of biological study selected.

An approved foreign language or the departmental option is required.

*Students must also meet the general requirements of the Graduate School.

No more than six hours of coursework may be applied toward the degree requirements in which grades of "C" are earned.

For Comprehensives — Students will complete two examinations: covering the academic field of biology, and an oral examination covering the student's field of research and thesis.

Course Descriptions

BIO BIOLOGICAL SCIENCES

- 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. II in even years.**
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. One lecture and four laboratory 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.

BIO BIOLOGICAL SCIENCES

- 527 Immunology. Three hours. A.**
Prerequisite: BIO 221, CHE 361 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.
- 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. A.**
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. A.**
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.

BIO BIOLOGICAL SCIENCES

- 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.
- 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.**
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. II.**
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.
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 retaken for a maximum of four 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 retaken for maximum of six hours of credit. Permission must be obtained from the instructor and the departmental chairman prior to registration.

BIO BIOLOGICAL SCIENCES

- 601 Scientific Literature and Writing in 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.
- 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 retaken 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.**
Prerequisite: BIO 601.
Required of all graduate students; may be retaken 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.**
Students must apply research in the biological fields towards the preparation of a graduate thesis as directed by the thesis director. May be retaken for a maximum of six hours credit.

Chemistry (CHE)

HARRY M. SMILEY, Chairman

The Department of Chemistry offers the Master of Science Degree in Chemistry.

The Master of Arts in Education Degree with an emphasis in Chemistry is offered in the College of Education with the cooperation of the Department of Chemistry. The regulations for the degree may be found in the College of Education section of this catalog.

The Department of Chemistry 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.

The Master of Science program should provide each candidate with depth of understanding in several branches of chemistry and a background of theory in at least one area of chemistry sufficient to permit independent study and creative thinking. The research phase of the program should provide each candidate the opportunity to integrate the use of modern chemical literature with fundamental laboratory techniques and, thereby to arrive at the threshold of independent research.

Special Program Requirements*

MASTER OF SCIENCE

For Admission— Applicants should provide evidence of ability to pursue graduate study. An overall grade point average of 2.75 is desired, but other evidence of an applicant's ability will also be considered. Applicants offering a 3.0 grade point average for upper division work in chemistry may be considered providing they meet general requirements for admission to the Graduate School. Other applicants will be considered on an individual basis.

For Prerequisites— Applicants should have an undergraduate major in chemistry which includes the chemistry courses required for an accredited program by the American Chemical Society.

The following requirements must be completed prior to admission to graduate study: two semesters of introductory chemistry, one year of organic chemistry, and one year of physical chemistry.

Additionally, CHE 514, 525, and 565 must be included in the graduate program unless credit has been earned previously in the specific courses or their equivalents.

For Admission to Candidacy— The aptitude tests of the Graduate Record Examination must be taken during or prior to the first semester of graduate enrollment.

For Program— A minimum of 30 semester hours of graduate credit is required. The program shall include the following:

Core courses in Mechanistic Chemistry (CHE 560), Theoretical Chemistry (CHE 611), Separation Methods (CHE 624), Spectroscopy (CHE 625), Structure and Reactivity (CHE 651), and Thermodynamics (CHE 673). Six elective credit hours in 600 level chemistry courses related to the students area of research.

*Students must also meet the general requirements of the Graduate School.

Two credit hours of graduate seminar.

A maximum of 6 credit hours of graduate research (CHE 695). Sufficient electives, approved by the graduate counselor, to attain a minimum of 30 credit hours. These credits should be from graduate level courses in chemistry, the related sciences, or mathematics.

Language — An approved language is required.

A working knowledge of a computer language may be substituted for this requirement. This requirement is met by passing MAT 172, 173, and 372, or equivalent, with grade of C or better, or by writing and executing a computer program solution of a problem of significant chemical interest assigned by the Department of Chemistry.

Thesis — A thesis based upon the student's research program must be submitted. In addition to the copies required by the Graduate School, two bound copies should be prepared for the director of the student's graduate research program.

Comprehensives — A final oral examination in defense of the thesis and related course work is required.

Course Descriptions

CHE CHEMISTRY

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.

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.

CHE CHEMISTRY

- 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.
- 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.
- Selected Topics in Chemistry. One to three hours. A.**
- 602 Selected Topics in Analytical Chemistry.**
- 603 Selected Topics in Biochemistry.**
- 605 Selected Topics in Inorganic Chemistry.**
- 606 Selected Topics in Organic Chemistry.**
- 607 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.
- 610 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.

CHE CHEMISTRY

- 611 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.
- 613 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.
- 624 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.
- 625 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.
- 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 retaken 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 retaken 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 retaken for a maximum of six credit hours.

English (ENG)

JOHN LONG, Chairman

The Department of English offers the Master of Arts in English.

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 this catalog.

The graduate student in English may prepare himself for a career of teaching on the college and pre-college levels and engage in literary research and composition on advanced levels.

Special Program Requirements*

MASTER OF ARTS DEGREE

The graduate program is designed to train the student in various areas of the discipline and provide him with both breadth and depth in English appropriate to the advanced level. Areas of study include English and American literature, comparative literature, the history and structure of the language, bibliography, creative writing, and literary criticism.

For Admission — Students should have completed an undergraduate major, or if they have not, be prepared to do additional hours to remove any deficiency in their undergraduate preparation. Ordinarily a 3.0 standing must have been achieved in upper division English courses taken.

To be eligible for the advanced degree, a student must achieve scores satisfactory to the Department in both the verbal Aptitude Test and the Advanced Literature Test of the Graduate Record Examination, or, in lieu of the latter requirement, the student must indicate special strengths which, in the judgment of the Department, are at least of equal importance to the achievement of satisfactory test scores on these examinations.

For Language — Students in either the thesis or non-thesis program must pass a language reading examination in a foreign language 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.

For Program Planning — Graduate work may be taken with or without a thesis. 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.

Students electing a thesis program may receive a maximum of six hours from English 698 and 699. Of the additional 24 hours required, at least 15 must be taken in British or American Literature or in Language to satisfy the requirements for a major. In addition at least 9 hours must be chosen from one of the following areas: British Literature, American Literature, Comparative Literature, Creative Writing, Criticism and Scholarship, and Language in order to satisfy the requirements for a minor. A student may not major and minor in the same area.

*Students must also meet the general requirements of the Graduate School.

The non-thesis student must choose a major of at least 15 hours in British Literature, in American Literature, or in Language. In addition 9 hours must be chosen from one of the following areas: British Literature, American Literature, Comparative Literature, Creative Writing, Criticism and Scholarship, and Language in order to satisfy the requirements for a minor. A student may not major and minor in the same area.

For Thesis — Those who submit a thesis in partial fulfillment of the Master of Arts Degree in English must prepare it in conformity with the regulations approved by the Graduate Council and the Department of English. Detailed information concerning the preparation and submission of the thesis may be procured in the office of the departmental chairman.

For Comprehensive Examination — Graduate students not electing a thesis are required to take a written comprehensive examination after the completion of 24 hours of course work, usually close to the end of the student's second semester of course work. Comprehensive examinations will be scheduled in November, April, and the fourth or fifth week of each summer session.

Graduate students electing to complete a thesis are required to give an oral defense of their thesis and to be examined orally on related course work. The oral examination will be scheduled approximately one month before the end of the student's final semester of graduate work for the degree.

Course Descriptions

ENG ENGLISH

- 502 Creative Writing I. Three hours. A.**
Prerequisite: ENG 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: ENG 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: ENG 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: ENG 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: ENG 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: ENG 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.

ENG ENGLISH

- 525 Age of Dryden and Pope. Three hours. A.**
Prerequisite: ENG 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.
- 526 Age of Johnson. Three hours. A.**
Prerequisite: ENG 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: ENG 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: ENG 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: ENG 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: ENG 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: ENG 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: ENG 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: ENG 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 retaken for a maximum of six hours credit provided that topic is different each time.
- 560 Continental Fiction. Three hours. A.**
Prerequisite: ENG 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: ENG 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.

ENG ENGLISH

- 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.
- 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.

ENG ENGLISH

- 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.
- 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

CHARLES L. NELSON, Chairman

The Department of Foreign Languages offers graduate programs leading to the Master of Arts Degree in French Language and Literature and Spanish Language and Literature.

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 this catalog.

French (FRE)

Special Program Requirements*

MASTER OF ARTS DEGREE

For Admission—Applicants are normally expected to present an undergraduate academic standing of 2.75 (A = 4.0). At least 18 hours of prior work in the language, above the elementary level, or equivalent proficiency is expected. Provisions for eliminating deficiencies exist.

For Candidacy—Satisfactory performance on the Undergraduate or Graduate Record Examination, including the Advanced Test in French, is prerequisite to admission to candidacy for the degree. Students are encouraged to meet this requirement prior to enrollment.

For Program—The minimum program shall consist of not less than 21 hours of French. The student has the option of completing a minor of nine hours or of taking a 30 hour program in French.

*Students must also meet the general requirements of the Graduate School.

All majors must take FRE 610. In addition, six semester hours of course work must be chosen from: FRE 505, 535, 540, and 550. Students may take a maximum of six hours credit in FRE 680.

Language Requirement — Students must pass a reading examination in a second foreign language determined in consultation with their advisor.

For Thesis — The thesis student must complete at least 12 hours of course work at the 600 level and may earn a maximum of three hours credit for FRE 698 and 699.

For Non-Thesis — The student who chooses not to write a thesis must complete at least 15 hours of course work at the 600 level.

For Comprehensives — All candidates for the degree must take a comprehensive examination, oral, written, or a combination, during the last term of residence.

Course Descriptions

FRE FRENCH

- 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.
- 610** **Bibliography and Research Methods. Three hours. A.**
- 620** **Seminar in 17th Century French Literature. Three hours. A.**
May be retaken for a total of six hours, provided subject matter is different.
- 630** **Seminar in 19th Century French Literature. Three hours. A.**
May be retaken for a total of six hours, provided subject matter is different.
- 635** **Seminar in 18th Century French Literature. Three hours. A.**
May be retaken for a total of six hours, provided subject matter is different.
- 640** **Seminar in 20th Century French Literature. Three hours. A.**
May be retaken for a total of six hours, provided subject matter is different.
- 660** **Seminar in Medieval French Literature. Three hours. A.**
May be retaken for a total of six hours, provided subject matter is different.

FRE FRENCH

- 670 **Seminar in 16th Century French Literature. Three hours. A.**
May be retaken 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 retaken for a maximum of six hours.
- 698 **Thesis I. Three hours. A.**
- 699 **Thesis II. Three hours. A.**

GER GERMAN

- 505 **Advanced Grammar and Composition. Three hours. A.**
Prerequisite: GER 360 or equivalent proficiency.
Topics for composition drawn from literary materials.
- 540 **Advanced Conversation. Three hours. A.**
Prerequisite: GER 340 or equivalent proficiency.
Topics for conversation drawn from literary sources.

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 retaken for a maximum of six hours provided the subject matter is different.

Spanish (SPA)**Special Program Requirements*****MASTER OF ARTS DEGREE**

For Admission—Applicants are normally expected to present an undergraduate academic standing of 2.75 (A = 4.0). At least 18 hours of prior work in the language, above the elementary level, or equivalent proficiency is expected. Provisions for eliminating deficiencies exist.

For Candidacy—Satisfactory performance on the Undergraduate or Graduate Record Examination, including the Advanced Test in Spanish, is prerequisite to admission to candidacy for the degree. Students are encouraged to meet this requirement prior to enrollment.

For Program—The minimum program shall consist of not less than 21 hours of Spanish. The student has the option of completing a minor or nine hours in a related field or of taking a 30 hour program in Spanish.

*Students must also meet the general requirements of the Graduate School.

All majors must take SPA 610, SPA 505, SPA 535. Students may take a maximum of six hours credit in SPA 680.

Language Requirement — Students must pass a reading examination in a second foreign language determined in consultation with their advisor.

For Thesis — The thesis student must complete at least 12 hours of course work at the 600 level and may earn a maximum of six hours credit for SPA 698 and 699 respectively.

For Non-Thesis — The student who chooses not to write a thesis must complete at least 15 hours of course work at the 600 level.

For Comprehensives — All candidates for the degree must take a comprehensive examination, oral, written, or a combination, during the last term of residence.

Because of the heavy load of course work for two semesters, a graduate student is encouraged to take at least six hours of the program during a summer session.

SPA SPANISH

- 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.
- 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).
- 610 Bibliography and Research Methods. Three hours. A.**

SPA SPANISH

- 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 retaken for a total of six hours.
- 671 Seminar in Latin American Literature. Three hours. A.**
 Special problems in Latin American literature. May be retaken 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 retaken for a maximum of six hours.
- 681 Travel-Study Program in Mexico. Three hours. A.**
 Prerequisite: Approval of department.
 May be retaken for a total of six hours.
- 698 Thesis I. Three hours. A.**
- 699 Thesis II. Three hours. A.**

Geography (GEO)

RONALD L. MARIONNEAUX, Chairman

The Department of Geography offers the Master of Arts Degree in Geography and an option in Planning Specialization.

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 this catalog.

Special Program Requirements*

MASTER OF ARTS

For Admission—Applicants who possess grade point averages of 2.75 on all undergraduate work or, in certain instances, 3.0 for upper division work, are eligible for admission. Provisions for conditional admission exist.

*Students must also meet the general requirements of the Graduate School.

Geographic background will be evaluated from the perspective of the undergraduate program required at Eastern Kentucky University.

For Admission to Candidacy — Satisfactory scores on the aptitude tests of the Graduate Record Examination are required. A departmental examination covering the general field of geography is administered during the first semester in residence and any deficiencies reflected should be satisfied or incorporated into the plan of study prior to admission to candidacy for the degree.

For Program — Both a thesis and non-thesis program are available. The following courses are required in both programs: GEO 553, 556, 650, 651, 653, and nine hours of seminar work in addition to GEO 651. The selection of seminars, in addition to other elective courses, will permit the graduate student to develop a program well aligned with his professional interests and/or professional opportunities. The major strength in this department is in applied geography, particularly in land use planning. The minimum length of the thesis program shall be 30 semester hours with an acceptable thesis required, or 33 semester hours if the candidate elects the non-thesis alternate plan. Courses in lieu of a thesis must be selected with the advice of the student's committee chairman. Provisions exist for an outside minor.

The Planning option encompasses 39 semester hours which include a 15 hour core program, a nine to 12 hour supporting minor, six hours of internship or a thesis, and six to nine hours of electives in the field of applied geography. The Geography core program includes GEO 553, 556, 651, PLA 650 and 653. Prior to working on the thesis or internship, a candidate must pass examinations covering planning and the planning process, geographical considerations in planning, and the supporting minor.

For Thesis — An acceptable thesis is required if a student selects the thesis master's program.

For Comprehensives — A final oral examination in defense of course work is required of all graduate students. Graduate students electing to write a thesis shall defend the thesis as part of those comprehensive examinations.

GEO GEOGRAPHY

- 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 retaken 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 retaken for a maximum of six hours if subject matter is different each time.

GEO GEOGRAPHY

- 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 retaken 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 retaken 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.
- 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.
- 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 retaken 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 retaken 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 retaken for a maximum of six hours if subject matter is different each time.

GEO GEOGRAPHY

- 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 retaken 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. CL PLA 650.
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 and Planning.** 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. Special emphasis, in the latter part of the course, will be directed toward the present thrust in applied geography, particularly the development of, the processes in, and the developing trends in urban and regional planning.
- 653 Theory and Models in Geography.** Three hours. **A. CL PLA 653**
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.
- 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 retaken for a maximum of six hours.

PLA PLANNING

- 650 Field and Research Methods in Planning.** Three hours.
Summer Field Camp. CL GEO 650.
Detailed reconnaissance field work, including classification of natural and cultural features, interview procedures, preparation of planning reports and maps based on field data. Library facilities and research are also included.
- 653 Theory and Models in Planning.** Three hours. **A. CL GEO 653.**
Prerequisite: Approval of department.
Survey and evaluation of current theories and models of planning significance, including the preparation of research designs having practical applications.

PLA PLANNING

- 695 Internship. Six hours. A.**
Student will work under departmental supervision in governmental, corporate, or private enterprises which are engaged in planning. A written report must be submitted to earn credit. The course may not be retaken.
- 699 Thesis. Three to six hours. I, II.**
Must be retaken for a total of six hours.

Geology (GLY)

DONALD C. HANEY, Chairman

The Department of Geology offers the Master of Science Degree in Geology and an option in Mining. Emphasis is placed upon solution of field problems through the use of specialties in the above areas.

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 regulations for the degree may be found in the College of Education section of this catalog.

The Department of Geology 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.

Special Program Requirements*

MASTER OF SCIENCE

For Admission — Applicants who possess grade point averages of 2.75 on all undergraduate work are eligible for admission. Applicants who have a 3.0 grade point average for upper division work in geology may be considered providing they meet general requirements for admission to the Graduate School. Provisions for conditional admission exist.

For Prerequisites — Students who have completed an undergraduate major in geology comparable to that required at Eastern Kentucky University will be accepted into the program. Students from other sciences or mathematics will be admitted, but they will be required to make up deficiencies in undergraduate geology.

For Candidacy — In order to receive recommendation for admission to candidacy, the student must:

Have satisfactorily completed the Graduate Record Examination or U.R.E.

Maintain a 3.0 grade point average through all graduate hours.

Have completed all background deficiencies as indicated.

For Comprehensive Examinations — A written comprehensive examination on related coursework and an oral examination in defense of the thesis or internship are required.

*Students must also meet the general requirements of the Graduate School.

GEOLOGY PROGRAM — a minimum of 30 semester hours of graduate credit is required. The program shall include the following:

Core courses in Igneous and Metamorphic Petrology (GLY 622); Sedimentology (GLY 512); Advanced Structure (GLY 510) or Geotectonics (GLY 610); one from Sedimentary Petrology (GLY 623), Seminar in Igneous and Metamorphic Petrology (GLY 680), and Advanced Paleontology (GLY 511); one from Clay Mineralogy (GLY 612), Geochemistry (GLY 560) and X-ray Diffraction and Spectroscopy (GLY 513); and six credit hours of Thesis (GLY 699). Course deficiencies in GLY 310, 311, 312, 410, 411, or 412 must be made up as part of the degree requirements. Electives sufficient to reach the minimum 30 credit hours and approved by the graduate advisor should be taken from graduate level courses in geology, related sciences or mathematics.**

For Thesis — A thesis based upon the student's research program is required. These topics may include mineralogy and petrology, paleontology, stratigraphy, sedimentology, and structural geology.

MINING OPTION — A minimum of 34 semester hours of graduate credit is required. The program shall include the following:

Geology Courses	28 hours
GLY 510, 529, 531, 623, 634, 651, 680, 697 or 699***	
***Must be taken for six hours credit.	
Business Courses	6 hours
1. Select one course from: MGT 500, 550, 600, 620	
2. Select one course from: ECO 530, 597, ACC 510	
TOTAL	34 hours

For Thesis — A thesis is required if a student selects the thesis Master's program.

For Internship — For those selecting the nonthesis program, an internship must be completed with an organization approved by the department.

**Geology field camp or equivalent is required as a component of either the undergraduate or graduate program.

Course Descriptions

GLY GEOLOGY

- 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.

GLY GEOLOGY

- 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.
- 529 Economic Geology. Three hours. II.**
Formerly GLY 430.
Prerequisite: GLY 310, 410.
Formation of mineral deposits and their distribution within the earth's crust. Two lecture and two laboratory hours.
- 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. Four 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.
- 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.
- 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 retaken for a total of three hours provided subject matter is different each time.

GLY GEOLOGY

- 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.
- 623** **Sedimentary Petrology. Three hours. A.**
Prerequisites: GLY 311 and 312.
Origin, occurrences, and composition of sedimentary rocks. Two lecture and two laboratory hours.
- 624** **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.
- 634** **Mining and Exploration Techniques. Three hours. A.**
Prerequisite: Approval of department.
Approaches to surface and deep mining with emphasis on geologic principles, exploration methods and mining techniques. Three lecture hours plus field trips.
- 651** **Advanced Geologic Mapping and Surveying. Three hours. A.**
Prerequisite: GLY 351 or approval of department.
Principles of detailed geologic mapping, correlation and plane surveying emphasizing both surface and subsurface techniques. One lecture and four hours in field.
- 660** **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.

GLY GEOLOGY

- 680 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 retaken for a maximum of four hours.
- 697 Internship. Six hours. A.**
Prerequisite: Graduate standing and departmental approval.
Students will work with a mining company for one semester under departmental supervision. A written report is required for credit. Student is eligible for internship after admission to candidacy.
- 698 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 re-taken for a total of six hours.
- 699 Thesis. Three to six hours.**

History (HIS)

GEORGE W. ROBINSON, Chairman

The Department of History offers the Master of Arts with a major in History. 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 this catalog. Programs leading to these degrees prepare the student for careers in teaching on the college and secondary level,* advanced work toward a doctorate at other institutions and for a wide variety of public services within the United States.

*The M.A. in History with and without thesis qualify the recipient for a provisional teaching certificate providing the candidate has already completed an undergraduate professional education program in history. In such a case the provisional certificate would have to be renewed every ten years with renewal requiring that the holder had taught at least three of ten years in question. A standard certificate not requiring renewal would be awarded to each M.A. in education (Secondary Education-History) graduate because of the nine hours of professional education included in the curriculum.

Special Program Requirements*

MASTER OF ARTS IN HISTORY WITH THESIS

For Admission — Admission is determined by the Department of History in cooperation with the Graduate School. The following is required of each candidate:

Satisfactory performance on the Graduate Record Examination including the Advanced Test in History before or during the first summer or regular academic year the student is enrolled.

*Students must also meet the general requirements of the Graduate School.

A high standard of undergraduate achievement, normally a 2.75 over-all average (on a 4.0 scale).

Completion of a satisfactory undergraduate major in history.

Two letters of recommendation from faculty members with whom the applicant has studied.

For Program Planning — Students may major in Twentieth Century American History, or Nineteenth Century English History, or Nineteenth Century Latin American History (Mexico). Minor fields may be chosen from the following: Modern European Intellectual History, American Social and Intellectual History, English History, Russian History, Far Eastern History, Latin American History, Political Science, Sociology, Anthropology, Geography, and English or American Literature.

Each candidate must complete 30 semester hours work including six hours of core requirements (HIS 601 and HIS 603), twelve hours in the major field, six hours in the minor field, and six hours credit for the thesis.

For Language Requirement — The student must pass a reading examination on historical literature in a modern foreign language, determined in consultation with his advisor.

For Thesis — Each candidate must submit a thesis which demonstrates an appropriate level of skill in historical research and writing. The thesis shall be submitted to the student's major professor at least thirty days in advance of graduation. Acceptance of the thesis shall be decided by a special reading committee. This committee shall be composed of the major professor and two other faculty members recommended by the chairman of the major department and appointed by the Dean of the Graduate School. The committee shall complete its review of the thesis at least one week prior to the final oral examination. Two bound copies of the accepted thesis, signed by the committee, must be deposited with the Dean of the Graduate School at least two weeks before summer commencement and three weeks prior to the end of either the fall semester or spring commencement.

For Comprehensive Examinations — The program will culminate in a written comprehensive examination designed to test the student's general knowledge of history, and an oral examination. The latter will concern only the candidate's mastery of his special field and his thesis topic. Passage of the language examination must be certified **PRIOR** to these examinations.

Suggested Arrangement of Graduate Work — A graduate student electing to major in American History should take the following:

First semester: HIS 603, 699, 607, U.S. History (elective),
minor elective15 hrs.

Second Semester: HIS 601, 699, 607, U.S. History (elective),
minor elective15 hrs.

A graduate student electing to major in English History should take the following:

First Semester: HIS 603, 699, English History (electives),
minor elective15 hrs.

Second Semester: HIS 601, 699, English History (electives),
minor elective15 hrs.

A graduate student electing to major in Latin American History should take the following:

First Semester: HIS 603, 699, 606 or 649, 582, minor elective15 hrs.

Second Semester: HIS 601, 699, 585, 606 or 649, minor elective15 hrs.

MASTER OF ARTS IN HISTORY WITHOUT THESIS

For Admission — Applicants must meet special admission conditions cited for majors electing thesis option.

For Program — Each candidate must complete 30 semester hours work including six hours of core requirements (HIS 601 and 603), 15 hours in the major field and nine hours in a minor field.

Students may major in American, European, or Latin American history. The major and/or minor fields will be chosen from the following: American Social and Intellectual History, English History, Russian History (minor only), Latin American History, Twentieth Century U. S., Nineteenth Century U. S., Eighteenth Century U. S., Modern European History, and Far Eastern History, (minor only.)

All course work may be completed in residence at Eastern Kentucky University in two regular academic semesters, but because of the heavy load of course work for two semesters, a graduate student is encouraged to take at least six of the elective hours during a summer session.

First Semester: HIS 601, major elective (600 level),
major elective, minor elective12 hrs.

Second Semester: HIS 603, major elective (600 level),
major elective, minor elective12 hrs.

Summer Session: Major elective, minor elective (600 level) 6 hrs.

For Comprehensive Examinations — Upon completion of course work in the major field, the student's knowledge of the field will be tested by a comprehensive written examination. The program will culminate in an oral examination designed to test the student's general knowledge of history as well as his understanding of his special field.

There is no language proficiency requirement for the Master of Arts in History without thesis

Course Descriptions**HIS HISTORY**

- 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.

HIS 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.
- 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.

HIS HISTORY

- 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.
- 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 retaken more than once providing the course content is different each time.

HIS HISTORY

- 607 Problems in Interpreting American History. Three hours. A.**
Seminar on selected controversial developments in American history. May be retaken more than once 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 retaken for a maximum of six hours.

Mass Communications (COM, JOU, RTV)

JAMES S. HARRIS, Chairman

Course Descriptions

COM COMMUNICATIONS

- 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

- 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

- 628 Instructional Television. Three hours. A.**
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.

Mathematical Sciences (CSC, MAT, and STA)

BENNIE R. LANE, Chairman

The Department of Mathematical Science offers the Master of Science in Mathematics. The program 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.

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 degree may be found in the College of Education section of this catalog.

Special Program Requirements*

MASTER OF SCIENCE

Full admission to graduate standing includes an acceptable score on the GRE or URE and an undergraduate preparation in mathematics equivalent to that of a major in mathematics at Eastern Kentucky University.

Applicants who do not have this preparation may be admitted on probation and given such undergraduate courses as needed to strengthen their background.

For Program — A minimum of thirty semester hours of 500 and 600 level courses in Mathematical Sciences. No more than nine hours credit may be received for MAT 690. All students must complete three of the following sequences:

Group 1: MAT 510, 610

Group 2: MAT 515, 540 or 550

Group 3: MAT 600, CSC 545 or MAT 609

Group 4: CSC 571, 672

Group 5: STA 575, 675

Group 6: CSC 530, 631

For Admission to Candidacy — The student will be admitted to candidacy after successful completion of twelve hours of graduate work. Six of these hours must be on the 600 level.

For Thesis — The thesis is optional. Those students who elect to submit a thesis for partial fulfillment of the requirements of the Master of Science in mathematics must prepare it according to the regulations of the Graduate School and the Department of Mathematical Sciences.

For Comprehensive Examination — Each candidate near the end of his master's education must stand a written and/or oral examination covering the various components of his program.

*Students must also meet general requirements of the Graduate School.

Course Descriptions

CSC COMPUTER SCIENCE

- 530 Concepts of Programming Systems. Three hours. A.**
Prerequisite: Knowledge of a programming language.
Not open to computer science majors or minors except by departmental permission. Structured programming, data and its representation, structure of simple machines, data structures, assemblers, linkers and loaders, high level programming language, applications and future trends in hardware and software.
- 545 Linear Programming and Theory of Games. Three hours. I.**
Formerly MAT 545.
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.
- 571 Numerical Analysis. Three hours. A.**
Formerly MAT 571.
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.
- 631 The Design and Analysis of Computer Algorithms. Three hours. A.**
Prerequisite: Knowledge of a high level computer language; CSC 530 or CSC 310 or permission of department.
Introduction to computational complexity, data structures, applications to searching, sorting, pattern matching, graph theory.
- 672 Advanced Numerical Analysis. Three hours. A.**
Formerly MAT 672.
Prerequisite: CSC 571 or equivalent.
Continuation of CSC 571 with increasing emphasis on theory. Interpolation and quadrature; splines; orthogonal polynomials; Gaussian quadrature; Chebyshev approximations; differential equations; error.

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.

MAT MATHEMATICS

- 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.
- 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.
- 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.

MAT MATHEMATICS

- 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.
- 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 retaken for 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 three semester hours in 600 level mathematics courses.
Independent study on a problem chosen by the student and his instructor. May be retaken for a maximum of nine hours, provided that the topics are different at each taking.
- 699 Thesis. One to six hours. A.**

STA STATISTICS

- 570 Advanced Probability and Mathematical Statistics. Three hours. A.**
Formerly MAT 670.
Prerequisites: MAT 515 and STA 471.
Probability spaces, random variable, conditioning independence, distribution functions, laws of large numbers, central limit theorems, applications.
- 575 Statistical Methods. Three hours. A.**
A course designed to offer applied statistical methods at the graduate level to students who need this background for study and research in their own majors. Introduction to probability, descriptive statistics, and inferential statistics.
- 675 Linear Models and Experimental Design. Three hours. A.**
Prerequisite: MAT 600 and STA 575 or departmental approval.
The mathematical theory of least squares, regression and correlation analysis, analysis of variance and the design of experiments, and an introduction to multivariate analysis from a linear models viewpoint.

Music (MUS)

GEORGE E. MUNS, Chairman

The Department of Music offers major work which leads to the Master of Music Degree, Specialization in Performance and Specialization in Theory/Composition. These graduate degrees prepare students for leadership roles in music theory, composition and music performance at all levels; build a sound foundation for graduate study leading to a doctorate; provide further insight into the structure of music; increase their knowledge of musical culture through intensive study of music literature; provide them with a core of knowledge from the fields of learning theory and music composition.

The Master of Arts in Education Degree with an emphasis in Music, and 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. The regulations for these degrees may be found in the College of Education section of this catalog. Music Education (ESE) courses offered are described on p. 183.

Special Program Requirements*

MASTER OF MUSIC DEGREE

Specialization in Performance

For Admission — Applicants for admission must hold the degree of Bachelor of Music or its equivalent from an accredited institution. Normally, undergraduate records should reflect an overall grade-point average of 2.75, and the undergraduate programs must show adequate preparation in the field of specialization corresponding to the distribution of courses and credits usually found in departments certified by the National Association of Schools of Music. All candidates must be approved by an audition committee designated by the Chairman of the Department of Music. The audition will be augmented by at least three letters of reference from persons qualified to judge competent work in the areas of performance specialty.

For Program Planning — The general format of the program appears below. Additional details are available upon request to the Department of music.

Applied Music, Instrumental or Vocal	10 hours
Teaching Techniques, Performance Literature, Accompanying, Music Ensembles	4 hours
Required Courses (Theory, Literature, History or Musicology, Psychology of Music)	11-12 hours
Electives	4-5 hours
Graduate Recital	2 hours

For Comprehensive Examinations — The program will be culminated by a written or oral comprehensive examination testing the candidate's general knowledge of music.

Specialization in Theory/Composition

For Admission — Requirements the same as Specialization in Performance (above) with the exception that candidates must be approved by a committee designated by the Chairman of the Department of Music rather than by an audition.

For Program Planning — The general format of the program appears below.

Theory/Composition	10 hours
Music History and Literature, Performance Pedagogy	12 hours
Electives	10 hours

For Comprehensive Examinations — The program will be culminated by a comprehensive examination testing the candidate's general knowledge of music.

*Students must also meet the general requirements of the Graduate School.

Course Descriptions

MUS MUSIC

- 513 Accompanying. One hour. A.**
Formerly MUS 613.
Practical training in the tradition, interpretation and execution of accompaniments. May be retaken for a maximum of two hours credit.
- 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 retaken 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 retaken 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 retaken 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.

MUS MUSIC

- 586 Workshop in Instrumental Music. One to four hours. A.**
Topics in band or orchestra procedures. May be retaken for a maximum of four hours.
- 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 retaken for a maximum of four hours.
- 605 Chamber Music. One-half hour. I, II.**
May be retaken 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 retaken 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 retaken for a maximum of ten hours credit.
- 625 Choir. One-half hour. I, II.**
May be retaken for a maximum of one hour.
- 626 University Singers. One-half hour. I, II.**
May be retaken for a maximum of one hour.
- 627 Opera Workshop. One-half hour. I, II.**
May be retaken 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 retaken 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 retaken 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 retaken 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 retaken for a maximum of ten hours credit.
- 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 retaken for a maximum of ten hours credit.

MUS MUSIC

- 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 retaken for a maximum of ten hours credit.
- 650 Small Ensembles. One-half hour. I, II.**
May be retaken for a maximum of one hour.
- 655 Band. One-half hour. I, II.**
May be retaken 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 retaken for a maximum of four hours.
- 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)**JAMES R. MILLER, Chairman****Course Descriptions****PHI PHILOSOPHY**

- 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.

PHI PHILOSOPHY

- 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 retaken 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.

Physics (PHY)

TED M. GEORGE, Chairman

The Department of Physics offers the Master of Science Degree 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 Physics. The regulations for the degree may be found in the College of Education section of this catalog. The Department of Physics 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.

Special Program Requirements*

MASTER OF SCIENCE

The Master of Science program prepares students for careers in industry, further graduate work, and/or community college teaching.

For Admission — Students should have an undergraduate major or minor in physics and should have completed upper division undergraduate courses in modern physics, electricity and magnetism, and mechanics. Placement examinations will be given in these three areas during orientation week. Background deficiency in any area may require additional study without graduate credit.

*Students must also meet the general requirements of the Graduate School.

For Degree Requirements—A minimum of 30 semester hours of graduate credit is required. Of these 30 hours, six hours may be taken in a supporting field and a maximum of six hours in research leading to a thesis. The thesis is optional with the student. A final oral examination related to course work taken and/or in defense of the thesis is required. There is no foreign language requirement. A well-prepared student may be able to complete this program in fifteen months.

Course Descriptions

PHY 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.
- 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 retaken 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.

PHY PHYSICS

- 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.
- 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.
- 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 retaken 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.

PHY PHYSICS

- 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.
- 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 retaken 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 retaken for a maximum of six hours to be applied toward a degree.

Political Science (POL)**J. ALLEN SINGLETON, Chairman**

The Department of Political Science offers work leading toward the degrees, Master of Arts and Master of Public Administration.

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 this catalog.

Special Program Requirements*

MASTER OF ARTS

The Department of Political Science offers a Master of Arts degree with emphasis available in several fields. The objectives of the program are to develop sophistication in the concepts of the discipline and a specialized creativity in an area of the discipline.

For Admission — The following criteria are set for an unconditional admission: 1) a high standard of undergraduate achievement, normally a 2.75 grade point average (on a 4.0 scale); 2) satisfactory Graduate Record Examination aptitude test scores; 3) letters of reference from two persons qualified to evaluate potential for successful performance in a program of graduate study in political science; and 4) the completion of an acceptable undergraduate major (12 semester hours of political science is required for unconditional admission).

For Program — The Department of Political Science offers two options for the Master of Arts degree, a thesis option and a non-thesis option. Students who elect the thesis option will complete 33 semester hours including POL 600 (3 hours) and POL 699 (6 hours). Students who elect the non-thesis option will complete 33 semester hours including POL 600 and at least 3 hours of POL 691. Under either option students will select additional course work in consultation with their advisory committee. Each student is expected to emphasize one of the areas of the discipline:

- 1) International relations
- 2) Comparative government and politics
- 3) American political processes
- 4) Political theory
- 5) Public administration

Major Steps in Program Completion — After a semester of full-time graduate study or the completion of 12 graduate credits in the program, students should apply for admission to degree candidacy: students who elect the thesis option must submit an acceptable thesis prospectus at the time of application for degree candidacy. Under both options a comprehensive written examination is required; the examination covers the student's particular field of emphasis and its relation to the discipline of political science. Students who elect the thesis option must submit an acceptable thesis; an oral defense of the thesis is also required.

MASTER OF PUBLIC ADMINISTRATION

Students may emphasize the general field of public administration or may elect options in judicial administration or public and environmental health.

Students admitted to the M. P. A. program are **not required** to have an undergraduate degree in political science. Rather, the chief considerations will be the student's ability and potential for a career in the public service.

For Admission — The following criteria are set for an unconditional admission: 1) a high standard of undergraduate achievement, normally a 2.75 grade point average (on a 4.0 scale); 2) satisfactory Graduate Record Examination aptitude test scores; and 3) letters of reference from two persons qualified to evaluate potential for successful performance in the M.P.A. program. Provision for conditional admission exists.

*Students must meet the general requirements of the Graduate School.

For Program — The completion of the M.P.A. degree program requires the satisfactory completion of at least thirty-six credits in graduate course work including the supervised internship and the demonstration of competence in analytical and/or research skills. All students will take POL 565, 576, and 577. Those in the M.P.A. Judicial Administration option will take POL 564 and POL 664. All other students will take POL 575. The length of the internship will be determined according to both the amount of classroom work needed to develop special competencies and the student's career pattern and goals. Normally, students take POL 670 for six or nine credits. Students with substantial experience in the public service will take POL 671 in lieu of 670. Students seeking a specialty in Judicial Administration are limited specifically to an internship of six credits. In the development of special competencies, students may be required to take appropriate course work up to a maximum of twelve graduate credits outside the offerings of the Department of Political Science.

A Public and Environmental health option is open only to persons with approved undergraduate training in public and/or environmental health. The POL 670 internship must be with a Public/Environmental Health related agency and must be approved by both the Department of Political Science and the Department of School and Public Health.

Curriculum requirements under the two options are as follows:

Judicial Administration Option

Core: POL 564, 565, 576, 577, and 664	15 hours
Internship: POL 670	6 hours
Electives: Chosen in consultation with advisor.	
Students may be required to take appropriate course work up to a maximum of 12 graduate credits outside the Department of Political Science	15 hours
Total Program	36 hours

Public and Environmental Health Option

Core: POL 565, 575, 576, 577; HEA 575, 620, and 698	21 hours
Internship: POL 670	6-12 hours
Electives: Chosen from HEA 680; POL 530, 570, 600, 635, 643, 663	3-9 hours
Total Program	36 hours

Major Steps in Program Completion — After a semester of full-time graduate study or the completion of 12 graduate credits in the program, the student should apply for admission to degree candidacy. Upon admission to candidacy students become eligible to take their written examination in the field of public administration. After the completion of all other program requirements, including the supervised internship, an oral comprehensive final examination will be held for the candidate.

Course Descriptions

POL POLITICAL SCIENCE

- 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.

POL POLITICAL SCIENCE

- 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.
- 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.

POL POLITICAL SCIENCE

- 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.
- 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.
- 600 Research Methods in Political Science. Three hours. A.**
An introduction and an overview of theories, methods and analyses which are used in contemporary political science and public administration. The course is designed to give students a foundation in research and analysis for graduate work.
- 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.

POL POLITICAL SCIENCE

- 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.
- 664 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 retaken for a total of 12 hours.
- 671 Applied Field Study in Public Administration. Three to twelve hours. A.**
Prerequisite: Substantial experience in the public service and departmental permission after admission to the MPA program.
In cooperation with faculty, students will seek to apply theories and techniques of public administration to specific problem areas of a public service agency. A written report must be submitted to earn credit. May be retaken for a total of twelve hours credit.
- 673 Seminar in Theory of Public Administration. Three hours. A.**
Prerequisite: Approval of instructor.
- 691 Directed Research. Three hours. I, II.**
Prerequisite: Departmental approval.
Research to be conducted under the direct supervision of one or more members of the Department of Political Science. May be retaken for a total of six hours credit.
- 693 Special Topics. Three hours. A.**
Seminar in a specialized topical area of the discipline. Topics will vary. May be retaken for a total of six hours credit providing subject matter is different each time.
- 695 Independent Studies. One to three hours. A.**
Student-initiated directed study. Can include research project or readings in an area of the discipline. May be retaken for a total of six hours credit providing subject matter is different each time.
- 699 Thesis. Three hours. I, II.**
May be retaken for a total of six hours.

Transportation Courses

TRA TRANSPORTATION

- 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 retaken 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)

RUSSELL F. ENZIE, Chairman

The Department of Psychology offers major work for the Master of Science degree with emphasis in clinical or school psychology, and the Master of Arts degree with emphasis in general psychology. Students pursuing the Master of Science 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.

Students pursuing the Master of Arts Degree and carrying a full program can complete course requirements in two semesters, including six hours of thesis research. Most students, however, find that an added summer term is necessary to complete their research. Students majoring in other departments may elect selected graduate courses in psychology.

Special Program Requirements*

MASTER OF SCIENCE

Candidates must satisfy the following special requirements:

For Admission—A minimum of five courses in psychology; general psychology, statistics, and experimental psychology are required, and two other courses acceptable to the departmental admissions committee.

A grade point average of 3.0 in the major for the junior and senior years, and a minimum overall undergraduate grade-point average of 2.5 are required.

Arrangement by candidates for submission of three letters of recommendation, two related to the undergraduate major and one from elsewhere (with at least one from psychology).

Satisfactory performances on the Graduate Record Examination in the Aptitude Sections and the Advanced Test in Psychology. Required prior to admission.

*Students must also meet the general requirements of the Graduate School.

Applications should be received by February 15. Notification regarding admissions usually will be made in March. Students applying later may be accepted as space is available.

For Admission to Candidacy—A student pursuing the Master of Science degree must complete 10 credit hours before being admitted to candidacy for the master's degree. Students in the clinical and school psychology programs will be evaluated for candidacy at the end of their second semester. Candidacy evaluations are scheduled by the departmental faculty during December and April. Performance at or above the minimum level of academic achievement does not guarantee a student's admission to candidacy. Manifestation of satisfactory personal, professional and social adjustment are factors which enter into the department faculty's evaluation for the graduate degree in psychology. Students pursuing the Master of Arts degree will be evaluated for admission to candidacy at the end of their first semester of study.

For Comprehensive Examination—Candidates for the degree will take written and/or oral examinations in the area of study in which they seek the master's degree.

For Internship—Students in both the clinical psychology and the school psychology programs must perform satisfactorily in PSY 699 in partial fulfillment of requirements for the degree.

For Clinical Psychology Emphasis—Requirements for the degree are a minimum of 60 graduate credit hours including 10 credit hours for the sixteen week internship. Advanced practicum and internship placements should reflect the select clinical emphasis.

Required:

Research Courses: PSY 620, 662	6 hours
Theory Courses: PSY 622, 641, 653, 680, 669, and either 501 or 629	18 hours
Techniques Courses: PSY 624, 625, 640, 650, 660	15 hours
Experiential Courses: PSY 626, 643 (8 hours), 699 and one of 645, 646, or 647	21 hours

For School Psychology Emphasis—Requirements for the degree are a minimum of 59 graduate credit hours, including 10 credit hours for the one semester internship. Advanced practicum and internship placements should reflect the selected emphasis.

Required:

From Psychology Department: PSY 620, 622, 680 501 or 629, 624, 625, 645, or 646, 626	21 hours
From College of Education: SED 625, EPY 616, ELE 610 or ESE 612, EAD 600 or SED 615, EPC 646 or 625	15 hours
Restricted Electives: (Two of the following with Committee approval) ELE 673, ELE 675, ELE 668, EPC 614, EAD 605, SED 602, SED 604, PSY 650, PSY 660	6 hours
Practicum and Internship: PSY 648, PSY 643 or EPC 630 or EPC 632, PSY 699	17-18 hours

MASTER OF ARTS

For General Psychology Emphasis—Requirements for the degree are a minimum of 30 graduate credit hours including six credit hours for thesis research. One or more courses outside psychology may be elected in an ap-

proved academic discipline, usually the student's undergraduate major or minor other than psychology.

Core Courses:	4 hours
Required — PSY 620, 626	
Electives — PSY 501, 570, 573, 577, 578, 579, 622, 629, 641, 653, 662, 669, 680, 687	20 hours
Thesis — PSY 690	6 hours

Course Descriptions

PSY PSYCHOLOGY

- 501 Theories of Learning. Three hours. A.**
Prerequisite: PSY 291 or approval of instructor.
In-depth study of learning theories. Emphasis on contemporary developments and current research.
- 570 Seminar in Sensation and Perception. Three hours. A.**
Formerly PSY 670.
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.
- 573 Seminar in Physiological Psychology. Three hours. A.**
Formerly PSY 673.
Prerequisite: PSY 311 or equivalent and approval of instructor.
Selected areas of contemporary theory and research. Special reference to circulatory, endocrine and neurophysical systems.
- 577 Experimental Social Psychology. Three hours. A.**
Formerly PSY 677.
Prerequisite: PSY 300 or approval of instructor. Methodological and basic content problems and procedures in personal-social interaction. Special reference to contemporary theory and research.
- 578 Experimental Personality Psychology. Three hours. A.**
Formerly PSY 678.
Prerequisite: PSY 305 and approval of instructor.
Selected areas of theories and research. Special emphasis on human aggression.
- 579 History and Systems in Psychology. Three hours. A.**
Prerequisite: PSY 211 or approval of instructor.
A survey of the historic and systematic development of 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.

PSY PSYCHOLOGY

- 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. A.**
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.**
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 retaken 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.
- 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.

PSY PSYCHOLOGY

- 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.
- 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 retaken 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 retaken 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

RICHARD L. BENSON, Chairman

Course Descriptions

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 retaken for a maximum of six hours, provided subject matter is different each time.

SPE SPEECH

- 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

- 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 retaken 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

Howard Thompson, Dean
James M. L. Karns, Associate Dean and
Director, MBA Program

The College of Business, in association 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 provides for study in breadth in selected functional areas of administration 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 and in ability to integrate concepts and research findings of business and the behavioral sciences. Students are prepared 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*

Admission — Applicants to the Master of Business Administration program 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.

General Information — Upon written petition, subject to the approval of the Director of the MBA Program, 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 MBA Director. Students employed by the University shall consult the MBA Director about combined course and work load.

At least twenty-four semester hours of work must be completed in courses open only to graduate students. Note that 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.

Students whose records, performance or examinations indicate deficiencies in the use of English will be required to take additional work to increase

*Students must also meet the general requirements of the Graduate School.

their proficiency in the use of English. This requirement will take precedence over all other courses in the student's graduate program.

Admission to Candidacy — Admission to candidacy is granted only if (1) all conditions and course deficiencies have been removed, (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's overall (includes previous graduate semesters) grade point average falls below 3.0, 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 Graduate Committee and Dean of the College of Business and the Dean of the Graduate School.

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 MBA Director.

Non-Thesis — Students not electing to write a thesis must complete ECO 604, EDP 608, and OAD 600, as "tool" subjects. These courses cannot be used to satisfy concentration requirements.

Comprehensive Examination — Students electing to write a thesis shall pass an oral examination on the thesis and a comprehensive examination of all 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 MBA Director in the semester in which the student expects to finish his course work or in the semester or summer session in 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 the oral examination, he may petition the MBA Director 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.

Prerequisites — All courses open to graduate students are presented on the assumption that the students enrolled in them have had some foundation in accounting, economics, finance, management, marketing, business law or legal environment of business, and statistics. Students with deficiencies in any of these areas must supplement their formal degree programs with additional course work 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, real estate, 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 three 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 three semester hours in accounting, and at least three 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 nine semester hours in the field selected. Three semester hours in each of the other two fields, plus three semester hours in economics and three semester hours in accounting.

Students selecting an area of concentration in real estate will take at least nine semester hours in real estate, FIN 601, and at least three semester hours in each of the areas of economics, accounting, and marketing.

Students selecting an area of concentration in general business administration will take at least three semester hours in each of the fields of marketing, management, finance, economics, and accounting plus six 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.

Graduate students outside the College of Business may enroll in graduate courses offered by the College of Business if they satisfy course prerequisites.

Accounting (ACC)

CLAUDE K. SMITH, Chairman

The Department of Accounting, in cooperation with the Graduate School and the College of Business, participates in the Master of Business Administration program. A student may, with a strong background in accounting, take a concentration in accounting consisting of 12 hours of graduate level accounting courses. However, ACC 600 cannot be taken by students who have an undergraduate major in accounting. All courses counting toward a concentration in accounting must be selected in consultation with the student's advisor.

Course Descriptions

ACC 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.

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.

ACC ACCOUNTING

- 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. I, II.**
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.
- 600 Managerial Accounting. Three hours. II.**
Prerequisite: ACC 109 or 510.
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.
- 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

GENE E. BURTON, Chairman

The Department of Business Administration, in cooperation with the Graduate School and the College of Business, participates in the Master of Business Administration Program. Students may select any one of five concentrations in Business Administration: Marketing, Management, Finance, Real Estate, and General Business Administration. Persons selecting a concentration in General Business Administration will take the 600 course in each of the functional fields of Marketing, Management and Finance; and three semester hours each of Economics and Accounting. Persons selecting a concentration in any of the functional fields of Marketing, Management or Finance will take nine hours in that field and the 600 course in each of the remaining fields plus three semester hours each in Accounting and Economics. Persons selecting an area of concentration in Real Estate will take nine semester hours in Real Estate, FIN 601, and three semester hours each of Economics, Accounting and Marketing.

Course Descriptions

EDP ELECTRONIC DATA PROCESSING

- 595 Special Problems in Data Processing. One to four hours. A.**
(May be retaken 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 retaken for a maximum of four hours.)
Prerequisite: Approval of advisor and chairman of department.
Independent study of selected topics in Data Processing.

FIN FINANCE

- 590 Special Problems in Finance. One to four hours. A.**
(May be retaken 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.

FIN FINANCE

- 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.
- 690 Independent Study in Finance. One to four hours. A.**
(May be retaken 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.

GBU GENERAL BUSINESS

- 504 Administrative Policy. Three hours. I, II.**
Formerly MGT 504.
Prerequisite: Student has completed or is concurrently completing the Business Core.
A study of administrative processes under conditions of uncertainty including integrative analysis and formulation of strategy and supporting policy at the administrative and executive level.

INS INSURANCE

- 590 Special Problems in Insurance. One to six hours. A.**
(May be retaken for a maximum of six hours.)
Prerequisite: Approval of advisor and Chairman of Department.
Independent work, special workshop, special topics or seminars.

MGT MANAGEMENT

- 500 Administrative Behavior. Three hours. I.**
Prerequisite: MGT 300 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.
- 550 Management Seminar. Three hours. A.**
Intensive and extensive study of carefully selected topic in contemporary management literature.
- 590 Special Problems in Management. One to four hours. A.**
(May be retaken 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 Organizations. Three hours. I.**
Prerequisite: MGT 300.
Primary emphasis upon the development of administrative theory and application to modern and developing forms of business organization. Heavy emphasis placed on advanced applications of the primary functions of the manager.
- 620 Advanced Management Concepts. Three hours. II.**
Prerequisite: MGT 300.
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.

MGT MANAGEMENT

- 690 Independent Study in Management. One to four hours. A.**
(May be retaken 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.

MKT MARKETING

- 500 Marketing Research and Analysis. Three hours. I.**
Prerequisite: MKT 300 and ECO 220.
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.
- 504 Marketing Management. Three hours. II.**
Prerequisite: MKT 300.
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 retaken for a maximum of six hours.)
Prerequisite: Approval of advisor and Chairman of Department.
Independent work, special workshop, special topics, or seminar.
- 600 Marketing Problems. Three hours. S.**
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 retaken 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.

RST REAL ESTATE

- 500 Property Valuation. Three hours. II.**
Prerequisite: RST 400 and RST 410 and Senior or Graduate Standing.
The valuation process in real estate as it applies to residential, commercial and industrial financing, investment management, and tax consideration.
- 590 Special Problems in Real Estate. One to six hours. A.**
(May be retaken for a maximum of six hours.)
Prerequisite: Approval of advisor and Chairman of Department.
Independent work, special workshop, special topics or seminars.
- 600 The Real Estate Process. Three hours. I.**
Prerequisite: Graduate Standing.
An in-depth graduate principles course in real estate, its processes and application.

RST REAL ESTATE

- 690 Special Problems in Contemporary Real Estate. Three hours. A.**
Prerequisite: RST 500, RST 600 and ECO 604.
An individual study program in one of the specialty or sub-specialty areas of the profession would form the basis of a major research paper for that area of real estate the student plans to follow as a career upon graduation.
- 698-699 Thesis. Six hours. A.**
Individual direction and thesis writing.

TPD TRANSPORTATION AND PHYSICAL DISTRIBUTION

- 590 Special Problems in Transportation and Physical Distribution. One to six hours. A.**
(May be retaken for a maximum of six hours.)
Prerequisite: Approval of advisor and Chairman of Department.
Independent work, special workshops, special topics or seminars. May be used for development of research paper required for professional certification in the American Society of Traffic and Transportation.

Business Education and Office Administration (OAD)

ALFRED PATRICK, Chairman

Students may earn the Master of Arts in Education degree with a specialization in business education. For information concerning admission to this degree program, consult the College of Education section of the **Graduate Catalog**.

Course Descriptions

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.**
- 600 Business Research and Report Writing. Three hours. II.**
Prerequisite: ECO 220 and 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 (ECO)

DONALD SHADOAN, Chairman

The Department of Economics, in cooperation with the Graduate School and the College of Business, participates in the Master of Business Administration program. A student enrolled in this program may take a concentration in economics consisting of 12 hours of graduate level economics courses. In addition, the student is required to take ECO 604 as a tool subject. All courses counting toward a concentration in economics must be selected in consultation with the student's advisor.

Course Descriptions

ECO ECONOMICS

- 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.
- 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.
- 570 Health Care Economics. Three hours. A.**
Prerequisite: ECO 230.
The economic analysis of the health care system. The course will consider topics such as introduction of health economics; prices and profits in medical care; demand, production and cost in the health care sector; health care planning; investment; and health care financing.
- 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.
- 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.

College of Education

Dixon A. Barr, Dean

J. Linward Doak, Associate Dean

Eastern Kentucky University has maintained a strong interest in and commitment to the preparation of teachers since its founding in 1906.

The College of Education in cooperation with the Graduate School has developed and implemented Master of Arts in Education Degree programs for elementary school teachers, guidance counselors, school librarians, school social workers, special educators, and secondary school teachers of health and physical education. Other graduate programs include a fifth year program for certificate renewal, a sixth year program leading to Rank I certification, the Master of Arts Degree in guidance and counseling for industrial and community services and a program in student personnel services in higher education, the Master of Science Degree in physical education, and in recreation and park administration, the Specialist in Education Degree in administration and supervision, elementary education, physical education, school counseling and guidance, student personnel services in higher education, and a joint doctoral program in education (Ed. D.) with the University of Kentucky. Work leading toward ultimate certification in school administration and/or supervision may be elected, subject to institutional approval, while pursuing the master's degree in a teaching field. Graduate programs leading to the Master of Arts in Education Degree have been developed in most secondary teaching fields. Overall program requirements follow below.

Note that 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.

Special Program Requirements*

Master of Arts in Education

In addition to the general requirements for all master's degrees found elsewhere in this publication, the following specific requirements are in effect for the Master of Arts in Education:

For Admission — The student preparing for the standard secondary teaching certificate must select a major field of interest in which he has at least a teaching minor. If he does not have at least a minor, he will be required to take work at the undergraduate level sufficient to develop a satisfactory minor.

All applicants must have successfully completed student teaching in order to be eligible for admission to a Master of Arts in Education program.

*Students must also meet the general requirements of the Graduate School.

For Admission To Candidacy — All candidates must furnish evidence of teaching certification in the field of study chosen prior to admission to candidacy.

Students shall present an acceptable score on the aptitude test of the Graduate Record Examination or Undergraduate Record Examination prior to admission to candidacy for the degree.

Each candidate shall have had an interview with an appropriate graduate committee. The committee shall recommend an applicant's admission to candidacy to the Graduate School following a positive appraisal of the student's personality, character, academic proficiency, and other factors deemed important for completion of the particular curriculum in which the student is working.

Additional criteria may be employed by a graduate committee providing these criteria shall first have been approved by the Teacher Education Committee and filed with the Dean of the Graduate School.

For Program Planning — Every candidate for the degree shall present a minimum of 9-10 semester hours in professional education as a component of the graduate program and meet all requirements for provisional certification.

The remainder of the course work shall be determined by the institution in terms of the student's need, provided (1) that at least 12 hours shall be in an approved field or fields of interest outside professional education, and (2) that all such course work shall be approved upper division or graduate in level.

For Residence — Candidates for the Master of Arts in Education Degree are restricted to transfer of not more than six semester hours.

For Thesis — While the thesis is not required in any program leading to the Master of Arts in Education Degree, students with special research interests are encouraged to consider a thesis.

For Comprehensives — The candidate will have an opportunity to demonstrate professional growth through a written and/or oral examination covering education and major program components during the term in which graduation is scheduled.

For Curriculum Requirements for Graduate Programs in Education — Common to all programs leading to the degree, Master of Arts in Education, is the professional education core, from which a minimum of nine hours must be completed.

Professional course options are presented below:

Required prior to the completion of nine hours, EDF 669, three hours. A **minimum** of six hours with at least one course chosen from two of the following categories.

Area I. Historical/Philosophical

EDF 632 History of Education in the United States	3 hrs.
EDF 635 Critical Thinking in the Educational Process	3 hrs.
EDF 636 Philosophy of Education	3 hrs.
EDF 637 Comparative Education	3 hrs.

II. Sociological/Psychological

EDF 615 Human Development	3 hrs.
EPY 616 Educational Measurement	3 hrs.
EDF 650 Educational Sociology	3 hrs.
EPY 652 Advanced Educational Psychology	3 hrs.
EPY 623 Educational Implications of Learning Theories	3 hrs.

III. Curriculum/Instructional

ELE 610 Elementary School Curriculum	3 hrs.
ELE 611/ESE 611 Humanistic Teaching— Strategies and Behaviors	3 hrs.
ESE 612 Curriculum Theory and Development	3 hrs.
ESE 663 Secondary School Curriculum	3 hrs.

The latitude of course selection provided above imposes an additional responsibility upon the student and his advisor. Individuals interested in post-master's degree certificates in administration and supervision should exercise particular care in course selection.

Students who are taking their initial coursework at off-campus centers must file through their advisor, a complete program of study with the Dean of the Graduate School prior to the completion of more than six hours of credit off-campus.

For Rank II Certification, the Fifth Year Program—In recognition of the increasing demands for the continuing education of teachers, the College of Education offers, in cooperation with other departments of the University, a **fifth year** of study leading to the Rank II elementary or secondary certificate. This program will appeal to the teacher unable to qualify for a Master of Arts or Science degree program either because of prior preparation or level of previous academic achievement. It will be attractive to teachers unable or unwilling to meet the usual examinations requirements.

Requirements include: (1) 12 hours must be completed at the graduate level; (2) 12 hours must be taken in an academic area or areas; (3) the remaining eight hours required should be chosen to fit general or specific needs of candidates without regard to offering department; (4) 12 of the 32 hours must be professional education.

Professional Education Core requirements may be met through completion of (1) a minimum of six hours with at least one course chosen from two of the following areas:

- A. EDF 632, 635, 636, 637
- B. EDF 615, 650, EPY 616, 652
- C. ELE 610, ESE 612, 663, ELE/ESE 611

(2) Six additional hours of professional education selected from approved courses offered in the College of Education.

Six hours of approved course work may be transferred from accredited four year colleges.

Programs of study must be approved and filed with the Dean of the Graduate School **no later than the term during which six hours are to be completed.**

Candidates for the certificate must maintain a 2.25 grade point standing. No more than 40 credits (32 required) may be submitted to achieve the necessary average.

All credits must be completed within ten years of enrollment in the program.

For the candidate who wishes to transfer later to a degree program, not more than 12 hours of appropriate credits will be allowed for degree requirements.

For Rank I Certification

The College of Education in cooperation with offering departments within the College of Education, the College of Applied Arts and Technology, the College of Arts and Sciences, the College of Business, and the Graduate School, offers Rank I programs for guidance counselors, school administrators, supervisors, directors of pupil personnel, and teachers.

Program guidelines are highly flexible. General institutional guidelines for teachers include: six hours additional professional education electives, a minimum of 24 hours in the teaching field in the combined master's degree and sixth year program, and six hours free electives. Proposed programs should be filed through the advisor with the Dean of the Graduate School no later than the time 12 hours have been completed toward the program.

For further details, the reader should consult the appropriate departmental section or advisor.

FOR SPECIALIST IN EDUCATION DEGREE (Ed. S.) NATURE AND PURPOSE OF THE DEGREE

The Specialist in Education Degree is a professional degree, designed for those preparing for positions which call for a level of study and specialization beyond the master's degree. Its specific functions are to:

Increase the effectiveness and competence of elementary and secondary classroom teachers as specialists in planning and guiding learning experiences.

Provide the additional preparation needed for certification and competence in a specialized school position, in the role of college teacher, and by those engaged in student personnel work.

The 30-hour **minimum** requirement is a structured and unified program oriented toward the student's professional objectives. For selected students, planning for the specialist degree may begin following completion of the baccalaureate degree. For some students the Specialist in Education Degree may lead to advanced study for the doctorate.

Students are urged to spend as much time in full-time residence as possible. Extensive use of the library, informal associations with fellow students and with staff, and participation in non-class activities provided by the University afford important learnings that can only be realized through full-time study.

ADMISSION REQUIREMENTS

The promise of the applicant as a successful professional worker in his chosen field is central to admission to the specialist program. To this end, **admission to the Specialist in Education program** is based upon the following entrance requirements:

1. Completion of requirements for the master's degree from an accredited college or university.
2. A score on the combined aptitude tests of the Graduate Record Examination at a level above the 65th percentile, based on scores achieved by Eastern Kentucky University seniors within programs.
3. Acceptable scores on one or a combination of appropriate standardized measures when required for specific programs.

4. Successful professional experience appropriate to and as required in specific programs.
5. Evidence of academic competence, physical and emotional health, and moral character based on letters of recommendation from graduate faculty and professional associates in administrative and/or supervisory roles.
6. Completion of application forms for admission to the program.
7. Personal interview, following receipt of the above data, with a screening and selection committee composed of three persons appointed by the department chairman. The interview should be held as early as possible, but not later than the student's first semester on campus and prior to application for **admission to candidacy**.

PROGRAM REQUIREMENTS

Each candidate's program of study will be designed to meet his specific needs as they relate to his chosen field of specialization. Provision is made for a core of courses, for additional courses in the area of specialization and in cognate fields as appropriate, for independent study, and for the development of a specialist project.

Core courses. A nine-hour block of courses is a part of all Specialist in Education programs. These nine hours relate to the kind of experimentation and action research that are a part of the continuing work of the educator. The student is provided opportunity to become acquainted with research in his field of specialization and to gain the needed background in the methodology of experimentation. (Core courses are identified in the individual departmental sections).

Additional work in the area of specialization. Courses, seminars, and practice in the area of specialization are named and described in the section relating to the particular program.

Independent study. Students **admitted to candidacy** for the specialist degree may engage in independent study with credit. Other than those directly related to the specialist project, activities may include library research, conferences, discussions, writings, observations, visits, interviews, and direct practical experience in the field of specialization. Credit is based upon evidence of growth in accord with the goals outlined for the independent study by the student and his adviser.

Specialist project. The specialist project is another form of independent study in which each student engages. It is planned with reference to the professional goals of the student and his needs and interests as related to those goals. A written report will be made embodying the results of the investigation.

Overall guides for program requirements. In addition to the previously stated requirements, the following guides should be noted.

1. A **minimum of 30 semester hours** of graduate work beyond the master's degree, including the specialist project, must be **completed**.
2. **Fifteen hours** of course work must be completed **after admission to candidacy**.

3. **Candidates** may take a maximum of six semester hours through transfer from an institution with a recognized sixth-year graduate program. Course work so completed must be approved by the student's advisory committee as meeting program requirements.
4. At least 15 semester hours must be in **courses numbering 600 and above**.
5. Minimum residence requirements can be met through one regular enrollment period, exclusive of intersession, as a full-time graduate student.
6. **The expected time limit** for the completion for all requirements for the Ed.S. Degree is six years from the date of admission to the specialist degree program. All course credits must be earned within the eight-year period prior to the awarding of the degree.

The candidate for the Ed.S. Degree advances toward the awarding of that degree as he takes the following steps in the order indicated.

STEPS IN ADVANCEMENT TOWARD THE DEGREE

1. **Admission to the Graduate School.** The candidate has completed admission requirements when he has:
 - a. Filed admission data on forms secured through the Graduate School, including two official copies of transcripts from **all** colleges attended.
 - b. Identified for the Graduate School persons who can respond to the student's qualifications to engage in graduate study. Requested recommendations from two college faculty members and from two professional associates in administrative and/or supervisory roles are sent directly to the Graduate School.
 - c. Presented a score on the combined aptitude tests of the Graduate Record Examination above the 65th percentile, based on scores achieved by Eastern Kentucky University seniors within programs.
 - d. Requested appointment of a graduate advisory committee, through the department chairman. Usually three faculty members in the student's field of specialization constitute the committee.
2. **Admission to graduate study in the Ed.S. program.** The candidate may apply for admission to graduate study leading to the Ed.S. Degree when he has been admitted to the Graduate School and taken the following steps:
 - a. Satisfactorily completed admission examinations designated by the department.
 - b. Attained approval by the Ed.S. screening and selection committee.
 - c. Requested that the department chairman review with the candidate the membership on the graduate advisory committee. The student has the option of nominating at least one committee member from the graduate faculty.
 - d. Developed with his advisory committee a tentative program of studies.
 - e. Requested that his committee recommend admission to the Ed.S. program.

- 3. Admission to candidacy for the Ed.S. Degree.** A letter of request for admission to candidacy for the Specialist in Education Degree should be filed by the student with the chairman of his advisory committee.
- When a minimum of nine semester hours of graduate credit beyond the master's degree has been earned at Eastern Kentucky University. (A minimum of 15 semester hours must be taken **after** admission to candidacy.)
 - When work taken toward the Ed.S. Degree shows a grade point average of 3.3 or above.
 - When the advisory committee has approved the planned program of study and a copy of this program has been filed with the committee chairman, the department chairman, and the Dean of the Graduate School.

Following the student's initiation of application for candidacy, the committee through its chairman recommends candidacy to the Graduate Council.

- 4. Completion of degree requirements.** In working with the student toward the completion of degree requirements, the chairman of the advisory committee will take a leadership role. Other members of the committee will serve in a supporting role as requested by the chairman and/or the student. Major activities of the committee include

- advising with the student regarding the selection of his specialist project, assisting him in its development, and recommending approval of the written report of the project.
- participating in the final oral presentation and defense of the project.
- recommending the awarding of the Ed.S. Degree.

The student will be awarded the Specialist in Education Degree when he has met the following requirements:

- Completed course requirements (minimum of 30 semester hours) with a grade point average of not less than 3.0 (4 point scale).
- Satisfactorily passed final comprehensive written and/or oral examinations required by the department.
- Submitted the report of his specialist project, in writing, to members of his committee and secured their approval to arrange for an oral examination and defense of the project. (The completed project must be submitted to committee members at least one week prior to the scheduled defense. The oral defense must be scheduled at least three weeks prior to the close of the semester in which the degree is to be awarded.)
- Satisfactorily defended the project in an oral examination.
- Presented two **approved** copies of the project, unbound in final form, to the Graduate School at least three weeks before the close of a regular term or two weeks for the summer term in which the student is to be certified for graduation. In preparing final copies of the project, as well as the copies submitted in "c" above, it is recommended that the Turabian "Manual for Writers" be followed.

- f. Has prepared and presented to the Graduate School four copies of an abstract of 400 to 600 words suitable for publication. The abstract is due when copies of the project are filed.
- g. Filed an application for graduation as instructed by the Graduate School.

The Joint Doctoral Program in Education (Ed.D. Degree)

The College of Education provides course work for the major field of study in support of the Joint Doctoral Program cooperatively offered, through the Graduate School, with the University of Kentucky.

Special Program Requirements*

For Admission—The applicant should present a score of at least 1000 on the combined aptitude tests of the Graduate Record Examination.

Normally three years of appropriate experiences are required.

For Committee—The student's advisory committee shall be comprised of: three members of the graduate faculty from the University of Kentucky and two members of the graduate faculty from Eastern Kentucky University. At least one of the Eastern representatives will be from the College of Education.

For Residence—The student must complete a minimum of 18 semester hours of his doctoral course work, take the qualifying examinations, and complete the dissertation project at the University of Kentucky.

The minimum residence period at the University of Kentucky is one academic year.

For Program—The following majors are offered through the program: administration and supervision, foundations, guidance and counseling, vocational education, business education, curriculum—elementary, secondary, and special education.

Educational Administration (EAD)

CHARLES L. ROSS, Acting Chairman

The Department of Educational Administration, cooperating with other departments, offers course work for elementary and secondary principals, supervisors, school business administrators, and superintendents. Course work in these areas is designed for those who seek certification and Rank I programs. The Specialist in Education Degree is offered in administration and supervision.

*Students must also meet the general requirements of the cooperating graduate school.

Special Program Requirements*

All students seeking certification through the Department of Educational Administration must first make application and be admitted by the Graduate School to sixth year graduate work. The Department of Educational Administration admits the student to specific certification programs.

CURRICULUM FOR THE ELEMENTARY PRINCIPAL

The program of preparation for the Professional Certificate for School Administration and Supervision, endorsed for the position of Elementary School Principal, shall consist of a minimum of 45 semester hours graduate credit, including the master's degree, the Standard Elementary Teaching Certificate, and the administrative core.

Administrative Core: EAD 600, ELE 610, EAD 611, EPY 616, EAD 606. Minimum program length is 15 hours. Appropriate substitutions will be made for individuals having completed prescribed courses at the master's degree level.

Rank I Program Options: The individual holding the professional certificate in administration and supervision with specialization in the elementary principalship may, with the consent and assistance of his advisor, elect to complete additional areas of certification in administration, or he may elect to broaden his background for the elementary principalship, leading to Rank I.

CURRICULUM FOR THE SECONDARY PRINCIPAL

The program of preparation for the Professional Certificate for School Administration and Supervision, endorsed for the position of Secondary School Principal, shall consist of a minimum of 45 semester hours graduate credit, including the master's degree, the Standard High School Teaching Certificate, and the administrative core.

Administrative Core: EAD 600, EAD 611, EPY 616, EAD 609, and ESE 663. Minimum program length is 15 hours. Appropriate substitutions will be made for individuals having completed prescribed courses at the master's degree level.

Rank I Program Options: See statement under 'Elementary Principal'.

CURRICULUM FOR THE SUPERVISION OF INSTRUCTION

The program of preparation for the Professional Certificate for School Administration and Supervision, endorsed for the position of Supervisor of Instruction, shall consist of a minimum of 45 semester hours graduate credit, including the master's degree, either the Standard Elementary or Standard High School Teaching Certificate, and the administrative core.

Administrative Core: ELE 610, ESE 663, EAD 611, EPY 616; one approved special education course; and an acceptable graduate course in reading. Minimum length of program is 15 hours.

Rank I Program Options: See statement under 'Elementary Principal'.

*Students must also meet the general requirements of the Graduate School.

CURRICULUM FOR THE SUPERINTENDENCY

The curriculum for the school superintendent shall include a minimum of sixty semester hours graduate credit including the master's degree. Those students holding a professional certificate in administration and supervision with an endorsement as an elementary or secondary principal may find that a minimum of fifteen additional semester hours will qualify them for the superintendency. The superintendency certificate and the Rank I program in this area shall include the master's degree; either the elementary or secondary principalship program listed above; and ELE 610, ESE 663, EAD 602, EAD 603, EAD 605, and EAD 640, plus no less than six graduate hours of behavioral science.

CURRICULUM FOR THE SCHOOL BUSINESS ADMINISTRATOR

Prerequisite: Possession of the bachelor's degree from an accredited four year college or university with a major or minor in business or commerce, accounting or management. Candidates must be admissible to graduate study and provide evidence of commitment to a career in school business management.

Provisional certificate: No less than eighteen semester hours applicable toward the standard certificate for school business administrator, nine of which must be completed at Eastern; six of these nine hours must be graduate level courses. The applicant must check with the advisor as to other institutional and state requirements.

Standard certificate requires: a master's degree in the appropriate field, plus three years experience and other conditions set by the State Department of Education, plus the following: EAD 605, GBU 300, ACC 500, FIN 460, EAD 602, EAD 603, OAD 560, ACC 108 & 109; One course from EAD 636, EDF 632, EDF 636, or EDF 650; Two courses from: EAD 600, EAD 601, EAD 606, EAD 609, EAD 611, or EAD 640.

CONVERSION PROGRAMS

It is possible to convert from the elementary principalship to the secondary principalship, or vice versa, through taking additional graduate courses recommended by the student's advisor in the principalship program.

CURRICULUM FOR THE SPECIALIST IN EDUCATION DEGREE

The applicant for the Specialist in Education Degree must work closely with the advisor on such things as:

1. Evaluation of previous graduate work.
2. Fulfilling requirements set forth in the guidelines for Ed.S. Degree.
3. Completing required application blanks.
4. Establishing a program which lists courses to be taken for the area of specialization.

Admission: Acceptable scores on the Graduate Record Examination, and acceptable undergraduate and prior graduate academic record; a record of professional experience satisfactory to the Department.

Admission to Candidacy: Graduate School requirements, treated elsewhere in the Catalog, must be satisfied. Departmental requirements, including a positive assessment of the individual's professional promise, must be met.

Program: Curricula shall be individually planned; the program outlined below will be useful for general advisory purposes only. A minimum of 30 hours is required.

Research Core — EAD 698, 699, and EDF 695.

Administrative Core — EAD 600, 601, 602, 603, 605, 606, or 609, 611, ELE 610 or ESE 663.

Project — All candidates must complete an acceptable Specialist Project, EAD 698-699.

Comprehensives — Candidates will be expected to provide evidence of professional maturity through written and/or oral comprehensive examinations.

Course Descriptions

EAD EDUCATIONAL ADMINISTRATION

- 600 Introduction to Educational Administration. Three hours. I, II.**
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.
- 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 retaken under different subtitles.
- 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.

EAD EDUCATIONAL ADMINISTRATION

- 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.
- 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.
- 698 Project Development. Three hours. A.**
Prerequisites: Admission to Ed.S. Program and EDF 669 or equivalent.
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**

The Department of Educational Foundations provides graduate instruction as a service to all degree programs. Foundations 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**

- 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.

EDF EDUCATIONAL FOUNDATIONS

- 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.
- 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 retaken 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.
- 635 Critical Thinking in the Educational Process. Three hours. I, II.**
A study of the process of critical thinking in education. Exploration of techniques and materials for teaching the art of reasoning, defining problems, and analyzing and evaluating information.
- 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.
- 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 and EPC)

LOLA DOANE, Chairman

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
- Rehabilitation Counseling (option)
- 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

Special Program Requirements*

MASTER OF ARTS IN EDUCATION DEGREE

The Master of Arts in Education Degree with emphasis in counseling is required for provisional certification in elementary or secondary school counseling. The provisional certificate for school counselors shall be issued for a period of five years and may be renewed upon the completion of a minimum of eight semester hours of graduate credit every five years from a program leading to the standard guidance certificate. Applicants for certification should have had one year of teaching experience or one year of supervised internship in the school setting for which the individual plans to seek certification as a counselor.

Elementary School Counseling

Persons with undergraduate preparation in elementary education are eligible to major in elementary school counseling at Eastern Kentucky University. The typical course of study is outlined below:

*General requirements of the Graduate School must also be met.

PROFESSIONAL CORE COURSES

EPY 616 and EDF 669 are required; an additional three hours are required from either the area of historical and philosophical foundations of education or the area of curriculum and instructional methods.

COUNSELING AREA

EPC 613, 620, 625, 632, 640, EPY 642, EPC 602 or 646. Minimum of 21 hours.

ELECTIVES

EPC 602, 614, 622, 646, EPY 624, 654. Minimum of three hours. Prior to enrollment in a practicum course, the student should have completed a minimum of 20 semester hours in the graduate program.

Secondary School Counseling

Persons with undergraduate preparation in secondary education are eligible to major in secondary school counseling at Eastern Kentucky University. The typical course of study is outlined below:

PROFESSIONAL CORE COURSES

EPY 616 and EDF 669 are required; an additional three hours are required from either the area of historical and philosophical foundations of education or the area of curriculum and instructional methods.

COUNSELING AREA

EPC 613, 620, 622, 630, 640, EPY 642, EPC 602 or 646. Minimum of 21 hours.

ELECTIVES

EPY 555, 624, 643, 654, EPC 602, 614, 646.

Prior to enrollment in a practicum course, the student should have completed a minimum of 20 semester hours in the graduate program.

School Social Work

The Master of Arts in Education Degree with emphasis in school social work is offered cooperatively with the Department of Anthropology and Sociology. Teaching certification is prerequisite or corequisite for admission to the program.

PROFESSIONAL CORE COURSES

EAD 605, EPC 613, EPY 652, EDF 669 and three hours from the following: EDF 632, 636, 637, ELE 610, ESE 612, 663. Minimum of 15 hours.

SOCIAL WORK AREA

SWK 500, 505, 602, 607, 608. Minimum of 15 hours.

ELECTIVES

EPY 504, EPC 620, EPY 616, EPC 640. Minimum of 3 hours.

Provisional certification in school social work may be attained by completing fifteen hours from the Social Work Area and EPC 613.

School Psychometrist

Persons with a bachelor's degree in psychology or qualifications for a regular teaching certificate based on a bachelor's degree.

PROFESSIONAL CORE COURSES

EDF 669 and EDF 615 are required; an additional three hours are required from either the area of historical and philosophical foundations or the area of curriculum and instructional methods. Minimum of nine hours.

GUIDANCE, COUNSELING, AND MEASUREMENT AREA

EPC 613, EPY 642, 654, 616, 624, 656, and SED 625. Minimum of 21 hours.

ELECTIVES

Suggested electives: EPY 643, SED 602, RHB 617. Minimum of three hours.

MASTER OF ARTS DEGREE**Industrial and Community Services Counseling**

Completion of this program leads to the Master of Arts Degree. This degree does not require teacher certification. This program is designed to prepare guidance workers for service in a variety of settings such as rehabilitation and state employment agencies, clinics and community counseling agencies, business and industry, federal programs, sheltered workshops, social welfare agencies, and community employment and training projects.

REQUIRED COURSES

EPY 504, EPC 640, EDF 669, EPC 613, 602, 620, 636, EPY 616, EPC 622 or EPY 555. Minimum of 27 hours.

ELECTIVES

EPY 652, 624, 504, MGT 500. Minimum of 6 hours. Electives should be chosen to meet special areas of professional interest.

Prior to enrollment in a practicum course, the student should have completed a minimum of 20 semester hours in the graduate program.

Option in Rehabilitation Counseling

Persons preparing to work in rehabilitation counseling may elect the following option on the Master of Arts Degree in Industrial and Community Services Counseling. Prerequisites for this program include the following: (1) undergraduate major or minor in rehabilitation, or (2) completion of the following two courses: (a) RHB 500 (formerly RHB 402) — Mental Disabilities and Behavior Disorders and (b) RHB 509 — Biomedical Aspects of Exceptionality.

REQUIRED COURSES

EDF 669, SED 602, EPY 616, RHB 617, EPC 620, 636, 640, 646, EPY 555. SED 686. Minimum of 30 hours.

ELECTIVES

MGT 500, SWK 607, REC 620, SED 541, EPY 642, RHB 510, EPC 602. Minimum of 3 hours.

Student Personnel Services in Higher Education

Completion of this program leads to the Master of Arts Degree. The degree does not require teacher certification. This program is designed to prepare persons interested in various guidance and counseling functions inherent to institutions of higher education, i.e., the technical school, junior college, or college.

REQUIRED COURSES

EPC 640, EPY 616, EDF 669, EHE 690 or 695. EPC 613, 620, 622, 634, 644, 645. Minimum of 30 hours.

ELECTIVES

EPC 602, 646, EPY 504, 642, 654, ESE 691.

SPECIALIST IN EDUCATION**Student Personnel Services in Higher Education**

A minimum of 30 graduate hours is required beyond the master's degree for those with the master's degree in student personnel services. Persons with master's degrees in other disciplines will need to complete requirements for the master's degree in student personnel services.

PROFESSIONAL CORE COURSES

EDF 695, EPY 698, 699. Minimum of 9 hours.

COUNSELING AREA

EPY 642, EPC 651, EPY 643. Minimum of 9 hours.

ELECTIVES

ESE 697, MGT 500, PSY 622, 500, EPY 504. Minimum of 12 hours.

SCHOOL COUNSELING

A program of a minimum of 30 hours beyond the master's degree is designed to provide depth in counseling content for the prospective or practicing school counselor. Persons with master's degrees in other disciplines must complete all requirements at the master's degree level in Elementary School Counseling or Secondary School Counseling.

PROFESSIONAL CORE COURSES

EPC 691, EDF 695, EPY 698, 699. Minimum of 12 hours.

COUNSELING AREA

EPY 654, EPC 647 or 649, EPY 643, EPC 614. Minimum of 12 hours.

ELECTIVES

SED 522, LIB 569, EPY 504, PSY 622. Minimum of 6 hours.

CERTIFICATION PROGRAMS**Standard Pupil Personnel Certificate**

Persons interested in certification as directors of pupil personnel must complete the requirements for the standard certificate. The master's degree is prerequisite to admission to the program. Candidates may have completed the program for school counselors or in an appropriate teaching field. Candidates for the certificate must hold the standard teaching certificate as a prerequisite to eligibility for institutional endorsement for the pupil personnel certificate.

FOR PERSONS HOLDING THE STANDARD TEACHING CERTIFICATE

EPC 608, 613, SED 521, EPY 504, EPC 614, EPY 616. Minimum of 18 hours.

FOR PERSONS HOLDING THE PROVISIONAL GUIDANCE CERTIFICATE

EPC 608, SED 521, EPY 504, EAD 601, EAD 605. Minimum of 15 hours.

ELECTIVES

EPC 602, ACC 500. Minimum of three hours.

Standard Guidance Certificate (Rank I)

One year of full-time counseling with the provisional guidance certificate and an acceptable program of study at the sixth year level is prerequisite to endorsement of the standard guidance certificate.

PROFESSIONAL CORE COURSES

EPC 614, 602 or 646, 647 or 649, EPY 643, 654. Minimum of 15 hours.

ELECTIVES

PSY 622, EPC 691, EAD 611, EPY 504, EAD 605, MGT 500, POL 530.

Other electives as needed for the individual's program may be selected with consent of the advisor. Minimum of 15 hours.

Course Descriptions

EPY EDUCATIONAL PSYCHOLOGY

- 504 Psychology of Individual Differences. Three hours. A.**
Prerequisite: 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. A.**
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.
- 616 Tests and Measurements. Three hours. I, II.**
Study of the concepts, principles, and methods involved in the use of current tests and inventories. Emphasis 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.
- 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.

EPY EDUCATIONAL PSYCHOLOGY

- 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. A.**
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 retaken 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. A.**
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 theory, organization, and personnel practices involved in organizing and administering guidance programs.
- 620 Group Processes. Three hours. A.**
Theory and experiences to develop skill in and understanding of group dynamics and effective 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. A.**
Guidance practices for the elementary counselor, teacher, and other personnel, as derived from principles of child development.

EPC COUNSELING

- 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. 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 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. A.**
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. A.**
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.
- 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. 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

The Department of Elementary Education is primarily responsible for program advisement and development in the areas of elementary education, elementary education-reading, and elementary education-early childhood. Programs of study may lead to the Master of Arts in Education Degree, the Specialist in Education Degree, and/or Rank II, Rank I, and Reading Specialist certification for elementary teachers. For the teacher certified in another field, a combined degree and certification program is available.

Special Program Requirements*

MASTER OF ARTS IN EDUCATION

Emphasis in Elementary Education—This curriculum is designed to improve the professional competence and skills of teachers in elementary schools. Successful completion of the approved program qualifies the graduate for receipt of the standard elementary teaching certificates.

Professional Education Core 9 hours
 Elementary Education Component 9 hours

One course from ELE 668, ELE 671, ELE 673, ELE 675 is required.

Additional electives should be made from departmental offerings as approved by advisor.

Subject Matter or Approved Specialty 12 hours

Courses in specialty area or from other disciplines are mutually selected by the student and his advisor.

Elementary Education with emphasis in Reading—Eastern Kentucky University was the first institution in the Commonwealth to implement an organized program for the training of reading teachers. This program meets guidelines for certification as Reading Specialist and for the standard elementary certificate Rank II).

Professional Education Core 9 hours
 EDF 669, ELE 610, EDF 615 or EPY 616 or EPY 652

Reading Component 12 hours
 ELE 671 or 673, 668, 675, 677.

Subject Matter and/or Elementary Electives (Restricted) 9 hours
 Courses mutually selected by the student and his advisor.

Elementary Education with emphasis in Early Childhood—This program which satisfies requirements for the standard elementary teaching certificate is designed to equip the student for certification and/or leadership in the area of early childhood education.

Plan A—For persons already certified for Kindergarten Teaching

Professional Education Core 9 hours
 Early Childhood Education Component 15 hours

ELE 620, 625, 630, 671, EAD 608.

Electives 6 hours

Courses mutually selected by the student and his advisor.

*Candidates must also meet the general requirements of the Graduate School.

Plan B — For persons not certified for Kindergarten Teaching

Professional Education Core	9 hours
Early Childhood Education Component	25 hours
ELE 517, 519, 601, 620, 625, 630, 671, EAD 608.	

SPECIALIST IN EDUCATION

Emphasis in Elementary Education — The curriculum for the Specialist in Education Degree with emphasis in elementary education is designed to meet the needs of curriculum area specialists and regular classroom teachers who seek a high level of knowledge and competency. The degree program, which consists of a minimum of 30 hours beyond the master's degree, fulfills requirements for the Rank I Elementary Teaching Certificate.

Program requirements are:

Two years of successful experience in a certified position prior to formal admission.

Successful completion of admissions procedures and general requirements as specified in the general description for Ed.S. Degree programs.

Completion of Course Requirements.

Core Requirements:

EDF 695 Advanced Research Methodology	3 hours
ELE 698 Project Development	3 hours
ELE 699 Specialist Project	3 hours
Total Core	9 hours

One course from psychosocial aspects of education.

A minimum of eighteen additional hours at graduate level subject to student and committee approval.

Completion of the general requirements for the Specialist in Education Degree as specified in the general description for Ed.S. Degree programs.

For Rank II Certification, the Fifth Year Program — General policies governing the fifth year program leading to Kentucky Rank II certification appear in the general section of the College of Education. Requirements for elementary teachers, by area, appear below in general outline.

For the Candidate who wishes to transfer to a degree program, appropriate credits will be allowed toward degree requirements.

**CURRICULUM FOR FIFTH YEAR PROGRAM IN
ELEMENTARY EDUCATION:****Professional Education Core**

(Including one graduate level reading course	12 hours
Elementary Education and/or electives as approved by advisor	8 hours
Academically oriented courses as approved by the advisor	12 hours

Course Descriptions**ELE ELEMENTARY EDUCATION**

- 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.

ELE ELEMENTARY EDUCATION

- 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.
- 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.
- 601 Practicum in Kindergarten Education. Four hours. I, II.**
Prerequisites: ELE 517, ELE 519.
Observation and teaching under professional supervision.

ELE ELEMENTARY EDUCATION

- 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 retaken under different subtitles.
- 610 Elementary School Curriculum. Three hours. I, II.**
Study in depth of principles, practices, materials, and procedures in current curriculum development and revision in the elementary school.
- 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.
- 620 Theory and Philosophy in Early Childhood Education. Three hours. A.**
Survey of contemporary influences in early childhood education with concentration on assumptions and practices in various existing programs.
- 625 Cognitive Development of Young Children. Three hours. A.**
Study of the learning process in the development of young children with emphasis on theories of Piaget. Exploration of activities for facilitating and evaluating cognitive development.
- 630 Expressive Experiences in Early Childhood Education. Three hours. A.**
Creative experiences appropriate for young children in the areas of art, music, drama, games, and movement.
- 640 Career Education in Elementary Schools. Three hours. A.**
An exploration of the philosophy of career education and its implications and applications in elementary curriculum.
- 655 Gifted and Talented Youth. Three hours. A. CL ESE 655.**
Survey of the unique characteristics of gifted and talented youth, methods of identification, and educational needs.
- 656 Strategies for Teaching Gifted and Talented Youth. Three hours. A. CL ESE 656.**
Exploration of teaching strategies and curriculum materials appropriate for use with gifted and talented youth.
- 663 Social Science in Elementary Education. Three hours. A.**
Emphasis on social science disciplines in the elementary school programs. New developments in social studies curricula are explored.
- 664 Investigations in Language Arts. One to three hours. A.**
For students who desire to make a critical study of the investigative and theoretical literature dealing with the teaching of language arts (listening, spelling, handwriting, oral and written expression) in the elementary school. Research in the teaching of reading is not included.

ELE ELEMENTARY EDUCATION

- 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.
- 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 Elementary School 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.

ELE ELEMENTARY EDUCATION

- 677 Practicum in Remedial Reading. Three hours. A.**
Prerequisite: ELE 668 and ELE 675.
Supervised experiences in diagnosis and correction of reading problems.
- 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.

Library Science (LIB)

JUANITA PHILLIPS, Chairman

The Department of Library Science is responsible for program advisement and development leading to the Master of Arts in Education Degree with emphasis in Library Science and Rank II and Rank I programs for elementary and secondary school librarians.

MASTER OF ARTS IN EDUCATION DEGREE CURRICULUM

Prerequisites: Provisional Elementary Certificate and nine (9) hours of Library Science to include LIB 301 Children's Literature and six (6) hours of 500 Library Science courses.

PROFESSIONAL EDUCATION CORE 9 hours

LIBRARY SCIENCE:

500, 501, 502, 511, 521, 531, 563, 569, 601, 607, 60912-24 hours

ELECTIVES to complete certification requirements.

TOTAL CURRICULUM REQUIREMENTS MINIMUM30 hours

Prerequisites: Provisional High School Certificate and nine (9) hours of Library Science to include LIB 301 Children's Literature and six (6) hours of 500 level Library Science courses.

PROFESSIONAL EDUCATION CORE 9 hours

LIBRARY SCIENCE12-24 hours

ELECTIVES to complete certification requirements.

Teaching of reading (6 hours) required if student has not previously completed this requirement.

TOTAL CURRICULUM REQUIREMENTS MINIMUM30 hours

CERTIFICATION PROGRAMS

Rank II Certification, the Fifth Year Program

Prerequisites: Provisional Elementary Certificate or Provisional High School Certificate and nine (9) hours of Library Science.

PROFESSIONAL EDUCATION CORE:

Six hours from professional education core and six additional

hours of professional education12 hours

LIBRARY SCIENCE12-24 hours

ELECTIVES to complete certification requirements.

TOTAL CURRICULUM REQUIREMENTS MINIMUM32 hours

Rank I Certification, the Sixth Year Program

Individuals may earn the Rank I certificate and the school media librarian certification concurrently by completing certification requirements for school media librarianship.

TOTAL MINIMUM REQUIREMENTS30 hours

Prerequisite for all programs: Certification in Elementary Education or a secondary teaching field.

Course Descriptions

LIB LIBRARY SCIENCE

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. I.**
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.
- 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.
- 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.
- 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 retaken 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

The Department of Secondary and Higher Education provides graduate level offerings in secondary education, higher education and adult education. The Department, in cooperation with appropriate departments in the College of Applied Arts and Technology, the College of Arts and Sciences, and the College of Business offers the Master of Arts in Education Degree, Master of Music Education Degree and nondegree fifth- and sixth-year programs for secondary teachers. The Department is primarily responsible for program advisement and development.

Special Program Requirements*

MASTER OF ARTS IN EDUCATION

Emphasis in Secondary Education—This curriculum is designed to help students achieve goals and develop competencies in professional education, academic areas and interpersonal relationships. Successful completion of the approved program qualifies the graduate for the standard secondary teaching certificate.

Professional Education Core, minimum of 9 hours
Academic Specialization, minimum of 12 hours

These courses must be in an approved field or fields of interest outside professional education to strengthen the academic specialization.

Electives 9 hours

These courses are intended to strengthen the preparation of the teacher. The selection should be based on the individual needs of the teacher.

The Department offers the Master of Arts in Education-Secondary Education in the following areas:

Art, biology, business education, chemistry, earth science, English, French, general science, geography, history, home economics, industrial arts education, mathematics, music, physics, political science, reading, sociology and Spanish.

Curriculum in General Science:

General Information—The Departments of Biology, Chemistry, Geology, and Physics, in cooperation with the College of Education, offer the Master of Arts in Education Degree with emphasis in General Science. This degree is designed primarily for teachers of non-specialized science courses such as general science, life science, earth science and physical science. The program is intended to broaden the scientific background of the non-specialized science teacher and to help science teachers in all disciplines develop an ability to keep their teaching current—to recognize and introduce relevant new topics and discoveries as these become important and to adapt their teaching to the particular needs of the students and communities they will serve. This degree satisfies the requirements for standard certification but will not complete certification requirements in biology, chemistry, earth science or physics; however, courses taken may be applied toward such certification.

Admission — General requirements for the Master of Arts in Education must be met. The applicant should also be certified in at least one nonspecialized science.

Program — A total of twenty-one hours must be taken in courses from biology, chemistry, earth science or physics. Nine hours must be taken in professional education. Courses must be selected with approval of the student's committee which will be composed of one member of each science and one member of the College of Education. Emphasis of each student's program must be directed toward a balance in the four science areas. Courses chosen may be selected from the following:

Biology: BIO 597, 598, 599, 601, 602, 610, 611, 616, 647. **Chemistry:** CHE 511, 512, 613, 645. **Education:** EDF 669 (must be taken prior to the completion of nine hours) and one course from two of the following three areas: **Area I** — EDF 632, 636, 637. **Area II** — EDF 615, 650; EPY 616, 652. **Area III** — ESE 612, 663. **Geology:** GLY 501, 601. **Physics:** PHY 609, 610, 611.

MASTER OF MUSIC EDUCATION DEGREE

For Admission — Applicants for admission to the graduate music program must hold a valid teaching certificate and must hold the degree of Bachelor of Music, Bachelor of Music Education, Bachelor of Science in Music Education, or an equivalent degree from an accredited institution. Admission is based on evidence that the applicant will be able to pursue creditably a program of graduate study in music education.

Normally, undergraduate records should reflect an overall grade-point average of 2.75, and the undergraduate programs must show adequate preparation in the major fields and related fields, corresponding to the distribution of courses and credits usually found in departments certified by the National Association of School of Music.

Three letters of reference from persons qualified to judge competent work in the field of music or music education should be solicited by the candidate in support of his application. In addition, satisfactory performance on specific tests of musical knowledge and skills is a prerequisite.

For Program Planning — The general format of the program appears below. Additional details are available upon request to the Department of Music.

Music Education	10-12 hrs.
Music History & Literature, Structure and Organization of Music, Applied Music, Related Fields	8-12 hrs.
Research & Thesis (with option of Recital)	5 hrs.
Education*	5-10 hrs.
Total: 32 hrs. for graduation	

*Five hours of education and four hours of music education will qualify the student for the Standard Teaching Certificate.

For Thesis — Each candidate must submit a thesis which demonstrates an appropriate level of research and writing in the field of music education. Candidates may choose to (1) conduct experimental, descriptive, historical, philosophical, or analytical research; (2) investigate a problem in music education in the schools; (3) write an original project such as a book for children and

*Candidates must also meet the general requirements of the Graduate School. (See the General Academic Information section of the graduate catalog.)

young people, a methods book, or some other creative endeavor; (4) complete a bibliographical project; 5) complete an extensive curriculum project for school use.

For Recital — A graduate level recital may be presented in lieu of thesis. A paper explaining in detail the music to be performed for the graduating recital will be prepared and submitted to the major professor at least two weeks prior to the recital date.

For Comprehensive Examinations — The program will be culminated by a written or oral comprehensive examination testing the candidate's general knowledge of music and education. In addition, those students electing to write a thesis will stand a final oral defense of thesis.

For additional information contact Chairman, Department of Secondary and Higher Education or Dean, Graduate School, Eastern Kentucky University, Richmond, Kentucky 40475.

Course Descriptions

ESE SECONDARY EDUCATION

- 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 retaken 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 retaken for a maximum of six hours.

ESE SECONDARY EDUCATION

- 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 retaken by graduate students for 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.
- 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.
- 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 retaken 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.

ESE SECONDARY EDUCATION

- 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.
- 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.
- 655 Gifted and Talented Youth. Three hours. A. CL ELE 655.**
Survey of the unique characteristics of gifted and talented youth, methods of identification, and educational needs.
- 656 Strategies for Teaching Gifted and Talented Youth. Three hours. A. CL ELE 656.**
Exploration of teaching strategies and curriculum materials appropriate for use with gifted and talented youth.
- 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.

ESE SECONDARY EDUCATION

- 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 retaken for a maximum of six hours.
- 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 retaken for 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.

ESE SECONDARY EDUCATION

- 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.
- 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 retaken 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 retaken for a maximum of four hours 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 retaken under different subtitles only. May be retaken 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.

EHE HIGHER EDUCATION

- 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.
- 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.
- 516 Community Education. Three hours. A.**
Introductory course designed to provide the student with an overview of the concept, purpose, and process of community education.

Special Education and Rehabilitation (SED and RHB)

DAVID WILLIAMS, Chairman

The Department of Special Education and Rehabilitation offers graduate programs leading to the Master of Arts in Education and the Specialist in

Education degree in Special Education. Curricula are offered with emphasis on learning and behavior problems, trainable mentally retarded and hearing impaired. The Department offers programs for Fifth Year and Sixth Year certification, as well as Teacher Consultant and Director of Special Education.

All graduate programs prerequisite undergraduate degrees or Rank III equivalency certification in Special Education. Students who do not hold undergraduate certification in the area of exceptionality desired for the master's degree should consult with their graduate advisor regarding conversion procedures and programs.

The graduate curricula in Special Education were changed profoundly in order to meet new State certification requirements. You should stay in close contact with advisors regarding the continuation and adjustment of your programs.

MASTER OF ARTS IN EDUCATION

Professional Core	9 sem. hrs.
Special Education	12 sem. hrs.
Designated Electives	6 sem. hrs.
Restricted Electives	3 sem. hrs.
Total	30 sem. hrs.

Required Courses

Learning and Behavior Problems

SED 600, 602, 604, 605 (L & BD)	12 sem. hrs.
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Trainable Mentally Retarded

SED 600, 602, 605, (TMR), 606	12 sem. hrs.
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Hearing Impaired

SED 600, 602, 605 (HI), 608	12 sem. hrs.
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Designated Electives

	6 sem. hrs.
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Level 1. Preschool Education ELE 625, 630.

Level 2. Elementary Education ELE 530 or 531, EPC 620 or ELE 672, 673 or 675.

Level 3. Secondary Education. Two of:
EPC 620, ESE 574, 663.

Restricted Electives

To be selected from:

AGR 577, MUS 578, PHI 515, ELE 551, LIB 569, HEA 590,
REC 511, TRS 585.

SPECIALIST IN EDUCATION (Ed.S.)

The Ed.S. program was developed in order to provide in-depth preparation for leadership roles in the rapidly developing field of Special Education. The **minimum** number of hours to be completed beyond the MAEd is 30 sem. hrs. including:

Ed.S. Core	9 sem. hrs.
EDF 695, SED 698, 699	
Electives outside the Department	6-9 sem. hrs.
Specialization within the Department	12-15 sem. hrs.

FIFTH AND SIXTH YEAR CERTIFICATION

Fifth Year (minimum 32 hrs.)

Professional Core	6 sem. hrs.
Designated Electives (see MAEd program)	6 sem. hrs.
Special Education	12 sem. hrs.

*Learning & Behavior Problems: SED 600, 602, 604, 605.

*Trainable Mentally Retarded: SED 600, 602, 605, 606.

*Hearing Impaired: SED 600, 602, 605, 608.

*SED 601 (Practicum) must be added if and when needed for certification.

Restricted Electives (see MAEd program) 8 sem. hrs.

Sixth Year-Teaching (minimum 60 sem. hrs. if the MAEd program is included,
62 sem. hrs. if including the Fifth Year program)

Special Education courses approved by advisor15 sem. hrs.

Electives15 sem. hrs.

Completion of 6 sem. hrs. of Professional Core is a prerequisite.

Sixth Year — Diagnosis and Evaluation

Admission requirements include the MAEd in Special Education or Guidance and Counseling or Reading, or the MA in School Psychology as well as satisfactory experience.

Required courses (unless completed earlier) include:

SED 575 (exempt if MAEd is in Special Education)

600, 602, 605, 625, 68615-18 sem. hrs.

ELE 668, 671 or 673, 675 9 sem. hrs.

EPY 616, 623, 624, 64212 sem. hrs.

TEACHER CONSULTANT AND DIRECTOR OF SPECIAL EDUCATION

The new state certification guidelines include two administrative certificates which replace the former Supervision of Special Education certificate. Admission requirements include provisional certification in an area of exceptionality as defined by the new guidelines, three years of experience as a special education teacher, and completion of the MAEd or Fifth Year program.

Teacher Consultant of Special Education

Required coursework: SED 611, 612, 613 9 sem. hrs.

Director of Special Education

Required coursework: SED 611, 612, 613, 615, 616, EAD 60018 sem. hrs.

*These courses will be available only for students who have been previously admitted to a special education program prior to Fall 1976.

Course Descriptions

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.
- 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.

SED SPECIAL EDUCATION

- 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.
- 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.
- 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 retaken 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.

SED SPECIAL EDUCATION

- 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.
- 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

- 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 professionals' work in programs for the retarded, mental hospitals and clinics, institutions for delinquents, and penal institutions is emphasized. Problems of readjustment in home and community, and employment possibilities are discussed.

RHB REHABILITATION

- 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 services to handicapped individuals.
- 509 Bio-Medical Aspects of Exceptionality. Three hours. I.**
Formerly RHB 401 and SED 611.
Prerequisites: BIO 171 and BIO 301 or approval of instructor.
Bio-medical aspects of physical conditions and diseases which are pertinent to special educators, rehabilitation counselors and other educational personnel.
- 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. Departmental seminar and individual conferences are held weekly to support and evaluate the field experiences.
- 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 retaken under different subtitles.
- 617 Evaluating the Handicapped Individual. Three hours. A.**
Prerequisite: EPY 616.
A study of the devices and procedures used by rehabilitation professionals 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 is primarily responsible for advisement and program development for the following programs: Master of Arts in Education with emphasis in physical education, allied health sciences education, school health education; Master of Science programs in physical education; sports administration and in recreation and park administration; Specialist in Education programs in physical education; Rank II (fifth year non-degree) programs in school health education and in physical education; and Rank I (sixth year non-degree) programs in physical education and School Health Education.

School Health Education (HEA)

HERMAN BUSH, Chairman

Increasing concern with the general state of knowledge in the area of health has furnished the impetus for this graduate program in health for teachers. Provision is made for the student with an undergraduate minor preparation in school health education.

MASTER OF ARTS IN EDUCATION

Curriculum for Master of Arts in Education with an emphasis in School Health Education

Plan I

(Assumes at least a minor in school health education.)

Professional Education	9 hours
School Health Education Core (HEA 500, 600, 650)	9 hours
School Health Education Electives	3 hours
(To be selected with the advisor from the following)	
HEA 575, 590, 607, 620, 675, 680, 697	
Other Electives	9 hours

Plan II

Professional Education	9 hours
School Health Education Core	9 hours
HEA 500, 600, 650	
School Health Education Electives	12 hours
HEA 575, 590, 607, 620, 675, 680, 697	

Curriculum for Master of Arts in Education with an emphasis in Allied Health Sciences Education

This program emphasis has been established in response to the demand for qualified educators in the allied health fields. The intent of the program is to prepare allied health personnel to assume teaching roles in their areas of competencies. The prospective student will be expected to possess a license where appropriate, and have at least two years of experience in their specialty field. Students not meeting these qualifications may request a review of their credentials by a graduate faculty committee for an individual ruling. Public school teaching certification is not required for entrance to the program.

Professional Education	9 hours
Required Courses:	
HEA 698 and 699 or HEA 697	6 hours
EHE 690 or 691	3 hours
LIB 563 or 569	3 hours

Elective Courses:

Selected with the approval of advisor and resource person from student's specialty	9 hours
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Non-Degree Programs

Fifth Year Non-Degree Program in School Health Education

Professional Education Core	12 hours
School Health Education Core	15 hours
Other Electives	5 hours

Rank I, Sixth Year Program in School Health Education

The sixth year non-degree program is available to students who have completed a Master's degree or Rank II.

Plan I

(Curriculum for students who do not have an emphasis in School Health Education at the Master's degree or Rank II level.)

School Health Education Core

HEA 500, 600, and 650 9 hours

Restricted Electives in School Health Education

Select from HEA 575, 590, 607, 620, 675, 680, and 697 (Approved by Advisor) 15 hours

Professional Education Electives

(Approved by Advisor) 6 hours

Plan II

(Curriculum for students who have Rank II or a Master's degree with an emphasis in School Health Education.)

School Health Education (Approved by Advisor) 9 hours

Professional Education Electives (Approved by Advisor) 6 hours

Other Electives (Approved by Advisor) 15 hours

Course Descriptions**HEA SCHOOL AND PUBLIC HEALTH**

- 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.
- 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.
- 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 retaken 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.

Physical Education (PHE)

FRED DARLING, Co-Chairman

ANN UHLIR, Co-Chairman

The Department of Physical Education offers numerous teaching and non-teaching graduate programs. These programs are outlined below.

MASTER OF ARTS IN EDUCATION

Curriculum for Master of Arts in Education with an emphasis in Physical Education. Teacher certification is a co-requisite to this program.

Professional Education	9 hours
Physical Education Core	6 hours
PHE 621, 622, 630, 649, 652	
General Physical Education Electives	6 hours
Physical Education Specialization and Electives	9 hours
Total Curriculum Requirements	30 hours

MASTER OF SCIENCE

Teacher certification is **not** prerequisite to the Master of Science program in physical education. The program is designed to satisfy the interests of individuals anticipating service in higher education, recreation, or other institutional settings.

Curriculum for Master of Science in Physical Education

Professional Education — EDF 669	3 hours
Physical Education Core	
PHE 621, 649, 652, and 680 or 695	12 hours
Physical Education Restricted Electives	

(To be selected from the following)

PHE 620, 622, 623, 624, 625, 630, 633, 650, 651, 662, 669, 675, 680, 691, 695, 698	9 hours
Other Electives	6 hours
Total Curriculum Requirements	30 hours

MASTER OF SCIENCE**Curriculum for Master of Science in Physical Education with an Emphasis in Sports Administration**

Professional Education — EDF 669	3 hours
Sports Administration Core	18 hours
PHE 622, 651, 669, ACC 510, EAD 605, COM 500	
Restricted Electives	3 hours
PHE 620 or REC 640	
Internship in Sports Administration — PHE 670	1-6 hours
Electives	0-5 hours
Total Curriculum Requirements	30 hours

SPECIALIST IN EDUCATION

The Specialist in Education Degree is a sixty hour graduate program which may be entered with a bachelor's or master's degree by the holder of an undergraduate degree with a major or minor in physical education. For those entering the program at the fifth year level, the M.A. in Education or M.S. Degree may be earned enroute to the Specialist in Education Degree. Requirements for the sixty hour program follow.

Curriculum for Specialist in Education Degree in Physical Education

Physical Education Core	
PHE 649, 650, 651, 652, 675, 691, 695, 698 and 699	27 hours
Education Requirement	
EDF 695 plus six approved hours	9 hours
Physical Education Restricted Electives	
(To be selected from the following)	
PHE 620, 621, 622, 624, 625, 630, 633, 662, 669, 680	18 hours
Other Electives	6 hours
Total Curriculum Requirements	60 hours
Curriculum for Fifth Year Non-Degree Program in Physical Education	
Professional Education	12 hours
Physical Education	12 hours
Electives approved by advisor	8 hours

Curriculum for Sixth Year Non-Degree Program in Physical Education

The sixth year non-degree program is available to students with Rank II or master's degree desiring an additional thirty hours of graduate course work. These thirty hours will include as many of the following courses as the student has not completed at the master's level:

Physical Education Core	
PHE 649, 650, 651, 652, 675, 695	18 hours
Other Electives	
(Thirteen to thirty hours to complete a thirty hour program)	12 hours

Curriculum for Elementary Physical Education Endorsement for Graduate Level Students Holding Secondary Physical Education Certification

A. PHE 323 and 6 hours from PHE 521, 596, 633	9 hours
B. ELE 541 or ELE 610	3 hours
C. PHE 324	3 hours
D. EDF 317	3 hours
Total Curriculum Requirements	18 hours

Course Descriptions

PHE 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.**
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 retaken for a total of one credit hour.
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.

PHE PHYSICAL EDUCATION

- 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, rhythmic 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.
- 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.
- 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.

PHE PHYSICAL EDUCATION

- 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.
- 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 retaken for maximum of three hours.

PHE PHYSICAL EDUCATION

- 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 Assessment in 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 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 retaken 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

The Department of Recreation and Park Administration is responsible for program advisement and development leading to the Master of Science Degree in Recreation and Park Administration. Concentrated study is offered with areas of specialization in administration, camping and outdoor education, outdoor recreation, and therapeutic recreation.

Special Program Requirements*

MASTER OF SCIENCE

The Master of Science program prepares students for recreation leadership and administrative careers in government, private enterprise and college teaching. The program provides for study in a specialized area and for study in breadth in selected allied areas.

Prerequisites — An undergraduate background with a major or minor in recreation or a major in a related field is required. Students who have not completed an undergraduate major in recreation may be required by the graduate advisory committee to supplement their degree program with additional undergraduate course work to eradicate defined undergraduate deficiencies.

Courses open to graduate students assume some foundation in recreation and park programming, organization, management, utilization and operation of facilities, budgeting, and legal matters. Individuals with backgrounds in biology, business, physical education, and sociology frequently find significant professional opportunities in recreation.

Program — All students must complete 30 semester hours including EDF 669, Research in Education. Eighteen hours must be completed in the core area of recreation, nine hours of which are in one of the functional areas of: administration, camping and outdoor education, outdoor recreation, or therapeutic recreation. Nine hours of related interdisciplinary course work will be selected in consultation with the student's advisor.

Admission to Candidacy — The student's committee will make an appraisal relative to professional and academic promise. Any deficiency in English, written or spoken, must be removed. A satisfactory score on the aptitude sections of the Undergraduate or Graduate Record Examination is required prior to admission to candidacy for the degree.

*Students must also meet the general requirements of the Graduate School.

Thesis — The thesis is optional in this program.

Comprehensives — During the last term of residence, the student must pass a written and/or oral comprehensive examination covering his major area of study.

Course Descriptions

REC RECREATION AND PARK ADMINISTRATION

- 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 retaken for a 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. A supervised practical experience is required.
- 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. A supervised practical experience is required.

REC RECREATION AND PARK ADMINISTRATION

- 590 Recreation Workshop. One to three hours. A.**
(May be retaken 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.**

College of Law Enforcement

Robert W. Posey, Dean
Truett A. Ricks, Associate Dean

The study of criminal justice is viewed as an applied social science educational endeavor. At the master's level, the College of Law Enforcement aims to prepare personnel for teaching at the higher educational level and for decision-making and policy-making positions in police, corrections, juvenile and judicial systems. Joint doctoral level programs offered in cooperation with other universities are designed to prepare personnel for college teaching, research, and major decision-making positions in police, corrections and criminal justice planning areas.

The basic objectives of the graduate programs are based upon the assumption that criminal justice decision-making and policy-making in a modern democratic society requires a broad academic experience, innovative thinking, including theoretical foundations of the field, appropriate research methods and principles of administration applicable in this field.

A major focus is to demonstrate that criminal justice in the United States and problems associated with crime and delinquency must be viewed within the context of a democratic society rather than an isolated system. This leads to the analysis of major elements within criminal justice — police, courts, and corrections — as highly related elements in a total system in which decisions regarding crime and justice in one sphere can have consequences in other spheres.

It is therefore expected that graduates of the master's or joint doctoral programs will be:

- 1) conversant with the theoretical and legal principles implicit in criminal justice administration;
- 2) knowledgeable of the essential research contributions in the field;
- 3) capable of research analysis appropriate to the field; and
- 4) competent to assume administrative responsibilities involving decision-making in one of the areas of criminal justice administration, or competent to teach at the higher education level in this field of study.

Special Program Requirements*

MASTER OF SCIENCE

For Admission — Students who have completed an undergraduate major in law enforcement will be accepted into the program. Students from other disciplines will be admitted, but may be required by the graduate advisory committee to eradicate defined undergraduate deficiencies. An overall undergraduate grade point average of 2.75 is normally expected.

For Admission to Candidacy — Satisfactory scores on the aptitude tests of the Graduate Record Examination are required for admission.

For Program — A minimum of 30 semester hours of graduate credit is required. The following courses are required of all students: Special Problems in Criminal Law (CRJ 640) and Research Methods (CRJ 688). Specialization may be chosen from criminal justice education, police administration, criminology, corrections and juvenile justice.

Curriculum for Specialization in Criminal Justice Education

Core Courses	6 hours
CRJ 640, CRJ 688	
Education Core	7 hours
EHE 690, EHE 698, EHE 699	
Subject Matter Core	9 hours
CRJ 610, CRJ 620, CRJ 630	
Elective	9 hours
	31 hours

Curriculum for Specialization in Police Administration

Core Courses	6 hours
CRJ 640, CRJ 688	
Subject Matter Core	15 hours
CRJ 610, CRJ 611, CRJ 630, CRJ 650, CRJ 657	
Elective	9 hours
	30 hours

Curriculum for Specialization in Criminology

Core Courses	6 hours
CRJ 640, CRJ 688	
Subject Matter Core	15 hours
CRJ 630, CRJ 670, CRJ 675, CRJ 677, CRJ 679	
Elective	9 hours
	30 hours

Curriculum for Specialization in Corrections

Core Courses	6 hours
CRJ 640, CRJ 688	
Subject Matter Core	15 hours
CRJ 630, CRJ 631, CRJ 635, CRJ 655, CRJ 656	
Elective	9 hours
	30 hours

*Student must also meet the general requirements of the Graduate School.

Curriculum for Specialization in Juvenile Justice

Core Courses	6 hours
CRJ 640, CRJ 688	
Subject Matter Core	15 hours
CRJ 620, CRJ 621, CRJ 635, CRJ 655 or CRJ 656, CRJ 666	
Elective	9 hours
	<u>30 hours</u>

For Thesis — A thesis is optional in this program. An oral defense of the thesis is required.

For Comprehensives — All students are required to pass a written comprehensive examination.

Course Descriptions**CRJ CRIMINAL JUSTICE**

- 610 Advanced Police Administration. Three hours. A.**
An examination of the functions of the police in the system of criminal justice; principles of organization, administration, police formulation, and management of personnel; statutory limitations on authority and jurisdiction; professionalization of the police.
- 611 Applied Study in Police Administration. Three hours. A.**
Supervised study in an approved police setting designed to provide the student an opportunity to synthesize theory and on-the-job situations. Individual conferences.
- 620 Seminar in Juvenile Justice. Three hours. A.**
Theoretical and empirical study of the etiology, distribution, and extent of delinquency; problems involved in measuring delinquency; role of the police and courts; legal statutes; critical examinations of treatment and prevention programs.
- 621 Applied Study in Juvenile Justice. Three hours. A.**
Supervised study in an approved juvenile justice agency designed to provide the student an opportunity to synthesize theory and on-the-job situations. Individual conferences.
- 630 Seminar in Criminology and Corrections. Three hours. A.**
A seminar designed to explore criminological theories and practices regarding causes of criminal behavior; contemporary philosophies, legal codes and methods of treating offenders; the social structure of the institution; measures for the prevention of crime.
- 631 Applied Study in Corrections. Three hours. A.**
Supervised study in an approved correctional setting designed to provide the student an opportunity to synthesize theory and on-the-job situations. Individual conferences.
- 635 Correctional Administration. Three hours. A.**
Formerly CRJ 520.
An examination of the contemporary approaches to Correctional Administration and their theoretical roots, including focus upon management information systems, management by objectives and organizational development. Focus on Correctional personnel as agents of change.
- 640 Special Problems in Criminal Law. Three hours. A.**
An advanced study of theories in criminal law and criminal procedure; the relationship of criminal law to the prevention of criminal behavior and to rehabilitation; techniques of legal research.

CRJ CRIMINAL JUSTICE

- 650 Seminar in Criminalistics. Three hours. A.**
An overview of investigative techniques and criminalistics, utilizing case studies to build an historical perspective of this area and a sensitivity to legal requirements of evidence and its presentation.
- 655 Group Theory and Methods for the Correctional System. Three hours. A.**
Group theory and methods relevant to staff development and treatment of offenders are studied in the classroom and practiced in a laboratory setting.
- 656 Legal and Ethical Issues in Corrections. Three hours. A.**
An analysis of the impact of federal and state laws, court decisions, and moral and ethical issues in relation to treatment procedures for adult and juvenile offenders. Emphasis on offender's retention of constitutional guarantees and "right to treatment" issues.
- 657 Criminal Justice Planning. Three hours. A.**
Overview of planning as a component of the criminal justice system; emphasis on characteristics of effective planning; review of operation of various State Planning Agencies, Law Enforcement Assistance Administration, and U.S. Department of Justice.
- 660 Advanced Criminal Justice Administration. Three hours. A.**
An analysis of structures characteristic of elements within the criminal justice system and interactional processes within each element, between elements and between the criminal justice system and other social systems.
- 663 Seminar in Public Law. Three hours. A.**
(CL POL 633)
Prerequisite: Permission of instructor.
Study in depth of selected problems in public law, particularly as they concern the relationships between judicial behavior and compliance behavior.
- 666 Law and the Juvenile Justice System. Three hours. A.**
A study of laws relevant to the juvenile justice system with a major focus on further development of laws in terms of current needs and social situations of juvenile offenders.
- 670 Theories of Criminology and Delinquency. Three hours. A.**
Review of classical and current theories of criminology and delinquency and the underlying assumptions of each. Particular attention given to the interaction between ecological factors and the criminal justice system.
- 675 Social Ecology and the Criminal Justice Systems. Three hours. A.**
An analysis of time and space factors characteristic of the human environment in communities in the United States. Particular attention given to the interaction between ecological factors and the criminal justice systems.
- 677 Social Change and the Criminal Justice System. Three hours. A.**
Review of significant social changes in twentieth century America and the relation between these and the concepts implicit in law and the criminal justice system. Attention given to effects of social change in the future of the Criminal Justice System.
- 679 The Study of Victims. Three hours. A.**
Comprehensive study of victimization; analysis of contemporary victim-compensation programs and related research; and review of the historical importance of victim restitution as a basis for punitive criminal law.

CRJ CRIMINAL JUSTICE

- 683 Seminar on Criminal Justice Data. Three hours. A.**
Study of data available; sources, limitations, advantages and means of verifiability. Analysis of data in one of the components of the criminal justice system.
- 685 Intermediate Statistics for Criminal Justice Systems. Three hours. A.**
Prerequisite: LEN 400 or equivalent.
Parametric (linear and non-linear) relationships.
Distribution free (non-parametric) relationships.
- 686 Multivariate Analysis and Advanced Experimental Design. Three hours. A.**
Prerequisite: CRJ 685 or equivalent.
One- and two-way classifications, nesting, blocking, multiple correlations, incomplete designs, variance components, factorial analysis.
- 688 Research Methodology in Criminal Justice Systems. Three hours. A.**
Prerequisite: LEN 400 or equivalent.
Local, state, federal and international sources of information; observational, rating and survey techniques, sociometrics; anecdotal records, behavioral measurement; longitudinal approaches; proposal writing; selection of methodologies.
- 690 Topical Seminar in Criminal Justice. Three hours. A.**
May be retaken to a maximum of 12 hours on different topics.
- 697 Independent Study in Criminal Justice. Three or six hours. A.**
Individual investigations in the field of criminal justice. Investigations may be conducted in the field and under the supervision of the research advisor and other staff members.
- 698 Thesis I. Three hours. A.**
- 699 Thesis II. Three hours. A.**

Graduate Faculty

NAME	DEPARTMENT
R. Dean Acker, A.B., M.Ed., Ed.D.	Educational Administration
Jack L. Adams, B.S., M.A., Ed.D.	Physical Education
Keith Algier, B.A., M.A., Ph.D.	History
James H. Allen, A.B., M.A., P.E.D.	Educational Psychology & Counseling
Charles F. Ambrose, A.B., M.A., Ed.D.	Educational Psychology & Counseling
John B. Anglin, B.S., M.S., M.A.T., Ed.D.	Educational Psychology & Counseling
Richard F. Armstrong, B.A., M.A., Ph.D.	Anthropology, Sociology & Social Work
Robert E. Bagby, B.A., M.E.D., Ph.D.	Police Administration
Ann S. Bardwell, B.S., M.S., Ph.D.	Home Economics
Robert H. Barker, B.A., Ph.D.	Elementary Education
Dixon A. Barr, B.S. in Ed., M.A., Ed.D.	Secondary & Higher Education
Donald L. Batch, B.S., M.S., Ph.D.	Biological Sciences
Robert J. Baugh, B.S., M.S., H.S.D.	School & Public Health
Thomas B. Beardsley, B.S., M.Ed., Ed.D.	Educational Psychology & Counseling
Charles A. Beeler, B.M., M.A., Ph.D.	Music
Victor I. Bendall, B.S., M.S., Ph.D.	Chemistry
Richard L. Benson, B.A., M.A., Ph.D.	Speech & Theatre Arts
William H. Berge, A.B., M.A., Ph.D.	History
Alan R. Bettler, A.B., M.A., Ph.D.	Foreign Languages
Joseph A. Biesinger, B.S., M.A., Ph.D.	History
John T. Black, B.S., M.A., J.D.	Police Administration
Paul D. Blanchard, B.A., M.A., Ph.D.	Political Science
Paul E. Bland, B.A., M.A., Ph.D.	Mathematical Sciences
Harold R. Blythe, B.A., M.A., Ph.D.	English
Ursel D. Boyd, J.D., M.A., Ph.D.	Foreign Languages
Branley A. Branson, A.B., B.S., M.S., Ph.D.	Biological Sciences
Emery Brewer, A.B., M.A., Ph.D.	Educational Foundations
Michael H. Bright, A.B., Ph.D.	English
Danny G. Britt, B.S., M.S., Ph.D.	Agriculture
James F. Brooks, B.S., M.S., Ph.D.	Mathematical Sciences
W. Gordon Browning, B.A., M.A., Ph.D.	English
John D. Burkhardt, B.A., M.A., Ph.D.	Home Economics
Robert E. Burkhardt, B.B.A., M.A., Ph.D.	English
Sylvia D. Burkhardt, B.A., M.A., Ph.D.	Foreign Languages
Gene E. Burton, B.B.A., M.B.A., Ph.D.	Business Administration
Herman S. Bush, A.B., M.A., H.S.Dir., H.S.D.	School & Public Health
Ernest E. Byrn, B.S., Ph.D.	Chemistry
Robert L. Byrne, B.S. in Ed., M.Ed., Ed.D.	Elementary Education
Elba B. Cairncross, B.A., M.A., Ed.D.	Secondary & Higher Education
Gerald F. Calkin, A.B., M.S., M.A., Ph.D.	Physical Education
Christine Calvert, B.S., M.S., Ph.D.	Home Economics
Glenn O. Carey, A.B., M.A., Ph.D.	English
Romeo E. Cartier, Jr., B.S., M.S., Ph.D.	School & Public Health
Anne M. Chase, B.S., M.S., Ph.D.	Secondary & Higher Education
Gary K. Chastain, B.S., M.S., Ed.D.	Industrial Education & Technology

NAME	DEPARTMENT
Henry E. Cheaney, A.B., A.M., Ph.D.	History
Agnes L. Chrietzberg, B.S., M.S., Ph.D.	Physical Education
William M. Clarkson, B.A., M.A., Ph.D.	Foreign Languages
Kenneth T. Clawson, B.S., M.A., Ph.D.	Secondary & Higher Education
Richard M. Clewett, B.A., M.A., Ph.D.	English
LaRue Cocanougher, A.B., M.A., Ed.D.	Educational Administration
Stephen H. Coe, A.B., M.A., Ph.D.	History
Thomas P. Collins, A.B., M.A., Ed.D.	Educational Foundations
Donald A. Cooper, B.S., M.A., Ed.D.	Music
Clyde O. Craft, B.S., M.A., Ed.D.	Industrial Education & Technology
Effie B. Creamer, B.S., M.S., Ph.D.	Home Economics
Glynn N. Creamer, B.A., M.Ed., Ed.D.	Secondary & Higher Education
Robert O. Creek, B.S., M.S., Ph.D.	Biological Sciences
Jacqueline B. Cross, B.A., M.A., Ph.D.	Foreign Languages
Jack L. Culross, B.S., M.A., Ph.D.	English
Judith A. Cunningham, A.B., M.A., Ed.D.	Secondary & Higher Education
Fred E. Darling, B.S., M.A. in Ed., Dir.R., Dir.P.E., Re.D.	Physical Education
James E. Davidson, B.S., M.S., M.A.T., Ed.D.	Elementary Education
John E. Davidson, B.S., M.S., Ph.D.	Chemistry
Francis X. Davy, A.B., M.A., Ph.D.	English
Edmond G. Deal, A.B., M.S., Ph.D.	Geology
John M. Deck, B.S., M.S., P.E.Dir., P.E.D.	Physical Education
Wietse de Hoop, B.A., M.S., M.A., Ed.D.	Special Education & Rehabilitation
J. Linward Doak, A.B., M.A., Ed.D.	Educational Psychology & Counseling
Lola T. Doane, A.B., M.A., Ph.D.	Educational Psychology & Counseling
Jack L. Dyer, B.S., M.B.A., D.B.A., C.P.A.	Accounting
Howard L. Eldot, B.Ed., M.S., Ph.D.	Special Education & Rehabilitation
Russell F. Enzie, B.S., M.S., Ph.D.	Psychology
Steven D. Falkenberg, B.A., M.A., Ph.D.	Psychology
Virginia Falkenberg, B.S., M.S., Ph.D.	Psychology
Jerry S. Faughn, B.S., M.S., Ph.D.	Physics
Nancy K. Forderhase, A.B., M.A., Ph.D.	History
R. Eugene Forderhase, A.B., A.M., Ph.D.	History
Bette D. Fox, B.A., M.A., Ph.D.	Police Administration
James W. Fox, B.A., M.S., Ed.D., Ph.D.	Correctional Services
David D. Gale, B.S., M.S., Ph.D.	Allied Health & Nursing
Robert W. Genthner, B.A., M.A., Ph.D.	Psychology
Richard L. Gentry, B.S., M.A., Ed.D.	Physical Education
Ted M. George, B.A., M.A., Ph.D.	Physics
Charles H. Gibson, Jr., B.S., M.A., Ph.D.	Educational Foundations
Hugh R. Gilliland, B.S., M.S., Ed.D.	Industrial Education & Technology
Marion H. Gillim, A.B., M.A., Ph.D.	Economics
Lloyd J. Graybar, A.B., M.A., Ph.D.	History
Kenneth D. Griffith, B.S., M.B.A., C.P.A.	Accounting
Robert N. Grise, A.B., M.A., Ed.D.	Educational Foundations
Jane Gurganus, A.B., M.A., Ph.D.	Political Science

NAME	DEPARTMENT
Oberita Hager, B.A., M.A., Ph.D.	Business Administration
Donald C. Haney, B.S., M.S., Ph.D.	Geology
Kenneth S. Hansson, B.S., M.Ed., Ph.D.	Industrial Education & Technology
Dorothy W. Harkins, B.S., M.S., Ed.D.	Physical Education
John P. Harley, B.A., M.A., Ph.D.	Biological Sciences
Dominick J. Hart, B.S., Ph.D.	English
Arthur W. Harvey, B.S., M.M., D.M.A.	Music
Klaus H. Heberle, B.A., M.A., Ph.D.	Political Science
Charles T. Helfrich, B.A., M.S.S., Ph.D.	Geology
Roberta C. Hendricks, B.S., M.A., Ed.D.	Elementary Education
Donald G. Henirckson, B. Mus., M.M., D.M.A.	Music
H. Richard Hensel, B.M., M.M., D.M.A.	Music
Edwin A. Hess, B.S., M.S., Ph.D.	Biological Sciences
Norman C. Hester, B.S., M.S., Ph.D.	Geology
Janet G. Hibbard, B.S., M.A., Ed.D.	Business Administration
Kathleen K. Hill, B.S., M.A., Ph.D.	Foreign Languages
Ordelle G. Hill, B.A., M.A., Ph.D.	English
C. Douglas Hindman, B.A., M.S., Ph.D.	Psychology
Bruce D. Hoagland, B.S., M.S., D.M.A.	Music
Harry P. Hoge, B.S., M.S., Ph.D.	Geology
Emogene M. Hogg, B.S., M.A., Ed.D.	Business Education
Harold Z. Holmes, Jr., B.S., M.S., Ph.D.	Physical Education
Joseph M. Howard, B.S., A.M., Ed.D.	Elementary Education
Bonnie B. Hume, A.B., M.A., Ed.D.	Educational Foundations
Carl E. Hurley, B.S., M.Ed., Ed.D.	Secondary & Higher Education
John D. Jenkins, B.S., M.A., Ed.D.	Industrial Education & Technology
Sanford L. Jones, B.S., M.S., Ph.D.	Biological Sciences
Jerry E. Joyner, B.S., M.S., Ed.D.	Industrial Education & Technology
James M. L. Karns, B.S., M.A., Ph.D.	Economics
Thomas L. Keefe, B.S., M.S., Ph.D.	Biological Sciences
Quentin B. Keen, B.A., M.A., M.A.Ed., Ph.D.	History
Amy P. King, B.S., M.A., Ph.D.	Mathematical Sciences
Milton S. King, B.B.A., M.S., D.B.A.	Business Administration
Robert L. Kline, B.S., M.A., Ph.D.	Political Science
Timothy J. Kubiak, B.A., M.A., Ph.D.	Geography
Karl F. Kuhn, B.A., M.S., Ph.D.	Physics
Tae-Hwan Kwak, B.A., M.A., Ph.D.	Political Science
Christopher E. Laird, B.S., M.S., Ph.D.	Physics
Larry M. Landry, B.S., M.S., Ph.D.	Mathematical Sciences
Bennie R. Lane, B.A., M.A., Ph.D.	Mathematical Sciences
J. Stuart Lassetter, B.S., M.S., Ph.D.	Biological Sciences
James A. Lee, A.B., M.A., Ph.D.	Psychology
Samuel S. Leung, B.S., M.S., Ph.D.	Geology
Jerome H. LeVan, B.S., M.A., Ph.D.	Mathematical Sciences
Marijo O. LeVan, B.S., M.A., Ph.D.	Mathematical Sciences
Clyde J. Lewis, A.B., M.A., Ph.D.	History
Arthur Y. Lloyd, B.A., M.A., Ph.D.	Political Science
John M. Long, A.B., M.A., Ph.D.	English
Heino A. Luts, B.S., M.S., Ph.D.	Chemistry

NAME

Jack A. Luy, B.S., M.S., Ed.D.
 James C. McChesney,
 B.S., M.A., Dir.R., Re.D.
 William A. McKenney, Jr., A.B., M.A., Ph.D.
 Jay C. Mahr, B.A., M.S., Ph.D.
 Walter Marcum, B.S., M.A., Ed.D.
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 Roy S. Meckler, B.S., M.A., Ph.D.
 John L. Meisenheimer, B.A., Ph.D.
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 Daniel Michalak, B.S., M.S., Ed.D.
 James Robert Miller, B.A., B.D., M.A., Ph.D.
 Robert James Miller, B.S., M.S.T., Ph.D.
 Donald B. Mills, B.S., M.A., Ed.D.
 Amiya K. Mohanty,
 B.A., M.A., D.S.S.M., Ph.D.
 Dale R. Monsebroten, Ph.B., M.S., Ph.D.
 Elmo E. Moretz, B.S., M.A., Ed.D.
 William A. Morris, B.A., M.A., Ed.D.
 William R. Morrow, B.S., M.S., Ph.D.
 Donald E. Mortland, B.A., M.A., Ph.D.
 Paul C. Motley, B.S., M.A., Ed.S., Ed.D.
 Martha Mullins, B.S., M.S., Ph.D.
 George E. Muns, B.A., M.A., Ph.D.
 Bert Mutersbaugh, A.B., M.A., Ph.D.
 Thomas D. Myers, B.S., M.S., Ed.D.
 Charles L. Nelson, A.B., M.A., Ph.D.
 John Walter Nelson, B.A., M.A., Ph.D.
 William M. Nixon, A.B., J.D.
 Frederic D. Ogden, A.B., Ph.D.
 Robert L. Ogle, B.S., M.S., Ed.D.
 James N. O'Neill, B.A., M.A., Ph.D.
 Cecil C. Orchard, B.A., M.A., Ph.D.
 Raymond B. Otero, B.S., M.S., Ph.D.
 Alfred L. Patrick, B.S., M.Ed., Ed.D.
 Kermit Patterson, B.S., M.B.A., Ed.D.
 Nancy D. Peel, B.S., M.A., Ed.D.
 L. Crocker Peoples, B.S., Ph.D.
 Juanita Phillips, B.A., B.S.L.S., Ed.S.
 Odell Phillips, B.S., M.A., Ph.D.
 Geraldine J. Polvino, B.S., M.A., Ph.D.
 Robert W. Posey, B.S., M.S.
 Nancy H. Potts, B.A., M.R.E., Ph.D.
 Howard B. Powell, B.S., M.A., Ph.D.
 Roger L. Prewitt, B.S., M.A., Ed.D.
 Dennis E. Quillen, B.S., M.S., Ph.D.
 Glenn W. Rainey, Jr., B.A., M.A., Ph.D.
 Leslie C. Ramsdell, B.S., M.S., Ed.D.

DEPARTMENT

Industrial Education &
 Technology
 Recreation & Park
 Administration
 Educational Foundations
 Physics
 Educational Administration
 Geography
 Business Administration
 Special Education &
 Rehabilitation
 Chemistry
 Accounting
 Elementary Education
 Philosophy
 Elementary Education
 Educational Foundations
 Anthropology, Sociology &
 Social Work
 Geography
 Elementary Education
 Elementary Education
 Economics
 English
 Physical Education
 Physical Education
 Music
 History
 School & Public Health
 Foreign Languages
 English
 Police Administration
 Political Science
 Industrial Education &
 Technology
 History
 History
 Biological Sciences
 Business Education
 Business Administration
 Elementary Education
 Psychology
 Library Science
 Physical Education
 Physical Education
 Police Administration
 Elementary Education
 Chemistry
 Industrial Education &
 Technology
 Geography
 Political Science
 School & Public Health

NAME	DEPARTMENT
Vernon S. Stubblefield, B.S., Ph.D.	Police Administration
James C. Stull, B.S. Ed., M.S., Ph.D.	Educational Foundations
Jean C. Surplus, B.M., M.A., Ed.D.	Secondary & Higher Education
Robert W. Surplus, B.A., M.A., Ed.D.	Music
G. William Sutton, A.B., M.A., Ph.D.	English
Charles A. Sweet, Jr., A.B., M.A., Ph.D.	English
Morris D. Taylor, B.S., M.S., Ph.D.	Chemistry
Howard A. Thompson, B.B.A., M.B.A., Ph.D.	Business Administration
Marvin P. Thompson, B.S., M.S., Ph.D.	Biological Sciences
Merita L. Thompson, B.S., M.A., Ed.D.	School & Public Health
Ralph J. Thompson, B.S., M.S., Ph.D.	Chemistry
Kelly Thurman, A.B., M.A., Ph.D.	English
Calvin J. Tolar, B.A., B.D., M.S., Ph.D.	Educational Psychology & Counseling
Daniel L. Torbett, B.S., M.S., Ed.D.	Industrial Education & Technology
L. Stephen Traw, B.S., M.Ed., Ph.D.	Educational Administration
Diana S. Trenary, A.A., B.A., M.A., Ph.D.	Psychology
Kai-Fu Tsao, B.A., M.A., Ph.D.	History
Ann Uhler, B.S., M.A., Ed.D.	Physical Education
Robert W. Ullman, B.S., M.A., Ed.D.	Police Administration
Richard G. Vance, B.A., M.A., Ph.D.	Political Science
Dan R. Varney, B.A., M.S., Ph.D.	Biological Sciences
C. Sybil Waldrop, B.A., M.Ed., Ed.D.	Elementary Education
Ned L. Warren, B.S., M.A., Ed.D.	Physical Education
Lee L. Waters, B.S., M.A., Ed.D.	Special Education & Rehabilitation
William H. Watkins, B.S., M.S., Ph.D.	Psychology
David A. Wehr, B.M.E., B.M., M.M., Ph.D.	Music
Daniel U. White, A.B., M.A., Ph.D.	English
Ralph White, B.S., M.A., Ed.D.	Special Education & Rehabilitation
Perry B. Wigley, B.S., M.S., Ph.D.	Geology
Edith L. Williams, B.A., M.A., Ph.D.	English
Frank C. Williams, B.E.E., B.D., Ph.D.	Philosophy
John C. Williams, B.S., M.S., Ph.D.	Biological Sciences
Arthur C. Wilson, B.S., M.A., C.P.A.	Accounting
Paul C. Winther, A.A.S., B.A., M.A., Ph.D.	Anthropology, Sociology & Social Work
Joe Wise, A.B., M.A., Ed.D.	Secondary & Higher Education
Vance Wisenbaker, Jr., B.A., M.S., Ph.D.	Anthropology, Sociology & Social Work
Robert W. Witt, A.B., A.M., Ph.D.	English
Leonard F. Woolum, A.B., M.A., Ed.D.	Educational Foundations

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Special Education		

TERMINUS CODE

1 = M.A.	4 = M.M.E., M.M.	7 = Sp. in Ed.
2 = M.A. in Ed.	5 = M.S.	8 = Sp. in Tech.
3 = M.B.A.	6 = M.P.A.	9 = Certification

* Certification as used above may refer to some three classes of programs:

- 1) a fifth year non-degree program for teachers
- 2) a sixth year non-degree program — (both 1) and 2) have salary implications in the state state ranking system.)
- 3) special certificate programs less than one year in length

For general information on fifth and sixth year programs, as well as on professional education requirements, see the College of Education section of the *Graduate Catalog*. Curriculum requirements in the disciplines are outlined in the department sections. Students are responsible for knowing and for meeting the general requirements of the Graduate School as well as regulations specific to the discipline.

PROGRAM DIRECTOR

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ATTENTION: BOARD

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Notes

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