



MOREHEAD STATE UNIVERSITY  
GRADUATE CATALOG 1977 - 79

# **MOREHEAD STATE UNIVERSITY**

## **Graduate Catalog 1977-79**

SECOND FLOOR  
JOHNSON CAMDEN LIBRARY

*For Document Use in Johnson Camden Library, MSU, Morehead, KY 40351*

**Catalog of  
Morehead State University  
Morehead, Kentucky 40351**

**GRADUATE CATALOG, 1977-79**

**Memberships**

**AMERICAN ASSOCIATION OF COLLEGES FOR  
TEACHER EDUCATION  
AMERICAN ASSOCIATION OF STATE COLLEGES  
AND UNIVERSITIES  
AMERICAN COUNCIL ON EDUCATION  
CONFERENCE OF SOUTHERN GRADUATE  
SCHOOLS  
NATIONAL COMMISSION ON ACCREDITATION  
SOUTHERN REGIONAL EDUCATION BOARD**

**Accreditation**

**NATIONAL ASSOCIATION OF SCHOOLS OF  
MUSIC  
NATIONAL COUNCIL FOR THE ACCREDITATION  
OF TEACHER EDUCATION  
RADIOLOGIC TECHNOLOGY ASSOCIATION  
SOUTHERN ASSOCIATION OF COLLEGES AND  
SCHOOLS**

**Volume 42  
September, 1977**

Fees listed in this catalog are subject to change without notice by action of the Kentucky Council on Public Higher Education and/or the Morehead State University Board of Regents.

Morehead State University is committed to providing equal educational opportunity to all persons regardless of race, color, age, sex, religion or national origin.

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

## **CONTENTS**

<b>Abbreviations —</b>	<b>2</b>
<b>Calendar —</b>	<b>3</b>
<b>The University —</b>	<b>4</b>
<b>General Information —</b>	<b>5</b>
<b>Student Services —</b>	<b>6</b>
<b>Administration —</b>	<b>7</b>
<b>Academic Regulations —</b>	<b>9</b>
<b>School of Applied Sciences &amp; Technology —</b>	<b>10</b>
<b>School of Business and Economics —</b>	<b>13</b>
<b>School of Education —</b>	<b>16</b>
<b>School of Humanities —</b>	<b>32</b>
<b>School of Sciences and Mathematics —</b>	<b>38</b>
<b>School of Social Sciences —</b>	<b>42</b>
<b>Administrative Staff —</b>	<b>46</b>
<b>Index —</b>	<b>48</b>



---

**ABBREVIATIONS USED IN THIS CATALOG**

<b>Acct</b>	<b>Accounting</b>
<b>Ag</b>	<b>Agriculture</b>
<b>BA</b>	<b>Business Administration</b>
<b>BE</b>	<b>Business Education</b>
<b>Biol</b>	<b>Biological Sciences</b>
<b>Chem</b>	<b>Chemistry</b>
<b>Comm</b>	<b>Communications</b>
<b>Cor</b>	<b>Corrections</b>
<b>Econ</b>	<b>Economics</b>
<b>Ed</b>	<b>Education</b>
<b>Eng</b>	<b>English</b>
<b>FA</b>	<b>Fine Arts</b>
<b>Fr</b>	<b>French</b>
<b>Geog</b>	<b>Geography</b>
<b>Geos</b>	<b>Geoscience</b>
<b>Ger</b>	<b>German</b>
<b>HEc</b>	<b>Home Economics</b>
<b>Hist</b>	<b>History</b>
<b>Hlth</b>	<b>Health</b>
<b>Hum</b>	<b>Humanities</b>
<b>IE</b>	<b>Industrial Education</b>
<b>Jour</b>	<b>Journalism</b>
<b>LSM</b>	<b>Library Science/ Instructional Media</b>
<b>Math</b>	<b>Mathematical Sciences</b>
<b>Mus</b>	<b>Music</b>
<b>PE</b>	<b>Physical Education</b>
<b>Phil</b>	<b>Philosophy</b>
<b>Phys</b>	<b>Physics</b>
<b>PS</b>	<b>Political Science</b>
<b>Psy</b>	<b>Psychology</b>
<b>R-TV</b>	<b>Radio-TV</b>
<b>Rec</b>	<b>Recreation</b>
<b>Sci</b>	<b>Science</b>
<b>Soc</b>	<b>Sociology</b>
<b>Span</b>	<b>Spanish</b>
<b>Spch</b>	<b>Speech</b>
<b>SW</b>	<b>Social Work</b>
<b>Thea</b>	<b>Theatre</b>
<b>VE</b>	<b>Vocational Education</b>

## CALENDAR

### Fall Semester 1977

August 22	Monday — Registration
August 27	Saturday — Registration of part-time students
October 31	Monday — Students who drop courses after this date will receive a mark of "E"
December 17	Saturday — Fall semester closes at 12:00 noon

### Spring Semester 1978

January 9	Monday — Registration
January 14	Saturday — Registration of part-time students
March 11-19	Saturday through Sunday — Spring vacation
March 28	Tuesday — Students who drop courses after this date will receive a mark of "E"
May 13	Saturday — Spring semester closes at 12:00 noon

### Intersession

May 15-26

### Summer I

May 30-June 30

### Summer II

July 5-August 4

### Fall Semester 1978

August 21	Monday — Registration
August 26	Saturday — Registration of part-time students
October 30	Monday — Students who drop courses after this date will receive a mark of "E"
December 16	Saturday — Fall semester closes at 12:00 noon

### Spring Semester 1979

January 8	Monday — Registration
January 13	Saturday — Registration for part-time students
March 10-18	Saturday through Sunday — Spring vacation
March 27	Tuesday — Students who drop courses after this date will receive a mark of "E"
May 12	Saturday — Spring semester closes 12:00 noon

### Summer Term 1979

(To be announced)

### Fall Semester 1979

August 20	Monday — Registration
August 25	Saturday — Registration of part-time students
October 29	Monday — Students who drop courses after this date will receive a mark of "E"
December 15	Saturday — Fall semester closes at 12:00 noon

### Spring Semester 1980

January 7	Monday — Registration
January 12	Saturday — Registration of part-time students
March 8-16	Saturday through Sunday — Spring vacation
March 25	Tuesday — Students who drop courses after this date will receive a mark of "E"
May 10	Saturday — Spring semester closes at 12:00 noon.

## THE UNIVERSITY

### Purposes

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

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

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

We believe that the interaction of students committed to meaningful learning with a faculty committed to excellence of teaching must promote an atmosphere in which the student will be challenged to encounter the values, ideas, and tangible aspects of the universe.

We believe that the University has a special obligation to serve the people of Eastern Kentucky and a general obligation to serve all of the citizens of the Commonwealth.

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

### History

A long tradition of service to the people of the Commonwealth of Kentucky runs through the history of Morehead State University. A study of educational needs in the state led to the establishment of Morehead State Normal School, whose doors opened for the first time as a public institution in September of 1923. The campus was one which had been occupied for 35 years by a private institution bearing the name of Morehead Normal School. The tradition of education that had been established by this predecessor provided strong support in the region for the new public undertaking.

In 1926, the general Assembly changed the name to Morehead State Normal School and Teachers College, and the growing college was admitted to membership in the Kentucky Association of Colleges. Morehead State Normal School and Teachers College became Morehead State

Teachers College in 1930, graduating 11 seniors from a student body of 256, with a faculty of 22.

The college entered a decade of sustained growth during which the size of the student body and the faculty more than doubled. Four major buildings and Jayne Memorial Stadium were built during this decade. In 1941, the college admitted its first foreign student, and the next year became the site of an electrical training school for the United States Navy.

After the war, offerings and services were broadened, and in 1948 the General Assembly changed the name to Morehead State College — a harbinger of what came to be known as the "Breakthrough" period of the 1950's.

During the 1950's, enrollment tripled, the campus acquired its first major structure in 17 years as a huge expansion of physical facilities exceeding \$50,000,000 was undertaken and educational programs were greatly strengthened and expanded. The sound philosophy of service to the region was greatly strengthened during this period and Morehead State College became the center of regional activities for diverse groups.

Continued growth in the 1960's brought one more change in name — Morehead State University, a reflection of the changing needs of the people of the Commonwealth for higher education. With that change in status in 1966, Morehead State University reached another level in its tradition of service that now has lengthened to more than five decades. The private normal school, turned state normal school with the job of training elementary teachers, has become something its first president, Dr. Frank C. Button, would not have dreamed — a renowned regional university whose offerings reach a broad spectrum of people from all walks of life.

### The Campus

At the northeast edge of the City of Morehead lies the campus of Morehead State University, its gently-sloping, wooded grounds covering nearly 500 acres.

Campus buildings combine the traditional and the contemporary in an imposing array of modern physical facilities set against the natural backdrop of the Daniel Boone National Forest. The campus skyline resembles a city with its high-rise buildings and tree-lined streets.

The University's physical plant represents an investment upwards of \$80 million in prize-winning and eye-pleasing architecture.

## GENERAL INFORMATION

### Residency for Fee Assessment Purposes

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

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

Any student or prospective student in doubt concerning his residency status must bear the responsibility for securing a ruling by completing an Application for Student Residency Reclassification for Fee Assessment Purposes and returning it to the Non-Resident Fee Committee, c/o Director of Admissions, Morehead State University. The student who becomes eligible for a change in residence classification, whether from out-of-state, or the reverse, has the responsibility of immediately informing the Office of Admissions of the circumstance in writing.

### Procedure for Determination of Student Residency Status for Fee Assessment Purposes

- (1) The decision whether a student is classified as a resident or non-resident student for fee assessment purposes will be made initially by the Director of Admissions in accordance with the policy adopted by the Council on Public Higher Education on April 12, 1975, entitled *Policy on Classification of Students for Fee Assessment Purposes at State Supported Institutions of Higher Education*. In cases where the Director of Admissions desires, he may seek counsel from the Admissions Committee. The student will be notified of the decision regarding his/her residency status by the Director of Admissions.
- (2) If the student wishes to appeal the decision of the Director of Admissions and/or the Admissions Committee, he may do so by completing the *Application for Student Residency Reclassification for Fee Assessment Purposes* and submitting this application through the Director of Admissions to the Non-Resident Fee Appeals Committee. Once the Appeals Committee has made a final decision regarding the residency status of the appealing student, the student shall be notified of this decision in writing by the Director of Admissions.
- (3) If the applicant for a change in residence status is dissatisfied with the decision of the Appeals Committee, the applicant may request that his case be submitted by the Director of Admissions to the Executive Director of the Council on Public Higher Education for referral to the State Board of Review.

### Students' Rights in Access to Records

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

#### Definitions

1. "Eligible student" means a student who has attained

18 years of age, or is attending an institution of post-secondary education.

2. "Institutions of postsecondary education" means an institution which provides education to students beyond the secondary school level; "secondary school level" means the educational level (not beyond grade 12) at which secondary education is provided, as determined under state law.

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

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

### II. Restrictions on the Release of Student Records

1. Morehead State University will not release records



without written consent of the students except:

- A. To other local educational officials, including teachers or local educational agencies who have legitimate educational interest.
  - B. To officials of other schools or school systems in which the student intends to enroll, upon the condition that the student be notified of the transfer and receive a copy of the record desired, and have an opportunity to challenge the contents of the records.
  - C. To authorized representatives of the Comptroller General of the United States, the Secretary of Health, Education, and Welfare, or an administrative head of an education agency, in connection with an auditor evaluation of federally supported programs; or
  - D. To parents of dependent students.
2. Morehead State University will not furnish personal school records to anyone other than the described above unless:
    - A. Written consent of the student is secured, specifying the records to be released, the reasons for the release, identifying the recipient of the records, and furnishing copies of the materials to be released to the student; or
    - B. The information is furnished in compliance with a judicial order or pursuant to a subpoena, upon condition that the student is notified of all such orders or subpoenas in advance of compliance therewith.

### III. Provisions for Students Requesting Access to Records

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

### IV. Provisions for Authorized Personnel Requesting Access to Records

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

## Student Services

### Library

The library, as a service agency of Morehead State University, acquires, stores, retrieves, and disseminates relevant recorded knowledge. The present collection consists of 350,000 volumes; 130,000 microform titles; 40,000 bound periodical subscriptions. Additional holdings include 15,000 documents; 12,000 recordings; 20,000 films and filmstrips; and 10,000 pictures, curriculum guides, and programmed learning materials.

The addition to the library, scheduled for completion in early 1978, will increase the maximum volume capacity to 850,000 and the seating capacity to over 1,000.

The library materials may be borrowed and the equipment used without charge, but failure to return materials on time, or not at all, results in an appropriate fine. Students who owe a library fine will not be allowed to register again or receive a transcript until it is paid.

Some specific services provided to the graduate student by the library are the use of:

1. special collections — microforms, rare books, university archives and educational museum.
2. media services — dial access and AV equipment.
3. graphic arts
4. interlibrary loan
5. exhibits
6. study carrels

### Computing Services

The Educational and Research Computing center has a Nova 840 time sharing computing system which is connected to the Kentucky Educational Computing Network. Batch processing can be performed via an IBM 370-168 computer at the University of Kentucky and time shared computing can be done via a DEC 1080 computer at the University of Louisville. There are 16 time sharing terminals strategically located throughout the campus. Programming and other technical assistance is available to those who wish to use the computer. The operator is on duty during the day in the computing center in Room 430 of Reed Hall.

The administrative functions of the computing system are handled in the Office of Planning, seventh floor of Ginger Hall.

### Testing Services

The Testing Center, located in Room 501-A of Ginger Hall, administers the national testing programs such as the Graduate Record Examination, the National Teacher Examination, the Graduate Management Admissions Test, the Miller Analogies Test and the Law School Admissions Test (when the need is sufficient).

For information and registration materials, write or call the Testing Center, 783-3313.

### Placement Service

Morehead State University maintains placement services for graduates and alumni. All candidates for a degree from Morehead State University are urged to utilize the services, which include permanent credential files, job vacancy listings, and on-campus interviews, as well as general information on various careers and employers.

### Alumni Association

The Alumni Association is an organization composed of graduates and friends of the University and is designed to stimulate interest in the University and its welfare. Active membership in the Association is available to all graduates of the University and former students who have attended Morehead State University for two years and make a minimum scholarship contribution. Associate membership is available to parents of students and friends of the University and is awarded following a gift to the alumni scholarship fund. All members receive subscriptions to CONTACT.

### Housing

Graduate students who desire to reside in University housing need to contact the Director of Housing for information and applications. All housing arrangements should be made well in advance of the term the student expects to begin graduate study. Only full-time students are permitted to live in a University residence.

The University maintains modern comfortable housing for both single and married students.

## Assistantships

A number of graduate assistantships are available each year for qualified graduate students who have been admit-

ted to a degree program. A graduate assistant registers for up to 12 hours of work each semester and devotes 20 hours a week to the duties of his assistantship. A stipend of \$2,400 is paid for the academic year and the recipient pays the regular Kentucky resident and incidental fees. Applications for graduate assistantships are available in the Graduate Office, 201 Ginger Hall.

### Financial Aid

Graduate students interested in obtaining financial aid, other than graduate assistantships, should write the Director of Student Financial Aid.

### Fees

The current registration fee per academic semester for full-time Kentucky resident graduate students is \$275. For full-time graduate students who are not residents of Kentucky, the fee is \$700. For part-time Kentucky residents, the rate is \$31 per semester hour of credit, while for those part-time graduate students who are not residents of Kentucky, it is \$78 per semester hour of credit.

Registration fees are determined by the Council on Higher Education in Kentucky and by the Morehead State University Board of Regents. All fees are subject to change periodically.

### Course Identification

The credit level of a course; the lecture time, lab time, and credit given; and the terms in which it is normally offered are indicated by numbers. Note the following:

1. Numbers from 500 to 599 preceding a course title mean that it may be taken for graduate credit, while numbers from 600 to 699 preceding a title mean the course can be taken for graduate credit only.
2. Of the three numbers following a course title, the first indicates the hours of lecture, the second the hours of laboratory, and the third, the semester hours of credit. (3-0-3) equals three hours of lecture, no laboratory, three hours of credit.
3. The numbers I, II, and III following the course credit hour allowance indicate the term in which a course is normally offered — (I - fall; II - spring; III - summer).

### Marking System

The faculty evaluates the work done by the graduate student on the following scale:

- A—Superior work
- B—Average
- C—Below average, but counts as graduate credit
- D—No credit allowed
- E—No credit allowed

### Graduate Programs

Master of Arts in Art, English, History, Psychology, Physical Education, Sociology, and Communications  
 Master of Science in Biology, Mathematics, and Vocational Education  
 Master of Music  
 Master of Business Administration  
 Master of Business Education  
 Master of Arts in Adult and Continuing Education  
 Master of Arts in Education with emphases in Elementary Teaching, Secondary Teaching, Guidance and Counseling, Library Science, Special Education, Reading, Early Childhood Education, and School Business Administration  
 Master of Higher Education  
 Specialist in Education Degree

A joint doctoral program with the University of Kentucky. Programs designed to qualify public school personnel for Ranks I and II on the Kentucky salary schedule.

### Objectives

The graduate programs offered at Morehead State University are designed to meet the needs of three types of students —

1. those who look upon the attainment of the master's degree as their ultimate educational goal;
2. those working toward a non-degree objective beyond the baccalaureate level; and
3. those individuals who plan to pursue specialist and/or doctoral programs.

Specifically, the goals of graduate study are to:

- a. Emphasize the abilities to read and think critically — judge values and limitations;
- b. Improve the skills required for clear and concise expression — correct and coherent exposition;
- c. Familiarize the student with the basic principles and techniques of research as well as the recognized forms for reporting research findings;
- d. Develop the ability to recognize problems and to improve the facility for gathering data, organizing these data, and reporting logical results and conclusions;
- e. Encourage creative thinking, initiative, resourcefulness and responsibility on the part of the student;
- f. Strengthen the undergraduate preparation, particularly in those areas in which the student may be weak;
- g. Provide advanced training and experience in the field of the student's specialization;
- h. Broaden the student's general education;
- i. Develop an awareness, and stress the significance, of current knowledge and developments — the importance of becoming an informed person.

### Administration

#### The Dean

The Dean of Graduate Programs is responsible for executing policies and regulations governing graduate study as determined by the Graduate Council and approved by the faculty. Inquiries concerning graduate study at Morehead State University should be directed to him. The Graduate Office is located in the Bureau of Academic Affairs, 201 Ginger Hall, phone 783-2210.

#### The Graduate Council

The Graduate Council consists of two members selected from the graduate committee of each of the six schools of the University, two students selected from the full-time, on-campus graduate student body, and the Dean of Graduate Programs, who serves as chairman.

The Council is responsible for establishing policies and regulations pertaining to graduate study; for the approval of graduate programs, faculty, and courses; and for the overall supervision and coordination of the graduate programs of the University.

#### Advisors

When the graduate student is admitted to a degree program, an adviser from the graduate faculty is appointed. It is the function of this advisor to counsel the student in preparing and completing his program of graduate study. The student should consult his advisor concerning any problems that may arise in connection with his work.

The advisor also serves as a member, often the chairman, of the student's graduate committee, which conducts the final examinations for the degree.

## Admission to Graduate Study

### General Requirements

Admission to graduate study is granted to students who meet the academic requirements and who hold a baccalaureate degree from Morehead State University or some other accredited institution of higher education, and to certain qualified Morehead seniors.

### Types of Admission

Students may be admitted to graduate study in any one of several categories.

1. **Unconditionally** — Students who meet the requirements for both general admission to graduate study, and for a particular degree program.
2. **Conditionally** — Students who meet the general requirements for admission to graduate study, but fail to satisfy one or more special requirements for admission to a particular degree program. This is a temporary classification, to be changed as soon as the specified conditions are satisfied.
3. **Unclassified** — Students who meet the requirements for admission to graduate study, but do not wish to work for a degree. Such students should note that no more than eight semester hours of credit earned as an unclassified student may later be applied toward a degree, and only then at the discretion of the advisor and the Dean of Graduate Programs.
4. **To Qualify** — Students whose undergraduate grade-point average is slightly below 2.5, but not less than 2.3. Students so admitted may, after completing a minimum of 12 semester hours of work with at least a GPA of 3.0, be considered for admission to a degree program. Upon admission to a program, six of the 12 semester hours of credit may be counted toward meeting degree requirements.
5. **To a Non-degree Program** — Students who hold a valid teaching certificate and wish to do a planned graduate program that leads to renewal or additional certification, but not to a degree.
6. **Transient** — Students who have been admitted to a graduate program in another institution. Such a student may enroll at Morehead State University by submitting a transient student application on which his or her graduate dean or registrar certifies that he or she is in

good standing, and has permission to enroll for graduate work at Morehead State University. A transcript of previous work is not needed.

7. **Seniors at Morehead** who meet the academic requirements and who lack no more than six semester hours (three hours in summer) for completion of the requirements for the baccalaureate may apply for permission to enroll in graduate courses concurrently with the remaining undergraduate work. Application is made to the Dean of Graduate Programs on a form supplied by the Graduate Office. A senior taking graduate courses may not enroll for more than 14 hours (six hours in summer) of course work. If admitted, such a student registers as a senior.

### Special Admission Requirements

There are two groups of students who must meet special admission requirements.

1. **International students**, when qualified for admission, are required to take the English Language Institute Test of the University of Michigan or the Test of English as a Foreign Language (TOEFL) given by the Educational Testing Service. They will be officially admitted and issued a Form 1-20A only after the Graduate Office has been notified that they have passed the English Test successfully. The TOEFL examination is given regularly in most foreign countries. For further information regarding these tests, the applicant should contact the U.S. Consul in the country in which he resides.
2. **Graduates of non-accredited colleges** must meet the Morehead requirements for graduation before their applications for graduate study will be approved. If a student's undergraduate preparation is inadequate, this deficiency must be satisfied by taking designated courses that will not be counted as graduate credit. A minimum of 12 semester hours of credit of such work is required.

### Changing Program

To change his or her program, a student must file an official change of program form in the Graduate Office. No change is effective until approved by the Graduate Dean.

### Off-Campus Courses

The University offers a number of graduate courses in suitable study centers away from the main campus. Expected student performance and quality of instruction for these courses are comparable to that for on-campus study. These courses carry resident credit.



## ACADEMIC REGULATIONS

### Degree Requirements

#### General

The University requirements for all master's degrees are:

A minimum of 30 semester hours without a thesis, or 24 semester hours with an acceptable thesis.

A minimum of 15 semester hours of credit must be earned *after* the requirements for admission to candidacy have been met and the application for candidacy has been filed.

No credit earned by correspondence may be applied on the minimum requirements for the master's degree.

A minimum of 18 semester hours of graduate work must be completed in residence. Not more than nine hours of approved transferred work will be accepted toward the minimum requirements for the master's degree and not more than 12 semester hours of transfer and Morehead extension work may be applied toward a master's degree.

Fifty per cent of the *total* course work (minimum of 15 semester hours) must be earned in courses open only to graduate students (courses numbered 600 and above).

Fifty per cent of the *total* course work (minimum of 15 hours) must be earned in one field of study.

A minimum average of "B" is required on all work offered for the degree, and no credit is allowed for a mark below "C".

#### Specific

For specific requirements of a particular program (which may go beyond the minimum), consult the section on the appropriate program.

#### Admission to Candidacy

A student is eligible for candidacy consideration for a master's degree when:

1. Satisfactory scores on the Graduate Record Examination (aptitude section), or the Graduate Management Admissions Test (for business administration students) have been received in the Graduate Office (arrangements for these tests must be made in the Testing Service office).
2. At least eight, but not more than 15 semester hours of credit have been completed with a minimum grade-point average of 3.0 (on a 4.0 scale).
3. Approval has been granted by the school committee and the application is filed in the Graduate Office.

#### Time Limitation

From the time a student begins work on a master's degree he or she has 10 years in which to complete it. If a degree is not completed within the required time, suitable courses must be completed to replace those more than 10 years old.

#### Final Examination

The student must pass a final comprehensive examination — oral and/or written — in the field of study. This examination will include the defense of the student's thesis, if one is written.

#### Applying for the Degree

The student must file an application for the master's degree before his or her name will be placed on the list of graduates. This application should be made in the Graduate Office, early in the term in which the student expects to receive the degree.

#### Student Course Load

The minimum full-time graduate load for a semester is

nine semester hours; for each summer term, it is four semester hours. The maximum load is 15 hours for a semester and six hours for each summer term.

A graduate assistant may not exceed 12 semester hours credit during a regular semester or four semester hours during each summer term.

Students who are employed full time may not carry more than six hours of credit per semester.

A student who wishes to change his or her course load after registration by adding or dropping a course may do so only by completing an official Drop/Add form.

#### Repeating a Course

A course in which a student has received a passing grade (C or better) cannot be repeated. A course in which a failing grade is received may be repeated, but both grades are used in computing the grade-point average.

#### Transfer Credit

A maximum of nine semester hours of graduate credit earned at another institution may be accepted toward meeting requirements for the master's degree provided:

1. the credit has been earned at an accredited graduate institution within ten years of the date on which the master's degree requirements are completed;
2. the work is acceptable as credit toward a comparable degree at the institution from which transfer is sought;
3. the courses to be transferred carry a mark of "B" or better, are approved by the graduate dean and by the head of the department in which the master's degree is located; and
4. the student has maintained a GPA of at least 3.00 (on 4.00 point scale) on all graduate work shown on the transcript.

An additional three semester hours of graduate credit may be transferred (making a maximum of 12 semester hours) if they meet the same requirements stipulated for the first nine hours and provided:

1. they are in a course or courses which cannot be offered by Morehead State University, and
2. a written justification is received in the Graduate Office from the department in which the master's degree is located.

#### Thesis

Prior to beginning work on a thesis, the student should come to the Graduate Office for a copy of the official guidelines.

A minimum of two copies of the final draft of the thesis, signed by the student's committee, must be submitted to the Graduate Dean at least two weeks prior to the end of the term in which the student anticipates completing all degree requirements.

#### Participating in Commencement

All students who have met degree requirements are expected to participate in the graduation exercises unless given prior permission to be absent. Forms for requesting permission to graduate in absentia are available in the Graduate Office.

#### The Second Master's Degree

A student who has completed one Master's degree may complete a second one if he or she:

1. meets admission and candidacy requirements, and
2. completes a minimum of 15 semester hours of credit in approved courses. (Additional courses may be necessary to meet the degree requirements.)



## School of APPLIED SCIENCES AND TECHNOLOGY

Department of Agriculture  
Department of Home Economics  
Department of Industrial Education

### Degree: Master of Science in Vocational Education

The School of Applied Sciences and Technology offers a Master's Degree in Vocational Education with emphasis in agriculture, home economics or industrial education. A minimum of 12 semester hours is required by all students in the core curriculum. Additional requirements are in the technical field or approved electives.

These programs are designed primarily for persons who have completed undergraduate programs in vocational agriculture, home economics, and industrial education. These departments offer graduate courses which may be used in partial fulfillment of the requirements for the Master's Degree in Vocational Education.

#### Requirements for Admission

1. General admission to graduate study.
2. Minimum standing of 3.0 in courses in the major field. Students who meet all entrance requirements except the 3.0 standing in the major field may be admitted conditionally.

#### Requirements for the Degree

1. Completion of a minimum of 24 semester hours of approved course work, plus a thesis, or 30 semester hours without a thesis.
2. Completion of an approved thesis, maximum credit allowance of six hours.

	Sem. Hrs.
<b>I. Core Area</b> .....	12
VE 530—Evaluation Techniques.....	3
VE 585—Principles and Philosophy of Vocational Education.....	3
VE 598—Career and Vocational Guidance.....	3
VE 660—Trends and Issues in Vocational Education.....	3
<b>II. Technical Area</b> .....	9

Students must elect to take courses from one of the following technical areas: agriculture, home economics, or industrial education.

**III. Approved Electives**..... 9  
A student interested in completing the requirements for a standard certificate may elect to take nine hours of required course work for certification in the School of Education.

Students who do not wish to work toward a standard certificate but are working toward renewing a provisional certificate for continuous service may take nine hours of course work approved by their graduate committee.

Students may elect Thesis 699 for six hours of credit.

### Agriculture

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

**Agriculture 503. Agriculture Policy.** (3-0-3); I.

Prerequisite: Agriculture 203. A history of agricultural policy and policy makers; defining the problems and their setting; government participation in supply of and demand for agricultural products.

**Agriculture 505. Farm Business Analysis.** (2-2-3); on demand.

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

**Agriculture 512. Conservation Workshop.** (2-2-3); on demand.

Prerequisite: Consent of instructor. Development of the conservation movement with broad treatment of the basic natural resources including land, water, air, minerals, forests, and wildlife.

**Agriculture 515. Animal Nutrition.** (3-2-4); II.

Prerequisite: Agriculture 316. Chemistry, metabolism, and physiological functions of nutrients, digestibility, nutritional balances, and measures of food energy.

**Vocational Education 530. Evaluation Techniques.** (3-0-3); II. The use and development of a framework of measurement and evaluation in vocational education. Includes validity and reliability of measuring instruments, objectives and programs.

**Agriculture 580. Methods in Teaching Vocational Agriculture.** (4-0-4); I, II. The principles of methods applied to teaching vocational agriculture to high school students. Course organization, farming programs and Future Farmers of America activities.

**Agriculture 582. Adult and Young Farmer Education.** (3-0-3); II. The principles and techniques needed in organizing and program planning in post high school vocational agriculture and conducting young farmer and adult farmer classes.

**Agriculture 584. Teaching Vocational Agriculture.** (8-0-8); II. Supervised teaching in centers selected by the state agricultural education staff and members of the teaching staff. Teacher experiences with in-school and out-of-school groups.

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

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

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

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

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

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

**Vocational Education 640. Administration and Supervision of Vocational Education.** (3-0-3); II. Problems include program planning in vocational education, staffs and relationships, supervision of instruction, educational conflicts, curriculum, supervision principles and approaches to professional improvement.

**Vocational Education 650. Organization and Administration of Vocational Education.** (3-0-3); II, III. Theory of administration and formal organization, organization and administration of vocational education on the local, state and national levels.

**Vocational Education 660. Trends and Issues in Vocational Education.** (3-0-3); I. The identification and study of problems and issues in vocational education.

**Agriculture 670. Research Problems.** (One to three hours); I, II, III. A self-directed independent study on a special problem.

**Agriculture 671. Seminar.** (1-0-1).

**Agriculture 675. Analysis of Research.** (2-0-2).

**Agriculture 676. Independent Study.** (One to three hours).

Prerequisite: Degree in agriculture.

**Agriculture 699. Thesis.** (One to six hours); I, II, III. Independent research and thesis writing.

### Home Economics

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

**Home Economics 529. Child Growth and Nutrition.** (3-0-3); II.

Prerequisite: Home Economics 431 or equivalent. Selection, application, and evaluation of nutritional data concerned with infancy and child growth.

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

instruments, objectives and programs, interpretation of material, statistical analysis and research.

**Home Economics 536. Advanced Nutrition. (3-0-3); II.**  
Prerequisite: Home Economics 431 or equivalent. Selected topics in nutrition; emphasis on classical and current literature; practical application of findings.

**Home Economics 538. Experimental Foods. (1-4-3); II.**  
Prerequisite: Home Economics 231. Chemistry 102. Methods applied to food research through individual and class investigation.

**Home Economics 541. Tailoring. (0-4-3); I.**  
Prerequisite: Home Economics 241 or consent of instructor. Fitting and tailoring techniques in the construction of a tailored garment based upon individual problems.

**Home Economics 542. Social-Psychological Aspects of Clothing and Textiles. (3-0-3); I, II.**  
Prerequisite: Six hours in clothing and textiles. Social, psychological, and economic factors in the selection and use of clothing.

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

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

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

**Home Economics 555. The Child and the Family. (3-0-3); I, II.** Environmental factors favoring family life and family interaction; stages of family life and the changing role of members.

**Home Economics 557. Interior Design. (3-0-3); I, II.**  
Prerequisite: Home Economics 451 or consent of instructor. Principles and elements of design related to selection and arrangement of furniture, use of fabrics, accessories, and other media used in furnishing a home.

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

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

**Home Economics 590. Creative Foods. (1-4-3); I, II, III.** The study and preparation of gourmet foods. Emphasis on foods from different cultural backgrounds and geographical regions.

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

**Vocational Education 640. Administration and Supervision of Vocational Education. (3-0-3); I, III.** Problems to be considered will include: program planning in vocational education, staffs and relationships, supervision of instruction, educational conflicts, curriculum, supervision principles, and approaches to professional improvement.

**Home Economics 642. Textiles and Clothing Workshop. (One to three hours); II, III.**

Prerequisite: Degree in home economics. Current problems, trends in teaching, and research in clothing and textiles. Discussion, demonstrations, and projects planned to meet needs of students.

**Vocational Education 650. Organization and Administration of Vocational Education. (3-0-3); II, III.** Theory of administration and formal organization, organizational and administration of vocational education on the local, state and national level.

**Vocational Education 660. Trends and Issues in Vocational Education. (3-0-3); I.** The identification and study of problems and issues in vocational education.

**Home Economics 670. Research Problems. (One to three hours); I, II, III.**

Prerequisite: Degree in home economics. Research in a phase of home economics of special interest to the student.

**Home Economics 672. Home Economics Education Workshop. (One to three hours); III.**

Prerequisite: Degree in home economics. A study in the opportunities provided by legislation for secondary schools; recent developments in vocational programs in Kentucky; study of available teaching guides; pertinent developments in phases of home economics chosen for emphasis.

**Home Economics 673. Curriculum Development in Home Economics. (3-0-3); I.**

Prerequisite: Degree in home economics. Responsibility of home economics in the school and community. New developments in secondary school programs. Consideration of the homemaking curriculum; a critical survey of resources. Development of plans and units.

**Home Economics 674. Supervision of Home Economics. (3-0-3); I, II, III.**

Prerequisite: Degree in home economics. The nature, function, and techniques of supervision of home economics in high school and adult programs.

**Home Economics 675. Current Problems in Home Economics Education. (One to three hours); I, II, III.**

Prerequisite: Degree in home economics or consent of instructor. A study of change as it relates to home economics education. Relevant topics chosen for library research and class discussion.

**Home Economics 676. Independent Study. (One to three hours); I, II, III.**

Prerequisite: Degree in home economics. Original research of a technical or professional nature supported by adequate library reference work.

**Home Economics 677. Home Economics Education Workshop. (continued). (One to three hours).** Offered alternately with Home Economics 672.

**Home Economics 699. Thesis. (One to six hours); I, II, III.** Independent research and thesis writing.

## Industrial Education

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

**Industrial Education 520. Industrial Arts for the Elementary Teacher. (2-2-3); III.**

Prerequisite: Formal admission to the teacher education program. Designed to develop professional and technical competencies of pre-service and in-service elementary school teachers.

**Vocational Education 530. Evaluation Techniques. (3-0-3); II.** The use and development of a framework of measurement and evaluation in vocational education. Includes validity and reliability of measuring instruments, objectives and programs, interpretation of material, statistical analysis and research.

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

Prerequisite: Must have at least one year teaching experience, must have taken Industrial Education 241 or have the permission of the instructor. Designed for teachers of all levels to improve background in electricity-electronics. Laboratory experiments, demonstrations, demonstration equipment, projects, curriculum, methods of teaching electrical concepts, and teaching aids.

**Industrial Education 560. Foundations of Industrial Education. (3-0-3); II.**

Prerequisite: Upper division standing in industrial education. Study of the philosophical positions underlying the development of industrial education; leaders, their influence and contributions; contemporary theories affecting the current programs of industrial education.

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

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

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

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

**Industrial Education 590. Supervised Internship (Industry or Administration). (One to six hours); I, II, III. (A)** To provide work experience in an occupational area. Student works under supervision in an approved position. Advanced credit commensurate with time worked, type of work, variety of work experience and research paper.

(B) A person may choose to do the internship in administration, in which case he would be assigned to work in a secondary, post-secondary or higher education instruction or for the State Bureau of Vocational Education in an administrative capacity approved by his advisor. In each case, conditions will be agreed upon by employer, student and graduate advisor prior to registration.

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

**Vocational Education 640. Administration and Supervision of Vocational Education. (3-0-3); III.** Problems to be considered will include: program planning and development; state and federal legislation; planning vocational education shops and laboratories; selecting and purchasing equipment and supplies; organizing and administering the vocational program; and school and community relations.

**Vocational Education 650. Organization and Administration of Vocational Education. (3-0-3); II, III.** Theory of administration and formal organization, organization and administration of vocational education on the local, state and national level.

**Vocational Education 660. Trends and Issues in Vocational Education. (3-0-3); I.** The identification and study of problems and issues in vocational education.

**Industrial Education 671. Seminar. (1-0-1); III.** (All graduate students in residence must enroll for this class.) A study of current technological developments within industry and their concomitant impact upon society.

**Industrial Education 675. Analysis of Research. (2-0-2); III.** Prerequisite: Advanced graduate standing or consent of instructor. Current research related to the field of industrial education will serve as the basis for developing an understanding of research design sampling procedures, hypotheses testing and statistical analysis by using parametric and nonparametric procedures.

**Industrial Education 676. Independent Study. (One to three hours); I, II, III.** Provides the creative and resourceful graduate student with the opportunity to pursue a technical problem with a laboratory orientation.

**Industrial Education 699. Thesis. (One to six hours); I, II, III.** Independent research and thesis writing.



## School of BUSINESS AND ECONOMICS

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

### Degrees:

**Master of Business Administration**  
**Master of Business Education**

The MBA degree program is designed for persons who have completed undergraduate programs in any area. Persons with undergraduate degrees in business may complete the program with a minimum of 30 semester hours. Others, without the undergraduate business core, may complete the program with a maximum of 42 graduate hours.

The MBE degree program is designed for persons who have completed undergraduate degrees in accounting, business administration or business education. Students who have earned a provisional secondary teacher's certificate may through the MBE degree curricula, qualify for the standard teacher's certificate.

### Master of Business Administration Requirements for Admission

1. Admission to graduate study at Morehead State University.
2. Completion of the following basic core of undergraduate courses with a minimum grade average of 3.0 (on a 4.0 scale).

	Sem. Hrs.
Principles of Accounting I & II	6
Principles of Economics I & II	6
Principles of Management	3
Marketing	3
Business Finance	3
Statistics	3
Business Math	3

3. Applicants who have not completed the undergraduate core may be admitted with the condition that the prerequisite deficiencies be removed after entering the program.

### Survey Courses

Students lacking undergraduate core courses may remove those deficiencies by taking survey courses offered in each area of study. Unclassified students may take the survey courses to strengthen their undergraduate preparation. Graduate credit is given for the survey courses. However, survey courses do not count toward meeting MBA degree requirements.

#### The survey courses are:

- Acct 600, Survey of Accounting.
  - BA 602, Survey of Quantitative Analysis.
  - BA 600, Survey of Management and Marketing.
  - BA 601, Survey of Finance.
  - Econ 600, Survey of Economics.
- (Acct 600, BA 600, and Econ 600 each satisfy the equivalent of 6 hours of undergraduate prerequisite courses.)

### Admission to Candidacy

1. Fulfillment of any conditions that may have been stated at time of original admission to the MBA program.
2. Completion of 8-15 hours of credit with a minimum grade point average of 3.0.

3. Completion of the Graduate Management Admissions Test, GMAT, (formerly ATGSB).

### Degree Requirements

	Sem. Hrs.
1. Course Work	
Acct 611—Accounting Analysis for Decision Making	3
BA 612—Advanced Management	3
BA 619—Business Policy and Procedure	3
BA 620—Quantitative Business Analysis	3
BA 650—Marketing Administration	3
BA 660—Financial Administration	3
Econ 661—Managerial Economics	3
Approved Electives	9
<b>Total</b>	<b>30</b>

2. Completion of 30 hours of work with a minimum average of 3.0.
3. Successful completion of a final, comprehensive MBA examination.

### Master of Business Education Requirements for Admission

1. Admission to graduate study.
2. Completion of a major or minor in business education, accounting, or business administration or consent of business education committee.
3. A minimum standing of 3.0 in courses above the freshman level in the undergraduate major field. Students who meet all entrance requirements except the 3.0 standing in the major field may be admitted conditionally.

### Admission to Candidacy

1. Satisfactory scores on the Graduate Record Examination.
2. Minimum standing of 3.0 on all graduate work completed at the time of application.

### Degree Requirements

1. Minimum of 15 hours after admission to candidacy.
2. Course Work

	Sem. Hrs.
BE 600—Foundations of Business Education	3
BE 601—Problems in Business Education	3
BE 640—Intro. to Research in Business Education	3
BE 699—Thesis or BE 670 plus 3 additional hours of BE 600 level course work	6
Electives*	15
<b>Total</b>	<b>30</b>

3. Oral Examination. This examination may include defense of a thesis. Written examinations may be required at the discretion of the student's committee and the Graduate Office.

\*These electives may be in the Schools of Business and Economics, education, or in a related area. Students expecting to qualify for a Standard Certificate in Kentucky should take 9 hours in education: Ed 610, 634, and 680 or 683.

### Accounting

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

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

Prerequisite: Accounting 282. Analysis of cost data; manufacturing and cost analysis; budgets; managerial analysis; decision-making. (Note: May not be used to satisfy requirements for accounting major, minor, or option or for MBA degree requirements.)

#### Accounting 506. Theory of Accounts. (3-0-3); I.

Prerequisite: Accounting 385. Study of development of accounting theory; application of theory to income measurement, asset valuation, and equities; review of literature of the field, and FASB, CASB, SEC, AICPA, and AAA pronouncements affecting theory.

**Accounting 528. Governmental Accounting. (3-0-3); II.**

Prerequisite: Accounting 282, Accounting 600 or permission of instructor. Study of fund accounting techniques for governmental units. Topics include: government accounting terminology and budgeting processes; operations of general revenue and expenses, capital project, debt service, trust, intra-government, special assessment, and enterprise funds analysis of fixed assets and liabilities; and basics of hospital and public school fund accounting.

**Accounting 570. Research Problems in Accounting. (One to three hours); I, II, III.** Provides an opportunity and challenge for self directed independent study on accounting problems.

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

Prerequisite: 20 hours of accounting. Application of generally accepted accounting principles to representative problems from CPA examinations. Covers four sections of exam (Practice, Theory, Auditing, and Business Law) with emphasis on problems and theory.

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

Prerequisite: Accounting 387. Federal income tax report preparation with emphasis on partnership and corporate returns; estate and trust taxation; gift tax; special problems in preparation of tax returns; tax research.

**Accounting 590. Cost Accounting II. (3-0-3); II.**

Prerequisite: Accounting 390. Cost analysis for planning, evaluation, and control. Standard costs; direct costing; budgets; cost and profit analysis; alternate choice decisions; linear programming; capital budgeting.

**Accounting 600. Survey of Accounting. (3-0-3); I, II.**

Prerequisite: Graduate standing. An introduction to the concepts and principles involved in the preparation of financial reports for internal and external users, the analysis and interpretation of accounting data and its use in management planning and control.

**Accounting 611. Accounting Analysis for Decision Making. (3-0-3); I.**

Prerequisite: Six hours of accounting or Accounting 600. Development of accounting information for use in the processes of managerial decision making. Topics include: cost-volume-profit analysis; alternative choice analysis; EOO analysis; linear investment evaluation.

**Accounting 612. Contemporary Accounting Theory. (3-0-3); II.**

Prerequisite: Six hours of accounting or Accounting 600. Study of current accounting philosophy as it bears on management practices. Includes: APB and FASB pronouncements; management advisory services; independence and professional ethics; the audit function; financial reporting standards and responsibilities.

## Business Administration

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

**Business Administration 504. Production Management. (3-0-3); II.**

Prerequisite: Business Administration 301, Accounting 390 or 502. Managerial organization for production; plant design and layout; control of production; investment in production equipment and materials; working capital; labor costs; production operations including scheduling, routing, and control.

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

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

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

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

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

Prerequisite: Business Administration 304; Math 354. Study of use of research to minimize error in decision analysis; individual studies made by students in all areas of marketing including advertising, packaging, and merchandising.

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

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

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

Prerequisite: Business Administration 461. An extension of the coverage of Business Administration 461 to the application of legal procedure in the affairs of the business organization. Coverage includes:

commercial paper, bailments, sales, secured transactions, suretyship and guarantee, partnerships, corporations, bankruptcy, and government and business.

**Business Administration 565. Human Relations in Business Management. (3-0-3); I, II.**

Prerequisite: Senior standing or consent of instructor. A study of human and interpersonal behavior to understand, evaluate, and appraise business and social situations. The emphasis is on skill and ability to work with people, groups, and institutions by demonstrations in the classroom and use of theory and techniques.

**Business Administration 570. Research Problems in Business Administration. (3-0-3); I, II, III.**

Prerequisite: Senior or graduate with minor or equivalent in business administration. Self directed independent study and research in business administration.

**Business Administration 600. Survey of Management and Marketing. (3-0-3); on demand.**

Prerequisite: Graduate standing or consent of the instructor. This course includes the fundamental concepts of the processes and organizational behavior in management, and an overview of the marketing functions in the modern organization.

**Business Administration 601. Survey of Finance. (3-0-3); on demand.**

Prerequisite: Graduate standing or consent of the instructor. A general course in the financial concepts in the business firm.

**Business Administration 602. Survey of Quantitative Analysis for Business. (3-0-3); on demand.**

Prerequisite: Graduate standing (assumes basic knowledge of algebra). Designed to supply students with an adequate quantitative background for the MBA core courses, especially BA 620; includes introduction to business statistics.

**Business Administration 611. Personnel and Industrial Relations. (3-0-3); II, III.**

Prerequisite: Graduate standing or consent of the instructor. Deals with human resource utilization; prepares managers for developing strategies for solving organizational personnel problems.

**Business Administration 612. Advanced Management. (3-0-3); I, II.**

Prerequisite: Business Administration 301, 304 or 600, or the consent of the instructor. An analysis of the development of management theory as found in the major schools of thought and of current literature. Executive characteristics, inter-disciplinary contributions to management thought, and influences that have molded management as a profession will be covered in this course. (Formerly BA 605).

**Business Administration 619. Business Policy and Strategy. (3-0-3); I, II.**

Prerequisite: Completion of or concurrent enrollment in Accounting 611, Business Administration 612, 620, 650, 660, Economics 661, or permission of the instructor. Designed for later stages of MBA degree completion, course gives the student an opportunity to integrate and apply specialized disciplinary skills to practical business problems of company-wide scope. The course utilizes comprehensive case materials and emphasizes the "sorting out" of a mass of facts, development of sound courses of action, presentation of these in written and oral form, and class discussion.

**Business Administration 620. Quantitative Business Analysis. (3-0-3); I, II.**

Prerequisite: Mathematics 160 and 354 or BA 602. Designed to give business students an understanding of quantitative methods and models used in solving many problems in business and industry. The student will have an exposure to the language of mathematics and quantitative methods used as a basis for better communication with operation researchers and system analysts.

**Business Administration 650. Marketing Administration. (3-0-3); I, II.**

Prerequisite: Business Administration 301 and 304 or Business Administration 600. A systematic and comprehensive approach to marketing decision-making dealing with basic marketing strategies — the problems involved in a given decision, how they may be solved, and how solutions impinge on their strategies.

**Business Administration 660. Financial Management. (3-0-3); I.**

Prerequisite: Business Administration 360 or Business Administration 601. This course considers an analysis of the problems and policies related to the allocation, acquisition, and control of funds within the individual firm. Topics covered are: management of current assets and fixed assets, capital budgeting, sources of funds, financial forecasting and statement analysis, refinancing, financial growths and development, business failure, and government regulation. Cases are used to demonstrate financial theory and to develop analytical ability.

## Business Education

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

**Business Education 516. Educational Data Processing.** (3-0-3); II. Prerequisite: Senior or graduate standing. Basic concepts pertaining to unit record equipment and computers. Applications in education, research and administration. Designed primarily for students without previous data processing instruction.

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

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

**Business Education 590. Economic Education for Business Teachers.** (2-0-2); III.

Prerequisite: Senior or graduate standing. Fundamental economic concepts and their application and intergration in business education.

**Business Education 591. Machine Shorthand Workshop.** (2-0-2); III. Prerequisite: Senior or graduate standing and competency in manual shorthand. Theory, keyboard, methodology, and basic techniques necessary for teaching machine shorthand.

**Business Education 600. Foundations of Business Education.** (3-0-3); I. Basic and historical factors, professional aspects, issues, trends, and principles of business education.

**Business Education 601. Problems in Business Education.** (3-0-3); II. Curriculum trends, federal legislation, pertinent research, and teaching aids.

**Business Education 603. Business Curriculum.** (3-0-3); II. Principles, concepts, and procedures of evaluating and constructing business curriculum at all levels. Includes pertinent research.

**Business Education 621. Improvement of Instruction in Typewriting.** (2-0-2); III. Learning theory, pertinent research, teaching aids, methodology, and testing and evaluating instruction in typewriting.

**Business Education 622. Improvement of Instruction in Shorthand.** (2-0-2); III. Learning theory, pertinent research, methodology, teaching aids, and testing and evaluating instruction in shorthand.

**Business Education 623. Improvement of Instruction in Bookkeeping and Accounting.** (2-0-2); III. Learning theory, pertinent research, methodology, teaching aids, and testing and evaluating instruction in bookkeeping and accounting.

**Business Education 630. Business Communications for Management.** (3-0-3); I. Designed to give the graduate student in-depth study in communication theory and practical application.

**Business Education 631. Testing and Evaluation in Business Education.** (3-0-3); II. Development, selection and interpretation of tests. Includes statistical techniques.

**Business Education 640. Introduction to Research in Business Education.** (3-0-3); I. Research design and applications in business education. Significant research reviewed.

**Business Education 670. Research Problems.** (0-0-1 to 3); I, II, III. Prerequisite: Business Education 640 or equivalent. Research in business education. Designed for candidates selecting the non-thesis option of the Master in Business Education degree.

**Business Education 676. Independent Research.** (0-0-1 to 3); I, II, III. Research initiated by the student. Problem and justification must be in writing.

**Business Education 698. Advanced Supervised Field Study.** (0-0-1 to 6); I, II, III. This course is designed to give the student actual work

experiences in business or industry. Number of credit hours for each student will be determined by the instructor.

**Business Education 699. Thesis.** (0-0-1 to 6); I, II, III. Independent research and thesis writing.

## Economics

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

**Economics 500. Mathematical Economics.** (3-0-3); as needed.

Prerequisite: Mathematics 152 and Mathematics 354. Application of mathematical and statistical techniques to the theory of the firm, market and national income models.

**Economics 501. Environmental Economics.** (3-0-3); II.

Prerequisite: Economics 201 and 202 or consent of the instructor. Analysis of the economic reasons contributing to environmental degradation and exploration of alternative economic policies.

**Economics 503. Urban and Regional Economics.** (3-0-3); II.

Prerequisite: Economics 201 and 202. Analysis of location patterns, land use, urban and regional structure and growth, and development strategies. Emphasis is placed on contemporary problems and possible solutions.

**Economics 540. World Manufacturing.** (3-0-3); as needed. (See Geography 540.)

**Economics 541. Public Finance.** (3-0-3); I.

Prerequisite: Economics 201 and 202 or the consent of the instructor. Public expenditures; public revenue; taxation; public credit; financial administration of government.

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

Prerequisite: Economics 201 and 202 or the consent of the instructor. International trade theory, international monetary relationships, and the balance of payments. Emphasis is placed on contemporary problems and possible solutions.

**Economics 555. Economic Development and Growth.** (3-0-3); as needed.

Prerequisite: Economics 201 and 202 or the consent of the instructor. Classical and modern theories of growth and development and their application in both advanced and underdeveloped nations.

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

**Economics 570. Research Problems in Economics.** (1 to 3); as needed.

Prerequisite: A minor in economics or equivalent. Provides an opportunity and challenge for self-directed study on economic problems.

**Economics 580. American Business History.** (3-0-3); I, II. (See History 580.)

**Economics 600. Survey of Economics.** (3-0-3); I, II.

Prerequisite: Graduate standing. A survey of economic analysis including both the theory of the firm and national income determination.

**Economics 645. Economic Aspect of Government Regulation of Business.** (3-0-3); as needed.

Prerequisite: Economics 201 and 202 or Economics 600. Forms of business combination; the problem of business concentration and monopoly; the role of the regulatory agency; antitrust legislation and interpretation.

**Economics 661. Managerial Economics.** (3-0-3); I, II.

Prerequisite: Economics 201 and 202 or Economics 600. Application of economic theory to management decisions; demand analysis; cost determination; pricing; capital budgeting.



## School of EDUCATION

Department of Administration,  
Supervision and  
Secondary Education  
Department of Adult, Counseling and  
Higher Education  
Department of Elementary and  
Early Childhood Education  
Department of Health, Physical  
Education and Recreation  
Department of Library Science and  
Instructional Media  
Department of Psychology and  
Special Education

### Degrees:

Master of Arts in Education  
Master of Arts in Adult and  
Continuing Education  
Master of Arts in Health, Physical  
Education and Recreation  
Master of Higher Education  
Master of Arts in Psychology  
Specialist in Education  
Joint Doctoral

### Graduate Programs

**I. Non-Degree Program: Fifth Year**—for elementary and secondary teachers, librarians and special education teachers.

#### II. Master's Degree Programs:

##### Master of Arts in Education

1. For elementary teachers—General professional core with courses outside education selected to meet the needs of the student. Students may elect a specialization in pre-school or special education in lieu of an outside of education emphasis.
2. For secondary teachers—General professional core with areas of concentration in appropriate teaching fields.
3. For elementary or secondary teachers—Specialized programs available in:
  - (a) reading
  - (b) library science
  - (c) special education
  - (d) guidance counseling
  - (e) school business administrator\*

\* Teacher's certificate not required for this program.

##### Master of Arts in Adult and Continuing Education

Professional courses in adult education plus a specialization planned to meet the needs of the student.

##### Master of Arts in Health, Physical Education and Recreation

A general core of courses covering all areas of health, physical education and recreation plus curricular selections planned to meet the needs of the student.

### Master of Higher Education

Professional courses in higher education plus specialization in:

- (a) teaching (concentration in appropriate field)
- (b) counseling
- (c) general administration
- (d) student personnel administration

### Master of Arts in Psychology

1. Major in general-experimental psychology
2. Major in school-clinical psychology

### III. Post-Master's Programs:

- A. Certification for administration and supervision (45 hours including master's degree)
  1. elementary principal
  2. secondary principal
  3. director of pupil personnel
  4. school supervisor
- B. Rank I (60 hours including master's degree, or 30 hours after the completion of the fifth year program.)
  1. elementary teacher
  2. secondary teacher
- C. Rank I (60 hours including master's degree)
  1. guidance counselor
  2. school supervisor
  3. elementary principal
  4. secondary principal
  5. school superintendent (certification)

### IV. Specialist in Education (Ed.S.) degree

- (a) administration and supervision
- (b) adult and continuing education
- (c) higher education
- (d) curriculum and instruction
- (e) guidance and counseling

### V. Joint Doctoral Program with the University of Kentucky

### The Fifth Year Non-Degree Program (Departments: Elementary and Early Childhood Education and Secondary Education)

The fifth-year, non-degree program qualifies Kentucky teachers for Rank II on the salary schedule and also may be used to renew the Provisional Teaching Certificate, or in some cases, obtain initial certification in special education or librarianship.

The fifth year program may also serve as a basis for advancement to a Rank I program for teachers.

1. A baccalaureate degree from an accredited college or university.
2. A Kentucky Provisional Teaching Certificate or equivalent certificate from another state.

The program must be completed within ten years. (In exceptional cases the graduate committee will, upon the recommendation of the student's advisor, consider a request for extension of time.)

Grade of "C" or better is required in all work submitted for the program.

In accordance with the regulations of the Kentucky State Board of Education, additional specific requirements for this program are:

1. The program must be planned with the student's advisor.
2. A minimum of 32 semester hours must be completed.
3. A minimum of 18 semester hours must be earned in residence at Morehead.
4. A minimum of 12 semester hours must be earned in courses carrying graduate credit.
5. A minimum of 12 hours must be earned in courses in professional education.
6. A minimum of 12 semester hours must be earned in courses outside professional education. Students may elect a specialization in pre-school or special education.

### Master's Degree Programs

Requirements for admission: general admission to graduate study. The separate programs may have additional requirements that must be met.

#### Prerequisites for Admission to Candidacy:

In all cases, the student must file application for candidacy and be recommended by the appropriate department. Applications will be considered when the following conditions have been met:

1. The appropriate Graduate Record Examination tests have been completed.
2. The applicant has completed 8 to 15 semester hours of the program.
3. The application for candidacy has been filed with the Graduate Office.

For the specific criteria for admission to candidacy in a particular master's degree program, the section in the catalog dealing with that program should be consulted.

Applicants who are denied admission to candidacy may file a written appeals containing the rationale for exception to the standards with the department to which the program belongs.

At least 15 hours of the program must be completed after admission to candidacy.

#### Requirements for the Degree

1. A minimum of 30 semester hours of graduate work or a minimum of 24 semester hours and an acceptable thesis.
2. At least 15 hours of work must be done in courses open only to graduate students (courses numbered 600 or above.)
3. Not more than nine semester hours of work transferred from another institution and not more than 12 semester hours of transferred and/or Morehead extension work may be applied toward the master's degree, i.e., at least 18 of the 30 hours must be done for residence credit.
4. A minimum of two-thirds of the 30-hour program must be earned in regularly organized courses other than television, independent study, research problems and thesis.
5. A minimum grade-point average of 3.0 (A-4.0) is required for all work taken in the program and no credit is allowed for a mark below "C". All graduate courses attempted are counted in computing the grade-point average.
6. A minimum of 15 semester hours must be earned in one field of study.
7. The Graduate Record Examination (Aptitude Section) is required of all students pursuing master's degree programs in the School of Education. It is a prerequisite to the application for candidacy, and if not taken prior to entrance, it should be taken during the first term of enrollment.

8. The application for the degree must be filed with the Graduate Office early in the term preceding the one in which the student expects to complete his work.
9. A comprehensive examination — oral and/or written — is required of all candidates for the master's degree. If a thesis is written, this examination will include the student's defense of his thesis.

### Master of Arts in Education

The Master of Arts in Education is a professional degree. If a student holds, or is eligible to hold, a provisional elementary or secondary teacher's certificate or provisional certificate for teachers of exceptional children, he may, through the different curricula leading to this degree, qualify for the corresponding standard teacher's certificate or the provisional certificate for the guidance counselor or school librarian in Kentucky.

Students completing a program for the Master of Arts in Education and meeting certificate requirements in Kentucky are fully accepted for a similar certificate in many other states. A student who expects to meet certification requirements in another state should contact the certification authority in that state to determine if there are specific requirements which should be included in his program of study for the degree.

#### Requirements for Admission to the Program

1. General admission to graduate study.
2. A minimum of nine semester hours of undergraduate credit in professional education. Requirements for the Provisional Teacher's Certificate must be completed before the degree is granted when these requirements were not met in the undergraduate program.

#### Requirements for Admission to Candidacy

1. The student must have the written recommendation of his advisor and concurrence of the department head that he is a suitable candidate for admission to candidacy in his program.
2. The student must have completed 8 to 15 hours of graduate work. In elementary education curriculum, this shall include Ed 600 and Ed 610, 630 or 680. In secondary curriculum, Ed 600 and Ed 610, 634, or 683. In guidance program, Ed 600 and one course in guidance. In special education this shall include Education 600 or 610 and two courses in special education.
3. The student must have earned a minimum grade point of 3.0 on the 8 to 15 hours of graduate work.
4. The student must have satisfactory scores on the Graduate Record Examination (Aptitude).

#### Comprehensive Examination

The advanced in Education Test of Graduate Record Examination is required of all candidates for the Master of Arts in Education degree. The test should be taken early enough to assure the return of the scores prior to the end of the semester in which the degree is to be awarded. Additional written and/or oral examinations may be required as part of the comprehensive examination.

#### The Curricula

##### ELEMENTARY TEACHERS

(Department: Elementary and Early Childhood Education)

	Sem. Hrs.
Ed 600—Research Methods in Education . . . . .	2
Ed 610—Advanced Human Growth & Development. . . . .	3
Ed 630—Curriculum Construction. . . . .	2
Ed 680—History & Philosophy of Ed. . . . .	3



Ed 627—Reading in the Elementary School.....	3
Ed 699—Thesis (6 hrs.) or Approved Electives.....	5
Concentration of courses other than professional education or a specialization in early childhood education or special education ..	12
Minimum Total	30

## SECONDARY TEACHERS

(Department: Secondary Education)

	Sem. Hrs.
Ed 600—Research Methods in Education.....	2
Ed 683—The American Secondary School.....	3
Ed 634—Secondary School Curriculum.....	3
Ed 610—Advanced Human Growth & Development.....	3
Ed 681—Seminar—Methods for Secondary Teachers.....	1
Ed 699—Thesis or Approved Electives.....	6
From specialized area of preparation (other than professional education).....	12
Minimum Total	30

## ELEMENTARY CURRICULUM FOR THE READING SPECIALIST ENDORSEMENT\*\*

<b>Basic Curriculum.....</b>	<b>7 Semester Hours</b>
Ed 600*—Research Methods in Education	
Ed 630*—Curriculum Construction	
Ed 680—History and Philosophy of Education	
<b>Specialized Area in Education.....</b>	<b>12 Semester Hours</b>
Ed 562—Remedial Reading	
Ed 626*—Investigations in Reading	
Ed 624—Practicum in Reading (4 hrs.)	
Ed 627—Reading in the Elementary School	
or	
Ed 677—Reading in the Content Areas	
Ed 676—Independent Study in Reading	
<b>Specialized Area Outside of Ed.....</b>	<b>12 Semester Hours</b>
Psy 610—Advanced Human Growth and 9 hours of advisor-approved courses in psychology or linguistics.	
Total—31 Semester Hours	

\* These courses carry two semester hours of credit; all other courses carry three hours, with the exception of Ed 624, Practicum in Reading, which carries four, and Ed 676, Independent Study in Reading, which carries one to three hours of credit.

\*\* Three years of successful teaching experience must be completed before the endorsement is granted.

## SECONDARY CURRICULUM FOR THE READING SPECIALIST ENDORSEMENT\*\*

<b>Basic Curriculum.....</b>	<b>9 Semester Hours</b>
Ed 600*—Research Methods in Education	
Ed 634—Secondary School Curriculum	
Ed 683—The American Secondary School	
Ed 681—Seminar: Methods for Secondary Teachers	
<b>Specialized Area in Education.....</b>	<b>12 Semester Hours</b>
Ed 562—Remedial Reading	
Ed 626*—Investigation in Reading	
Ed 624—Practicum in Reading (4 hrs.)	
Ed 576—Reading in the Secondary School	
or	
Ed 677—Reading in the Content Areas	
Ed 676—Independent Study in Reading	
<b>Specialized Area Outside of Education.....</b>	<b>12 Semester Hours</b>
Psy 610—Advanced Human Growth and 9 hours of advisor approved courses in psychology or linguistics.	
Total — 33 Semester Hours	

\* These courses carry two semester hours of credit; all other courses carry three hours, with the exception of Ed 624, Practicum in Reading, which carries four; Ed 681, Seminar, which carries one; and Ed 676, Independent Study in Reading, which carries one to three hours of credit.

\*\* Three years of successful teaching experience must be completed before the endorsement is granted.

## SCHOOL LIBRARIANS (Department: Library Science and Instructional Media)

	Sem. Hrs.
Ed 600—Research Methods in Education.....	2
Ed 610—Advanced Human Growth & Development.....	3
Ed 630—Curriculum Construction.....	2
Ed 680—History and Philosophy of Education.....	3
LSM* 511—Cataloging and Classification.....	3
LSM 521—Books and Materials for Young People.....	3
LSM 523—Reference and Bibliography.....	3
LSM 575—School Library Practice.....	3-4
LSM 627—Research in Children's Literature.....	3
Electives (Must include two hours at 600 level).....	4-5
Minimum Total	30

\* If credit in Children's Literature (LSM 227) and/or library Organization and Administration (LSM 301) has not been earned at the undergraduate level, they must be taken as a part of this curriculum. These courses do not carry graduate credit.

If any listed library science courses have been taken for undergraduate credit, LSM 522, 521, 670 or course(s) approved by the director of library science program may be taken.

## SPECIAL EDUCATION

(Department: Psychology and Special Education)

The program leads to the standard certificate for teachers of special education — educable mentally retarded and trainable mentally retarded. A prerequisite is the provisional certificate in special education.

### The Curriculum

	Sem. Hrs.
Ed 600—Research Methods in Education.....	2
Ed 610—Advanced Human Growth & Development.....	3
Ed 630—Curriculum Construction.....	2
Ed 680—History and Philosophy of Education.....	3
Selected from the following:.....	10
Ed 537—Educational Assessment of Exceptional Children	
Ed 550—Nature and Needs of Exceptional Children	
Ed 552—Learning Disabilities	
Ed 565—Auditory and Visual Problems	
Ed 601—Survey of Exceptional Children	
Ed 602—Speech and Language Problems	
Ed 655—Teaching the Exceptional Child	
Ed 668—Organization of Special Classes in the School	
Ed 675—Practicum in Special Education	
Psychology — Selected from the following:.....	6
Psy 590—Abnormal Psychology	
Psy 609—Educational Psychology	
Psy 612—Aspiration and Ability Evaluation	
Psy 633—Personality Theory	
Psy 634—Learning Theory	
Approved Electives—Outside Professional Education.....	6
Minimum Total	32

Students who hold the new provisional certificate for teachers of exceptional children may qualify for a standard certificate for teachers of exceptional children through completing the master's degree.

Students who have a certificate for teaching special education under the old certification guidelines in Kentucky may, through a conversion program, qualify for the new provisional certificate for teachers of exceptional children. Individuals holding a certificate for teaching the educable mentally handicapped may convert it to the new learning and behavior disorders certificate which enables him or her to teach children who are mildly emotionally disturbed, orthopedically handicapped, or who are classified as having learning disabilities in addition to the educable mentally handicapped.

### SCHOOL BUSINESS ADMINISTRATOR (Department: Administration, Supervision and Secondary Education)

This program is designed to prepare personnel to serve in the capacity of finance officer or school business administrator, to direct the financial affairs of a school district under the jurisdiction of the local superintendent and school board. It should appeal particularly to teachers with a major or minor in business administration.

#### For the Provisional Certificate

1. Provisional certification may be attained by a student admitted to the program upon completion of 18 hours in approved courses from the curriculum for the Standard Certificate.
2. The Provisional Certificate may be renewed once with the completion of at least eight additional hours of work leading to the Standard Certificate.

#### For the Standard Certificate

Admission to and satisfactory completion of the program.

#### The Program

In addition to meeting the requirements for the master's degree, the following curriculum must be included in the student's undergraduate and graduate work.

From Education	Sem. Hrs.
Ed 628—School Law	15-18
Ed 686—The School Plant	3
Ed 684—School Finance	2
Ed 680—History & Philosophy of Education	3
Ed 516—Educational Data Processing	3
Elect two of the following three:	
*Ed 645—Princ. of Educational Adm.	3
*Ed 678—Internship in School Adm.	1-3
*Ed 692—Administration of School Personnel	3
* Approved electives in school organization and administration may be substituted.	
Course must be approved prior to registration.	
From the School of Business and Economics (undergraduate)	12
†Acct. 281 and 282—Principles of Accounting I & II	6
†BE 363—Office Management	3
Acct. 528—Governmental Accounting	3
BA 311—Personnel Management	3
Econ. 541—Public Finance	3
One of the following:	
BA 461—Business Law I (Undergraduate)	3
BA 561—Business Law II Graduate	3
† These courses must be completed for undergraduate credit if the student has not taken them prior to admission to the program.	

### COUNSELOR EDUCATION

(Department: Adult, Counseling and Higher Education)

The Guidance and Counseling programs are designed to provide the candidate with learning and supervised training opportunities in individual and group guidance counseling in the following areas:

1. Guidance counselors for elementary schools.
2. Guidance counselors for secondary schools.
- \*3. Counselors to work with adolescents and adults in non-school settings.
- \*4. Guidance counselors to work in higher education.

\* NOTE: Persons doing guidance and counseling outside of schools—pastors, social workers and others—are expected to apply for the Master of Arts in Adult and Continuing Education degree program

with a specialty in counseling. Persons interested in counseling students in higher education should consider the Master of Higher Education degree program with a specialized area in guidance counseling. These two programs do not qualify the candidate for certification as a guidance counselor in the public schools.

Elementary or secondary teachers who complete the corresponding guidance counseling program will qualify for provisional certification as guidance counselors in Kentucky and in most other states. Students expecting certification in another state should check requirements of that state so that particular requirements may be included in their program.

Certification as a secondary school guidance counselor is required of counselors in Kentucky's vocational schools.

Students planning to work in vocational schools who do not have an undergraduate background in vocational education should plan to take additional courses in the School of Applied Sciences and Technology.

General admission to graduate study and a teacher's certificate based on a four-year undergraduate program at the level for which the applicant seeks certification as a guidance counselor is required; at least one year's teaching experience is needed for certification.

### Program of Study Leading to the Provisional Counselor and Standard Teacher Certificates

#### ELEMENTARY GUIDANCE COUNSELOR

Counseling	18 Hours
Ed 656 — Principles of Guidance	3
Ed 665 — Program Organization and Informational Services	3
Ed 666-A — Techniques of Counseling	3
Ed 667-A — Group Procedures	3
Ed 617 — Career Education for the Elementary Teacher	3
or	
Ed 619 — Organization and Administration of Career Education	
Ed 669-A — Practicum in Guidance and Counseling	3
Professional Education	9 Hours
Required Courses	8 Hours
Ed 600 — Research Methods in Education	2
Ed 610 — Advanced Human Growth & Development	3
Ed 627 — Reading in the Elementary School	3
Electives	1 Hour
A course in general curriculum development	
Ed 630 — Curriculum Construction	2
or	
A course in foundations of education	
Ed 680 — History and Philosophy of Education	3
or	
A course in psychology of learning	
Psy 589 — Psychology of Learning	3

#### SECONDARY GUIDANCE COUNSELOR

Counseling	18 Hours
Ed 656 — Principles of Guidance	3
Ed 665 — Program Organization and Informational Services	3
Ed 666-B — Techniques of Counseling	3
Ed 667-B — Group Procedures	3
Ed 618 — Career Education for Secondary Teachers	3
or	
Ed 619 — Organization and Administration of Career Education	3
Ed 669-B — Practicum in Guidance & Counseling	3
Professional Education	9 Hours
Required Courses	5 Hours
Ed 600 — Research Methods in Education	2
Ed 610 — Advanced Human Growth & Development	3
Elective	4 Hours
A course in general curriculum development	

Ed 630 — Curriculum Construction .....	2
Ed 681 — Seminar: Methods for Secondary Teachers .....	1
A course in foundations of education as:	
Ed 680 — History and Philosophy of Education .....	3
or	
Ed 683 — The American Secondary School	
A course in psychology of learning as:	
Psy 589 — Psychology of Learning .....	3
Supportives .....	3 Hours
Graduate course in Tests and Measurements as:	
Ed 580 — Measurement Principles & Techniques .....	3
Ed 662 — Individual Inventory Techniques .....	3
Psy 612 — Aspiration and Ability Evaluation .....	3
Total Hours Required	30

## Master of Arts in Psychology

Students majoring in Psychology for the Master of Arts degree may emphasize either general-experimental psychology or school-clinical psychology. An identical core of 12 semester hours of course work is required in each of the programs. The remaining 18 hours are devoted to the student's major field of interest.

The general-experimental program leads to the master's degree, which will enable the holder to begin employment or continue his studies.

The master's degree in School-Clinical Psychology enables the student to apply for certification from the State Board of Examiners in Psychology in the certification areas of school psychology and psychodiagnostics. Application for certification in behavior modification may be made on the basis of additional work by selected students.

### Requirements for Admission to Graduate Study in Psychology

#### Unconditional Admission

1. Completion of:
  - (a) 18 semester hours of psychology, including:
    - Experimental Psychology .....
    - Systems and Theories .....
  - (b) 3 semester hours of statistics.
2. A minimum average of 3.0 on all undergraduate psychology courses above the freshman level.

#### Conditional Admission

Students who lack prerequisite courses may be conditionally admitted. Credit for course work required in order to gain unconditional admission may not be applied towards the master's degree.

### Requirements (and Procedure) for Admission to Candidacy in Psychology

Students should apply to the chairman of the Department of Psychology and Special Education to take the comprehensive qualifying examinations for candidacy. Comprehensive examinations will be given in the student's major area of interest and three elected areas to be chosen by the student from the following:

#### Group I

1. Learning and Motivation
2. Physiological Psychology
3. Research Design and Statistics
4. Sensation and Perception

#### Group II

1. Personality and Psychopathology
2. Human Development
3. Psychological Testing and Diagnosis
4. Psychotherapy

No more than three areas may be taken from one group.

These examinations will be given two weeks following the mid-semester grade due date of each of the three regular semesters. Applications for candidacy examinations must be submitted to the department chairman prior to the mid-semester grade due date of the semester in which the student applies for candidacy.

Students will be recommended for candidacy after having achieved or completed the following five requirements:

1. A satisfactory grade on each of the four candidacy qualifying examinations.
2. A 3.0 or higher grade-point average with a minimum of eight hours of graduate credit.
3. A combined minimum of 800 on the quantitative and verbal scores and satisfactory completion of the psychology area test of the Graduate Record Examination.
4. Recommendation of psychology faculty.
5. Removal of all admission conditions. This is applicable only to students who were admitted on a conditional basis.

The student's advisor and committee will determine at the time of admission to candidacy those courses, thesis and internship requirements that must be taken to complete the master's program. A minimum of 15 semester hours of graduate credit must be earned after admission to candidacy.

### General Requirements for the Degree

1. Core requirements. All students must complete at least one course in each of the following areas:
  - (a) Clinical: Psychology 556, 558, 590, 633.
  - (b) Developmental: Psychology 610
  - (c) Experimental: Psychology 521, 582, 583, 584, 586, 621
  - (d) Statistics: Mathematics 553
2. Successful completion of a written and/or oral examination in general psychology and topics included in the major emphasis in graduate studies.

### Special Requirements for the Degree

1. General-Experimental Requirements: Completion and defense of an approved thesis — maximum credit allowance of six hours. Completion of a minimum of 18 semester hours of approved course work in psychology and related fields. Minimum of 30 semester hours for the degree.
2. School-Clinical Psychology Requirements: Completion of 6 to 12 hours of internship. Completion of a minimum of 18 semester hours of approved course work in psychology and related fields. Minimum of 30 semester hours for the degree.

## Master of Arts in Adult and Continuing Education

The Adult and Continuing Education graduate program is designed to develop the capacity of individuals to plan, organize, and carry through a variety of educational and service programs to meet the broad spectrum of adult needs in today's dynamic society. The program is flexible in that a course of study is designed with each student. This will develop the special competencies and understanding needed in accordance with the professional role that the student plans to assume in working with adults.



### Requirements for Admission

1. General admission to graduate study.
2. Two years of relevant professional experience is advisable.

### Requirements for Admission to Candidacy

1. A written recommendation by the student's advisor and concurrence of the department head.
2. Completion of 8 to 15 hours of graduate work including Ed 600, an approved course in Adult and Continuing Education, and one course from the student's area of specialization.
3. The student must have earned a minimum grade-point average of 3.0 on the 8 to 15 hours of graduate work.
4. The student must have satisfactory performance on the Graduate Record Examination (Aptitude test).

A minimum of 15 hours must be completed after requirements have been met and application for candidacy has been filed.

### The Curriculum

	Sem. Hrs.
Ed 600—Research Methods in Education	2
Adult and continuing education selected from the following:	12
Ed 554—Principles of Adults and Continuing Education	
Ed 650—Basic Education for the Disadvantaged Adult	
Ed 651—Human Development in Adulthood	
Ed 652—The Community School	
Ed 653—Planning and Evaluating the Adult Program	
Ed 654—Special Problems in Adult Education	
Ed 670—Research Problems: Adult Education	
Ed 676—Independent Study: Adult Education	
Ed 678—Internship	
Ed 688—Seminar in Adult Education	
Ed 699—Thesis	
Area of Specialization	9
*Electives (to be selected by student and graduate committee)	7
	30

\*The student may pursue a thesis, Ed 699, (13-6 sem. hrs.) in lieu of an equal number of elective hours.

### Master of Higher Education

The Master of Higher Education degree program is specifically designed to provide advanced study and preparation for:

1. Teaching in higher education.
2. General administration in higher education.
3. Student personnel administration.
4. Counseling in higher education.

### Requirements for Admission to the Program

1. General admission to graduate study.
2. Students must have an area of specialization based on an undergraduate major or minor in the teaching field or an aptitude that indicates interest and potential in non-teaching areas.

### Requirements for Admission to Candidacy in the Program

1. Written recommendation of the student's advisor and concurrence of the department head.
2. Completion of 8 to 15 hours of the program, including Ed 600, an approved higher education course, and one course from the teaching field or area of specialization.
3. Must have earned a minimum grade-point average of 3.0 or better on the 8 to 15 hours.
4. Must have satisfactory performance on the Graduate Record Examination (Aptitude test).

A minimum of 15 hours must be completed after requirements have been met and application for candidacy has been filed.

### The Curriculum

	Sem. Hrs.
Ed 600—Research Methods in Education	2
Higher Education—selected from the following	7-10
Ed 635—Curriculum Construction in Higher Education	
Ed 640—The Two-Year College in Higher Education	
Ed 641—Academic and Administrative Problems in Higher Education	
Ed 642—Student Personnel Work in Higher Education	
Ed 643—Seminar in Higher Education	
Ed 670—Research Problems: Higher Education	
Ed 676—Independent Study: Higher Education	
Ed 678—Internship in Higher Education	
*Teaching field or area of specialization	15-18
(At least nine hours of this work must be done in courses restricted to graduate students.)	
Thesis, or courses approved by the advisor	3-6
Minimum Total	30

\*It is especially important that the student clearly determine the discipline or area of specialization he wishes to pursue, and carefully plan his program with his advisor.

### Master of Arts in Health, Physical Education and Recreation

The curricula leading to the degree of Master of Arts in Health, Physical Education and Recreation are designed to meet the needs of students who wish to further their training for a particular role as instructor, supervisor or administrator in a health, physical education or recreation program in the school or community.

### Requirements for Admission

1. General admission to graduate study.
2. A major, minor, or a minimum of 18 approved hours in health, physical education and recreation.

### Requirements for Admission to Candidacy

1. Written recommendation of the student's advisor and concurrence of the department head.
2. Completion of 8 to 15 hours of approved graduate course work, including Ed 600 and two of the following: PE 601, PE 604, Hlth 601, Hlth 612, Rec 630, Rec 635.
3. The student must have earned a minimum grade-point average of 3.0 on the 8 to 15 hours of graduate work.
4. The student must have satisfactory performance on the Graduate Record Examination (Aptitude test).

A minimum of 15 hours must be completed after requirements have been met and application for candidacy has been filed.

### Requirements for the Degree

1. A minimum of 30 semester hours of approved graduate course work, including the following: Ed 600, PE 601, PE 604, Hlth 601, or Hlth 612, Rec 630 or Rec 635. A maximum of six semester hours may be allowed for an acceptable thesis.
2. A minimum of 18 semester hours in courses in health, physical education and recreation.
3. A minimum of 10 semester hours in health, physical education and recreation must be in courses restricted to graduate students. A minimum of 15 semester hours of the total course work must be in courses restricted to graduate students.
4. A minimum quality-point standing of 3.0.
5. Satisfactory completion of an oral examination, which will include defense of the thesis, when a thesis is written.

NOTE: Completion of this program will serve to renew or extend the Kentucky provisional certificate for elementary or secondary

teachers on continuing basis. Students holding the Provisional Secondary Certificate who wish to obtain the Standard Secondary Teachers Certificate must complete as a part of, and/or in addition to, this program: Ed 600, Ed 610, Ed 630, and Ed 680. Elementary teachers must complete Ed 600, Ed 626, or Ed 627 and two of the following: Ed 610, Ed 630, Ed 680 to qualify for the Standard Elementary Certificate.

### Post-Master's Programs

In keeping with state certification requirements, Morehead State University offers programs of study beyond the master's degree for teachers, supervisors, guidance counselors, principals, and superintendents, which may qualify them for additional certification and/or for Rank I on the Kentucky salary schedule.

Programs consisting of a minimum of 45 semester hours of graduate work, including the master's degree, are available for Kentucky certification of elementary principals, secondary principals, school supervisors and directors of pupil personnel.

A Rank I Program for teachers is planned for 60 graduate hours, including the master's degree. Also, a Rank I Program for teachers is planned for 30 graduate hours in addition to the requirements for the Fifth-Year Program.

If the student has not previously met the Kentucky requirements for a standard teacher's certificate he must do so for the Rank I programs for elementary or secondary teachers, and for those in administrative and supervision.

### Requirements for Admission to the Rank I Programs

1. Must hold a master's degree from an accredited college or university, or have completed a Fifth-Year Program.
2. Must hold a valid teaching certificate.

In addition to the above requirements, the following apply to applicants for guidance counseling, or administrative and supervisory programs:

- (a) Applicants who hold valid and active certificates in guidance counseling, administration or supervision may be admitted to programs in the areas in which they are certified.
- (b) Students may qualify for admission to programs in guidance counseling, administration, or supervision by scoring 800 or better on the Aptitude Section of the Graduate Record Examination. Students who score below 800, but above 700, may be considered for the program if they have earned a standing of 3.5 on all graduate work and are recommended by the department which offers the program.
- (c) Applicants must be recommended for admission to the program by the screening and interview committee.

Students who are not recommended for admission may file a written appeal containing a rationale for exception to the standards with the Graduate Committee, School of Education.

### General Requirements for the Rank I Programs

1. The program must be planned with the student's advisor.
2. A minimum of 60 graduate hours including the master's degree, or the Fifth-Year plus 30 hours.
3. A grade-point average of "B" or better in all work offered for the program. No credit is accepted on grades lower than "C".
4. A minimum of 30 semester hours (of the total 60 hours) in courses open only to graduate students.
5. A minimum of 15 semester hours (of the last 30) in residence credit at Morehead State University.

If the student desires that the University certify to the State Department of Education and/or his local superintendent that he has completed a Rank I program, request for this should be filed with the Graduate office during the term in which he expects to complete the program. Applications for Kentucky certificates must be filed on official forms.

### CERTIFICATION PROGRAM FOR ELEMENTARY SCHOOL PRINCIPALS

(45 graduate hours, including the Master's Degree)

(Department: Administration, Supervision, and Secondary Education)

Each of the following courses must be included in either the master's or post-master's work. (Additional courses may be necessary in instances where the prerequisites to those courses have not been completed.) Qualifying for the Standard Elementary Teacher's Certificate and three years of successful teaching experience are prerequisite to the issuance of the elementary principal's certificate.

#### The Curriculum

	Sem. Hrs.
Ed 632—Elementary Curriculum .....	2
Ed 656—Principles of Guidance .....	3
*Ed 660—Supervision .....	3
*Ed 672—Seminar: Problems of the Principal .....	1
*Ed 695—The Elementary School Principal .....	2
Ed 580—Measurement Principles & Techniques .....	3
Ed —Approved elective .....	1
Minimum Total .....	15

\* These courses are open only to students approved for the program.

### CERTIFICATION PROGRAM FOR SECONDARY SCHOOL PRINCIPALS

(45 graduate hours, including the Master's Degree)

(Department: Administration, Supervision, and Secondary Education)

Each of the following courses must be included in either the master's degree or post-master's work. (Additional courses may be necessary where the prerequisites to these courses have not been completed.) Qualifying for the Standard Secondary Teacher's Certificate and three years of successful teaching experience are prerequisite to the issuance of the secondary principal's certificate.

#### The Curriculum

	Sem. Hrs.
Ed 634—Secondary Curriculum .....	3
Ed 656—Principles of Guidance .....	3
*Ed 660—Supervision .....	3
*Ed 672—Seminar: Problems of the Principal .....	1
*Ed 696—The Secondary School Principal .....	2
Ed 580—Measurement Principles and Techniques .....	3
Minimum Total .....	15

\* These courses are open only to students approved for the program.

### PROGRAM FOR EXTENDING SECONDARY PRINCIPAL'S CERTIFICATE TO ELEMENTARY PRINCIPALSHIP

A person holding a secondary principal's certificate in Kentucky may, with institutional approval, qualify for the elementary principalship by satisfactorily completing the following 15-hour curriculum:

	Sem. Hrs.
Ed 632—Elementary Curriculum .....	2
Ed 695—The Elementary School Principal .....	2

Ed 627—Reading in the Elementary School.....	3
Ed 678—Internship (in the Elementary School).....	2
Electives—Approved by the student's advisor, considering previous academic record and experience.....	6
Minimum Total	15

#### PROGRAM FOR EXTENDING ELEMENTARY PRINCIPAL'S CERTIFICATE TO SECONDARY PRINCIPALSHIP

A person holding an elementary principal's certificate in Kentucky may, with institutional approval, qualify for the secondary principalship by satisfactorily completing the following 15-hour curriculum:

	Sem. Hrs.
Ed 634—Secondary Curriculum.....	3
Ed 696—The Secondary School Principal.....	2
Ed 678—Internship (Secondary School).....	2
Ed 683—American Secondary School.....	3
Electives—Approved by student's advisor, considering previous academic record and experience.....	5
Minimum Total	15

#### CERTIFICATION PROGRAM FOR DIRECTORS OF PUPIL PERSONNEL

(45 graduate hours, including the Master's Degree)

(Department: Administration, Supervision, and  
Secondary Education)

#### Prerequisites for Professional Certification of Directors of Pupil Personnel

1. Completion of the requirements for either the Standard Elementary Certificate or the Standard High School Certificate.
2. Admission to, and satisfactory completion of, the prescribed program of the institution, consisting of a minimum of 45 graduate hours, including the master's degree.
3. Three years of successful teaching experience.

#### The Curriculum

In addition to meeting the requirements for the master's degree, the minimum of 45 graduate hours must include:

	Sem. Hrs.
From the following.....	7 to 10 hrs.†
*Ed 600—Research Methods in Education.....	2
*Ed 656—Principles of Guidance.....	3
Ed 645—Principles of Education Admin.....	3
Ed 692—Admin. of School Personnel.....	3
*Ed 628—School Law.....	3
Ed 691—The School and the Public.....	2
Ed 665—Organ. & Admin. of Guidance Services.....	3
Hlth 601—School Health Services.....	2
From the following.....	12 to 15 hrs.†
Ed 580—Meas. Princ. and Techniques.....	3
Ed 662—Individual Inventory Techniques.....	3
or	
*Ed 666—Techniques of Counseling.....	3
or	
Ed 537—Educ. Assessment of Except. Child.....	3
*Ed 610—Advanced Human Growth & Development.....	3
Ed 609—Advanced Educ. Psychology.....	3
Ed 550—Nature & Needs of Retarded Children.....	3
or	
Psy 590—Abnormal Psychology.....	3
Soc 600—Educational Sociology.....	3
Soc 525—The Community.....	3
or	
PS 546—Public Personnel Administration.....	3
or	
PS 548—Public Administration.....	3
Ed 698—Pupil Personnel Acct. & Records Mgmt.....	3

\* Course is required in the program

† Included in the minimum 45 hours of graduate work.

#### CERTIFICATION PROGRAM FOR SCHOOL SUPERVISORS

(45 graduate hours, including the Master's Degree)

(Department: Administration, Supervision,  
and Secondary Education)

Each of the following courses must be included in either the master's or post-master's work. (Additional courses may be necessary in instances where the prerequisites for these courses have not been completed.) Qualifying for either the Standard Elementary Certificate or the Standard Secondary Certificate and three years of successful teaching experience are prerequisite to the issuance of the certificate for school supervisors.

#### The Curriculum

	Sem. Hrs.
Ed 632—Elementary Curriculum.....	2
Ed 634—Secondary Curriculum.....	3
*Ed 660—Supervision.....	3
*Ed 672—Seminar: Problems of the Principal.....	1
Ed 691—The School and the Public.....	2
Ed 580—Measurement Principles & Techniques.....	3
An approved course in the advanced study of reading.....	2-3
One course from the following: Ed 550, 537, 552, 601 or 655.....	2-3
Minimum Total	15

\* These courses are open only to students approved for the program.

(The program must be planned with the student's advisor on check-sheets available for the program.)

#### RANK I PROGRAM FOR ELEMENTARY TEACHERS

(Department: Elementary and Early Childhood  
Education)

The minimum of 60 graduate hours, including the master's degree, must conform to the following area distribution:

	Sem. Hrs.
I. Studies dealing with research.....	6-8
II. Studies dealing with the nature and psychology of the learner.....	8-12
III. Studies dealing with the programs of the schools.....	9-16
IV. Outside professional education (from student's areas of preparation, or supporting courses).....	24
V. Electives.....	0-13
Minimum Total	60

(The program must be planned with the student's advisor on check-sheets available for the program.)

#### RANK I PROGRAM FOR SECONDARY TEACHERS

(Department: Administration, Supervision and  
Secondary Education)

The minimum of 60 graduate hours, including the master's degree, must conform to the following area distribution:

	Sem. Hrs.
I. Studies dealing with research.....	6-8
II. Studies dealing with the nature and psychology of the learner.....	9-12
III. Studies dealing with the programs of the school.....	8-12
IV. Outside professional education (from student's majors or minors or supporting courses from other disciplines).....	36
V. Electives.....	0-8
Minimum Total	60

(The program must be planned with the student's advisor on check-sheets available for the program.)



**RANK I PROGRAM FOR GUIDANCE COUNSELORS**

(60 graduate hours, including the Master's Degree)  
(Department: Adult, Counseling and Higher Education)

The minimum of 60 graduate hours, including the master's degree, must conform to the following area distribution:

	Sem. Hrs.
I. Guidance and Counseling	21-30
II. Professional Education	6-9
III. Testing	6-15
IV. Studies dealing with nature and psychology of the individual	9-17
V. Studies dealing with research	6-9
VI. Studies dealing with administration and supervision	3-6
VII. Approved electives from categories I-IV listed above	0-3
VIII. Approved electives	0-6
Minimum Total	60

(The program must be planned with the student's advisor on check sheets available for the program.)

**RANK I PROGRAM FOR SCHOOL SUPERVISORS**

(60 graduate hours, including the Master's Degree)

(Department: Administration, Supervision and Secondary Education)

A minimum of 60 semester hours, including the master's degree and the requirements for the School Supervisor's Certificate, must be completed for this program. The student's work must be planned with his advisor in accordance with the check sheet for the program to conform to the following distribution of courses in the master's and post master's programs:

	Sem. Hrs.
I. Studies dealing with administration and supervision	8-11
II. Studies dealing with research	5-8
III. Studies dealing with nature and psychology of the learner	9-12
IV. Studies dealing with programs of the school	11-15
V. Specialized non-professional (other than professional education) areas	12
VI. Approved electives in education or other areas	0-11
Minimum Total	60

**RANK I PROGRAM FOR ELEMENTARY PRINCIPALS**

(60 graduate hours, including the Master's Degree)

(Department: Administration, Supervision and Secondary Education)

A minimum of 60 semester hours including the master's degree and the requirements for the Elementary Principal's Certificate, must be completed for this program. The student's work must be planned with his advisor in accordance with the check sheet for the program to conform to the following distribution of courses in the master's and post-master's programs:

	Sem. Hrs.
I. Studies dealing with administration and supervision	9-12
II. Studies dealing with research	5-8
III. Studies dealing with nature and psychology of the learner	8-10
IV. Studies dealing with programs of the school	11-14
V. Specialized non-professional (other than professional education) areas	18-24
Minimum Total	60

**RANK I PROGRAM FOR SECONDARY PRINCIPALS**

(60 graduate hours, including the Master's Degree)

(Department: Administration, Supervision and Secondary Education)

A minimum of 60 semester hours including the master's degree and the requirements for the Secondary Principal's Certificate, must be completed for this program. The

student's work must be planned with his advisor in accordance with the check sheet for the program, to conform to the following distribution of courses in the master's and post-master's programs:

	Sem. Hrs.
I. Studies dealing with administration and supervision	9-12
II. Studies dealing with research	5-8
III. Studies dealing with nature and psychology of the learner	8-10
IV. Studies dealing with programs of the school	11-14
V. Specialized non-professional (other than professional education) areas	18-24
Minimum Total	60

**CERTIFICATION AND RANK I PROGRAM FOR THE SCHOOL SUPERINTENDENT**

(60 graduate hours, including the Master's Degree)

(Department: Administration, Supervision and Secondary Education)

A minimum of 60 semester hours, including the master's degree and the requirements for either the elementary or secondary principal's certificate (see above), must be completed for this program. The student's work must be planned in accordance with the check sheet for the program, to conform to the following distribution of courses in the master's and post-master's programs:

	Sem. Hrs.
I. Studies dealing with administration of supervision	13-16
II. Studies dealing with research	6-9
III. Studies dealing with nature and psychology of the learner	6-9
IV. Studies dealing with programs of the school	9-12
V. Specialized and supportive non-professional (other than education) areas	18-24
Minimum Total	60

**The Specialist in Education (Ed.S.) Degree**

The Specialist in Education degree program offers students who have demonstrated superior scholastic ability and special interest and aptitude in certain areas the opportunity to gain a high level of competency in a chosen specialized field for service as instructors, supervisors or administrators. In some cases, the program may serve to advance the candidate toward the doctorate. It should also be noted that the Education Specialist Program may qualify school personnel for Kentucky's highest salary for teachers; however, it is not intended as an alternative to the "Rank I" programs.

Programs of study for the Specialist in Education Degree are offered in:

1. Administration and Supervision
2. Higher Education
3. Curriculum and Instruction
4. Guidance
5. Adult and Continuing Education

**Requirements for Admission to the Specialist Degree Program**

1. A master's degree from an accredited college or university.
2. One year of successful work experience.
3. Acceptance by the Graduate Committee of the School of Education, and by the Dean of Graduate Programs. Criteria for admission are based upon:
  - (a) Evidence of superior scholastic performance as indicated by a grade-point average of 3.5 on the graduate work completed.
  - (b) A graduate Record Examination (aptitude) score of

800. Those individuals who score below 800, but above 700, on the GRE may take the NTE or the Miller's Analogies. Those who score 36 or above on the Miller Analogies or the 50th percentile or above on the NTE will be considered for admission to the Education Specialist Program.

- (c) Interview with the applicant conducted by the Admissions Committee. (In the case of Morehead State University graduates where the members of the committee feel that they have sufficient acquaintance with the applicant, the interview may be waived.)
- (d) Applicant's background in the area of his proposed specialization.
- (e) Recommendations from selected references.

### Joint Doctoral Program with the University of Kentucky

Morehead State University and the University of Kentucky have an agreement whereby students desiring to pursue a doctor's degree at the University of Kentucky may, upon being admitted jointly by these institutions, complete up to one year of their course work at Morehead State University.

Application for the joint program must be filed with the Dean of Graduate Programs at Morehead State University. A joint screening committee, composed of members from both institutions, will decide upon the applicant's eligibility.

In order to be admitted to the program, the applicant must meet the requirements for admission to the doctoral program of the School of Education at the University of Kentucky. To support his application, he must submit a transcript of his scores on the Graduate Record Examination (Aptitude and Advanced in Education tests), and the National Teacher Examinations.

After admission to the program, the student will be assigned to a doctoral committee composed of faculty members from both institutions. He will be permitted to do approximately one year of his work on campus at Morehead. In any case, a minimum of one academic year in residence at the University of Kentucky will be required.

One planning to pursue a doctoral program should, at an early stage in his graduate work, familiarize himself with the general nature and requirements for advanced graduate degrees, and secure additional information about the joint Morehead-University of Kentucky program from the Dean of Graduate Programs at Morehead State University.

### Professional Education

#### Course Offerings

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

**Education 516. Educational Data Processing.** (3-0-3); II. Basic concepts pertaining to unit-record equipment and computers. Applications in education, research, and administration. Designed primarily for students without previous data processing instruction.

**Education 527. The Pre-School Child.** (3-1-3); I, II. (Alternate summers with 528.) The principles of growth and development from the prenatal period to age six. Focuses attention on learning experiences for nursery and kindergarten children. (Laboratory experiences are an integral part of this course.)

**Education 528. Activities and Materials in Early Childhood Education.** (3-1-3); II, III. (Alternate summers with 527.) Investigates the needs and interests of early childhood and provides opportunities to explore objectives, materials, and techniques of instruction for this age group. (Laboratory experiences are an integral part of this course.)

**Education 529. Practicum in Early Childhood Education.** (1-4-4); I, II, III.

Prerequisites: Education 527, and 528; junior standing and admission to the teacher education program. Students are assigned to a pre-school classroom for observation, participation and teaching. On-campus seminars are held weekly. (Applications made through the Director of Professional Laboratory Experiences.)

**Education 537. Educational Assessment of Exceptional Children.** (2-2-3); I, II, III. Assessment methodology relating to the identification of behavioral deficits and excesses of students which lessen their performance level in one or more core academic subject areas.

**Education 547. Utilization of Educational Television.** (3-0-3); I, II, III.

Prerequisite: Upper division standing. The use of television in the classroom. The history and background of ETV; how a telecourse is developed; personnel needed; examples of telelessons and their use by outstanding teachers.

**Education 550. Nature and Needs of Exceptional Children.** (3-0-3); I, II, III.

Prerequisite: Education 230. The physical, psychological, and educational needs of educable and trainable mentally retarded children; research pertaining to the nature and needs of the mentally retarded; ways of developing maximum abilities.

**Education 551. Curriculum for Pre-School Exceptional Children.** (2-2-3); I, II, III.

Prerequisite: Education 230. Designed to prepare the teacher to work with pre-school children having handicapping conditions. Curriculum procedures involving perceptual-motor activities, prosthetic devices, and system approaches in special education will be featured.

**Education 552. Learning Disabilities.** (3-0-3); I, III. An examination of psychological, medical, and educational literature with survey, clinical, and experimental work concerning a specific learning disorder.

**Education 553. Curriculum for Secondary Exceptional Children.** (2-2-3); I, II, III.

Prerequisite: Education 230. Designed to prepare the teacher of exceptional children to develop procedures for modifying curriculum to include concepts related to preparation of exceptional children for employment. Vocational and career education instructional methods and materials will be explored along with the establishment and implementation of work-study programs for exceptional children.

**Education 554. Principles of Adult and Continuing Education.** (3-0-3); I, II. Overview of adult education; historical development; psychological and sociological basis of adult learning; trends and major issues in adult education; and the principles of teaching adults.

**Education 555. Teaching Children with Learning and Behavior Disorders.** (2-2-3); I, II, III.

Prerequisite: Education 230. A consideration of curriculum sequence as specialized methods of instruction, applicable to handicapped learners in classes for educable mentally retarded. The construction, use, and adaption of materials by teachers who are working with retarded children.

**Education 556. Teaching the Mentally Retarded.** (2-2-3); II.

Prerequisite: Education 230. Application of methods and materials for teaching the trainable mentally retarded. The construction and use of instructional aids to be used with the retarded individual.

**Education 557. Curriculum for Elementary Exceptional Children.** (2-2-3); I, II, III.

Prerequisite: Education 230. Designed to prepare the teacher to develop curriculum for exceptional children that integrates the use of prosthetic devices and equipment, parent counseling, and utilization of special education support services with the school program.

**Education 558. Learning Disabilities Methodology.** (2-2-3); I, II, III.

Prerequisite: Education 552. Application of materials and methods (including the construction of instructional aids) for teaching the student with learning disabilities.

**Education 559. Behavior Modification.** (2-2-3); I, II, III.

Prerequisite: Psychology 154 or 156. (See Psychology 559.)

**Education 562. Remedial Reading.** (2-2-3); II, III. (Alternate summers with Education 677.)

Prerequisite: Education 336 or 337. Materials, methods of diagnosing and treating reading difficulties. (Laboratory experiences are an integral part of this course.)

**Education 565. Auditory and Visual Problems.** (2-2-3); II.

Prerequisite: Education 230. Techniques for measuring hearing threshold with emphasis on the educational implication of impaired hearing; group screening; individual pure-tone testing; and speech audiometry.



**Education 566. Introduction to Vocational Rehabilitation Services.** (3-0-3); I, III. History of the vocational rehabilitation movement, legislative efforts and impact; an overview of the rehabilitation process, roles of rehabilitation professionals in various rehabilitation settings, discussion of values and ethics and an examination of professional organizations for rehabilitation personnel.

**Education 567. Rehabilitation of Special Groups.** (3-0-3); I, III. Prerequisite: Education 566 or permission of instructor. In-depth study of various target populations in need of rehabilitation services including physically disabled, public offenders, delinquents, drug addicts, aged, mentally retarded, and the educationally, socially and culturally disadvantaged.

**Education 576. Reading in the Secondary School.** (2-2-3); I, II, III. Emphasis is centered around reading instruction in the junior high and high school. Materials are included for instruction and studies of the administrative problems involved. (Laboratory experiences are an integral part of this course.)

**Education 580. Measurement Principles and Techniques.** (3-0-3); I, II, III. Identification of educational objectives associated with test construction; table of specifications; elementary statistics; testing and nontesting procedures. Investigations of major types of tests; administration, scoring and interpretation of test results. (Same as Psychology 580.)

**Education 581. Introduction to Educational Statistics.** (2-2-3); II, III. An introductory study of the applications of statistical and graphical methods to educational and psychological data. Includes areas of descriptive and inferential statistics that apply to educational research.

**Education 590. Supervision of Teaching Practicum.** (One to three hours); I, II, III.

Prerequisite: Teacher certificate. Basic principles and procedures in the techniques of supervision of student teachers. Designed to prepare teachers to become supervising teachers who provide the professional laboratory experiences during student teaching.

**Education 599. Workshop.** (One to three hours); I, II, III.

Prerequisite: Upper division or graduate classification. A workshop for specifically designated task orientation in education. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

**Education 600. Research Methods in Education.** (2-0-2); I, II, III. Selection, delineation, and statement of a research problem, techniques of bibliography building, methods of organization, recognized methods of investigation, application of statistical methods to research problems and style-standards for research writing.

**Education 601. Survey of Exceptional Children.** (3-0-3); I, II, III. The study of personality theory and psychopathology, developmental problems of exceptional children, and educational characteristics and needs of exceptional children.

**Education 602. Speech and Language Problems.** (3-0-3); I, II, III. Defines various speech and language problems and their causal factors at the elementary and secondary school level. Presents methods for the analysis, prevention, and correction of these problems.

**Education 610. Advanced Human Growth and Development.** (3-0-3); I, II, III.

Prerequisite: Psychology 154 or 155 and Education 210 or 310. The developmental processes in childhood and adolescence. Application of principles of development, research findings, and theory of human behavior.

**Education 617. Career Education for Elementary Teachers.** (3-0-3); I, III. Study of the philosophical and psychological foundations of career education; the selection and use of available resources; development of units of study and teaching techniques for their infusion into the existing public school curriculum.

**Education 618. Career Education for Secondary Teachers.** (3-0-3); I, III. The development of career education in the academic curriculum for secondary teachers. Procedures for instruction in career awareness techniques for secondary teachers and development of career units for instructional purposes will be stressed.

**Education 619. Organization and Administration of Career Education.** (3-0-3); II, III. An overview of career education with emphasis on implementation of a school-wide program; understanding of career decision theories and processes.

**Education 624. Practicum in Reading.** (3-5-4); II, III.

Prerequisite: Education 582. Supervised practice in working with students who have reading difficulties.

**Education 626. Investigations in Reading.** (2-0-2); I, II, III.

Prerequisite: Education 336 or 337, or the equivalent. A study of current literature and research in the study of reading.

**Education 627. Reading in the Elementary School.** (3-0-3); I, III.

Prerequisite: Education 336 or 337, or the equivalent. Extensive study of recent trends in materials and methods in teaching reading in the elementary school.

**Education 628. School Law.** (3-0-3); I, III. Responsibilities and liabilities of school boards and officials; Kentucky Code, legal provisions affecting school funds, school, personnel, attendance, discipline, textbooks and curriculum.

**Education 630. Curriculum Construction.** (2-0-2); I, II, III. A study of basic principles of curriculum development in the local school system.

**Education 632. Elementary School Curriculum.** (2-0-2); II, III. Implications of the wider goals of elementary education; the relation of each area of learning to the total program research studies, and promising classroom experiences.

**Education 633. Systematic Instructional Development.** (3-0-3).

Prerequisite: Admission to graduate program. A time concentrated 40 hour sequence presented in five days with eight hours of instruction per day. The course presents an instructional development system from the definition through development and evaluation stages. Nine major instructional development functions are explored in depth.

**Education 634. Secondary School Curriculum.** (3-0-3); I, II, III. A course designed to acquaint the teacher, supervisor, and administrator with the nature, development, and organization of the secondary school curriculum.

**Education 635. Curriculum Construction in Higher Education.** (3-0-3); II, III. Theoretical and practical basis for curriculum construction and evaluation of curriculum aims and practices of comprehensive two-year colleges; relationship to secondary schools and four-year colleges.

**Education 640. The Two-Year College in Higher Education.** (3-0-3); I, III. Unique role, philosophy and functions of two-year colleges in American education; patterns of organization and administration for academic, business, student personnel, public relations and development activities.

**Education 641. Academic and Administrative Problems in Higher Education.** (3-0-3); II, III. Selection, assignment, guidance, evaluation, payment, promotion and retirement of academic personnel, organization and development of curricular policies and instructional resources.

**Education 642. Student Personnel in Higher Education.** (3-0-3); I, II. Principles of organization and administration of personnel programs and services in higher education.

**Education 643. Seminar in Higher Education.** (2-0-2); II, III. Group study on issues in higher education.

**Education 645. Principles of Education Administration.** (3-0-3); II, III. Historical development of professional school administration; basic principles and changing concepts; organization and control of the American school system; functions of the administrators.

**Education 650. Basic Education for the Disadvantaged Adults.** (3-0-3); I, II. The sociological, psychological and economical problems of the disadvantaged; investigation of traditional and innovative approaches utilized in working with the disadvantaged adult.

**Education 651. Human Development in Adulthood.** (3-0-3); II.

Prerequisite: Education 554 or permission of instructor. The psychological and physiological changes in adulthood; designed to provide opportunities to apply knowledge of human development to the problems of working with adults.

**Education 652. The Community School.** (3-0-3); III. The philosophy and operation of a school to serve the needs of all people in the community. The community-wide use of school facilities and total community involvement in the educative process.

**Education 653. Planning and Evaluating the Adult Program.** (3-0-3); II.

Prerequisite: Education 554 or permission of instructor. A study of program development with special emphasis on designing and improving programs through the evaluation process.

**Education 654. Special Problems in Adult Education.** (One to three hours); I, II, III. Directed individual study of problem areas in teaching and administering adult programs.

**Education 655. Teaching the Exceptional Child.** (Two hours for each sub-section of the course); I, II, III.

Prerequisite: Education 550. A—Educable Mentally Retarded. B—Trainable Mentally Retarded. C—Emotionally Disturbed. E—Physically and Perceptually Handicapped.

Evaluation and practice in the use of materials, methods, and curricula sequences for special class children. Emphasis is placed on

adapting learning environments related to language, art, social skills, quantitative operations, health, and creative activities to meet the demands of children with special learning disorders or talents.

**Education 656. Principles of Guidance. (3-0-3); I, II, III.** History, philosophical principles, and development of the guidance movement; the place of the specialist; guidance and the teacher; present status of guidance meeting the needs of the individual school; objectives, types and scope of guidance.

**Education 657. Psycho-Social Aspects of Disability. (3-0-3); II, III.** Prerequisite: Education 566 or permission of instructor. Examines the psycho-social problems of accompanying a disability and common methods of coping with disability; the status and self-concept of the disabled person and attitudes toward disabled persons.

**Education 660. Supervision. (3-0-3); I, III.** Prerequisite: Admission to an administrative program. Nature and scope of supervision; principles governing supervisory process; planning supervisory program; facilitating teacher growth; improving curricula; using instructional materials; evaluation; and remedial programs.

**Education 661. Exceptional Child Research and Problems. (Two to six hours); I, II, III.**

Prerequisite: 550. A seminar research problems course that provides students with an opportunity to explore in depth particular problems related to learning disorders.

**Education 662. Individual Inventory Techniques. (3-0-3), II.** Prerequisite: Permission of instructor. Special training in the choice and utilization of achievement and psychological tests and inventories not requiring clinical training; sociometrics, and observational and interview techniques.

**Education 665. Program Organization and Informational Services. (3-0-3); II, III.** Organizational goals and procedures in designing a comprehensive program in information services, appraisal and counseling; relationships of the counselor with school personnel and with community members and organizations; referral procedures; legal implications for the counselor.

**Education 666. A.B.C. Techniques of Counseling. (3-0-3); I, III.** Basic philosophies, principles and procedures in counseling; participation in lab experiences; study of pertinent research.

Section A—For elementary school counselors

Section B—For secondary school counselors

Section C—For community agency counselors

**Education 667. A, B, C. Group Procedures. (3-0-3); I, II, III.** Study of theories and principles of individual reaction under stress in group situations and application in group counseling and guidance programs. Groups include the school, the family and the community.

Section A—For elementary school counselors

Section B—For secondary counselors

Section C—For community agency counselors

**Education 668. Organization of Special Classes in the School (1-3-2); II, III.**

Prerequisite: Education 550. The relation between the special class teacher and students within the matrices of the larger school community. Techniques of parental counseling and introduction of the students into the work and social aspects of the larger community.

**Education 669 A, B, C. Practicum in Guidance and Counseling. (One to three hours); I, II, III.**

Prerequisite: Ed 666 and permission of instructor. Supervised experience in guidance and counseling in groups and on an individual basis.

Section A - For elementary school counselors

Section B - For secondary school counselors

Section C - For community agency counselors

(Applications made through the Director of Professional Laboratory Experiences.)

**Education 670. Research Problems. (One to three hours); I, II, III.** Prerequisite: Education 600. An independent research study of a professional problem. Conferences with the instructor are by arrangement.

**Education 671. Seminar-Problems of the Teacher. (1-0-1); I, II, III.** Individual research problems and thesis; review of current educational research; significant problems in education especially related to the role of the teacher. Oral reports and group discussion.

**Education 672. Seminar-Problems of the Principal. (1-0-1); I, II, III.** Prerequisite: Admission to an administrative program. Independent research problems, review of current educational research and thesis. Oral reports, group discussion. Significant problems in education related to the principalship.

**Education 673. Seminar-Problems of the Supervisor. (1-0-1); I, II, III.**

Prerequisite: Admission to an administrative program. Similar to Education 671, except problems of the supervisor are considered.

**Education 674. Seminar in Guidance and Counseling. (2-0-2); I, III.**

Prerequisite: Permission of instructor. Group study and discussion of individual research or study of problems having special significance to the field of guidance and counseling.

**Education 675. Practicum in Special Education. (Three to six hours); I, II, III.** Supervised practice in working with specific groups of exceptional children in educational, clinical, or institutional settings using a holistic, multi-discipline approach to therapy and/or prescriptive teaching. (Application made through the Director of Professional Laboratory Experiences.)

**Education 676. Independent Study. (One to three hours); I, II, III.** An independent study of a professional problem in education.

**Education 677. Reading in the Content Areas. (3-0-3).**

Prerequisite: An approved course in reading. The basic reading ability and study skills needed by elementary and high school students in all types of reading materials. Emphasis is placed on special skills needed for study in science, social studies, mathematics and literature.

**Education 678. Internship. (One to six hours).** Supervised experience in activities appropriate to area of specialization.

**Education 679. Advanced Practicum. (Two to six hours); I, II, III.**

Prerequisite: One year's experience as a qualified counselor; permission of instructor. Supervised practice for counselors desiring a different experience of counseling than that secured in previous training or present work.

**Education 680. History and Philosophy of Education. (3-0-3); I, II, III.** Beginnings of the American system of education; survey of theories of education, factors and forces changing American education philosophies of learning applied to contemporary educational problems.

**Education 681. Seminar-Methods for Secondary Teachers. (1-0-1); I, II, III.** Individual research into modern and innovative teaching techniques, review of current teaching methods; study of significant problems related to innovative approaches concerning the secondary school teacher. Written and oral reports and group discussion.

**Education 683. The American Secondary School. (3-0-3); I, II, III.** Traces the development of the American secondary school, identifying historical and philosophical influences upon this development; related current practices to their historical bases; examines present-day trends and innovations.

**Education 684. School Finance. (3-0-3); II.** Sources of school support; state, local, federal; apportionment of state funds; the local district and finance; and administration control of school funds—budgeting and accounting.

**Education 685. Research Problems of the School Leader. (One to three hours); I, II.**

Prerequisite: Education 600 or equivalent experience. Intensive and comprehensive investigation of problems in educational administration, involving collection and analysis of original data.

**Education 686. The School Plant. (2-0-2); III.** Problems of school plants and auxiliary facilities; evaluation of existing facilities, planning and financing building programs and selecting equipment.

**Education 688. Seminar in Adult Education. (1-0-1); on demand.** A series of presentations by graduate students, visiting lecturers, and members of the graduate faculty on problems and issues confronting adult educators.

**Education 691. The School and the Public. (2-0-2); II.** School-community relations; changing concept of, influence of social and economic factors and role of public relations in school-community relations.

**Education 692. Administration of School Personnel. (3-0-3); I, III.** Dimension and direction of school personnel work; faculty, staff, special service, pupil, custodial, and transportation.

**Education 695. The Elementary School Principal. (2-0-2); I, III.** Prerequisite: Admission to an administrative program. Organization and administration of elementary schools; supervision of pupil; professional and non-professional activities; community relations; scheduling, and special services.

**Education 696. The Secondary School Principal. (2-0-2); II, III.** Prerequisite: Admission to an administrative program. Organization and administration of secondary schools; supervision of personnel; co-curricular activities; guidance programs; in-service development; schedule making, and public relations.



**Education 698. Pupil Personnel Accounting and Records Management. (3-0-3); III.**

Prerequisite: Admission to program for director of pupil personnel. Analysis of various methods of pupil personnel accounting and records management systems including computer applications. Responsibilities of school and non-school personnel and agencies. Influences of socio-economic factors and school attendance.

**Education 699. Thesis. (Two to six hours); I, II, III.**

**Education 700-799. Independent Study. (One to three hours); I, II, III.** Students desiring in-depth study in certain areas of education may register for independent study in any education course completed for graduate credit with the exception of ED 600-Research Methods, other research courses, or seminars and workshops. Approval of the student's advisor, the head of the department under which the course is offered, and the professor who will supervise the study is required. Independent study courses are prefixed by the number "7" followed by the two numbers that regularly identify the course, e.g., advanced independent study in curriculum construction (Ed 630) would be designated Ed 730. It should be noted that independent study courses are not offered for students to earn off-campus credit but are intended to provide students desiring in-depth study and proficiency in specific areas to do advanced study not offered through regular courses. Independent study courses will not be approved unless a faculty member, competent in the area and with sufficient time to supervise the study, is available.

## Psychology

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

**Psychology 521. Physiological Psychology. (3-0-3); I.**

Prerequisite: Psychology 154 or 155. Physiological mechanisms of normal human and animal behavior. Anatomy and physiology relevant to the study of sensory and motor functions, emotion, motivation and learning.

**Psychology 554. Social Psychology. (3-0-3); I.**

Prerequisite: Psychology 154 or 155. The scientific study of the individual's relationship with his social environment. Emphasis is placed on attitudes, personality, prejudice, discrimination, dominance, role theory, social learning, social and interpersonal perception, and social movements.

**Psychology 555. Environmental Psychology. (3-0-3); II.**

Prerequisite: Psychology 154 or 155. The study of the ways in which social and physical environments affect human behavior. Direct effects of physical settings on behaviors, individual utilization of various physical settings, analysis of personnel space utilization, and other nonverbal behaviors are examined.

**Psychology 556. Introduction to Clinical Psychology. (3-0-3); I.**

Prerequisite: Psychology 154 or 155 and Ed 581 or Math 353. A survey of basic theoretical issues and research in the areas of assessment and psychotherapy, ethical, legal, and other professional problems in clinical psychology. Emphasis on clinical aspects of the school psychologist's functions in working with school age children.

**Psychology 558. Psychological Testing. (3-0-3); I.**

Prerequisite: Psychology 154 or 155 and Ed 581 or Math 353. A general introduction to psychological testing. Topics covered include interest inventories, measurement and evaluation of personality, proficiency, performance, attitudes, temperament, aptitude, capacity, and intelligence through use of group assessment instruments used in psychological research, guidance, education, social research, business and industry.

**Psychology 559. Behavior Modification. (2-2-3); II, III.**

Prerequisite: Psychology 154 or 155. Operant learning principles that govern human behavior will be applied to the modification of behavior in the school setting. The course is designed to give experience in dealing with behavioral problems in the classroom and other settings. (Laboratory experiences are an integral part of this course.)

**Psychology 575. Selected Topics. (2-2-3).**

Prerequisite: Consent of instructor. Various methods courses in instrumentation and data reduction, innovation and research design, directed study of special problems in psychology, various application courses, and others.

**Psychology 580. Measurement Principles and Techniques. (3-0-3); I, II, III, (Same as Education 580.)**

**Psychology 581. Experimental Psychology I. (2-2-3); I.**

Prerequisite: Psychology 154 or 155 and Ed 581 or Math 353. The study of experimental methods and design related to sensation, perception, discrimination, learning, forgetting, and retention. (Laboratory experiences are an integral part of this course.)

**Psychology 582. Experimental Psychology II. (2-2-3); II.**

Prerequisite: Psychology 581 or consent of instructor. A continuation of Psychology 581. This course includes theory, original psychological experimentation by the student, laboratory method, and data analysis. (Laboratory experiences are an integral part of this course.)

**Psychology 583. Sensory Psychology. (3-0-3); I.**

Prerequisite: Psychology 154 or 155 and Ed 581 or Math 353. The study of the biological and the physical bases of sensory experience. Presentation of a psychophysical data and basic techniques for scaling of sensation. Coverage of all sensory systems with primary emphasis on vision and audition.

**Psychology 584. Perception. (2-2-3); III.** An examination of the role of perception as an information extraction process. Includes the constancies, space perception, illusions, and the influences of learning and experience on the development of perception. (Laboratory experiences are an integral part of this course.)

**Psychology 585. Systems and Theories. (3-0-3); I.**

Prerequisite: Psychology 154 or 155 and Ed 581 or Math 353. An intensive study of the more influential historical systems of psychology including structuralism, functionalism, associationism, behaviorism, Gestalt psychology and psychoanalysis, and a treatment of contemporary developments.

**Psychology 586. Motivation. (2-2-3); II.**

Prerequisite: Psychology 154 or 155. A consideration of the basis of human and animal motivation in relation to other psychological processes. (Laboratory experiences are an integral part of this course.)

**Psychology 589. Psychology of Learning. (3-0-3); II, III.**

Prerequisite: Psychology 154 or 155. The fundamental principles of learning, including acquisition, retention, forgetting, problem solving, and symbol formation; experimental studies; the application of principles to practical problems in habit formation, development of skills, remembering and logical thinking.

**Psychology 590. Abnormal Psychology. (3-0-3); II.**

Prerequisite: Psychology 154 or 155. The psychology, behavior, and treatment of individuals having superior or inferior mental abilities; perceptual handicaps, orthopedic problems, and behavioral disorders, and the general methods of facilitating growth, therapy, and research in this area.

**Psychology 600. Seminar. (One to nine hours).**

Prerequisite: Permission of major professor in psychology. May be repeated for a maximum of nine hours.

**Psychology 609. Advanced Educational Psychology. (3-0-3); II, III.**

Advanced and applied study of the nature of learning, evaluation of learning, outcomes and the characteristics and development of students and teaching methods.

**Psychology 610. Advanced Human Growth and Development. (3-0-3); I, II, III.**

Prerequisite: Psychology 154 or 155 and Ed 210 or 310. A study of the developmental processes in childhood and adolescence. Application of principles of development, research findings, and theory to human behavior.

**Psychology 612. Aspiration and Ability Evaluation. (2-2-3); III.**

Prerequisite: Psychology 154 or 155 and permission of instructor. Administration, interpretation and use of tests in individual and group guidance; educational evaluation of student interests and abilities. Establishing evaluation programs in the schools to measure achievement, attitudes, interests, and pupil abilities.

**Psychology 621. Advanced Physiological Psychology. (2-2-3); II.**

Prerequisite: Psychology 154 or 155 and Psychology 521. Interaction of physiology and behavior including the study of the peripheral and central nervous system as they relate to motor coordination and reflex processes.

**Psychology 633. Personality Theory. (3-0-3); II.**

Prerequisite: Psychology 154 or 155 and permission of instructor. An examination of theories of personality. The relation of current theories to psychological research will be examined.

**Psychology 634. Learning Theory. (3-0-3); I.**

Prerequisite: Psychology 154 or 155. An examination of theories of learning and the relationship of these theories to psychological research.

**Psychology 657. Mental Measurements I. (1-5-3); I.**

Prerequisite: Psychology 558 and admission to graduate study in the Department of Psychology. Types of psychometric and objective meth-

ods for the measurement of mental ability and behavior. Special emphasis on training students to evaluate ability and transmit data on learning and behavior problems of clients to other professionals and school personnel.

**Psychology 658. Mental Measurements II. (1-5-3); II.**

Prerequisite: Psychology 657. A continuation of Psychology 657. Increased emphasis on evaluation procedures.

**Psychology 661. Introduction to Projective Techniques. (1-5-3); I.**

Prerequisite: Psychology 558. Projective tests as instruments for collecting thought contents, attitudes, and feelings; their use in clinical diagnosis and therapy. Practice in administering, scoring, and interpretation.

**Psychology 662. Advanced Projective Techniques. (1-5-3); II.**

Prerequisite: Psychology 661. A continuation of Psychology 661.

**Psychology 664. Construction of Testing Instruments. (1-4-3); I.**

Prerequisite: Psychology 558. Principles involved in construction of different types of standardized tests, followed by the construction and item analysis of two original tests by the student.

**Psychology 670. Research Problems in Psychology. (One to three hours); I, II, III.**

Prerequisite: Permission of instructor. An independent research study of a professional problem in psychology.

**Psychology 672. Internship in School-Clinical Psychology. (Six to twelve hours); I, II, III.** Permission of instructor required. Placement of school psychology trainees in school and clinical settings for internship under qualified supervision. Open only to advanced graduate students in the school psychologist program. Six hours minimum credit required.

**Psychology 673. Clinical Methods. (1-5-3); I, II.** Permission of instructor required. Techniques and theories of the psychotherapeutic and psychodiagnostic processes. Intensive use of projective and objective instruments with pre-school and school age populations. Open only to advanced students in the school psychologist program.

**Psychology 676. Independent Study. (One to six hours); I, II.** Independent study in specific areas of psychology.

**Psychology 678. Internship in School-Clinical Psychology.**

**Psychology 690. Psychological Research. (One to nine hours); I, II, III.** Permission of instructor required. A seminar research design and problems course to explore in depth specific areas of research related to the student's principal professional objective.

**Psychology 699. Thesis. (One to six hours.)** Permission of instructor required.

## Health, Physical Education and Recreation

### Health

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

**Health 501. Organization and Administration of Driver and Traffic Education. (3-0-3); I, II.**

Prerequisite: Health/PE 310 and Health/PE 410. Organization and administrative aspects of driver and traffic education. (Same as Physical Education 501.)

**Health 503. The Administration and Supervision of Safety Education. (3-0-3); I, II.**

Prerequisite: Health 203. Responsibilities, activities and problems of administering safety programs. (Same as Physical Education 503.)

**Health 504. Methods of Teaching Secondary Driver and Traffic Education. (3-0-3); I, II.**

Prerequisite: Health/PE 310. Designed to provide an understanding of the specifics of classroom instruction in the various subject matter fields. Selection of presentation and evaluation techniques based on recognized course objectives. (Same as Physical Education 504.)

**Health 512. Advanced Driver Education. (3-0-3); I, II, III.**

Prerequisite: Physical Education 310 and 410. Teaching the psychophysical problems of human behavior as it relates to safety and driver education. (Same as Physical Education 512.)

**Health 518. Use and Abuse of Drugs. (3-0-3); I, II, III.** Designed to survey the field of psychoactive drugs with particular emphasis on the behavioral effects of these agents.

**Health 519. Emergency Medical Techniques. (5-1-6); I, II.**

Prerequisite: Health 203. Development of skills in recognition of symptoms of illnesses and injuries and proper procedures of emergency care. (Laboratory experiences are an integral part of this course.)

**Health 532. Physiology of Exercise. (2-0-2); I, II, III.**

Prerequisite: Health 402 or concurrently or permission of instructor. Study of the response of the body to muscular activity; nature of contraction, work and efficiency, cardiorespiratory adjustment, training and fitness. (Same as Physical Education 532.)

**Health 599. Workshop. (One to three hours); I, II, III.** A workshop for specifically designated task orientation in health. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

**Health 601. School Health Services. (2-0-2); I, alt. III.**

Prerequisite: Twelve hours of undergraduate credit in health. Seminar approach to the total program of health in the school: education for health, administration, ecology, management, improvement.

**Health 612. Public Health Services. (2-0-2); II, alt. III.**

Prerequisite: Twelve hours of undergraduate credit in health. Seminar approach to the total program of public health: history and philosophy, administration, service, future.

**Health 614. Principles of Epidemiology. (2-2-3); I.**

Prerequisite: Health 612. Ecology and causes of diseases; factors influencing occurrence of diseases; critical incidents in epidemiology, epidemiologic investigations.

**Health 670. Research Problems. (One to three hours); I, II, III.**

Prerequisite: Twelve hours of undergraduate credit in health and permission of instructor. Intensive investigation of a problem in health; problem must be approved prior to enrollment. Conferences with instructor as necessary.

**Health 676. Independent Study. (One to three hours); I, II, III.** Individual investigation into special areas of health.

**Health 678. Internship. (One to six hours); on demand.** Supervised experience in activities appropriate to area of specialization.

**Health 699. Thesis. (One to six hours); I, II, III.**

Prerequisite: Approval of thesis topic by thesis committee. Maximum of six hours allowed.

### Physical Education

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

**Physical Education 501. Organization and Administration of Driver and Traffic Education. (3-0-3); I, II.**

Prerequisite: Health/PE 310 and Health/PE 410. (Same as Health 501.)

**Physical Education 502. Administration of School Athletic Programs. (3-0-3); I, II.** Administrative principles and procedures applicable to the school athletic program, with special emphasis at the secondary level.

**Physical Education 503. The Administration and Supervision of Safety Education. (3-0-3); I, II.**

Prerequisite: Health 203. (Same as Health 503.)

**Physical Education 504. Methods of Teaching Secondary Driver and Traffic Education. (3-0-3); I, II.**

Prerequisite: Health/PE 310. (Same as Health 504.)

**Physical Education 512. Advanced Driver Education. (3-0-3); I, II, III.**

Prerequisite: Physical Education 310 and 410. (Same as Health 512.)

**Physical Education 514. Training Room Modalities. (1-1-2); I, II.**

Prerequisites: Physical Education 203, 302. Emphasis on participation and use of machinery by the students involved with training room procedures.

**Physical Education 515. Medical Aspects of Athletic Training. (1-1-2); I, II.**

Prerequisites: Physical Education 203, 302. Study of relationships existing between training programs and medical society, including case history studies.

**Physical Education 516. Training Room Practice. (0-3-3); I, II.**

Prerequisites: Physical Education 203, 302. Actual work-participation situation involving the student in training room work.

**Physical Education 517. Diagnostic Techniques of Athletic Injuries. (1-1-2); I, II.**

Prerequisites: Physical Education 203, 302. Diagnosis of athletic injuries.

**Physical Education 520. Coaching Women's Athletics. (2-0-2); I, II.** Emphasis will be on the coaching techniques of women's sports.

**Physical Education 532. Physiology of Exercise. (2-0-2); I, II, III.**

Prerequisite: Physical Education 402, or concurrently, or permission of instructor. (Same as Health 532.)



**Physical Education 575. Adapted Physical Education.** (2-0-2); I, II. The nature and extent of the problem of exceptional students and the means whereby these students can be aided through physical education.

**Physical Education 576. Special Problems in Physical Education.** (One to three hours); I, II.

Prerequisite: Upper division or graduate classification. This course is designed to meet the special needs of individual students. An intensive study of approved specific problems from the area of health, physical education and recreation, under the direction of the instructor.

**Physical Education 599. Workshop.** (One to three hours); I, II, III. A workshop for specifically designated task orientation in physical education. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

**Physical Education 600. Current Problems in Physical Education.** (2-0-2); I, III. The purpose of this course is to identify, evaluate and propose solutions for problems confronted by individuals and groups who are concerned with health, physical education, and recreation.

**Physical Education 601. Tests and Measurements in Health, Physical Education and Recreation.** (3-0-3); I, III. Advanced principles of evaluation in health, physical education and recreation.

**Physical Education 603. Theory and Philosophy of Dance.** (2-0-2); I. The relationship of aesthetics and dance in education and as a performing art.

**Physical Education 604. History and Principles of Physical Education.** (3-0-3); I. Development of physical education; analysis of its aims, objectives and principles.

**Physical Education 605. Planning Facilities for Physical Education.** (2-0-2); II. A study of school facilities, equipment, site selection, building plans and equipment placement in programs of health, physical education and recreation.

**Physical Education 606. Physiological Effects of Motor Activity.** (3-0-3); I, II, III. Physiological changes resulting from motor activity. Familiarization with, and use of, the various instruments and devices for measuring physiological changes in the body.

**Physical Education 608. Analysis of Motor Skills.** (3-0-3); I. Application of the principles of physics to the various skills in motor activities.

**Physical Education 610. Readings in Health, Physical Education, and Recreation.** (2-0-2); I, III. Extensive guided reading to further acquaint the student with the total area of health, physical education, and recreation.

**Physical Education 612. Curriculum Construction in Elementary Physical Education.** (2-0-2); I, II. An evaluation of the curriculum of the elementary school in relation to the needs of the pupil in the area of health, physical education and recreation; curricular planning to meet these needs.

**Physical Education 615. Physical Education for the Exceptional Child.** (2-0-2); II, III. Diagnosing the abnormal child in relation to his individual needs and capabilities in the areas of physical education and recreation in the rehabilitation or development of the abnormal child.

**Physical Education 616. Foundations and Trends in Health, Physical Education and Recreation.** (2-0-2); I, III. Physiological, psychological, sociological and scientific foundations of health, physical education and recreation. Current trends in health, physical education and recreation.

**Physical Education 625. Adaptions of Muscular Activity.** (2-2-2); II, III.

Prerequisite: Physical Education 575. Advanced study of physical education for the exceptional student. Organization and administration of adapted physical education programs; program planning, principles and techniques, evaluation.

**Physical Education 670. Research Problems in Recreation.** (One to three hours.) Arranged to meet the needs of the student.

**Physical Education 676. Independent Study.** (One to three hours); I, II, III. Individual investigation into special areas of physical education.

**Physical Education 678. Internship.** (One to six hours.) Supervised experience in activities appropriate to area of specialization.

**Physical Education 699. Thesis.** (One to six hours); I, II, III. Prerequisite: Approval of thesis topic by thesis committee. Maximum of six hours allowed.

## Recreation

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

**Recreation 576. Special Problems in Recreation.** (One to three hours); I, II.

Prerequisite: Upper division or graduate classification. Designed to meet the special needs of individual students. An intensive study of approved specific problems from the area of recreation under the direction of the instructor.

**Recreation 580. Outdoor Interpretation.** (2-2-3); II, III. Procedures for conducting and supervising naturalist and outdoor interpretive programs.

**Recreation 599. Workshop.** (One to three hours); I, II, III. A workshop for specifically designated task orientation in recreation. May be repeated in additional subject areas. A maximum of six semester hours may be earned under this course number.

**Recreation 630. Programs in Recreation.** (2-0-2); II, III. A study of the different media through which recreation is presented. Sponsoring groups, personnel, administration, organization, facilities, finances, maintenance, equipment, supplies and promotion.

**Recreation 635. Organization and Administration of Intramural Activities.** (2-0-2); II, III. The history and philosophy of intramural activities; the relationship of intramural activities to education, physical education, and recreation.

**Recreation 640. Recreation in the Senior Years.** (2-0-2); I, III. A study of the needs of older people with the implications for recreation programs and activities, in addition to the practical application of these ideas and programs.

**Recreation 670. Research Problems in Recreation.** (One to three hours); I, II, III.

Prerequisite: Education 600. Intensive investigation of a problem in recreation. Problem must be approved prior to enrollment. Conferences arranged with instructor as necessary.

**Recreation 699. Thesis.** (One to six hours); I, II, III.

Prerequisite: Approval of thesis topic by thesis committee. Maximum of six hours allowed.

## Library Science Media

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

**Library Science Media 500. Public Libraries.** (3-0-3); on demand. An introduction and analysis of the public library; studies of the public library objectives, services provided, and techniques employed to achieve the objectives. Attention is given to Kentucky public library trends, management, services, and special problems.

**Library Science Media 510. Public Library Practice.** (3 hours); on demand.

Prerequisite: LSM 500. Designed to provide the prospective public librarian with the opportunity to apply and test his or her knowledge, understandings and skills with the end result a balance in the professional, technical and clerical aspects of the public library. The prospective public librarian develops, through actual experiences and under competent supervision, an understanding and appreciation of the total program and the public library's relationship to it along with an understanding of the community.

**Library Science Media 511. Cataloging and Classification.** (3-0-3); I, II, III.

Prerequisite: Skill in typing. The central purpose is to develop the ability to organize books and materials for access in a standard form according to the demands and needs of the individual library. Dewey Decimal Classification, Sears subject headings, and principles of simplified cataloging of books and non-book materials are the major content areas presented in the course.

**Library Science Media 521. Literature and Materials for Young People.** (3-0-3); II, III. An investigation of reading interests and needs of young people grades 7 through 12 with emphasis on criteria for selection and evaluation of materials, both technical and literary qualities, and methods for the utilization of such materials.

**Library Science Media 522. Literature and Materials for Adults.** (3-0-3); II, III. An investigation of adult reading interests and the library's role in adult education with consideration of services offered to the culturally disadvantaged and the physically handicapped. Students are given the opportunity to read and discuss the "popular book" and practice in the writing of book reviews.

**Library Science Media 523. Reference and Bibliography. (3-0-3); I, III.** A thorough investigation of the most significant basic titles in practical application of procedures in modern school library. Reading guidance, story telling, book talks, and organization of teaching materials are stressed. (Application made through the Director of Professional Laboratory Experiences.)

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

**Library Science Media 575. School Library Practice. (Three to four hours); I, II, III.**

Prerequisite: All other library science courses required for certification except those taken at the same time as practice work. Practical application of procedures in modern school library. Reading guidance, story telling, book talks, and organization of teaching materials are stressed. (Application made through the Director of Professional Laboratory Experiences.)

**Library Science Media 577. School Media Library Practicum II. (0-10-4); I, II.**

Prerequisites: Education 209, 210 and admission to the Teacher Education Program. A continuation and expansion of Library Science 477 and is taken concurrently with that course in all but unusual cases. The two courses comprise the practicum portion of the professional semester for students in the school media librarian's certification program. (Application made through the Director of Professional Laboratory Experiences.)

**Library Science Media 582. Audiovisual Aids in Instruction. (3-0-3); I, III.**

Prerequisite: Upper division standing. Overview of the instructional

media in use in up-to-date schools. Lectures, demonstrations and practical applications of widely available audiovisual equipment, materials, and methods are used.

**Library Science Media 583. Producing Audiovisual Materials. (3-0-3); II.**

Prerequisite: LSM 382 or equivalent. Production of various types of audiovisual learning materials with emphasis upon the design and production of overhead transparencies, photographic copying, extreme closeup photography, and "Super 8mm" filming as applicable to school programs and audio technology.

**Library Science Media 599. Library Media Workshop. (One to six hours); on demand.** Subject matter and length of time vary; prerequisites determined for each. May be repeated but not to exceed a total of six hours.

**Library Science Media 621. Research in Media for the Adolescent. (3-0-3); II, III.**

Prerequisite: LSM 521, Books and Materials for Young People, or comparable course. Open to students prepared to carry on semi-independent study in media for adolescents with an in-depth study in one or more areas.

**Library Science Media 627. Research in Children's Literature. (3-0-3); II, III.**

Prerequisite: A course in literature for children. Open to students prepared to carry on semi-independent study in literature for children and adolescents. Reading of books for children and adolescents, in-depth study in one or more areas.

**Library Science Media 670. Research Problems. (3-0-3); I, II, III.**

Prerequisite: Education 600; school library experience; and courses necessary for provisional library certificate. Investigation of a problem in library services utilizing basic methods of research; methodology to include collection and analysis of original data; prospects and written report.

## School of HUMANITIES

Department of Art  
Department of Communications  
Department of Languages and  
Literature  
Department of Music  
Department of Philosophy

### Degrees:

Master of Arts in Art  
Master of Arts in Communications  
Master of Arts in English  
Master of Music

The Master of Arts in Art degree is available in two options: art education or studio art.

The Master of Arts in English provides for varying degrees of emphasis in American literature, English literature, and linguistics.

The Master of Arts in Communications provides for an emphasis in the fields of journalism, radio-television, speech, and theatre, or a dual emphasis in any two of these fields.

The Master of Music degree is offered with major fields of study in performance and music education.

### Fine Arts

#### Course Offerings

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

**Fine Arts 588. Opera Workshop. (0-2-1); I, II.** An introduction to the techniques of musical theater with emphasis placed on the integration of music and action-dramatic study of operatic roles.

**Fine Arts 660. Comparative Arts. (3-0-3); on demand.** A study of music, literature, and the visual arts in relation to their social, religious, and historical backgrounds.

### Art

#### Requirements for Unconditional Admission to Graduate Study in Art

1. General admission to graduate study.
2. Completion of an undergraduate major or its equivalent in art.
3. A minimum standing of 3.0 at the undergraduate level in art.
4. Submission of an acceptable portfolio to the Department of Art, indicating a competency in art on the part of the applicant.

#### Requirements for the Degree

1. A minimum of 30 semester hours is required for the degree.
2. Those applicants who elect the Master of Arts Degree in Art with an emphasis in art education may choose to take eight hours' credit in the School of Education.
3. Those candidates who elect a studio emphasis for the degree must take a minimum of 25 hours in studio art.
4. All candidates for the degree of Master of Arts in Art must complete six hours in art history, the graduate seminar in art, and six hours of drawing at the graduate level.

5. Those candidates electing the art education emphasis will be required to complete an approved thesis or monograph.
6. Candidates electing the emphasis in studio art will be required to have a one-man exhibit of work completed at the graduate level in studio art.
7. All candidates will be required to present themselves to the art faculty for a final oral examination where they will defend their theses or their exhibitions.

#### Course Offerings

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

**Art 502. Advanced Composition and Drawing. (2-2-2); I, II, III.**

Prerequisite: Permission of the department. Advanced studio work in drawing with an emphasis on composition.

**Art 513. Oil Painting III. (2-2-2); I, II, III.**

Prerequisites: Art 213 and 313. Experiences leading toward individual achievements in styles and techniques.

**Art 516. Water Color III. (2-2-2); I, II, III.**

Prerequisites: Art 216 and 316. Experiences leading toward individual interpretation.

**Art 521. Art Workshop. (3-3-3); (taught on demand during intersession).** Participation in art activities according to individual needs.

**Art 537. Jewelry and Metal Work. (2-2-2); I, II, III.**

Prerequisite: Permission of the department. Advanced techniques in the design and production of jewelry and household objects in precious metals.

**Art 545. Independent Studio. (Two to four hours); I, II, III.**

Prerequisite: Permission of the department required. Independent studio for advanced students in studio art.

**Art 551. Printmaking III. (2-2-2); I, II, III.**

Prerequisite: Art 351. Advanced studio in printmaking. Emphasis is given to the processes of etching and engraving.

**Art 555. Advanced Art Problems. (2-2-2); I, II, III.**

Prerequisite: Permission of the department required. A studio course involving research in an art area of the student's choice.

**Art 565. Arts of the United States. (3-0-3); I, II.** An in-depth study of the social, political, and cultural movements which affected the course of American artistic development.

**Art 571. Seminar. (1-0-1); I, II.**

Prerequisite: Permission of the department required.

**Art 583. Photographic Design III. (2-2-2); I, II.**

Prerequisites: Art 383 and permission of the department. Individual problems in photographic design.

**Art 594. Sculpture III. (2-2-2); I, II, III.**

Prerequisites: Art 294 and 394. Advanced problems in sculpture involving a combination of materials and their uniqueness as media.

**Art 603. Drawing. (3-3-3); I, II, III.**

Prerequisites: Art 304 and permission of the department. An advanced approach to drawing with extensive use of various materials and techniques.

**Art 604. Advanced Figure Drawing. (3-3-3); I, II, III.**

Prerequisite: Permission of the department. A course designed to acquaint the student with advanced problems in figure drawing and anatomy.

**Art 605. Figure Painting. (2-2-2); I, II, III.**

Prerequisites: Art 304 and permission of the department. Use of oil paint on large canvases. Both male and female models used.

**Art 606. Portrait Painting. (3-3-3); I, II, III.**

Prerequisite: Permission of the department. A study of the techniques involved in painting the portrait. Emphasis is given to anatomy, color, and techniques of developing a proficiency in rendering the human figure.

**Art 613. Painting. (2-2-2); I, II, III.**

Prerequisites: Art 213, 313, and permission of the department. For art majors and area students who wish to do graduate work on techniques in art.

**Art 616. Watercolor. (2-2-2); I, II, III.**

Prerequisite: Art 316. Research and experimentation in the techniques of various types of water color and water color materials.



**Art 627. Reading in Art Education. (2-0-2); I, II, III.**

Prerequisite: Permission of the department. Subjects related to current research in art education will be given primary consideration. Other related educational research will be given secondary consideration.

**Art 651. Printmaking IV. (3-3-3); I, II, III.**

Prerequisite: Permission of the department. Special problems in various printmaking techniques with individual problems designed to meet the specific needs of each graduate printmaking student.

**Art 655. Advanced Ceramics. (3-3-3); I, II, III.**

Prerequisite: Permission of the department. Advanced study of ceramic glazes, kiln firing procedures, kiln construction and experimental treatment of clay bodies.

**Art 670. Directed Graduate Studies. (3-3-3); I, II, III.**

Prerequisite: Permission of the department. A course designed to allow for independent directed projects tailored to fit the individual needs of each graduate student.

**Art 671. Seminar. (2-0-2); I, II, III.**

Prerequisite: Permission of the department. A course designed to familiarize students with various methods of art criticism. A discussion course in which each student is required to participate.

**Art 676. Individual Problems. (3-3-3); I, II, III.**

Prerequisite: Permission of the department. Investigation of special problems which are not included as a regular part of the curriculum.

**Art 680. History and Philosophy of Art Education in the U.S. (3-0-3); I, II, III.**

Prerequisite: Permission of the department. A survey of the major philosophical movements and how they relate to the changing emphasis given to art education in America.

**Art 692. Sculpture: Metal Casting. (3-3-3); I, II, III.**

Prerequisite: Permission of the department. Exploration of techniques in metal casting. A study of foundry construction, operation, and maintenance.

**Art 694. Sculpture. (3-3-3); I, II, III.**

Prerequisite: Art 594, or permission of the department. An advanced approach to sculpture with extensive use of various materials and techniques.

**Art 699. Thesis. (One to six hours); I, II, III.**

Prerequisite: Permission of the department.

## Communications

### Requirements for Admission to Graduate Study in Communications

1. General admission to graduate study.
2. Completion of an undergraduate major or minor in a program in communications.
3. A minimum standing of 3.0 on all undergraduate communications courses above the freshman level.

### Requirements for the Degree

1. The student must meet all requirements of general nature prescribed by the University for the master's degree.
2. A minimum of 30 semester hours is required for the degree.
3. Each candidate will be required to pass a comprehensive examination (oral and/or written) in his field of study during his final term.
4. If the option selected requires a thesis, it may take the form of either a creative or research thesis. A creative thesis may be an original work such as a script, production, or design project related to the area of interest.
5. Students may elect any one of the four options presented below in the fields of journalism, radio-television, speech, or theatre. The various options, with the hour requirements for each, are as follows:

#### PLAN A Single Emphasis with Thesis

	Sem. Hrs.
Techniques & Areas of Research.....	3
Area of Specialization.....	12

Electives.....	9*
Thesis.....	6
Total	30

#### PLAN B Dual Emphasis with Thesis

	Sem. Hrs.
Techniques & Areas of Research.....	3
Areas of Specialization.....	21
Electives.....	0
Thesis.....	6
Total	30

#### PLAN C Single Emphasis without Thesis

	Sem. Hrs.
Techniques & Areas of Research.....	3
Area of Specialization.....	18
Electives.....	9*
Total	30

#### PLAN D Dual Emphasis without Thesis

	Sem. Hrs.
Techniques & Areas of Research.....	3
Areas of Specialization.....	24
Electives.....	3
Total	30

\* Three of the nine hours must be in communications.

## Communications

### Course Offerings

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

**Communications 600. Research Methods in Communications. (3-0-3); I, II, III.** Methods of research in areas of communications, including fundamentals of research design, data collection and analysis, and reporting findings of communications research.

**Communications 601. Independent Research. (One to three hours.)** Original research by the student on some particular problem related to his field of study. The proposal must be approved by the faculty member designated.

**Communications 602. Independent Research. (One to three hours.)** Original research by the student on some particular problem related to his field of study. The proposal must be approved by the faculty member designated.

**Communications 647. Internship. (One to three hours); I, II, III.** Competency-based practical experience aimed at increasing the proficiency of the student in the specified positions to which he is assigned.

**Communications 699. Thesis. (One to six hours.)**

### Journalism

**Journalism 504. School Publications. (3-0-3); III.** Advisement of students in the production of school newspapers, yearbooks, and magazines; includes a complete review of journalism principles. (Scheduled concurrently with Journ. 599—Yearbook Workshop.)

**Journalism 505. Law and Ethics of the Press. (3-0-3); II.** Prerequisite: Six hours of advanced journalism credit. An examination of law as it affects publications.

**Journalism 558. Public Broadcasting. (3-0-3); II.** Prerequisite: Junior standing and consent of the faculty. (See Radio-TV 558.)

**Journalism 565. Public Opinion and News Media. (3-0-3); I.** A study of the cultural, social and psychological nature of public opinion and its influence on the press, television, radio, and film; the nature of propaganda in advertising.

**Journalism 591. Technical Writing I. (3-0-3); I, II, III.** (See English 591.)

**Journalism 592. Technical Writing II. (3-0-3); I, II, III.** (See English 592.)

**Journalism 599. Yearbook Workshop. (1-0-1); III.** A workshop on planning, staffing, financing and producing a high school yearbook.



**Journalism 601. Interpretative Reporting. (3-0-3).**

Prerequisite: Six hours (200 or above) advanced credit in journalism, including one basic news writing course. Writing in-depth analysis of current events by use of investigative research.

**Journalism 603. Seminar. (3-0-3).**

Prerequisite: Completion of a major or minor in journalism. Exploring problems of contemporary journalism, including directed research project and forum discussions.

**Journalism 630. History of U.S. Newspapers. (3-0-3).** Study of U.S. newspapers, editors, and publishers, based on a select list of biographical publications.

**Journalism 659. Law, Ethics and Broadcasting. (3-0-3); I.** (See Radio-TV 659.)

**Journalism 660. Reviews and Criticism. (3-0-3).** Evaluating and writing critical review of drama, literature, art and music for the mass media.

**Radio-Television****Radio-TV 558. Public Broadcasting. (3-0-3); II.**

Prerequisite: Junior standing and consent of the faculty. A study of the development of public broadcasting from both theoretical and operational standpoints.

**Radio-TV 583. Photographic Design III. (2-2-2); I, II.**

Prerequisite: Radio-TV 383. Individual problems in photographic design.

**Radio-TV 603. Seminar. (3-0-3).**

Prerequisite: Graduate standing. Individual research of pertinent technical and professional literature in the radio-television industry shared in seminar discussion.

**Radio-TV 650. Problems in Contemporary Broadcasting. (3-0-3).**

Prerequisite: Graduate standing or consent of instructor.

**Radio-TV 651. History of Broadcasting. (3-0-3).**

Prerequisite: Graduate standing or consent of instructor. A historical study of radio-television as a communication service and its development in America.

**Radio-TV 654. Television Production Arts. (2-2-3); I.**

Prerequisite: Radio-TV 340. Advanced course in television production to give students opportunity for planning, developing and directing programs. Skills will be learned under broadcast conditions.

**Radio-TV 659. Law, Ethics, and Broadcasting. (3-0-3); I.** An in-depth study of the legal and ethical aspects of broadcasting through precedent and current cases before the Federal Communications Commission and courts.

**Speech**

**Speech 510. Advanced Public Speaking. (3-0-3); I, II.** Preparation and delivery of longer and more complex speeches.

**Speech 527. American Public Address I. (3-0-3).** Speeches, speakers and movements in America from the colonial period through the Civil War era.

**Speech 528. American Public Address II. (3-0-3).** Speeches, speakers and movements from Reconstruction through the New Deal.

**Speech 530. Contemporary Public Address. (3-0-3).** Major speeches, speakers and movements from the 1930's to the present.

**Speech 570. Parliamentary Procedure. (2-0-2); II.** Theory and application of procedures used by profit and non-profit organizations.

**Speech 571. Interviewing for Employment (1-0-1); II.** Theory and practice of interviewing techniques for prospective employees.

**Speech 583. Advanced Group Discussion and Leadership. (3-0-3).** Prerequisite: Speech 383 or permission of instructor. Current theory and related concepts regarding the discussion process.

**Speech 595. Administering the Communications Program. (3-0-3); I, II.** Development and management of communications programs, including co-curricular activities.

**Speech 597. Administering and Supervising the Co-Curricular Communication Arts Program. (3-0-3); II.**

Prerequisite: Speech 110 and Speech 220. A study of the nature, objectives and values of a forensics program. The student will study the traditional high school forensic events and will have a laboratory experience in each.

**Speech 603. Seminar. (3-0-3).**

Prerequisite: Graduate standing and completion of 21 hours in speech. To explore problems in speech with special research projects.

**Speech 605. Psychology in Communications (3-0-3).** A study of the psychological process underlying communications.

**Speech 620. British Public Address. (3-0-3).** A study of outstanding British orators, and the impact of their speeches on the social and political affairs of their time.

**Speech 621. Classical Rhetorical Theory. (3-0-3).** In-depth study of the rhetorical theory of Plato, Aristotle, Cicero and other writers of the Greek and Roman periods.

**Speech 622. Contemporary Rhetorical Theory. (3-0-3).**

Prerequisite: Speech 621 or permission of the instructor. Study of the development of rhetorical and communications theory from the Renaissance to the present.

**Speech 623. Rhetorical Criticism. (3-0-3).** The application of classical and modern rhetorical theory in order to analyze and critique selected speeches.

**Theatre****Theatre 530. Summer Theatre III. (3-0-3); III.**

Prerequisite: Theatre 300 and acceptance to summer theatre company. Advanced assignments in set and costume design or advanced acting and directing.

**Theatre 531. Summer Theatre III. (3-0-3); III.**

Prerequisite: Theatre 300 and acceptance to summer theatre company. A continuation of Theatre 530.

**Theatre 552. Early Dramatic Literature. (3-0-3); I.** A detailed study of representative plays from the great periods of dramatic literature from the Greeks to mid-nineteenth century.

**Theatre 553. Modern Dramatic Literature. (3-0-3); II.** A detailed study of the drama from the growth of realism to the present day.

**Theatre 554. Theatre History. (3-0-3); II.**

Prerequisite: Theatre 200. A study of the origins and development of theatre.

**Theatre 562. Advanced Acting. (2-2-3); II.**

Prerequisite: Theatre 284. Advanced study of acting, including analysis and development of characters in acting situations.

**Theatre 563. Advanced Costuming. (3-0-3).**

Prerequisite: Theatre 325 or permission of instructor. Designing costumes for theatrical productions, making patterns and the fabrication of garments for the stage.

**Theatre 564. Advanced Scene Design. (3-0-3).**

Prerequisite: Theatre 210, 312 or permission of instructor. To develop greater proficiency in the skills of scenic design as applied to specific problems and theatrical productions.

**Theatre 565. Advanced Stage Lighting. (3-0-3).**

Prerequisite: Theatre 321 or permission of instructor. Advanced study in lighting design including actual implementation for University theatre productions.

**Theatre 570. Children's Theatre. (3-0-3); II.**

Prerequisite: Theatre 100. A concentrated study of the problems involved in organization and production of plays for and with children.

**Theatre 603. Seminar. (3-0-3).**

Prerequisite: Completion of a major or minor in theatre. To explore problems of contemporary theatre, with directed individual research projects to be shared in seminar discussion.

**Theatre 612. Playwriting. (3-0-3).**

Prerequisite: Theatre 200, Theatre 100, or by permission of instructor. An analysis of the structure of plays and the writing of original scripts.

**Theatre 613. Advanced Play Direction (3-0-3).**

Prerequisite: Theatre 380. To develop greater proficiency in techniques of directing as related to specific productions and staging problems.

**Theatre 655. Dramatic Criticism. (3-0-3).**

Prerequisite: Theatre 200, Theatre 100, Theatre 554, or by permission of the instructor. Dramatic theory and criticism as developed through Aristotle, Horace, the middle ages, the Renaissance, and the twentieth century.

**English****For the Master of Arts Degree****Requirements for Admission to Graduate Study in English**

1. General admission to graduate study.
2. Completion of an undergraduate major or minor in English.
3. A minimum standing of 3.0 on all undergraduate English courses above the freshman level.

## Requirements for the Degree

### PLAN A

1. Thirty graduate hours with at least twenty-four in English (up to six hours may be in one other field). At least twelve hours must be earned in "600" courses; a minimum of six hours must be in each of two different areas of English studies (English literature, American literature, linguistics).
2. English 500 and 603.
3. A general written examination.
4. A reading knowledge of a foreign language.

### PLAN B

1. Thirty-three graduate hours with at least twenty-seven in English (up to six hours may be in one other field). At least twelve hours must be earned in "600" courses; a minimum of six hours must be in each of two different areas of English studies (English literature, American literature, linguistics).
2. English 500 and 603.
3. A general written examination.

### PLAN C

1. Thirty graduate hours, with at least twenty-four in English (up to six hours may be in one other field). At least twelve hours must be earned in "600" courses; a minimum of six hours must be in each of two different areas of English studies (English literature, American literature, linguistics).
2. A thesis for six credit hours and an oral examination defending it.
3. English 603.
4. A reading knowledge of a foreign language.

### PLAN D

1. Thirty graduate hours, with at least twenty-four in English (up to six hours may be in one other field). At least twelve hours must be earned in "600" courses; a minimum of six hours must be in each of two different areas of English studies (English literature, American literature, linguistics).
2. A thesis for six credit hours and an oral examination defending it.
3. English 603.
4. A general written examination.

## English

### Course Offerings

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

**English 500. Studies in English for Teachers.** (3-0-3); I, II, III. The philosophy, rationale, and content of English in the American junior and senior high schools.

**English 502. Non-print Materials and Literary Types for Teachers.** 7-12. (3-0-3); I, II, III.

Prerequisite: English 500 or consent of instructor. Student and faculty demonstrations of teaching the various literary genres; use of such appropriate non-print media as films, cassettes, and tapes to augment teaching effectiveness; and development of meaningful techniques of evaluating secondary school students of literature.

**English 510. Programmed Writing and Learning.** (3-0-3); on demand. Using, writing, and understanding programmed texts; instruction individualized to the student's particular area of study.

**English 516. Reading and Linguistics.** (3-0-3); on demand. Basic elements essential to good reading; centers on phonology and morphology; major emphasis is phonological.

**English 528. Modern Literary Criticism.** (3-0-3); on demand. Study of selected critics such as the New Humanists, New Critics, neo-Aristotelians, and various linguistic structuralists.

**English 533. English Fiction.** (3-0-3); on demand. Development of

the English novel from its beginnings to the twentieth century.

**English 539. Milton.** (3-0-3); on demand. Intensive reading of Milton's poetry and major prose.

**English 544. Folk Literature.** (3-0-3); I, II, III. The origin of such primitive literary forms as the proverb, tale, epic, ballad, and folk drama.

**English 545. Jacobean and Restoration Literature.** (3-0-3); on demand. Representative works of seventeenth century England.

**English 552. Early Dramatic Literature.** (3-0-3); on demand. Representative dramas from the Greeks to the mid-nineteenth century.

**English 553. Modern Drama.** (3-0-3); on demand. Representative dramas from the advent of realism to the present.

**English 560. Early American Authors.** (3-0-3); on demand. The writings and backgrounds of Bradford, Taylor, Edwards, Franklin, Paine, and Jefferson.

**English 562. Nineteenth Century American Fiction.** (3-0-3); on demand. The development of American fiction from Charles Brockden Brown to Stephen Crane.

**English 564. Twentieth Century American Fiction.** (3-0-3); on demand. The development of American fiction from 1900 to the present.

**English 570. Introduction to Film Literature.** (3-0-3); I, II. An introduction to the study of film as literature with extensive reading in the history of film and viewing of selected film classics.

**English 591. Technical Writing I.** (3-0-3); I, II, III. Principles of analysis, process, and definition; program, recommendation, and research reports; proposals and memoranda; visual aids; transitions, mechanics of clear and precise statement.

**English 592. Technical Writing II.** (3-0-3); I, II, III. Continuation of English 591.

**English 593. Fiction and Poetry Writing I.** (3-0-3); I, II, III. Practicum in sustained writing. Evaluation and marketing of manuscripts.

**English 594. Fiction and Poetry Writing II.** (3-0-3); I, II, III. Continuation of English 593.

**English 595. Linguistics: Composition.** (3-0-3); I. Language patterns, inherent symbols and their meanings, and tagmemics.

**English 603. Bibliography.** (3-0-3); I, III. An introduction to graduate research in American and English literature. Required of all candidates for Master of Arts with a major in English.

**English 611. Grammar, Composition, Listening, Oral Skills, and Literature for Grades 1-8.** (3-0-3); I, II, III. Elements of grammar, spelling, oral skills, composition—functional and creative—auding, use of language and language development, and the language of mass media.

**English 613. Literary Criticism.** (3-0-3); on demand. A historical survey of literary criticism in Europe from the classical period to the twentieth century.

**English 619. American Renaissance.** (3-0-3); II. An intensive study of the transcendental movement and its influence upon American literature as seen primarily in the works of Emerson, Thoreau, Hawthorne, and Melville.

**English 620. Major American Poets.** (3-0-3); on demand. Intensive study of Whitman, Dickinson, Frost, Stevens, Eliot, and others.

**English 624. American Writers in Perspective.** (3-0-3); I. Thematic development, growth of a genre, and regional qualities.

**English 631. Studies in Old English Literature.** (3-0-3); on demand. An intensive reading of selected Old English poetry and prose.

**English 641. Chaucer's Era and Middle English.** (3-0-3); on demand. A study of the works of Chaucer and other significant English literature from the twelfth through the fifteenth centuries.

**English 643. English Renaissance.** (3-0-3); on demand. Elements of the Renaissance and Reformation, together with the poetry, prose, and drama of the period from 1500-1600.

**English 647. Neoclassical Period.** (3-0-3); on demand. Poetry and prose of major British writers from 1660-1780.

**English 648. English Romantic Period.** (3-0-3); on demand. The works of Wordsworth, Coleridge, Shelley, Keats, Byron, and others.

**English 650. Victorian Period.** (3-0-3); on demand. The works of Tennyson, Arnold, Browning, Newman, Huxley, Ruskin, and others.

**English 652. Twentieth Century English Literature.** (3-0-3); on demand. The works of Eliot, Auden, Yeats, Joyce, Conrad, Woolf, Lawrence, Forster, and others.

**English 670. Directed Studies.** (One to three hours); I, II, III. Prerequisite (For English majors only): fifteen hours of graduate credit in English. Individual study in any area in English under the direction of the faculty.

**English 680. English Syntax. (3-0-3); on demand.** Stresses syntactical studies primarily in the English language, and specifically in the use of American English structures.

**English 685. Psycholinguistics. (3-0-3); on demand.** Both theoretical and practical applications of all psychological aspects of language.

**English 691. Dialectology. (3-0-3); II.** Regional varieties of a language, the dialect boundaries, the phonological differences, and the lexical variations.

**English 693. Phonology. (3-0-3); on demand.** Study of the definition of phonemes and combinations of phonemes.

**English 697. Sociolinguistics. (3-0-3); on demand.** Theory and practice involved in individual and institutional language patterning.

**English 699. Thesis. (One to six hours); I, II, III.** Thesis requirement consists of a total of six semester hours to be distributed according to the particular program followed by the student.

## French

**French 541. The French Novel. (3-0-3); on demand.** Intensive study of a few selected novels considered to be representative of the genre.

**French 542. The French Drama. (3-0-3); on demand.** Intensive study and analysis of selected plays viewed as representative of the genre.

**French 543. French Lyric Poetry. (3-0-3); on demand.** Intensive study and analysis of masterpieces of French lyric poetry.

**French 550. Reading French I. (3-0-3); on demand.** Prerequisite: Permission of instructor. Intensive practice in reading of the French language, with rapid and correct idiomatic translation as the aim.

**French 551. Reading French II. (3-0-3); on demand.** Prerequisite: French 550 or permission of the instructor. Further study of grammar and drill in reading, with emphasis on reading in the student's own subject area.

## Spanish

**Spanish 501. Advanced Grammar. (3-0-3); on demand.** Compulsory for those who plan to teach Spanish. A thorough study of the verbs and the structure of the language. Based on the Royal Academy Grammar.

**Spanish 523. Don Quixote de la Mancha. (3-0-3); on demand.** A study of this masterpiece of Spanish literature.

**Spanish 532. Contemporary Spanish and Spanish American Literature. (3-0-3); on demand.** A survey of significant characteristics of twentieth century Hispanic literature, including the novel, short story, drama, essay, and poetry.

**Spanish 540. Seminar in Hispanic Literature. (3-0-3); on demand.** Group instruction and practice in research methods peculiar to Hispanic literature.

**Spanish 545. Spanish Drama from the Generation of 1898 to the Present. (3-0-3); on demand.** A study of the major dramatists and dramatic trends from Benavente and his contemporaries through Garcia Lorca, Casona, and Buero Vallejo.

**Spanish 550. The Spanish Essay from the Eighteenth Century to the Present. (3-0-3); on demand.** A study of the major essayists from Feijoo through Madariga.

**Spanish 555. Lope de Vega. (3-0-3); on demand.** A study of the major dramatic and nondramatic works of Lope de Vega.

**Spanish 670. Research Problems. (One to three hours); I, II, III.** Original research of an approved subject under faculty supervision.

**Spanish 676. Independent Study. (One to three hours); I, II, III.** Individually planned study of a specific topic under direction of the faculty.

## Music

### Requirements for Unconditional Admission to Graduate Study in Music

1. General admission to graduate study.
2. Completion of a bachelor's degree in music or its equivalent.
3. A minimum standing of 3.0 on all undergraduate music courses above the freshman level.

In addition to meeting all of the requirements of a general nature prescribed by the University for the mas-

ter's degree, the candidate must complete entrance examinations in music and one of the following curricula:

### Emphasis on Performance

	Sem. Hrs.
Applied music.....	8
Graduate Recital.....	2
Independent Study (related to performance area).....	1-3
Studies in Musical Style.....	3
Seminar in Music Research.....	3
Electives in music history and literature.....	6
Electives.....	5-7
<b>Total</b>	<b>30</b>

(Music electives may be chosen without limitation except for applied music, in which a maximum of eight semester hours in the major performing area may be taken. A maximum of six hours from disciplines other than music may be taken.)

### Emphasis on Music Education

	Plan		
	A	B	C
Applied Music.....	2	4	2
Studies in Musical Style.....	3	3	3
Seminar in Music Research.....	3	3	3
Foundations of Music Education.....	3	3	3
Psychology of Music.....	2	2	2
Independent Study.....	0	1-3	3
Graduate Recital*.....	0	2	0
Thesis.....	6	0	0
Electives in music history and literature.....	4	4	4
Electives.....	7	6-8	10
<b>Total</b>	<b>30</b>	<b>30</b>	<b>30</b>

(Music electives may be chosen without limitation except for applied music, in which a maximum of eight semester hours in the major performing area may be taken. A maximum of six hours from disciplines other than music may be taken.)

\* The graduate recital may be given in composition or conducting as well as other performance areas, with the approval of the graduate faculty in these areas. In this case a minimum of two hours in applied music is required, along with at least four hours of course work in composition or conducting.

### Certification

A student who is following a Master of Music degree program may qualify for the Kentucky Standard Certificate (provided he holds, or is eligible to hold, a provisional certificate). A student who expects to meet certification requirements in another state should contact the certification authority in that state to determine specific requirements. In order to qualify for the Kentucky Standard Certificate, a minimum of nine hours of credit must be earned in courses selected from the following two areas:

### Music

	Sem. Hrs.
578 Teaching of Percussion.....	2
616 Teaching of Strings.....	2
625 Psychology of Music.....	2
653 Teaching of Woodwinds.....	2
656 Teaching of Brasses.....	2
661 Teaching of General Music.....	2
680 Seminar in Music Research.....	3
681 Foundations of Music Education.....	3

### Education

	Sem. Hrs.
600 Research Methods in Education.....	2
609 Advanced Educational Psychology.....	3
610 Advanced Human Growth & Development.....	3
630 Curriculum Construction.....	2



632 Elementary School Curriculum.....	2
634 Secondary School Curriculum.....	3
680 History & Philosophy of Education.....	3

## Music Fees

One half-hour private lesson per week, per semester.....	\$20.00
Each additional half-hour private lesson per week, per semester.....	20.00
Practice room and organ fee.....	5.00
Instrumental rental fee.....	3.00
Recital fee.....	40.00

## Private Applied Music

A graduate student usually takes private instruction only in his major instrument or voice. Under certain conditions, with the approval of his advisor, a student may take private instruction for graduate credit in a secondary instrument. A student who is not following a music curriculum may take private instruction for graduate credit provided he can demonstrate graduate proficiency.

Course numbers will be assigned from the following sequences.

- 517-518 Private Applied Music (non-music students). One hour.
- 551-552 Private Applied Music (secondary instruments or voice). One hour.
- 557-558 Private Applied Music (major instruments or voice). One to four hours.

## Course Offerings

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

**Music 531. Arranging. (2-0-2); on demand.**  
Prerequisite: Music 232 or the equivalent. Scoring, arranging, transcribing of selected or original materials for voices and/or instruments.

**Music 532. Advanced Arranging. (2-0-2); on demand.**  
Prerequisite: Music 531. Continuation of Music 531.  
**Music 563. Advanced Composition I. (1-1-2); I, II.**  
Prerequisite: Music 364. Study, writing, and performance of students' original creative work. Private conferences and composition seminar in colloquium.

**Music 564. Advanced Composition II. (1-1-2); I, II.**  
Prerequisite: Music 563. Continuation of Music 563.  
**Music 565. Music in America. (3-0-3); I.** A survey of the history of American music from colonial times to the present.

**Music 578. Teaching of Percussion. (2-0-2); II, III.** A study of the development of percussion instruments, literature and performing techniques.

**Music 579. Marching Band Workshop. (2-0-2); I, III.** Techniques of preparing marching bands for performance.

**Music 581. Literature of the Piano. (3-0-3); I.** Survey of the keyboard music from the sixteenth century to the present.

**Music 591. School Band Literature. (2-0-2); II, III.** Examination and criticism of music for training and concert use by groups at various levels of attainment.

**Music 592. Vocal Literature. (3-0-3); II.** A survey of music for solo voice and vocal ensemble, sixteenth through twentieth centuries; stylistic traits, types of compositions, sources, and performance practices.

**Music 595. Voice Pedagogy. (3-0-3); I.** An introduction to the physiological, acoustical, and phonetic bases of singing and private voice instruction. Emphasis will be placed on the relationship between scientific fact and the practical application of principles through the use of imagery and phonetic choice.

**Music 616. Teaching of Strings. (2-1-2); II.** A survey of teaching techniques and materials with primary emphasis on the public school level.

**Music 625. Psychology of Music. (2-0-2); II, III.** A study of the psychological processes upon which musical behavior depends.

**Music 631. Arranging for the Marching Band. (2-0-2); I, II.** Study of current trends in half-time show styles; creative experiments in arranging in various styles; attention to individual projects.

**Music 635. Practicum in Music Teaching. (Three hours); I, II, III.**  
Prerequisite: Permission of the head of the Department of Music. Practical experience on an individual basis in some areas of music teaching under the supervision of a member of the music faculty. The credit will be offered only to the student whose need can be met with an appropriate situation for supervised teaching.

**Music 653. Teaching of Woodwinds. (2-0-2); I, III.** Comparative study of the various techniques and recent trends in the teaching of woodwind instruments.

**Music 656. Teaching of Brasses. (2-0-2); I, III.** Comparative study of various techniques and recent trends in the teaching of brass instruments.

**Music 660. Graduate Recital. (2-0-2); I, II, III.** A solo public recital of approximately one hour's duration.

**Music 661. Teaching of General Music. (2-0-2); on demand.** A pedagogy course with emphasis upon music for the non-performing student in the elementary and secondary schools.

**Music 663. Creative Writing I. (2-0-2); I, II, III.** Private coaching and critique in developing individual compositional style.

**Music 664. Creative Writing II. (2-0-2); I, II.**  
Prerequisite: Music 663. Continuation of Music 663.

**Music 671. Advanced Conducting. (2-2-3); I, II, III.** Advanced instruction and experience in the preparation, rehearsal, and performance of ensemble music.

**Music 676. Independent Study. (One to three hours); I, II, III.** Definition and investigation of a problem in music. A written report of the problem, procedure, and results of the study must be submitted.

**Music 680. Seminar in Music Research. (3-0-3); I, III.** A study of the types of research appropriate to the field of music and the methodology of each.

**Music 681. Foundations of Music Education. (3-0-3); II, III.** Examination of the historical, philosophical, and sociological foundations of the teaching of music in the public schools.

**Music 690. Studies in Musical Style. (3-0-3); II, III.** Detailed analysis of the music of individual composers, musical styles and periods.

**Music 691. Symphonic Literature. (3-0-3); I, III.** Orchestral literature from the Mannheim School to the present. Emphasis upon formal structure, harmonic idioms, and orchestration.

**Music 693. Contemporary Music. (3-0-3); I, III.** A study of the compositions and theories of those composers who have contributed significantly to the music of the twentieth century.

**Music 694. Chamber Music. (2-0-2); II, III.** A study of the literature for small ensembles from the eighteenth century to the present.

**Music 699. Thesis. (One to six hours); I, II, III.**  
Prerequisites: Music 580 and approval of thesis topic. May be divided among two or more semesters.

## Philosophy

### Course Offerings

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

**Philosophy 505. History of Philosophy I. (3-0-3); I.** Ancient and Medieval philosophy; a history of Western philosophy from Thales 624-546 B.C.) to the beginning of the Renaissance.

**Philosophy 506. History of Philosophy II. (3-0-3); II.** Modern and contemporary philosophy; a history of Western philosophy from the Renaissance to the present.

**Philosophy 676. Research Problems. (One to three hours); on demand.**  
Prerequisite: twelve hours of undergraduate credit or three hours of graduate credit in philosophy. The student selects an approved topic in philosophy on which he will do a direct study.

## School of SCIENCES AND MATHEMATICS

Department of Biological Sciences

Department of Mathematical

Sciences

Department of Physical Sciences

Department of Science Education

### Degrees:

Master of Science in Biology

Master of Science in Mathematics

### Biology

#### For the Master of Science Degree

Students pursuing a Master of Science in biology may elect to follow a thesis or a non-thesis route. The student pursuing the thesis route may emphasize botany, zoology, microbiology, taxonomy, molecular biology, reproductive physiology, or any combination of these.

#### Requirements for Admission to Graduate Study in Biology

1. General admission to graduate study.
2. Completion of an undergraduate major or minor in biology.
3. Minimum standing of 3.0 in all upper division biology courses.
4. Acceptable proficiency in chemistry, mathematics, and physics as determined by the biology graduate admissions committee.

#### Admission to Candidacy

See University requirements.

#### Requirements for the Degree (Thesis)

1. Completion of a minimum of 30 semester hours of graduate work. (This includes credit allowance of six hours for the thesis.)
2. Completion of a minimum of 24 semester hours of approved course work in biology. At least 16 hours (this includes a maximum credit allowance of six semester hours for the thesis) of this work must be earned in courses open only to graduate students (600 level).
3. The remaining hours may be selected from biology as well as from approved related fields.
4. A minimum GPA of 3.0 is required on all work completed for the degree and no more than six hours of course work may be applied toward degree requirements in which grades of "C" are earned.
5. A maximum of six semester hours of graduate credit earned at another institution may be applied toward the degree requirements. Transfer credit must be acceptable to the student's advisory committee.
6. Each candidate (thesis) Master of Science degree will be required to take final written examinations as determined by the student's advisory committee.
7. Each candidate for an M.S. degree with a thesis must pass a final oral examination which includes the defense of the thesis and general information.

#### Requirements for the Degree (non-thesis)

1. Completion of a minimum of 32 semester hours of graduate work.
2. Completion of a minimum of 24 semester hours of approved course work in biology. At least 16 hours of this work must be earned in courses open only to graduate students (600 level).
3. The remaining hours may be selected from biology as well as from related fields with the approval of the advisory committee.
4. In general, the specifics of a course distribution are to be arranged by the student with the advice and consent of his advisory committee. The department does establish the following minimum requirements for all non-thesis master's students.
  - A. Successful completion of at least one course from each of the following six areas of study: general biology, zoology, cell biology and animal physiology, microbiology, botany and plant physiology, and environmental biology.
  - B. A minimum GPA of 3.0 is required on all work completed for the degree and no more than six hours of course work may be applied toward degree requirements in which grades of "C" are earned.
  - C. A maximum of six semester hours of graduate credit earned at another institution may be applied toward the master's degree. Transfer credit must be acceptable to the student's advisory committee.
  - D. Each student will be required to take one hour of graduate seminar and two to three hours of research problems (Biology 676) to demonstrate the student's ability to carry out independent research under laboratory conditions.
5. Each candidate for the (non-thesis) Master of Science degree will be required to take final written examinations as determined by the student's advisory committee.
6. Each candidate for a non-thesis Master of Science degree must pass a final oral examination to determine his or her comprehension of biological principles.

#### Non-Thesis Areas of Study

- (1) General Biology
  - 574—Biological Techniques
  - 601—Biological Concepts
  - 604—Modern Theories of Evolution
  - 612—Speciation
  - 625—Advanced Genetics
- (2) Zoology
  - 520—Histology
  - 534—Ichthyology and Herpetology
  - 533—Mammalogy
  - 537—Ornithology
  - 540—General Parasitology
  - 545—Medical Entomology
  - 605—Biology of the Invertebrates
  - 606—Biology of the Vertebrates
  - 615—Systematic Entomology
  - 640—Advanced Parasitology
- (3) Cell Biology and Animal Physiology
  - 525—Animal Physiology
  - 655—Cytology
  - 650—Cellular Physiology
  - 595—Biochemistry I
  - 596—Biochemistry II
  - 630—Endocrinology
  - 632—Reproductive Physiology

- (4) Microbiology  
 514—Plant Pathology  
 515—Food Microbiology  
 518—Pathogenic Microbiology  
 519—Virology  
 617—Mycology  
 618—Microbial Physiology
- (5) Botany and Plant Physiology  
 513—Plant Physiology  
 550—Plant Anatomy  
 551—Plant Morphology  
 608—Taxonomy of Vascular Plants  
 620—Advanced Plant Physiology
- (6) Environmental Biology  
 553—Workshop in Environmental Biology  
 510—Limnology  
 561—Ecology  
 611—Radiation Biology

### Course Offerings

NOTE: Field courses are designed with an asterisk (\*), (3-0-3) following course title means 3 hours class, no laboratory, 3 hours credit. Roman numerals I, II and III following the credit hour allowance indicate the term in which the course is normally scheduled. I—fall; II—spring, III—summer.

#### Biology 510. Limnology. (0-4-2); III.

Prerequisites: Biology 209, 215, Chemistry 112 and 112A. Characteristics of fresh water conditions including chemical and physical effects, seasonal changes, thermocline development, and pressure in the ecology of aquatic forms.

#### Biology 513. Plant Physiology. (2-2-3); I.

Prerequisites: Biology 215 and Chemistry 327 or equivalent. Diffusion, osmosis, cell wall and membrane structure, mineral nutrition, photosynthesis, respiration, macro-molecules, photoperiodism, and other aspects of plant growth and development.

#### Biology 514. Plant Pathology. (1-4-3); I.

Prerequisite: Biology 215. Plant diseases; classification of fungi; diseases caused by rusts, smuts, fleshy fungi, bacteria, and viruses; physiogenic diseases; principles and procedures in the control of plant diseases; resistant varieties and culture control.

#### Biology 515. Food Microbiology. (1-4-3); I.

Prerequisites: Biology 217 or 317. Microbiology of food production, food spoilage, and food-borne diseases.

#### Biology 518. Pathogenic Microbiology. (2-2-3); I.

Prerequisite: Biology 217 or 317. Microbial diseases of man and animals; host responses to diseases.

#### Biology 519. Virology. (2-2-3); II.

Prerequisite: Biology 317, or consent of instructor. Morphology and chemistry of the virus particle; symptoms, identification, and control of more common virus diseases of plants and animals; host-virus relationships; research methods concerned with viruses.

#### Biology 520. Histology. (1-2-3); I.

Prerequisite: Biology 209. Characteristics of tissues and organs of vertebrates.

#### Biology 525. Animal Physiology. (2-2-3); I.

Prerequisites: Biology 209 and Chemistry 326 or equivalents. Comparison of fundamental physiological processes in representatives of invertebrate and vertebrate animals.

#### Biology 534. Ichthyology and Herpetology. (1-4-3); II.

Prerequisite: Biology 209. Anatomy, physiology, taxonomy, adaptations, and natural history of fishes, amphibians, and reptiles; emphasis on groups common to eastern North America.

#### Biology 535. Mammalogy. (1-4-3); I.

Prerequisite: Biology 209. Mammals of eastern North America with emphasis on mammals of southeastern North America. Taxonomy, adaptation, natural history, and methods of skin preparation.

#### Biology 537. Ornithology. (1-4-3); II\*.

Prerequisite: Biology 209. Anatomy, physiology, classification, and identification of birds; life histories, habits, migration, and economic importance of native species.

#### Biology 540. General Parasitology. (1-4-3); II.

Prerequisite: Biology 209. Protozoan, helminth, and arthropod parasites of man and domestic animals; emphasis on etiology, epidemiology, diagnosis, control, and general life histories of parasites.

#### Biology 545. Medical Entomology. (2-2-3); I.

Prerequisite: Biology 334, or permission of the instructor. Arthropod vectors of diseases with special emphasis on insects of medical importance, anatomy, physiology, identification, ecology, and control measures.

#### Biology 550. Plant Anatomy. (2-2-3); I.

Prerequisite: Biology 215. Gross and microscopic studies of internal and external structures of vascular plants. The cell, meristem, cambium, primary body, xylem and phloem, roots, stems, and leaves; flowers and fruits; ecological anatomy.

#### Biology 551. Plant Morphology. (2-2-3); II.

Prerequisite: Biology 215. Fossil and living non-vascular plants (except bacteria) and vascular plants; emphasis on morphology, ecology, and evolution.

#### Biology 553. Workshop in Environmental Biology. (3-0-3); III.

Prerequisite: Permission of the instructor. Regional distribution and reserve depletion of wildlife, forest, land, water, air, and mineral resources; emphasis on pollution and environment. (Especially designed for in-service and future teachers.)

#### Biology 561. Ecology. (2-2-3); I\*.

Prerequisites: Biology 209 and 215. Energy flow, biochemical cycles, limiting factors, and ecological regulators at the population, community, and ecosystem levels.

#### Biology 574. Biological Techniques. (1-2-2); II.

Prerequisites: Biology 209 and 215. Collecting, preserving, and caring for biological materials; rearing and culturing a variety of animals and plants under laboratory conditions; construction and maintenance of laboratory equipment.

**Biology 575. Scanning Electronmicroscopy. (1-2-2); II.** Brief description of the theory of the electron gun, the magnetic control of electron pathways, and variations in electron microscope construction. The major portion of the course will be concerned with the preparation of specimens and actual application of the scanning electron microscope.

#### Biology 595. Biochemistry I. (2-4-4); I.

Prerequisite: Chemistry 327 or 332 or permission of the instructor. The chemistry of carbohydrates, lipids, proteins and nucleic acids.

#### Biology 596. Biochemistry II. (2-4-4); II.

Prerequisite: Biology 595. Continuation of Biochemistry I. Intermediary metabolism of carbohydrates, lipids, proteins, and nucleic acids; function and mechanism of action of enzymes; energetics of living systems, and regulation of life processes.

**Biology 601. Biological Concepts. (2-0-2); II.** Selected concepts from various biological sciences; the impact of recent experimentation and discovery on basic biological principles.

**Biology 604. Modern Theories of Evolution. (2-0-2); I, II.** History of evolutionary thought; classical evidences of evolution; factors involved in speciation and the origin of higher groups.

**Biology 605. Biology of the Invertebrates. (1-4-3); I.** Major invertebrate phyla; emphasis on their evolution, taxonomy, morphology, physiology, and ecology.

**Biology 606. Biology of the Vertebrates. (1-4-3); II.** Vertebrate classes; emphasis on their evolution, taxonomy, morphology, physiology, and ecology; local representatives. Field trips required.

**Biology 608. Taxonomy of Vascular Plants. (2-2-3); I.** Collection, preservation, and classification of vascular plants; emphasis on ecological adaptations and evolutionary trends.

**Biology 611. Radiation Biology. (1-2-2); II.** Radiation effects on living systems; use of isotopes with respect to techniques used in determining effects on biological systems.

**Biology 612. Speciation. (2-0-2); I, II.** Species concepts in terms of physiological and neontological forms of reference; subspecies variation, clines, and reproductive isolation and capacity.

#### Biology 615. Systematic Entomology. (1-4-3); II.

Prerequisites: Biology 334 and permission of the instructor. Insect orders with emphasis on the classification of insects to family and beyond; taxonomic keys.

**Biology 617. Mycology. (2-4-4); II.** Morphology, taxonomy, and reproductive physiology of the fungi.

#### Biology 618. Microbial Physiology. (2-4-4); I.

Prerequisites: Biology 317, Chemistry 326 or permission of the instructor. Advanced concepts in the physiology and cytology of microorganisms.

#### Biology 620. Advanced Plant Physiology. (2-2-3); I.

Prerequisites: Biology 513 and Chemistry 327 (calculus recommended). Physiology and biochemistry of green plants; respiratory metabolism, photosynthesis, nitrogen metabolism, terminal oxidation, and energy relationships of the cell.



**Biology 625. Advanced Genetics.** (3-0-3); II. Discussion and research projects to meet the desires and needs of advanced students.

**Biology 630. Endocrinology.** (2-2-3); I. Functions of endocrine glands; embryological development and histological characteristics of the endocrine glands.

**Biology 632. Reproductive Physiology.** (2-2-3); II. Physiological processes of reproduction in domestic animals and man; gonadal functions, endocrine relationships, and fertility problems.

**Biology 640. Advanced Parasitology.** (1-4-3); II. Parasites other than those of the phylum Arthropoda; the etiology, epidemiology, pathology, diagnosis prophylaxis, and control of parasitic protozoans, cestodes, trematodes, and nematodes.

**Biology 650. Cellular Physiology.** (2-4-4); I.  
Prerequisites: Biology 209 and 215; organic chemistry recommended. Generalized cell; biochemistry and biophysics of cell membranes; permeability, diffusion, and osmosis; carbohydrates, lipid, protein, and nucleic acid metabolism; respiration and terminal oxidation; energetics of cellular processes.

**Biology 655. Cytology.** (2-2-3); I.  
Prerequisites: Twelve hours of biology and Chemistry 112 and 112A. Cell morphology; biochemistry, genetics and cell developments; the cytoplasm, nucleus, and nucleocytoplasmic relationships.

**Biology 671. Seminar.** (1-0-1); I, II.  
Prerequisite: Graduate status. Student and/or faculty reports on individual research, technical papers in scientific journals, recent developments in biology, scientific meetings, or other significant problems in biology. Required of all graduate students in biology.

**Biology 676. Research Problems.** (One to three hours); I, II, III.  
Prerequisite: Undergraduate minor in biology or equivalent. Independent research in biology. Problem must be approved prior to registration.

**Biology 699. Thesis.** (One to six hours); I, II, III.  
Prerequisite: Division permission required. Research and thesis writing. Varying portions of the total credit may be elected to best fit student schedules.

## Mathematics

### For the Master of Science Degree

#### Requirements for Admission to Graduate Study in Mathematics

1. General admission to graduate study.
2. Completion of an undergraduate major or minor in mathematics.
3. A minimum grade average of 3.0 on all undergraduate mathematics courses above and including the beginning course in calculus.

#### Requirements for the Degree

1. Completion of a minimum of 18 semester hours of approved course work in mathematics. At least 12 hours of this work must be earned in courses open only to graduate students.
2. A student must complete Mathematics 586, 610, 650, and 651. (If a student has taken Mathematics 586 or its equivalent in his undergraduate work, he may substitute an approved course in analysis provided he can demonstrate proficiency in complex variables to a committee of the graduate faculty in mathematics appointed by the mathematics chairman.)
3. In addition to the requirements listed in 1 above, a student must complete one of the following:
  - a. prepare an approved thesis for which maximum credit allowance is six hours,
  - or
  - b. complete an additional six hours in mathematics courses open only to graduate students.
4. Completion of a minimum of 30 semester hours of graduate work, including the credit allowance for the thesis.

5. Successful completion of a final examination to determine the candidate's proficiency in mathematics. (If a thesis was prepared, the candidate must successfully defend it before the mathematics faculty.)

### Course Offerings

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

**Mathematics 501. Design and Analysis of Experiments.** (3-2-4); III.  
Prerequisite: Mathematics 123 or 152. Basic statistics with applications. Analysis of enumeration data; hypothesis testing; confidence intervals; analysis of variance; correlation, regression.

**Mathematics 504. Topology.** (3-0-3); II.  
Prerequisites: Mathematics 304 and 350 or consent of instructor. Elementary set theory; topological spaces; metric spaces; compactness and connectedness; mappings of topological spaces; related topics.

**Mathematics 510. Real Variables.** (3-0-3); I.  
Prerequisite: Mathematics 310. Topological properties of Euclidean space; theory of differentiation and integration; sequences and series of functions; metric spaces.

**Mathematics 511. Functional Analysis** (3-0-3); I.  
Prerequisites: Mathematics 301 and 510 or consent of instructor. Linear spaces; normed and Banach spaces; Hilbert spaces, applications to sequence spaces and Fourier series.

**Mathematics 519. Probability.** (3-0-3); I.  
Prerequisite: Mathematics 275. A course in mathematical probability and its applications to statistical analysis.

**Mathematics 520. Mathematical Statistics.** (3-0-3); II.  
Prerequisite: Mathematics 519. Hypothesis testing and estimation; bivariate and multivariate distributions; order statistics; test of fit, non-parametric comparison of locations; distribution theory.

**Mathematics 553. Statistical Methods.** (3-0-3); I.  
Prerequisite: Mathematics 353 or 501. A second course in basic statistical methods with applications. Analysis of variance; general regression analysis, hypothesis testing; confidence intervals.

**Mathematics 555. Nonparametric Statistics.** (3-0-3); II.  
Prerequisite: Math 353 or 501. A course in basic nonparametric statistical methods with applications.

**Mathematics 573. Projective Geometry.** (3-0-3); III.  
Prerequisites: Mathematics 372 or consent of instructor. A synthetic treatment of projective geometry leading into natural homogeneous coordinates; analytic projective geometry; conics; axiomatic projective geometry, some descendants of real projective geometry.

**Mathematics 575. Selected Topics (One to six hours); I, II.**  
Prerequisite: Consent of instructor. Topics are offered which meet the needs of the students and which are not otherwise included in the general curriculum.

**Mathematics 585. Vector Analysis.** (3-0-3); I.  
Co-requisite: Mathematics. Vector functions of a single variable; scalar and vector fields; line integrals; generalizations and applications.

**Mathematics 586. Complex Variables.** (3-0-3); II.  
Prerequisite: Mathematics 310 or 585, or permission of instructor. Algebra of complex variables; analytic functions; integrals; power series; residues and poles; conformal mappings.

**Mathematics 599. Mathematics Curriculum Workshop.** (One to six hours); III.  
Prerequisite: Consent of instructor. New curricula developments in mathematics.

**Mathematics 605. Advanced Topics.** (3-0-3); I.  
Prerequisite: Consent of instructor. Advanced study in some area of mathematics.

**Mathematics 610. Real Analysis.** (3-0-3); II.  
Prerequisite: Mathematics 510. Abstract measure spaces; Lebesgue integration; differentiation theory; classical Banach spaces.

**Mathematics 631. Problem Solving and the Teaching of Mathematics in the Elementary School.** (3-0-3); I, II.  
Prerequisite: Consent of the instructor. An activity oriented course designed for the elementary school teacher in curricular materials and problem solving.

**Mathematics 650. Higher Algebra I.** (3-0-3); I.  
Prerequisite: Mathematics 351 or consent of instructor. Groups, rings.

**Mathematics 651. Higher Algebra II. (3-0-3); I, II.**

Prerequisite: Mathematics 650 or consent of instructor. Vector spaces and modules, fields, linear transformations.

**Mathematics 670. Research Problems. (One to three hours); I, II, III.**

Prerequisite: Consent of instructor. Individual research in mathematics. The problem to be investigated must be approved prior to registration.

**Mathematics 675. Selected Topics. (One to six hours); I, II.**

Prerequisite: Consent of instructor. Topics are offered which meet the needs of students and which are not otherwise included in the general curriculum.

**Mathematics 699. Thesis. (One to six hours); I, II, III.**

Prerequisite: Department permission required. Research and thesis writing. Varying portions of the total credits may be elected to best fit student schedules.

## Physical Sciences

### Course Offerings

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

### Chemistry

**Chemistry 541. Physical Chemistry I. (3-2-4); I.**

Prerequisites: Chemistry 223; Mathematics 275; Physics 202 or 232. Gases, liquids, and solids; thermodynamics, properties of solutions, thermochemistry; equilibria and electrochemistry.

**Chemistry 542. Physical Chemistry II. (3-4-5); II.**

Prerequisites: Chemistry 541. Co-requisite: Mathematics 276. Chemical kinetics, quantum theory, molecular structure, and nuclear chemistry.

**Chemistry 550. Qualitative Organic Analysis. (2-4-4); II.**

Prerequisite: Chemistry 326 or 332. Qualitative analysis of organic compounds; physical and chemical methods.

**Chemistry 560. Instrumental Analysis. (1-4-3); I.**

Prerequisites: Chemistry 340 or 541. Theory and practice of instrumental analysis. Opticometric and electrometric methods.

**Chemistry 595. Biochemistry I. (2-4-4); I.**

Prerequisite: Chemistry 327 or 332 or permission of instructor. Carbohydrates, lipids, and proteins, intermediary metabolism, protein synthesis, enzymology, blood chemistry, bioenergetics, fluid electrolyte balance, vitamin and steroid chemistry.

**Chemistry 596. Biochemistry II. (2-4-4); II.**

Prerequisite: Chemistry 595. Continuation of Biochemistry I. Intermediary metabolism of carbohydrates, lipids, proteins, and nucleic acids; function and mechanism of action of enzymes; energetics of living systems, and regulation of life processes.

**Chemistry 670. Independent Study in Chemistry. (One to three hours); I, II, III.** Investigation of a special area of chemistry not treated in detail in any course offering. The problem to be studied must be approved by the instructor prior to registration.

**Chemistry 676. Research Problems. (One to three hours); I, II, III.** Independent research in chemistry. Problem must be approved prior to registration.

### Geoscience

**Geoscience 510. Geological History of Plants and Animals. (2-2-3); I, II.**

Prerequisites: Biology 208 and 215, or Geoscience 101. The evolutionary history of plants and animals throughout geological time.

**Geoscience 513. Micropaleontology. (2-2-3); on demand.**

Prerequisite: Geoscience 510 or 378. Collection, preparation, microscopic investigation, classification, paleoecology and stratigraphic succession of microfossils.

**Geoscience 520. Optical Mineralogy. (2-2-3); on demand.**

Prerequisites: Geoscience 261 and Physics 202 or equivalent. Behavior of light, in isotropic and anisotropic minerals. Identification of minerals with polarizing microscope.

**Geoscience 525. Petroleum Geology. (2-2-3); on demand.**

Prerequisites: Geoscience 314 and 325. Origin, migration and accumulation of oil and gas. Exploration methods, reservoir development; logging, testing and completing wells.

**Geoscience 560. Geological Oceanography. (3-0-3); I, in alternative years.**

Prerequisite: Geoscience 101 or 510. Marine erosion, transportation and deposition, continental shelves, slopes and ocean basins, marine environments. Shoreline processes and analysis.

### Physics

**Physics 520. The Science of Music. (3-0-3); I.** Properties of sound, the hearing process, musical scales, production of music by wind and stringed instruments, electronic recording and reproduction, and architectural acoustics.

**Physics 593. Quantum Mechanics. (3-0-3); I, on demand.**

Prerequisite: Physics 391 or consent of the instructor. The wave function; Hermitian operators and angular momentum; Schrodinger's equation, barriers, wells, harmonic oscillators, and the hydrogen atom.

**Physics 676. Research Problems. (One to three hours.)**

Prerequisite: Consent of the instructor. Independent research in physics under the direction of a member of the physics faculty. Research interests of the faculty include physics education, solid state physics, nuclear, and theoretical physics. The problem must be approved in advance of registration.

## Science Education

### Course Offerings

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

**Science 551. Plant Natural History. (3-0-3); II, III.**

Prerequisite: Science 105 or equivalent. The survey of major taxonomic groups, with emphasis on the natural history of local plants.

**Science 552. Animal Natural History. (3-0-3); I, III.**

Prerequisite: Science 105 or equivalent. The survey of major taxonomic groups, with emphasis on the natural history of animals.

**Science 553. Workshop in Environmental Biology. (3-0-3); III.**

Prerequisite: Permission of instructor. Regional distribution and reserve depletion of wildlife, forest, land, water, air, and mineral resources; emphasis on pollution and environment. (Especially designed for in-service and future teachers.)

**Science 570. Earth Science. (3-0-3); I, II, III.**

Prerequisite: Permission of instructor. Basic fundamentals of the geological sciences.

**Science 580. History of Science. (3-0-3); I, II, III.**

Prerequisite: Six hours of science credit. Development of scientific traditions, discoveries, and concepts from the time of ancient Egypt to the present.

**Science 590. Science for the Elementary Teacher. (2-2-3); I, II, III.**

Prerequisite: The student should have completed the minimum education requirements in sciences and mathematics. Admission to the teacher education program. A study of teaching scientific concepts to elementary children.

**Science 591. Science for the Junior High Teacher. (2-2-3); I, II, III.**

Prerequisite: Senior standing, or consent of instructor. Admission to the teacher education program. A study of the pedagogy, science content, and techniques applicable to the teaching of science to middle school children.

**Science 592. Science for the Secondary Teacher. (2-2-3); II, III.**

Prerequisite: Permission of instructor. Admission to the teacher education program. Concepts for teaching high school science with emphasis on curriculum innovations and laboratory activities.

**Science 676. Research Problems. (One to six hours); I, II, III.** Independent research in science education. (Problem must be approved by the Department of Science Education prior to registration.)

**Science 690. Advanced Science for the Elementary School Teacher. (2-2-3); I, II, III.**

Prerequisite: Science 590 or equivalent. A comprehensive overview of teacher competencies applicable to the effective teaching of elementary school science.



## School of SOCIAL SCIENCES

Department of Geography  
Department of History  
Department of Political Science  
Department of Sociology,  
Social Work, and Corrections

### Degrees:

Master of Arts in History  
Master of Arts in Sociology

### History

#### For the Master of Arts Degree

Students majoring in history for the Master of Arts degree may emphasize either American history, European history, non-western history, or a combination of these.

#### Requirements for Admission to Graduate Study in History

1. General admission to graduate study.
2. Completion of an undergraduate major or minor in history.
3. A minimum standing of 3.0 on all undergraduate history courses above the freshman level.
4. General proficiency in the social sciences.

#### Requirements for the Degree

The student is permitted a choice of programs for the attainment of the degree, and it is recommended that he seek the advice of the graduate coordinator in selecting his option. The History Department recommends that students expecting to seek a terminal degree select *Plan A*.

The Options Offered the Student are as Follows

##### PLAN A

- \*1. Completion of a minimum of 30 semester hours of approved graduate work in history. At least 15 hours of the history credit must be earned in courses open only to graduate students.
2. Completion of an approved thesis.
3. A reading knowledge of a modern foreign language.

##### PLAN B

- \*1. Completion of a minimum of 30 semester hours of approved graduate work in history. At least 15 hours of the history credit must be earned in courses open only to graduate students.
2. A written comprehensive examination over the course work.
3. Completion of an approved thesis.

##### PLAN C

- \*1. Completion of a minimum of 30 semester hours of approved graduate work in history. The student is required to enroll in a minimum of two 600 level seminar courses involving different instructors, in which he will be required to write substantial research papers. The student will indicate at the time he enrolls in the courses his intention to write the required papers. The papers will be accepted upon the recommendation of two members of the history faculty, one of whom must be the instructor in the course. Copies of the accepted papers will be filed in the department office for future reference. The two courses in which the papers are written will count as six of the required 15 hours of

history credit which must be earned in courses open only to graduate students.

2. A written comprehensive examination over the course work.
3. A reading knowledge of an approved foreign language.

##### PLAN D

- \*1. Completion of a minimum of 33 semester hours of approved graduate work in history. The student is required to enroll in a minimum of two 600 level seminar courses involving different instructors, in which he will be required to write scholarly research papers. The student will designate at the time he enrolls in the course as to whether or not he wishes to research in this particular area or field. The papers will be accepted upon the recommendation of two members of the history faculty, one of whom must be the instructor in the course. Copies of the accepted papers will be filed in the department office for future reference. The two courses in which research is carried out will count as six of the required 15 hours of history credit which must be earned in courses open only to graduate students.
2. A written comprehensive examination over the course work.

\*The total hours include the credit allowance for the thesis and a maximum of six hours which may be taken in a cognate area with the approval of the department.

### Sociology

#### For the Master of Arts Degree

Students working toward the Master of Arts degree in sociology must have earned a minimum of 18 semester hours of undergraduate work in sociology from an accredited institution of higher education. The applicant must also have earned a quality-point average of 3.0 on all sociology courses taken subsequent to the freshman year.

Those who have graduated from non-accredited institutions, have not maintained the 3.0 average quality point standing, or have not completed 18 semester hours of undergraduate credit in sociology may gain admission to this program by successfully completing one or more of the following:

1. Entrance examinations prepared and administered by the sociology graduate faculty of the School of Social Sciences.
2. Satisfactory scores on the Graduate Record Examination.
3. An interview by the admissions committee of the Department of Sociology.

#### Admission to Candidacy

To be admitted to candidacy, a student must have a satisfactory score on the Graduate Record Examination and have achieved a 3.0 or higher quality-point average on a minimum of 12 graduate hours of sociology completed at Morehead State University.

#### General Program Requirements

In addition to meeting all requirements of a general nature set by the University for the Master of Arts degrees, all students must take Sociology 615, Seminar in Sociological Research, and Sociology 650, Sociological Thought and Theory and complete one of the following programs:

##### PLAN A

- \*1. Completion of a minimum of 30 semester hours of approved graduate work in sociology. At least 12 hours of the sociology credit must be earned in the courses open only to graduate students.



2. Completion of an approved thesis.
3. A reading knowledge of a modern foreign language.

#### PLAN B

- \*1. Completion of a minimum of 30 semester hours of approved graduate work in sociology. At least 12 hours of the sociology credit must be earned in courses open to graduate students only.
2. A written comprehensive examination over the course work.
3. Completion of an approved thesis.

#### PLAN C

- \*1. Completion of a minimum of 30 semester hours of approved graduate work in sociology. At least 12 hours of the sociology credit must be earned in courses open only to graduate students and must include a research seminar in sociology.
2. A written comprehensive examination over the course work.
3. A reading knowledge of an approved foreign language.

#### PLAN D

- \*1. Completion of a minimum of 33 semester hours of approved graduate work in sociology. At least 15 hours of sociology credit must be earned in courses open only to graduate students and must include a research seminar.
2. A written comprehensive examination over the course work.

\*The total hours include the credit allowance for the thesis and a maximum of six hours which may be taken in a cognate area with the approval of the department.

### Corrections Option

1. This option includes 18 hours of sociology, 6 of which must be Sociology 615 and 650.
2. In addition, 18 hours must be in corrections, of which 12 hours will be devoted to a practicum.

### Gerontology Option

1. Completion of a minimum of 27 semester hours of approved graduate work in sociology, of which nine must be a professional practicum in social agencies or independent research.
2. Completion of a minimum of 9 semester hours in an approved cognate area.

Students writing a thesis must sit for a final oral examination before a committee composed of at least three faculty members chosen from the sociology graduate faculty. The candidate's advisor or director of his or her research shall be one of the committee members. Success or failure in the oral examination will be determined by a majority of the examining committee. If a second examination is needed, the same committee shall, if at all possible, examine the candidate. There will be no third oral examination.

A maximum of 10 years will be allowed for completion of this degree.

## History

### Course Offerings

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

**History 540. Colonial America. (3-0-3); I.** The nation from the Age of Discovery to the Revolutionary Wars.

**History 541. American Revolution and Federal Period. (3-0-3); II.** A continuation of 540, covering the period from the American Revolution to the Era of Good Feelings.

**History 543. The United States, 1876-1900. (3-0-3); II.** Emphasis is placed upon the rise of big business with its resultant epoch of America as a world power.

**History 545. The United States, 1900-1939. (3-0-3); I.** The American people from the Progressive Period through the New Deal.

**History 546. The United States, 1939-1970. (3-0-3); II.** America from World War to world leadership. Emphasis is placed upon the resultant social problems.

**History 548. United States Foreign Relations. (3-0-3); I.** A survey designed to acquaint the student with the foreign relations of the United States from its conception to our present role in the United Nations.

**History 549. American Life and Thought. (3-0-3); I.** A survey of the American intellectual heritage from Puritanism to the "mod" world.

**History 550. The World, 1914-1939. (3-0-3); I.** A study extending from the results of World War One to the outbreak of the Second World War with special emphasis on communism, facism and nazism.

**History 551. Religion in American History. (3-0-3); II.** Religion in all facets of American history: cultural, secular and institutional. The role of religion in the molding of our nation.

**History 552. The World, 1939 to the Present. (3-0-3); II.** A detailed study of World War II and the aftermath of a world divided.

**History 555. European Intellectual History. (3-0-3); I.** The stream of European thought from the French Revolution to the Atomic Age.

**History 558. The Slavery Controversy. (3-0-3); I, III.** The issues growing out of differences concerning slavery within voluntary societies.

**History 576. American History: Directed Readings. (One to three hours); I, II, III.**

Prerequisite: Open only to history majors and minors with permission of the chairman.

**History 577. European History: Directed Readings. (One to three hours); I, II, III.**

Prerequisite: Open only to history majors and minors with permission of the chairman.

**History 578. Non-Western History: Directed Readings. (One to three hours); I, II, III.**

Prerequisite: Open only to history majors and minors with permission of the chairman.

**History 580. American Business History (3-0-3); I.** Early colonial commerce; rise of big business; monopoly and antitrust laws; the labor movement, agricultural development; government and the economy; foreign policy and trade; effects of war; business cycles; basic principles of the American economy.

**History 610. American Biography. (3-0-3).** The characteristics of and services rendered by men and women who have played leading roles in the history of the nation.

**History 630. European Historiography. (3-0-3).** The development of history as a written subject; the works of European historians from Herodotus to the contemporary scene.

**History 632. The French Revolution. (3-0-3).** study of the changing interpretations of the French Revolution.

**History 638. The Negro in the 20th Century. (3-0-3).** The Negro's world from a sociological, economic, political and historical point of view.

**History 640. American Historiography. (3-0-3).** An analysis of the works of prominent American historians from the colonial period to the present.

**History 643. Seminar: The United States — Formative Years (1763-1815). (3-0-3).**

**History 644. Seminar: The Sectional Controversy (1846-1876). (3-0-3).**

**History 645. Seminar: Twentieth Century United States. (3-0-3).**

**History 646. Seminar: Emerging America (1876-1900). (3-0-3).**

**History 647. Seminar: The Jacksonian Era. (3-0-3).**

**History 650. Seminar: Latin-America. (3-0-3).**

**History 653. Seminar: British Studies. (3-0-3).**

**History 660. Seminar: The World in the 20th Century. (3-0-3).**

**History 670. Seminar: Africa. (3-0-3).**

**History 676. Independent Study. (One to three hours.)** Individually planned study on a particular topic. Program to be approved by head of the department.

**History 680. American History for Teachers. (3-0-3).** Designed as a "refresher" in content, interpretations of history and method, for the public school teacher.

**History 682. World History for Teachers. (3-0-3).** A detailed review and study of world civilization including the evaluation of historical values and teaching methods.

**History 684. The Improvement of Social Studies Instruction. (3-0-3).** Designed as a seminar to permit public school teachers to develop and to exchange ideas, strategies, techniques, and materials.

**History 699. Thesis. (One to six hours).** Required of all candidates for the M.A. in history enrolled in option A or B.

## Sociology

### Course Offerings

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

**Sociology 501. Criminology. (3-0-3); I, II, III.** Cause, treatment, and prevention of crime.

**Sociology 505. Sociological Theory. (3-0-3); I, II.** Modern sociological theory, including an introduction to basic theoretical approaches to the study of society and a survey of contributions to the field by major theorists.

**Sociology 510. Advanced General Sociology. (3-0-3); I.** This course is designed to give sociology majors an integrated perspective of the discipline and to provide an advanced introduction to graduate students entering sociology from related disciplines.

**Sociology 515. Advanced Family Analysis. (3-0-3); II.** An intensive analysis of the family in its social context. Emphasis is placed upon social interaction within the family, socio-economic and socio-cultural factors which bear influence upon it, and the relationship of the family to the total social system.

**Sociology 525. The Community. (3-0-3); on demand.** The general character of community relations in society; the structure and function of the community as a social system and the processes of balancing community needs and resources; the planned and unplanned social change.

**Sociology 540. Gerontology. (3-0-3); II.** (See Social Work 540.)

**Sociology 545. Death and Dying. (3-0-3); on demand.** The analysis of death and dying as social process and problems and strategies for working with dying persons. (See Social Work 545.)

**Sociology 550. Research Methodology. (3-0-3); I, II, III.** Methods of sociological research including the fundamental assumptions underlying research; some practical experience in research design, data collection, techniques, and data analysis.

**Sociology 600. Independent Research. (One to three hours); I, II.** Qualified students may arrange with staff for individual work on some particular sociological problem. Credit hours will depend on the quality and quantity of achievement by the student.

**Sociology 601. Criminological Theory. (3-0-3).** An intensive analysis of the major areas of criminological theory. Primary emphasis is placed upon contemporary theoretical issues.

**Sociology 603. Appalachian Sociology. (3-0-3); I.** A study of major Appalachian social institutions including the family, religion, education, the economy and government; a survey of health and welfare institutions, major value orientations, population characteristics and social change.

**Sociology 605. Seminar in Social Psychology. (3-0-3); I.** An examination of the historical background, basic assumptions, and theories of contemporary social psychology.

**Sociology 610. Western Cultural Heritage. (3-0-3).** Research course dealing with the contributions of ideas and technology made to Western culture by earlier civilizations.

**Sociology 615. Seminar in Sociological Research. (3-0-3); II.** Advanced study in behavioral research methodology; empirical generalizations, proposition formation and analysis, data gathering and interpretation, instrumentation, scaling techniques and supervised application of methods.

**Sociology 620. Educational Sociology. (3-0-3); I.** Contributions of sociology to understanding education as a social process. Sociological concepts and principles are used to point up crucial problems in education.

**Sociology 625. Seminar in Deviance. (3-0-3); II.** Analysis of deviance as social behavior. Emphasis is placed upon acquisition of an understanding of the major sociological theories of deviance.

**Sociology 630. Social Stratification: Basic Issues. (3-0-3); II.** A critical analysis of the theories and issues of social inequality.

**Sociology 635. Seminar in Complex Organization. (3-0-3); II.** An analysis of organizations as social systems. An inquiry into bureaucratic developments in educational, industrial, military, and welfare institutions.

**Sociology 640. Seminar in Social Policy in Aging. (3-0-3).** This course is designed for the graduate student to develop knowledge of federal, state, and local programs which relate directly to the field of gerontology. Specifically, the course demonstrates how federal, state, and community programs affect the welfare of senior citizens.

**Sociology 650. Sociological Thought and Theory. (3-0-3); I.** An intensive study of certain selected pioneer sociological theorists such as Weber, Durkheim, Marx and contemporary theorists.

**Sociology 690. Graduate Practicum in Gerontology. (0-0-9).** Designed to provide the graduate student actual work experience in community agencies providing services to the aging. The practicum will be under the supervision of trained and certified professionals in the field.

**Sociology 698. Research Seminar. (3-0-3).** May be taken by candidates for the M.A. in sociology enrolled in Plan C or D. The candidate must write and present a formal research paper.

**Sociology 699. Thesis. (One to six hours.)** Students electing to write a thesis for the M.A. program will work under the supervision of a faculty member and must present a thesis approved by the graduate faculty.

## Social Work

**Social Work 500. Special Problems (1-3); I, II, III.** Arranged with department to study a particular topic in the social work field.

**Social Work 510. Practicum in Social Work. (0-0-6); I, II, III.** Actual work experiences in the various agencies of social welfare under supervision of a trained and certified professional worker. Comparable to student teaching in professional education.

**Social Work 515. Correctional Counseling. (3-0-3); II.** (See Corrections 515.)

**Social Work 520. Administration and Management. (3-0-3); I.** The history, nature, organizational structure, and philosophy of the administration of public programs of income maintenance and other welfare services, consideration of the role of voluntary agencies.

**Social Work 525. Social Work Advanced Skills. (3-0-3); I, II.** The course is designed to give the student an understanding of how the application of the basic social work problem-solving methods and systems analysis are applied to group work and community organization.

**Social Work 530. Social Policy and Planning. (3-3-3); II.** An analysis of basic issues and principles underlying social welfare services.

**Social Work 535. Group Dynamics. (3-0-3); I.** This course is designed to give the student an understanding of group method and the theories underlying the use of groups in the helping process. Special emphasis will be given to the processes that affect the development and functioning of all types of groups.

**Social Work 540. Gerontology: Problems and Services to the Aging. (3-0-3); I, II.** An analysis of aging designed to provide the student with a knowledge of the special factors involved in the aging process as well as the social work techniques designed to aid such individuals to cope with the changes inherent in the aging process.

**Social Work 545. Death and Dying. (3-0-3); on demand.** The analysis of death and dying as social process and problems and strategies for working with dying persons. (See Sociology 545.)

**Social Work 550. Research Methodology. (3-0-3); I, II, III.** (See Sociology 550.)

## Corrections

**Corrections 501. Criminology. (3-0-3); I, II, III.** (See Sociology 501.)

**Corrections 502. Readings in Corrections. (One to three hours) A** critical analysis of research literature on crime causation and control. Emphasis is placed upon theoretical contributions and methodological foundations.

**Corrections 510. Law of Corrections. (3-0-3); on demand.** An analysis of civil law in the United States related to the protection of society, the accused and adjudicated offender, and the administration of justice.

**Corrections 515. Correctional Counseling Services. (3-0-3); II.** The basic concepts and principles involved in interviewing, counseling, group therapy, etc., which are employed in correctional facilities.

**Corrections 550. Research Methodology. (3-0-3); I, II, III.** (See Sociology 550.)



**Corrections 590. Practicum in Corrections. (0-0-6); II, III.** The course consists of practical experience in a jail, detention home, juvenile or adult correctional institution, juvenile or adult probation and parole agency, or other related agency. A minimum of twenty hours per week will be spent working at the assigned agency.

**Corrections 601. Criminology Theory. (3-0-3); on demand.** (See Sociology 601.)

**Corrections 606. Seminar in Juvenile Corrections. (3-0-3).** A critical examination of theory, methods, and trends in the treatment of juvenile delinquency. Emphasis will be on both institutional and community-based juvenile corrections.

**Corrections 610. Seminar in Correctional Administration and Management. (3-0-3).** This course is designed to acquaint the graduate student with the role of administration in correctional settings. Specifically, the student will learn prisoner management, institutional budgeting, staff development, and community relations.

**Corrections 625. Seminar in Deviance. (3-0-3); II.** (See Sociology 625.)

**Corrections 690. Graduate Practicum in Corrections. (0-0-12).** The course consists of concentrated practical experience in a jail, detention facility, juvenile or adult correctional institution, juvenile or adult probation and parole agency, or other related agency. A minimum of forty hours per week will be spent working at the assigned agency.

## Political Science

**Political Science 500. Pressure Groups and Politics. (3-0-3).** Prerequisite: Political Science 141 or consent of the instructor. Theory of interest groups; the role of interest groups in the political process; group ideology; techniques of political propaganda.

**Political Science 505. Politics of Ecology. (3-0-3); II.** A political analysis of the problems of the environmental crises.

**Political Science 510. Law of Corrections. (3-0-3); on demand.** (See Corrections 510.)

**Political Science 540. Public Administration. (3-0-3); I.** Prerequisite: Political Science 141 or consent of the instructor. Historical evolution; theory of organization and administration; personnel, financial, and legal aspects of public administration.

**Political Science 541. Public Finance. (3-0-3); I.** (See Economics 541.) Public expenditures; public revenue; taxation; public credit, financial administration of government.

**Political Science 546. Public Personnel Administration; (3-0-3); II.** Prerequisite: Political Science 540 or consent of the instructor. Manpower utilization; concepts, principles and practices of the merit system; leadership; decision-making process; motivation of public employees.

**Political Science 555. Internship in Public Affairs. (One to six hours.)** Prerequisite: Consent of the instructor. On-the-job work-study experience in government.

**Political Science 600. Seminar: State and Local Government. (3-0-3).** Prerequisites: Political Science 141 and 242 or consent of the instructor. Intensive and detailed study of state and local government problems of metropolitan areas; interstate and local cooperation; compacts and regional planning.

**Political Science 610. Development of American Democracy. (3-0-3).** Prerequisite: Political Science 141 or consent of the instructor. Ideas, institutions, customs and experiences in the development of American democracy as well as European influences.

**Political Science 620. Seminar: International Relations. (3-0-3).** Prerequisite: Political Science 550 or consent of the instructor. Training in methodology and use of the tools for individual research in international relations. Emphasis on Europe, Asia, Latin America, and Africa.

**Political Science 630. Contemporary World Problems. (3-0-3).** Historical, physical, cultural and political factors underlying current international issues; the United Nations, and other contemporary international agencies and arrangements.

**Political Science 660. Politics in Education. (3-0-3).** Comparative case studies and discussion of policy outputs, (curriculum, facilities, budget) and who wields influence in American school politics.

**Political Science 676. Special Problems in Political Science. (One to three hours.)** Prerequisite: Consent of the instructor. Original graduate research

project or readings in a particular subject area. Classes arranged for studying a particular problem.

## Geography

**Geography 500. Soviet Union. (3-0-3); I.** Systematic and regional study, with special attention given to the resource base. Appraisal of the agricultural and industrial strength of the country; consideration of the effects of governmental policy and economic growth.

**Geography 502. Geographic Factors and Concepts. (3-0-3).** A general survey of the field of geography in its various branches. Designed for beginning teachers and other students lacking an adequate background for advanced work in geography.

**\*Geography 505. Conservation of Natural Resources. (3-0-3).** Natural resources basic to human welfare, emphasis on lands, water, minerals, forests, and wildlife, including their interrelationships.

**\*Geography 510. Urban Geography. (3-0-3); II.** Origin and development of cities, urban ecology, central place theory, functional classifications, and a consideration of site, situation, and land utilization of selected cities.

**Geography 515. Seminar. Geography Field Tour. (0-0-3).** Geographic reconnaissance of selected regions. Directed reading and briefing sessions followed by lecture and observation in the field; interpretation and analysis for a written report.

**\*Geography 540. World Manufacturing. (3-0-3).** Interpretive analysis of the distribution and function of selected manufacturing industries; location theory; trends in regional industrial changes.

**Geography 550. Geography for Teachers. (3-0-3).** A study of the basic concepts, materials and techniques for the teaching of geography.

**\*Geography 590. Advanced Meteorology. (3-0-3); II.** Prerequisite: Geography 390. Weather elements; emphasis on meteorological skills; application to industrial, aviation, maritime, and military needs.

**Geography 600. Political Geography. (3-0-3).** Recognition of content and concepts of political geography; basic factors in evaluating strength of a nation; application of these understandings to world political patterns.

**Geography 601. Special Problems. (3-0-3).** Prerequisite: Permission of the instructor. Supervised comprehensive investigation of selected problems in the field of geography. (May be repeated to a maximum of six hours).

**Geography 623. Southeast Asia. (3-0-3).** Geopolitical, socio-economic, and resource potential problems of the countries of Southeast Asia.

**Geography 629. The Mediterranean. (3-0-3).** The Mediterranean Sea as a focal point of Western culture, emphasis on the related areas of three continents. Southern Europe, Northern Africa, and Southwest Asia.

**Geography 631. Cultural Europe. (3-0-3); II.** A culturally-oriented study of Europe, which is really not a continent in the traditional sense, but whose boundaries can best be defined in HUMAN terms. Emphasized are European life-and-thought patterns, which are the heritage of a great majority of Americans.

**Geography 640. Resources and Industries. (3-0-3).** The resource base, nature, structure, and distribution of industry and its function in a national economy.

**Geography 676. Independent Study. (One to three hours); I, II, III.** Self-directed independent study of a special problem or topic in geography. The proposed topic must be submitted in writing and be approved by the department head and a faculty member who will supervise the study.

\* Indicates Systematic Geography courses.



## ADMINISTRATIVE STAFF

### Board of Regents

W. H. Cartmell, Maysville  
 Lloyd Cassity, Ashland  
 Jerry F. Howell, Jackson  
 Sam F. Kibbey, Ashland  
 Cloyd McDowell, Harlan  
 B. F. Reed, Drift  
 James M. Richardson, Owingsville  
 Daniel H. Stamper, Pikeville  
 Charles J. Pelfrey, Faculty Representative  
 Evan Perkins, Student Representative

### Officers of the Board

Lloyd Cassity, Chairman  
 Jerry F. Howell, Vice Chairman  
 Carol Johnson, Secretary  
 John Graham, Treasurer

### President's Office

Morris Norfleet, President  
 Adron Doran, President Emeritus

### Academic Affairs

John R. Duncan, Vice President for Academic Affairs and Dean of the Faculty  
 Betty Jo Hicks, Administrative Assistant  
 William B. Pierce, Dean of Academic Programs  
 David Michael Mincey, Assistant to the Academic Dean  
 Reedus Back, Dean of Graduate Programs  
 John Phillip Shreves, Assistant to the Graduate Dean  
 John Kleber, Director of Honors Program  
 Wayne Morella, Director of Field Career Experiences  
 Jack Ellis, Director of Libraries  
 Steve Taylor, Director of Testing Center  
 Jerry R. Franklin, Registrar  
 Stephen A. Wright, Associate Registrar  
 Mary Ella Wells, Assistant Registrar  
 Wanda Bigham, Director of TRIO Center  
 Carolyn Flatt, Director of Personal Development Institute  
 Lt. Colonel Edward J. Balda, Professor of Military Science  
 Charles M. Derrickson, Dean, School of Applied Sciences and Technology  
 William M. Whitaker, III, Dean, School of Business and Economics  
 James H. Powell, Dean, School of Education  
 Johnson E. Duncan, Dean, School of Humanities  
 Charles Payne, Dean, School of Sciences and Mathematics  
 Alban Wheeler, Dean, School of Social Sciences  
 William C. Hampton, Director of Reading Center  
 Frank Burns, Director of University Breckinridge School

## Fiscal Affairs

John Graham, Director of Fiscal Affairs  
 Glen Boodry, Director, Physical Plant  
 Ival D. Bryant, Director of Office Services  
 Gene Caudill, Accountant  
 Virginia Caudill, Director of Payrolls  
 John Collis, Manager, University Store  
 Bernard Ewers, Director, Alumni Tower Cafeteria  
 William C. Ewers, Director, Food Services  
 Art Kelly, Director, Maintenance Services  
 William Mahaney, Director, Data Processing  
 Larry Joe Planck, Accountant  
 Timothy Rhodes, NDSL Coordinator  
 Wesley J. Sage, Postmater  
 Steve Schafer, Federal Programs Accountant  
 Robert W. Stokes, Director of Purchasing  
 Vinson Watts, Director of Non-Academic Personnel  
 Jean Wells, Director, Adron Doran University Center Cafeteria

## Research and Development

Philip W. Conn, Vice President for Research and Development  
 Carole C. Morella, Director of Federal and State Relations  
 George W. Eyster, Director of Human Resource Development

## Student Affairs

Buford Crager, Vice President for Student Affairs  
 Larry Stephenson, Dean of Students  
 Clyde I. James, Associate Dean of Students  
 Gene Ranvier, Associate Dean of Students  
 Anna Mae Riggle, Associate Dean of Students  
 Jerry Gore, Assistant to Dean of Students  
 Elmer D. Anderson, Director of Student Financial Aid & Asst. to the President  
 Sherman Arnett, Associate Director of Student Financial Aid  
 Ronald L. Walke, Associate Director of Student Financial Aid  
 Elvira Gregory, Coordinator of V.C.I.P.  
 Jim Morton, Director of Housing  
 Madonna Huffman, Associate Director of Housing for Women  
 Kenny White, Associate Director of Housing for Men  
 Dan Collins, Director of Refrigerator & Television Rental Program  
 Neal Brittain, Director of Security  
 Jack Henson, Director of Adron Doran University Center  
 Wilma H. Caudill, Director of Nursing Services

### **Athletics**

G. E. Moran, Jr., Director of Athletics  
J. E. Allen, Assistant Director of Athletics  
Laradean Brown, Coordinator of Women's Athletics

### **Institutional Services**

Rondal D. Hart, Dean of Institutional Services  
Carol Holt, Director of Placement Services  
William A. Bradford, Director of Admissions  
Bill Fair, Assistant Director of Admissions  
Charles Myers, Director of School Relations  
John High, Associate Director of School Relations  
Don B. Young, Director of Alumni Relations  
William T. Rosenberg, Director of Media Services  
M. E. Keller, Director of Communication Services  
Leslie Davis, Director of Engineering Services

### **Planning**

Charles Hicks, Director of Planning

### **Public Information**

Keith Kappes, Director of Public Information  
George Burgess, Director of Photographic Services  
Martin Huffman, Director of Printing Services  
Jack Rohr, Assistant Director of Printing Services  
Ned Adamson, Director of News Services  
Mary Bragg, University Editor

## INDEX

- Academic Regulations — 9
- Accounting — 13
- Accreditation, University — ii
- Administration, Supervision and Secondary Ed. — 24
- Administrative Staff — 46
- Admission — 8
- Adult, Counseling and Higher Ed. — 19
- Adult and Continuing Education — 16
- Advisors — 7
- Agriculture — 10
- Alumni Association — 6
- Applied Sciences and Technology — 10
- Art — 32
- Assistantships — 6
- Biology — 38
- Board of Regents — 46
- Business Administration — 13
- Business and Economics — 13
- Business Education — 13
- Calendar — 3
- Campus Description — 4
- Candidacy, Admission to — 9
- Certification for Teachers — 19
- Change of Program — 8
- Chemistry — 41
- Commencement — 9
- Communications — 33
- Computing Services — 6
- Corrections — 43
- Counselor Education — 19
- Course Load — 9
- Course Numbering System — 7
- Degrees — 7
  - Listing — 7
  - Requirements, General — 9
  - Second Master's — 9
  - Time Limitation — 9
- Doctoral Program, Joint — 25
- Economics — 15
- Education — 16
- Elementary and Early Childhood Ed. — 16
- English — 34
- Examinations, National — 6
- Expenses — 7
- Fees — see Expenses
- Fifth Year Program — 16
- Fine Arts — 32
- Financial Aid — 7
- French — 36
- Geography — 45
- Geoscience — 41
- Gerontology — 43
- Grades — see Marking System
- Graduation Requirements — see individual program
- Health, Physical Ed. and Recreation — 16
- Higher Education — 16
- History, Courses in — 42
- History of the University — 4
- Home Economics — 10
- Housing — 6
- Humanities — 32
- Industrial Education — 11
- Journalism — 33
- Languages and Literature — 32
- Library — 6
- Library Science and Instructional Media — 30
- Marking System — 7
- Master's Degrees — 7
  - Program Objectives — 7
- Mathematics — 40
- Memberships, University — ii
- Music — 36
- Music Education — 36
- Off-Campus Courses — 8
- Philosophy — 37
- Physical Education, Courses in — 29
- Physical Sciences — 41
- Physics — 41
- Placement Service — 6
- Political Science — 45
- Post Master's Programs — 22
- Principals, Programs for — 24
- Professional Education — 25
- Program Change — 8
- Psychology — 16
- Psychology and Special Education — 20
- Pupil Personnel Director's Program — 23
- Purposes, University — 4
- Radio-Television — 34
- Rank I — 22
- Reading Specialist Endorsement — 18
- Recreation, Courses in — 30
- Regulations and Practices — 9
- Residency Status — 5
- School Business Administrator — 19
- School Librarians — 18
- School Superintendent's Program — 24
- School Supervisor's Program — 23
- Science Education — 41
- Sciences and Mathematics — 38
- Secondary Education — 18
- Social Sciences — 42
- Social Work — 44
- Sociology — 42
- Spanish — 36
- Special Education — 18
- Specialist in Education — 24
- Speech — 34
- Students' Rights in Access to Records — 5
- Testing Services — 6
- Theatre — 34
- Thesis — 9
- Transfer Credit — 9
- Transient Students — 8
- Unclassified Students — 8
- Vocational Education — 10



