The Spirit Makes The Master

PREPARED BY
COLLEGE HEIGHTS FOUNDATION
IN COMMEMORATION OF WESTERN'S 50TH ANNIVERSARY 1936

Graduate Studies Issue

1995 - 1997
WESTERN KENTUCKY UNIVERSITY

Accreditation
Western Kentucky University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate, baccalaureate, master's and specialist degrees.

Membership
The Council of Graduate Schools in the United States Association of State Colleges and Universities
American Association of Colleges for Teacher Education
American Association of University Women
American Council on Education
National League for Nursing

Professional Accreditation
National Council for Accreditation of Teacher Education
National Association of Schools of Music
American Chemical Society
Council on Accreditation of the National Recreation and Park Association
Computer Science Accreditation Commission
American Speech - Language - Hearing Association

Western Kentucky University Bulletin (USPS678-620) is published quarterly by Western Kentucky University, Bowling Green, Kentucky 42101. Entered as second class matter at the Post Office, Bowling Green, Kentucky 42101.

Volume 74,
Number 2
February 1995

All statements in this publication are announcements of present policy only and are subject to change at any time without prior notice. They are not to be regarded as offers to contract.

POLICIES AND PROCEDURES

The Office of Graduate Studies and all colleges and departments of the university have policies and procedures that must be met before a degree is granted. These requirements are described in this bulletin and in program documents provided by the academic departments.

Student Responsibilities

The student is responsible for becoming informed of and for fulfilling all degree-related requirements. If requirements for graduation have not been met, the degree will not be granted. In no case will a regulation be waived or an exception granted because a student pleads ignorance of the regulation.

Appeal of Graduate Regulations

The Graduate Council, which represents the graduate faculty, reviews and recommends policies pertinent to the graduate program. In that capacity, the Graduate Council functions as the hearing body for requests for waiver of graduate policies and regulations.

Requests for waiver of Graduate Studies regulations such as minimum admission requirements, time limit for program completion, candidacy requirements, etc., that apply to all graduate programs are considered by the Graduate Council. The student must present the request in writing, along with supportive documentation, to the Office of Graduate Studies. The appeal is then submitted to the Graduate Council for the decision. The Office of Graduate Studies informs the student of the outcome.

Requests for waiver of departmental graduate requirements such as higher grade point average, undergraduate preparation, prior certification, demonstrated performance, etc., that are unique to the particular program are considered by the departmental graduate committee. The student must present the request in writing to the graduate advisor or department head for consideration by the departmental graduate committee. The graduate advisor or department head informs the student of the outcome. If the student is not satisfied with the departmental committee's decision, the appeal is then considered by the college graduate committee. The college graduate committee chair informs the student of the outcome. In the event that the student is not satisfied with the college committee's decision, the appeal will be acted upon by the Graduate Council. The Office of Graduate Studies informs the student of the outcome.

Students appealing admission denials should consult the catalog statement on Admission Requirements: Master's Degree.

Student Complaint Procedure

The University student complaint procedure for resolving complaints concerning a faculty member is outlined in the general University Bulletin.

STATEMENT OF COMPLIANCE

Western Kentucky University does not discriminate on the basis of race, color, national origin, sex, age, religion or disability, and provides, on request, reasonable accommodations including auxiliary aids and services necessary to afford an individual with a disability an equal opportunity to participate in all services, programs and activities.

If you have experienced discrimination in such educational programs or activities, written inquiries about procedures that are available at the University for consider-
ation of complaints alleging such discrimination should be directed to the President's Office, Western Kentucky University, Bowling Green, Kentucky 42101. Inquiries about such alleged discrimination also may be made directly to the Director, Office of Civil Rights, United States Department of Health, Education, and Welfare, Washington, D.C. 20201.

Inquiries about employment discrimination may be directed to the appropriate Affirmative Action Officer, Western Kentucky University, Bowling Green, Kentucky 42101, or The Commission on Human Rights, Commonwealth of Kentucky, 828 Capital Plaza Tower, Frankfort, Kentucky 40601, or Equal Employment Opportunity Commission, 1800 G Street, NW, Washington, D.C. 20506, or Office of Federal Contract Compliance, United States Department of Labor, Washington, D.C. 20210.

Directory (Area Code 502)

Departmental office numbers listed in the respective departments

Graduate Studies ....................... 745-2446 Fax: 745-5442
College of Arts, Humanities, and Social Science ........ 745-2344 Fax: 745-5734
College of Business Administration ....................... 745-3893 Fax: 745-3893
College of Education and Behavioral Sciences .......... 745-4662 Fax: 745-6474
College of Science, Technology, and Health ............... 745-4448 Fax: 745-6471
Registrar's Office .................................. 745-3351 Fax: 745-6830
Certification Office ................................... 745-2124
Testing Arrangements
(GRE, etc) ........................................ 745-3159
Financial Aid ....................................... 745-2755 Fax: 745-6586
Veterans Educational Benefits ................................ 745-5482
Extended Campus Programs ............................... 745-5305
Owensboro ........................................... 684-9797
Glasgow ............................................... 851-6399
Fort Knox ............................................. 942-8381
Housing Office ...................................... 745-4359
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The University

THE UNIVERSITY

Historical Sketch

Western Kentucky State Normal School, Bowling Green, was established by an act of the 1906 Kentucky General Assembly. Prior to 1906, there had existed in Bowling Green the Southern Normal School and Bowling Green Business University, whose president was Dr. Henry Hardin Cherry. In 1907 the Southern Normal School was transferred to the state, and Dr. Cherry was selected as the first president of Western Kentucky State Normal School. In 1922 the Kentucky Legislature changed the school's name to Western Kentucky State Normal School and Teachers College and empowered the College to award degrees to its graduates. In 1930 the school's name was changed to Western Kentucky State Teachers College, and in 1948 to Western Kentucky State College. The Kentucky General Assembly in 1966 designated Western as a University and changed the name to Western Kentucky University.

Western began offering the Master of Arts Degree in 1931. This program was discontinued in 1936 but was resumed in 1941. The granting of university status in 1966 gave the Graduate School (renamed the Graduate College in 1969) increased opportunity both to strengthen existing programs and to offer an even wider choice of programs. In 1992 the Graduate College was renamed Graduate Studies.

Mission

Western Kentucky University offers a broad spectrum of instruction, scholarly activity, and professional service within an academic climate encouraging intellectual excellence.

Western Kentucky University provides instruction at the associate, baccalaureate, and graduate levels in the liberal arts and sciences, traditional pre-professional programs, and emerging career areas and professional fields including agriculture, business, communication, education, health, and technology. The University supports diverse scholarship, including basic and applied research and creative activity, in order to expand knowledge, improve instruction, and serve its varied clientele. The University directly supports its constituents with professional and technical expertise, cultural enrichment, and educational assistance.

Western Kentucky University affords educational opportunities in a climate that recognizes human diversity. The University is committed to increasing access for both traditional and nontraditional students, and to improving education at all levels. Finally, Western Kentucky University recognizes that its mission continues to evolve in response to regional, national, and global changes.

The Office of Graduate Studies

The Dean of Graduate Studies is charged with the administration of policies regulating and relating to graduate studies. It is his/her responsibility to certify that candidates have fulfilled requirements for advanced degrees.

The Graduate Faculty consists of faculty members recommended by department heads and college deans, and approved by the Graduate Council.

The Graduate Council, which represents the Graduate Faculty, recommends and reviews policies pertinent to the operation of the Graduate Studies area. In addition, it regularly reviews admission requirements and makes recommendations regarding new graduate programs and alterations of existing programs.

University Libraries

Four library and resource centers serve the academic community at Western Kentucky University. They are (1) Helm-Cravens Library, (2) Kentucky Library and Museum, (3) Educational Resources Center, and (4) the Glasgow Campus Library. The University Libraries collection includes more than one-half million books, 100,000 volumes of periodicals and 1.2 million government documents. Approximately 10,000 books are added to the collection annually, and the library subscribes to 5,000 serials and more than 300 electronic databases.

The Helm-Cravens Library constitutes the main library complex. Located near the center of campus, it houses the major portion of the University Libraries circulating book collection, as well as the main print and electronic reference area, periodicals collection, the government documents and law collections, the main circulation and reserve desks, the Extended Campus Library Services office, and the technical services unit for the University Libraries.

The Kentucky Library and Museum is located in the Kentucky Building. Also in the Kentucky Building are the Manuscripts and Folklore Archives collections. These study and research collections are non-circulating and consist of both printed materials and museum collections relating to all phases of Kentucky life. The Museum is involved year-round in events such as exhibits, workshops, and lectures designed for the University community and the general public.

The Educational Resources Center is located on the third floor of Tate C. Page Hall. The ERC provides information required for academic and enrichment activities and serves as a repository for curriculum and professional materials and resources which support programs of the College of Education and Behavioral Sciences.

The Glasgow Campus Library, located on the WKU Glasgow Campus, provides reference assistance to students at the Glasgow campus.
The University Libraries provide the following special services to graduate students: graduate carrels, for those engaged in thesis or research projects; interlibrary loan service at no charge; and online computer search service at cost. Students taking classes at remote locations through the WKU Extended Campus program may use the WKU Libraries special toll-free number to request materials or reference assistance. A cooperative agreement is maintained with the Learning Resources Center at the Owensboro Community College to assist WKU students in that area.

Printed guides describing the many services and collections available in the WKU Libraries may be obtained at each service area or branch.

Academic Computing and Research Services

The Academic Computing area provides support for instruction and research through the DEC VAX mainframe as well as seven general access student computer labs.

The Student Technology Center located on the second floor of the Helm Library is the principal service facility and provides student access to both computer and media resources. Microcomputers with popular applications programs and terminals providing access to the IBM mainframe and Digital Equipment Corporation VAX computers are located there and in seven other general access computing laboratories in locations throughout the campus. For more information call 745-2946.

A wide variety of programming languages and programs support the majority of research projects. Highly specialized computing resources, including a supercomputer, are available through the Kentucky Educational Computing Network. INTERNET connections allow communications with hundreds of other colleges and universities.

While the principal responsibility for research design and data analysis rests with the individual researcher, consultation on design, statistical analysis, and computer use is available to students and faculty. Western subscribes to the Interuniversity Consortium for Political and Social Research and other data archives.

Media Services

Located in the center of the first floor of Tate C. Page Hall, Media Services provides a variety of instructional support services for faculty, staff, graduate assistants and students including media equipment, films, and videotapes for instructional use. Over 7,500 videotapes and 16mm films are available from the University/Third District Film-Video library. Media Services will provide catalogs of current holdings upon request and assist faculty members in obtaining titles from other sources. A variety of photographic, graphic, and audio/video consultation, design and production service are also provided. A staff of student assistants is available during operating hours to provide assistance to users, and pickup and delivery services are available. For more information call 745-3754.

The Faculty Technology Center, located in Tate C. Page Hall is equipped with Macintosh and MSDOS computers for teachers' use in the production of instructional and professional materials. The services available within the Center include desktop publishing, basic graphic production (such as overhead transparencies), VHS video editing and photographic copying.

Center for Teaching and Learning

The Center for Teaching and Learning is a faculty-administered program to support teaching. The Center provides assistance with media preparation, computer assisted instruction, video recall, and other aspects of teaching. The Center schedules teaching seminars throughout the academic year. Participation in these seminars is a prerequisite for graduate assistants who plan to become teaching associates and teach lower division courses.

Career Services

The Career Services Center provides a variety of developmental services and programs designed to assist students enrolled at Western Kentucky University. Career Advisors assist Western students in developing and formulating realistic educational and career objectives and in identifying resources and strategies which will aid in resolving their career and graduate study concerns. Career Development Sessions provide information on preparing resumes, interviewing and specific employers. The Career Library is designed to make available pertinent resources relating to career planning, employer literature, graduate and professional studies, manpower trends and other related placement information. All students are invited to become familiar with these library materials. Additional services include cooperative educational internships, campus interviews, and employment files.

Counseling Services Center

The Center, located in room 409 Potter Hall, provides personal counseling services and is responsible for the administration of national testing programs. Contact the Center for appointments and for test information.
Financial Assistance

Housing Facilities

Graduate housing is available for both men and women. To apply for housing, students need to submit a Residence Hall Housing Agreement, along with a $75.00 deposit, to the Office of Housing.

Food Services

Campus Food Service is operated by Marriott Corporation. Marriott offers a variety of restaurants which include: The Marquis Club, Subway, Taco Bell, The Hill Topper Inn, The Firehouse, Pizza Hut and Rocco’s Pizza. Meal plans are available to students. For information, call (502) 745-2416.

FINANCIAL ASSISTANCE

Graduate Assistantships

Graduate assistantships are available in various departments and service areas to qualified students. Stipends vary depending upon the student’s qualifications and duties assigned. In addition to the bi-weekly stipend, the out-of-state portion of the graduate assistant’s fees is awarded in the form of a scholarship during the period of appointment. Since graduate assistants have responsibilities for their own studies and for services to the University, they are discouraged from seeking other employment while holding an assistantship.

A graduate assistant is expected to be a full-time graduate student. An assistant may enroll in an undergraduate course(s) and apply those hours toward full-time status provided the course(s) is included on the official graduate program (Form C or B). When the course load includes both undergraduate and graduate courses, there must be a minimum of 6 graduate credits. For example, full-time graduate student status may be obtained with 6 graduate credits and at least 4 undergraduate credits. During the summer session, a graduate assistant must enroll in 3-6 hours, 3 of which must be graduate level.

Graduate assistants have professional responsibilities to the University; therefore, they are expected to familiarize themselves with the University policies and responsibilities and to fulfill their obligations in this respect.

The applicant for a graduate assistantship must have been admitted to a graduate program, must have an overall undergraduate grade point average of at least 2.8 or a score of not less than 1350 on the General (verbal, quantitative, and analytical combined) Test of the Graduate Record Examination, and should apply prior to February 1. The assistantship application and three letters of recommendation (to be requested by the student, not the Office of Graduate Studies) must be submitted to the Dean of Graduate Studies. Appointments are based upon the recommendation and approval of the head of the department and the dean of the college in which the assistantship is granted.

Graduate assistant appointments may be terminated upon failure of the appointee to maintain a grade point average of at least 3.0 in all coursework taken during any enrollment period or upon failure to maintain conduct compatible with the University’s function as an educational institution as defined in “Hilltopics, A Handbook for University Life,” an annual publication of the Office of the Dean of Student Life.

Minority Assistantship Program

Consistent with the Commonwealth of Kentucky’s desegregation plan, the University is committed to raising the proportion of African American Kentuckian residents receiving graduate degrees. Graduate assistantships are available to Kentucky resident minority students through this program.

Loans

Federal Perkins Loan. This long-term loan is designed to assist the student whose family income and total assets place limitations upon other sources (bank loan, family savings, etc.) of educational funds. The loan is interest free while the student is in school and charges only five percent interest during the repayment period. In addition to the interest-rate advantage, the borrower may discount 15% each year, up to 100% of the total loan, by teaching in an elementary or secondary school in an economically deprived area.

Federal Stafford Loan. This long-term loan may be secured through the student’s local bank. Student applicants who qualify for interest subsidy begin repayment after expiration of a six-months grace period after student status ceases.

Student Employment

The University participates in both work-study and a regular program of employment whereby a student may work 15 hours per week during the regular term of study, providing such work is needed to balance the college expense budget.

Research Grants

Graduate students are invited to submit proposals for University research grants. Information as to application deadline and required proposal form may be obtained from the Office of Graduate Studies.
Incentive Grant Program

Western Kentucky University offers an Incentive Grant Program to qualified graduate students who are residents of specific counties in Tennessee and Indiana. Residents of Macon, Robertson, and Summer counties in Tennessee will automatically receive a tuition waiver for the out of state portion of registration fees.

Qualified students for the incentive grant will pay the in-state registration fees plus a per credit hour charge not to exceed $200 per term for full-time students. Fees are subject to change each fall semester.

Graduate students admitted to WKU in good standing are eligible for this grant. Upon receipt of an official transcript showing the completed undergraduate degree, eligibility will be determined. Transient students will be required to have the visiting student form (Form H) on file to quality. Eligibility, determined after the end of the drop/add period, will become effective beginning with the next semester of enrollment. For more information, contact the Office of Graduate Studies at (502) 745-2446.

Alumni Grants

An alumni grant is available to qualified non-resident students whose parent, stepparent, legal guardian or grandparent completed a degree or a certified program at WKU. Grant applications are available through the Office of Graduate Studies.

Veterans Administration Benefits

G.I. Bill. Students who have had more than 180 days of active service with the Armed Forces after January 31, 1955, or have served less than 181 days but received an honorable discharge for service-connected disability, are eligible for educational assistance under the Veterans Readjustment Benefits Act of 1966. Applications are made directly to the Veterans Administration, 545 South Third Street, Louisville, Kentucky.

Senior Citizens' Scholarship

Person 65 years of age and older are granted tuition scholarships for any college class for which they enroll, whether for credit or audit.

GENERAL INFORMATION

Academic Year

The University provides a year-round instructional program consisting of the fall and spring semesters and a summer term.

Registration Procedures

Information regarding registration dates and procedures is published in each term's schedule bulletin which can be obtained from the Office of the Registrar. Registration is available to students who (1) have been admitted for the term, or (2) have been enrolled continuously, or (3) have been enrolled in anyone of the previous three terms prior to the one for which the student is registering. Students who have not been enrolled for three or more consecutive terms (including the summer term) or who were previously admitted, but did not enroll, should contact the Office of Graduate Studies and Research.

Schedule Changes

The University reserves the privilege of canceling any course which has insufficient enrollment to justify its continuation. Other adjustments in the schedule may be made when necessary.

Withdrawal From the University

For various reasons it is occasionally necessary for a student to withdraw from the University. In such cases the student should report to the Office of the Registrar to initiate the withdrawal procedures. Students leaving the institution without an official withdrawal will receive failing grades in all courses in which enrolled and endanger their future status in the institution. Students withdrawing after the eighth week of the semester or the fourth week of a bi-term or comparable period during the summer session must consult with their instructors as to the withdrawal grade. The official date of the withdrawal is the date written notification is received in the Office of the Registrar. Students wishing to return to Western at a later date must submit an application for readmission.

Student Schedule Changes

Changes in schedules maybe made only within the first six class days of a semester or the first three days of a bi-term if such changes involve entering other classes. Courses which do not meet at least twice during the first six class days may be added up through, but not past, the day of the third class meeting.

During a semester, a student may withdraw from a course with a grade of W or F under the following conditions.

A. A student is permitted to withdraw from any course with a grade of W through the 8th week of class.

B. After the 8th week of class, any student dropping a course receives an automatic F. However, when there are extenuating circumstances, and at the
discretion of the faculty member and the department head, the student may be permitted to withdraw with a W instead of an F. During a bi-term a student may drop a course with a grade of W or F under the following circumstances:

A. A student is permitted to withdraw from any course with a grade of W through the 4th week of class;
B. After the 4th week of class, any student dropping a course receives an automatic F. However, when there are extenuating circumstances, and at the discretion of the faculty member and the department head, the student maybe permitted to withdraw with a W instead of an F.

Extended Campus

A large number of courses is offered in each of the three WKU-Centers and in other service locations.

Registration is conducted on a schedule similar to that of regular campus registration. Admission information, registration materials, and course offerings are available at each of the WKU-Centers.

Any questions may be directed to the appropriate WKU-Center:
Elizabethtown Center.. (502) 942-8381, (502) 351-1192
Glasgow Campus ........................................ (502) 651-6399
Owensboro Center ........................................ (502) 684-9797

GRADUATE FEES

Spring or Fall Semester
Full-time Students
(per semester)
Resident .................................................. $1030.50
Non-Resident ............................................ $2870.00

Part-time and Summer Students
(per credit hour)
Resident .................................................. $109.00
Non-Resident ............................................ $313.00

Note: Fees are subject to change without advance notice. Graduate students in music should refer to the department section for additional fees.

A minimum of 9 graduate hours during a regular semester and 6 graduate hours during a summer session is required for classification as a full-time student.

Classification of Residency for Admission and Tuition Assessment Purposes

Necessity And Function: Public institutions of higher education were established and are maintained by the Commonwealth of Kentucky primarily for the benefit of qualified residents of Kentucky. The substantial commitment of public resources to higher education is predicated on the proposition that the state benefits significantly from the existence of an educated citizenry. As a matter of policy, access to higher education is provided so far as feasible at reasonable cost to residents of the state. It is the longstanding practice of the Council on Higher Education to require students who are not Kentucky residents to meet higher admission standards and to pay a higher level of tuition than resident students. The commonwealth of Kentucky uses residency requirements to determine items such as voting rights, income tax liability, and employment in certain occupations. The requirements vary in form and substance for each of these uses. The purpose of this regulation is to establish a process and corresponding criteria for the residency classification of students seeking admission to, or enrolled in, public institutions of higher education. Furthermore, it is the intent of the Council on Higher Education that this regulation be interpreted and applied in a uniform manner, as described herein, in determining whether students shall be classified as residents or non-residents for admission and tuition assessment purposes.

Section 1. Definitions.

The language of this regulation on residency classification contains some legal terms as well as everyday terms which have specialized meaning in the determination of residency for admission and tuition assessment purposes. The following definitions apply in the interpretation and application of this regulation.

1) "Academic term" means a division of the school year during which a course of studies is given, e.g., semester, quarter, or intersession.

2) Enrollment at a college or colleges shall be deemed "continuous" if the person claiming "continuous" enrollment continues to be enrolled at the same degree level for consecutive terms (excluding summer) since the beginning of the period for which continuous enrollment is claimed. The sequence of continuous enrollment is broken if the student fails to enroll, except under extenuating circumstances beyond the student's control, e.g., serious personal illness or injury, or illness or death of parent.

3) "Degree level" means one (1) of the following:
   (a) Undergraduate (enrollment in courses or programs which result in the baccalaureate degree or lower),
Classification of Residency for Admission and Tuition Assessment Purposes

(b) Graduate (enrollment in courses or programs which result in a post-baccalaureate degree other than the first-professional degrees in law, medicine, and dentistry); or
(c) Professional (enrollment in courses or programs which result in a professional degree in law, medicine, or dentistry.)

(4) The term “dependent person” means a person who is unable to meet all of the criteria listed in subsection (9) of this section.

(5) “Documentation” refers to the submission of source documents, e.g., official letters, papers, or sworn statements. As a general rule, evidence cited as the basis for domicile shall be documented, and the required documentation shall accompany the application for residency classification.

(6) The term “domicile” means a person’s true, fixed, and permanent home. It is the place where the person intends to remain, and to which the person expects to return without intending to establish a new domicile elsewhere. “Legal residence” and domicile convey the same notion of permanence and are used interchangeably.

(7) “Full-time employment” means employment for at least forty-eight (48) work weeks at an average of at least thirty (30) hours per week.

(8) “Half-time enrollment” means any enrollment during an academic term which is equal to one-half (1/2) of full time as determined by the governing board of the institution.

(9) The term “independent person” means a person who meets all of the following criteria. An independent person is one:
(a) Whose parent has not claimed such person as a dependent on federal or state income tax returns for the tax year preceding the date of application for reclassification of residency status;
(b) Who demonstrates nonfinancial dependence upon parent(s); and
(c) Whose parents’ income is not taken into account by any private or governmental agency furnishing educational financial assistance to the person, including scholarships, loans, and other assistance.

(10) The term “institution:” “institution of higher education:” or “college” refer to all institutions, public or private, offering instruction and conferring degrees beyond the secondary school level, such as four (4) year colleges or universities, seminaries, two (2) year institutions (community colleges and junior colleges), and postsecondary vocational-technical schools.

(11) The term “nonresident” means a person who currently maintains legal residence outside Kentucky or has not met the criteria for establishing residency as defined in this regulation.

(12) The term “parent” means one (1) of the following:
(a) a person’s father or mother, or
(b) a court-appointed legal guardian.

The term “parent” shall not apply if the guardianship has been established primarily for the purpose of conferring the status of resident on a person.

(13) The term “resident” means a person who is a legal resident of Kentucky based upon fulfilling the criteria for establishing residency as set out in Section 2 of this regulation.

Section 2. Guidelines for Determination of Residency.

(1) Initial classification of residency shall be determined based upon the facts existing when the conditions governing admission for a specific academic term have been met. Initial residency determinations generally are made on the basis of information derived from admissions materials. An undergraduate student whose admissions records show the student to be a graduate of an out-of-state high school is presumed to be a nonresident and shall be initially so classified. A student whose admissions records indicate the student’s domicile to be outside of Kentucky at time of application is presumed to be a nonresident and shall be initially so classified.

(2) The domicile of a dependent person is that of either parent. The domicile of the parent shall be determined in the same manner as the domicile of an independent person.

(3) The domicile of a dependent person whose parents are divorced, separated, or otherwise living apart shall be presumed to be Kentucky if either parent is a resident of the Commonwealth regardless of which parent has legal custody or is entitled to claim that person as a dependent pursuant to Kentucky income tax provisions.

(4) Evidence submitted on behalf of a dependent person shall pertain to the domicile of the parent(s). A person claiming independent status shall document that proclaimed status and demonstrate that domicile in Kentucky has been established.

(5) An independent person who moves to Kentucky and within twelve (12) months enrolls in an insti-
Classification of Residency for Admission and Tuition Assessment purposes

An individual shall not be deemed to have established domicile in Kentucky if the individual returns to this state within six (6) months of the date of discharge from active duty.

An individual whose domicile was Kentucky at the time of induction into the military, and who maintains Kentucky as home of record and permanent address, shall be entitled to resident status if the individual returns to this state within six (6) months of the date of discharge from active duty.

A member or the spouse of a member of the Armed Forces of the United States stationed in Kentucky on active military orders is considered domiciled in the state and shall be entitled to classification as a resident while the member is on active duty in this state pursuant to such orders. The spouse of the member, while in continuous attendance at the degree level in which currently enrolled, shall not lose resident status when the member is thereafter transferred on military orders. Individuals classified under this section shall be reassessed in accordance with the appropriate sections of this regulation when the qualifying condition is terminated. This regulation is invalid if the individual is stationed in Kentucky for the purpose of enrollment at an institution of higher education or on temporary assignment of less than one (1) year.

A dependent person whose parent is a member of the Armed Forces and stationed in this state on active duty pursuant to military orders shall be classified as a resident. The student, while in continuous attendance at the degree level in which currently enrolled, shall not lose resident status when the parent is thereafter transferred on military orders. When continuous attendance is broken or the current degree level is completed, the person's residency classification shall be reassessed in accordance with the appropriate sections of this regulation. This subsection does not apply if the parent is stationed in Kentucky for the purpose of enrollment at an institution of higher education or on a temporary assignment of less than one (1) year.

Any person holding a permanent residency visa or classified as a political refugee has the capacity to remain in Kentucky indefinitely and shall establish domicile in the same manner as any other person. Time spent in Kentucky and progress made in fulfilling conditions of domicile as stated in Section 3 (1) prior to obtaining permanent status may be considered in establishing Kentucky domicile.

Any person holding a nonimmigrant visa with designation A, E, G, H, I, or L may remain in Kentucky as long as the authorized purpose or established need continues and may establish domicile the same as any other person. In assessing the residency status of such a person, other sections of this regulation shall apply and the person's purpose and length of stay as well as other conditions governing presence in Kentucky shall be determined and considered. If this review justifies a resident classification, the person shall be classified as a resident for admission and tuition assessment purposes.

Any person holding a nonimmigrant visa with des-
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ignation B, C, D, F, J, K or M does not have the capacity to remain in Kentucky indefinitely and may not attain Kentucky resident status for admission and tuition assessment purposes.

(17) Pursuant to KRS 164A.330 and 200KAR 16:040, beneficiaries of a Kentucky Educational Savings Plan Trust shall be granted resident classification for tuition purposes if:

(a) The beneficiary is covered under a vested participation agreement;

(b) The beneficiary has been a continuous resident of the Commonwealth of Kentucky during the eight (8) year vestment period; and

(c) The beneficiary enrolls in an institution of higher education in Kentucky prior to enrollment in any other educational institution.

(18) No independent person shall be presumed to have gained resident status while being enrolled in any institution of higher education more than half-time in the absence of clear and convincing evidence that the person has established domicile in Kentucky.

(19) Domicile shall not ordinarily be conferred by the performance of acts which are auxiliary to fulfilling educational objectives or are performed as a matter of convenience. Mere physical presence in Kentucky (including living with relatives or friends) is not sufficient evidence of domicile.

Section 3. Types of Evidence to be Considered for Establishment of Domicile.

(1) Evidence submitted on behalf of a dependent person shall pertain to the domicile of either parent. Initial classifications generally are made on the basis of information derived from admissions materials, and individuals who enroll in college immediately following graduation from high school and remain enrolled are treated as dependent persons unless the contrary is evident from the information submitted. In such cases, domicile shall be inferred from the student's permanent address, parent's mailing address, or location of high school of graduation.

(2) A person claiming independent status shall document independent status under Section 1(5) of this regulation and shall demonstrate by clear and convincing evidence that domicile in Kentucky has been established by that person's acts. If an independent person asserts that domicile in Kentucky has been established, the person has the burden of proving that assertion by clear and convincing evidence.

(3) The determination of domicile shall be based upon verifiable circumstances or actions. No single fact is paramount, and each situation shall be evaluated to identify those facts which are essential to the determination of domicile.

(4) The following facts, although nonconclusive, shall have probative value in support of a claim by an independent person for resident classification:

(a) Acceptance of an offer of full-time employment or transfer to an employer in Kentucky or contiguous area while maintaining domicile in Kentucky;

(b) Continuous physical presence in a nonstudent status for the (twelve 12 months immediately preceding the last date for enrollment in an institution;

(c) Filing of Kentucky resident income tax return for the calendar year preceding the date of application for reclassification of residency status;

(d) Full-time employment of at least one (a) year while living in Kentucky;

(e) Attendance as a full-time, nonresident student at an out-of-state institution of higher education while determined to be a resident of Kentucky;

(f) Abandonment of a former domicile and establishing domicile in Kentucky with attendance at an institution of higher education following an only incidental to such change in domicile;

(g) Payment of Occupational taxes in Kentucky;

(h) Payment of real property taxes in Kentucky;

(i) Payment of intangible personal property taxes in Kentucky

(j) Ownership of real property in Kentucky, if the property was used by the student as a residence for at least six (6) months preceding the date of application for reclassification of residency status;

(k) Long-term lease (at least twelve (12) consecutive months) of noncollegiate housing;

(l) Kentucky automobile registration;

(m) Kentucky driver's license;

(n) Continued presence in Kentucky during vacation periods;

(o) Marriage to a Kentucky resident; and

(p) Registration as a Kentucky voter.

(5) Documentation. The determination of domicile shall be based upon verifiable circumstances or actions, and a student may be required to submit original or notarized copies of any relevant evidence pertaining to domicile. When reviewing the documentation submitted, institutions may request additional documentation to clarify the person's circumstances and to formulate a classification decision which considers all relevant facts.
Section 4. Responsibilities

(1) Institution Responsibilities. Each institution shall designate an administrative office or person with delegated day-to-day responsibility for administration of this classification regulation and for evaluating and deciding student requests for reclassification. Each institution shall also establish a residency review committee (hereafter the committee) to assist and recommend action on a student requests for reclassification referred to the committee by said administrative office or person having day-to-day responsibility for this regulation. To evaluate student requests for reclassification, each institution shall establish an operational policy including procedures and designated responsibilities. The Council on Higher Education Residency Classification Policy shall be published in its entirety in the official bulletin(s) of each institution.

(2) Student Responsibilities. The responsibility for registering under the proper residency classification is that of the student. It is the student's obligation to raise questions concerning residency classification and make application for change of residency classification with the administrative officials of the institution. A student classified as a resident who becomes a nonresident shall be required to notify immediately the proper institutional officials. However, if the student fails to notify institution officials of the change in status, institutional officials may investigate and evaluate the current status of the student regardless of the source of the information. A student classified as a nonresident is considered to retain that status until the student makes written application for reclassification in the form prescribed by subsection (3) of this section and is officially reclassified by the proper administrative officials.

(3) Request for reclassification. Application for change of residency classification shall be made to the administrative office or person designated by the institution for this purpose. Such application with supporting documentation shall be made by the student not more than forty-five (45) calendar days after the first day of classes of the academic term for which reclassification is sought. A student may apply for reclassification only once during the academic term for which reclassification is requested.

(a) To support full consideration of a request for a change in residency classification, each application shall consist of a complete affidavit which includes the necessary documentation to substantiate facts cited for reclassification. Each applicant is encouraged to submit a formal statement indicating the basis for the claim of resident status. The student shall be responsible for ensuring that all necessary documentation is submitted with the affidavit. Incomplete application may be returned to the student for completion at the discretion of appropriate institutional officials.

(b) Application for reclassification shall be reviewed according to institutional policy. When applications for reclassification are referred to the committee, the student shall be notified in writing as to the committee's decision on the application. The committee's written decision on residency shall include findings of fact, and determination of whether the applicant is deemed to be a "dependent person" or "independent person," whether the applicant is a "resident" or "nonresident," and the reason(s) based upon this regulation for said determinations. If an application results in a change of classification from nonresident to resident, such change shall not be made retroactive beyond the academic term in which application for resident classification is made. A student denied resident classification by the committee shall have the right to appeal such decision to the Council on Higher Education.

Section 5. Procedure for Appeal to the Council on Higher Education.

(1) The Executive Director of the Council on Higher Education shall appoint a person to serve as an appeals officer. The appeals officer shall review all residency appeals from the public institutions of higher education to determine if the committee's written decision is supported by substantive evidence and in conformity with this regulation.

(2) After the student receives the decision of the committee, the student has fourteen (14) calendar days in which to appeal that decision to the Council on Higher Education. The student initiates this process by giving written notice to the chair of the committee or the person or office designated by the institution to handle such appeals. Appeals filed more than fourteen (14) calendar days after receipt of the decision of the committee shall be dismissed and the decision of the committee shall be final.
The committee or its designated representative shall be responsible for forwarding to the Council on Higher Education a complete copy of the student’s file within fourteen (14) calendar days of the receipt of a notice of appeal. The student may review the content of the file before it is forwarded to the Council on Higher Education.

The appeal shall be considered on the written record alone and new or additional evidence shall not be considered.

The appeals officer shall review the written record and the committee’s written decision shall make a recommendation to affirm, modify or reverse the committee’s decision. The appeals officer may order the appeal remanded to the committee for further proceedings before the appeals officer renders a recommendation. Within twenty-one (21) calendar days after receipt of the student's file, the recommendation of the appeals officer shall be forwarded to the Executive Director of the Council on Higher Education or designated representative. The Executive Director of the Council on Higher Education or designated representative shall promptly forward the recommendation of the appeals officer to the institution representative designated to handle appeals for final disposition by the institution in accordance with established institutional procedures.

The institutional representative shall promptly forward the recommendation of the appeals officer to the student. Each party (the institution and the student) shall have ten (10) calendar days after receipt of the appeals officer’s recommendation to file written exceptions to the report with the institutional representative designated to handle final disposition of appeals. The institution shall make final disposition of the appeal and notify the student within thirty (30) calendar days after expiration of the ten (10) day period for filing exceptions.

Section 6. This regulation supersedes all previous policies and regulations of the Council relating to residency classification of students for tuition assessment purposes.

ADMISSION
Initial Procedures

Students seeking a graduate degree must obtain Form A (Application for Admission) from the Office of Graduate Studies. The completed form, along with a $20.00 (non-refundable) application fee, must be returned at least four weeks in advance of the expected date of matriculation. Graduates of accredited institutions other than Western Kentucky University must request that one official transcript showing the completed degree be sent to Western Kentucky University. The transcript must be forwarded from the college or university registrar directly to the Office of Graduate Studies. Applicants who have not completed the undergraduate degree are required to submit one official transcript at the time of application and one official transcript after the degree is completed.

Transient students (working toward a degree at other institutions) must complete Form A but are not required to submit transcripts. Instead, they must obtain Form H from the Office of Graduate Studies. This completed form must be returned to the Dean of Graduate Studies at Western prior to enrollment.

Unclassified students (not seeking a graduate degree) must complete Form A and, if not a Western graduate, submit one official undergraduate transcript to the Office of Graduate Studies. Should the unclassified student later apply for and be granted admission into a degree program, no more than 12 hours taken while in the unclassified category may (with advisor approval) be used to fulfill degree requirements, provided time limitations etc. are met.

Admission Requirements: Master's Degree

Applicants for a master’s degree program must have:
A. A bachelor’s degree from a college or university of recognized standing. (Applicants from non-accredited institutions see below.)
B. An adequate preparation in the field of specialization.
C. Either a minimum grade point average of 2.75 (overall or on the last 60 hours of undergraduate degree work, inclusive of all semesters needed in reaching that total) or a score of not less than 1200 on the Graduate Record Examination General Test.

Admission to the Master of Professional Accountancy requires a 2.75 grade point average (overall or on the last 60 hours) and a minimum score of 450 on the Graduate Management Admission Test. (GMAT). Admission to the Master of Arts in Interdisciplinary Administration requires a 2.75 grade point average (overall or on the last 60 hours) or either a minimum 1200 GRE General Test score or a minimum 400 GMAT score.

Appeal of Admission Denial

Admission is denied when a student fails to meet the minimum Graduate Studies admission requirements as described above. If the student believes there are extenuating circumstances that should be considered, she or he may appeal the decision denying admission. To initiate the appeal process, the student submits a letter
and supportive documentation explaining the perceived reasons and justifications for waiving admission requirements to the Office of Graduate Studies. The letter and supportive information will be presented to the Graduate Council for a decision. If the appeal is approved, the student's regular admission material will be forwarded to the department in which the desired program is located. The departmental graduate admission committee will decide, in the usual manner, whether or not to admit the student to the program. If the appeal fails to gain approval by the Graduate Council, the Office of Graduate Studies will inform the student of the denied appeal.

Requirements for admission to some departmental programs are higher than the institutional standards for Graduate Studies. When admission is denied based upon requirements that are unique to the program, the student must submit a letter and supportive information to the graduate advisor or department head in which the program is located. The departmental graduate committee considers the appeal and informs the student of the outcome. If the student is not satisfied with the committee's decision, the appeal is forwarded to the college graduate committee for consideration. The college graduate committee chair informs the student of the outcome. If the college committee's decision is contested by the student, the appeal is forwarded to the Graduate Council for final committee action. Graduate Studies will inform the student of the Council's decision.

Requirements: Specialist Degree

Applicants for a specialist degree program must:
A. Hold a master's degree from an accredited college or university.
B. Have adequate preparation in the proposed field of specialization.
C. Score not less than 1250 on the General Test of the Graduate Record Examination or have a grade point average of not less than 3.5 on the coursework for the master's degree program. (The Specialist degree in School Administration requires a 3.5 GPA and 1250 GRE.) Present to the Office of Graduate Studies three letters of recommendation from graduate faculty and professional associates.

Appeal requests for admission requirements for the specialist degree program should follow the procedure outlined for the master's program.

Applicants from non-regionally accredited institutions

Transfers from non-regionally accredited institutions - with fewer than 60 semester hours earned at the regionally accredited, degree-granting institution - must have a grade point average of at least 2.75 on the hours earned at the degree-granting institution and a combined score of at least 1250 on the General Test of the GRE.

Graduates of non-regionally accredited, four-year educational institutions may be admitted to Graduate Studies and considered for admission to a master's degree program with a minimum GRE General Test score of 1250, a minimum undergraduate grade point average of 2.75/4.0, an adequate preparation in the field of specialization, and one of the following:
A. The undergraduate institution is a candidate for regional accreditation.
B. The undergraduate degree is accepted as preparation for graduate study by that state's reporting institution.
C. The student's GRE verbal score is at least 550 and the undergraduate transcript indicates completion of a minimum of 40 hours of general education coursework including:
1. at least 6 semester hours (or the equivalent) in each of the areas of communication, humanities, and natural science.
2. at least 12 semester hours (or the equivalent) in social and behavioral studies, including history.
3. at least 3 semester hours (or the equivalent) in mathematics or logic.

International Students: Requirements

Applicants who are not U.S. citizens must submit (1) a properly completed application for admission, (2) an official transcript indicating completion of the baccalaureate degree (or the equivalent), (3) evidence of ability to communicate in English (a minimum of 525 on the TOEFL), and (4) evidence of adequate financial resources.

After the international student has submitted those application materials, evaluation is made within the department administering the degree program. International students must participate in orientation and testing of English proficiency three days prior to the beginning of the regular registration period. Students found to be deficient in English skills must take remedial coursework. Health insurance must be purchased upon arrival at the University.

Senior Citizens

A senior citizen (65 years or older) who holds a bachelor's degree may be admitted to Graduate Studies as a Special Student. Upon completion of 12 hours of coursework in a degree program with a minimum grade point average of 3.0, the student may be admitted to that degree program.
**REQUIREMENTS:**

**GRADUATE PROGRAM**

**Course Load**

In general, the number of semester hours of credit which may be earned during a given term may not exceed the number of weeks of instruction. During a regular semester, the course load for a full-time graduate student is 9-15 hours with 9 being the minimum and 15 the maximum.

**Course Numbering**

500-800: Courses numbered 500 and above are open to graduate students only. For the master's degree, all the credits except a maximum of 12 hours of 400G must be in graduate only (500-800 level) coursework. All hours of the specialist degree program must be earned in courses open only to graduate students.

400G: Upper division undergraduate courses which are numbered at the 400-level and have a "G" designation (e.g., Eng 401 G) may be taken for graduate credit. However, a student who has taken a particular 400-level course may not repeat that same course for 400G level credit. In these courses, graduate students are expected to complete additional course requirements as prescribed by the instructor. A maximum of 12 hours of 400G coursework may be used on a master's degree program and no 400G courses may be applied to the specialist degree.

300: Courses numbered at the 300-level cannot be taken for graduate credit.

**Time Limitation for Completion of Degree**

All requirements for the master's degree must be completed within five years from date the first course is taken. All requirements for the specialist degree must be completed within six years.

**Transfer Credit**

A maximum of 12 semester hours of graduate credit earned at another institution may be accepted toward meeting course requirements for the graduate program. However, the faculty in an academic department may set more restrictive policies regarding the number of hours that will be accepted in a particular program. In any case, the following requirements must be met:

1. The credit(s) must have been earned at an accredited graduate institution.
2. The coursework to be transferred must be properly designated as having been taken for graduate credit.

**Requirements**

3. The courses to be transferred must carry a grade of "3.0" (on a 4.0 scale) or better.
4. Since Western students are responsible for all coursework taken in both the major and minor areas, all transfer coursework is subject to this same requirement. In other words, the grade point average must beat least 3.0 (4.0 scale) on all graduate coursework appearing on the transcript before specific courses can be transferred.
5. Credits earned during a given term must not exceed the number of weeks of instruction and must have been earned within the five-year time limit for degree completion.
6. Any course(s) to be transferred must be appropriate for the degree program being followed and must be approved by the student's advisor(s) and the Dean of Graduate Studies. Approval must be obtained prior to enrollment in the coursework.
7. At least 12 hours in the major area and at least 6 hours in the minor area must be taken at Western.

The "Transfer Credit Practices" report published by the American Association of Registrars and Admissions Officers is the reference used in evaluating credits. Transfer credits taken during the final semester of a program will delay program completion until official transcripts have been received in the Office of Graduate Studies.

**Independent Study Courses**

A maximum of 6 hours of workshops, independent studies, special problems, individual special topics, and research or readings in the discipline may be used on any degree program.

**Correspondence Study**

Courses taken through correspondence study cannot be used as part of any graduate program.

**Standardized Examination Scores**

All degree-seeking students must submit appropriate standardized test scores regardless of their undergraduate grade point average. With two exceptions, all degree programs require the Graduate Record Examination GRE General Test. The exceptions are the Master of Professional Accountancy which requires the Graduate Management Admission Test GMAT and the Master of Arts in Interdisciplinary Administration which accepts either the GRE or the GMAT Standardized test scores must be received by the Office of Graduate Studies prior to enrollment or during the first term of enrollment. The student will not be permitted to enroll in additional courses until the scores have been submitted.
Registration materials for the GRE and GMAT are available at the Counseling Services Center and the Office of Graduate Studies.

Major Advisor

Upon admission to a graduate program, each student is assigned a major advisor from the graduate faculty of Western Kentucky University.

Program of Study (Form C)

All degree-seeking students must submit a planned program of study (Form C) to the Office of Graduate Studies prior to enrollment in coursework beyond 12 credit hours (inclusive of transfer credit). The degree program is to be developed in consultation with and approved by the advisor(s) assigned at the time of admission.

All degree programs must be reviewed and approved by the Dean of Graduate Studies.

Students who fail to submit an approved program by the established deadline will not be permitted to enroll in a second semester until the approved program has been submitted.

Non-degree programs are reviewed and approved in the Office of Teacher Certification. Students entering fifth- or sixth-year (Rank II or Rank I) non-degree, professional education programs must have an approved program of study on file in the Office of Teacher Certification. The approved program must be on file before a letter certifying completion of hours can be sent to the appropriate Board of Education.

Course Substitutions

Any change in the approved program of study—the addition or deletion of a course, the substitution of a transfer course or of another Western course for a course on the program—must be specified on a “course change” form, approved by the advisor and submitted to the Dean of Graduate Studies for final approval. The final approval should be obtained prior to enrollment in a course to be substituted.

Change of Program

Students who wish to change from one program of study to another must complete a “Change of Program” form and meet admission requirements germane to the new program. The faculty advisor(s) will evaluate all previously completed coursework for its applicability to the new program.

Grades

Grades lower than “C” may not be used in meeting degree or non-degree program requirements. Except in the case of theses or similar projects, the grade of “X” (incomplete) becomes “F” on the student’s transcript if the work is not completed within 12 weeks of the next full university term. Thereafter, the grade point average will include the “F.” In the case of theses (599) and specialist projects (699), a grade of “X” must be reported for each enrollment period prior to submission of the approved thesis or specialist project to Graduate Studies. The grade of “X” may be changed after the student submits the thesis or specialist project.

Candidates for graduate degrees are required to have a combined average of “B” in all courses taken in the major and minor areas, regardless of whether they are included on the approved program of study (Form C or B), and in courses used to meet the research tool requirements for the MA, MS, and MAE - Elementary degrees. The minimum acceptable evaluation for a master’s thesis or specialist project is a grade of “B.”

Grades are recorded in the Office of the Registrar as reported by the graduate faculty at the close of each academic term. No grade filed in that office may be changed except on a written statement from the instructor certifying that an error has been made or, in the case of an “X,” that the work was completed within the time limit.

Repeating a Course

A course in which a student has received a passing grade (C or better) may not be repeated for the purpose of raising the grade. A course in which a grade of D or F is received may be repeated, but both grades are used in computing the grade point average.

Research Tool Grades

For those students who choose programs that allow coursework in lieu of the foreign language requirement, a minimum grade of “B” must be attained. In the event two or more courses are involved, the average must be 3.0. If the grade earned in the single course or by averaging the grades in multiple courses is less than the required 3.0, the research tool course(s) may be repeated. Research tool requirements must be met prior to admission to candidacy.

Admission to Candidacy (Form D)

Admission to candidacy is a traditional component of graduate study the purpose of which is to provide a planned, formal review of the student’s progress toward the specified program of study. The review enables the student, in
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consultation with appropriate University officials, to make warranted changes in the program. Admission to candidacy should be an expression of confidence that the student will (with appropriate, continued effort) be able to complete all requirements for the degree.

All degree seeking graduate students must apply for and be admitted to candidacy by submitting Form D to the Office of Graduate Studies. Admission to graduate studies and admission to candidacy are two separate procedures. Students seeking master's degrees should submit Form D to the Office of Graduate Studies after completion of at least twelve hours of coursework but no later than the first week of the semester of program completion. Failure to meet the filing deadline (of Form D) may delay graduation by at least one semester.

Admission to candidacy requires the following:

1. approved program of study
2. removal of any deficiencies or conditions for admission
3. attainment of at least a 3.0 GPA on all graduate coursework at the time of admission to candidacy
4. completion of the foreign language examination (This applies to MA and MS candidates. MA Education-Elementary candidates must have completed Ed Fnd 500. Students who choose programs that allow coursework in lieu of the foreign language requirement should review the section under Research Tool above)
5. approval of the major advisor and Dean of Graduate Studies.

Note: Master's degree students who enroll in 12-15 hours of coursework (applicable to their approved degree programs) during their first semester should submit their applications for candidacy (Form D) to the Office of Graduate Studies at the end of that semester.

Students seeking specialist degrees must apply for admission to candidacy by submitting Form D to the Office of Graduate Studies after the completion of at least twelve hours but no later than the first week of the semester of program completion. Candidacy status for the specialist degree student requires:

1. approved program of study
2. attainment of at least a 3.0 GPA on all graduate coursework at the time of admission to candidacy
3. approval of the major advisor and Dean of Graduate Studies.

Note: Specialist degree students who enroll in 9-12 hours of coursework (applicable to their approved degree programs) during their first semester should submit their applications for candidacy (Form D) to the Office of Graduate Studies at the end of that semester.

Comprehensive Examination

All graduate degree programs require that either a written or an oral examination be satisfactorily completed. For students in Master's degree programs with thesis (Plan A), an oral defense of the thesis is required. Students must meet the following requirements before they are permitted to attempt the comprehensive examination:

1. Gain admission to candidacy
2. complete any required research tool and/or specified research course(s) in conjunction with a program of study
3. complete at least one half of the coursework in an approved program
4. minor (if applicable) have no more than nine hours remaining on the approved program, and
5. complete any additional requirements as specified by faculty in the department in which the program is housed.

The major advisor, in consultation with the student, appoints the oral examination committee consisting of three graduate faculty members. If the student's program includes a minor, or a significant amount of coursework in an area outside the major, one of the committee members must represent that area. The chairperson will notify the Office of Graduate Studies of the results of the examination.

Second Master's Guidelines

The student who wishes to earn a second master's degree from Western Kentucky University must apply for and gain admission to the new program and satisfy all requirements (specific coursework research tool, thesis, etc.) for the new degree, completing at least 18 additional hours of coursework or 12 hours plus the thesis. No more than 12 hours of previous coursework whether transferred from another university or from the previous master's degree at Western (or a combination of the two), may be used to fulfill program and research tool requirements. Any coursework used must be earned within the 5 years allowed for the second degree program.

Seniors Earning Graduate Credit

Seniors at Western or one of the cooperating consortium colleges may enroll in graduate coursework during their final undergraduate semester provided they (1) have an undergraduate grade point average of at least 2.75, (2) make formal application to graduate study (Form A should be submitted to Graduate Studies at least four weeks prior to the beginning of the semester), (3) carry a final-semester course load of no more than 15 hours (combined undergraduate and graduate hours), and (4) do not, in any way, attempt to apply the graduate course(s) to the undergraduate degree.
Degrees Available

Thesis and Specialist Project Advisory Committees

Students pursuing graduate programs requiring the thesis or specialist project are assisted by a thesis or specialist project advisory committee. The major advisor, who serves as chairperson, selects two additional graduate faculty members in consultation with the student.

In some cases, an individual who is not a part of Western's faculty may be asked to serve on a thesis or specialist project advisory committee. Prior to this service, such an individual must qualify and be recommended for adjunct membership on Western's graduate faculty. An individual who has expertise in a pertinent area but who does not meet the requirements for appointment to regular or associate membership on the graduate faculty may serve as a fourth member of the committee with approval of Dean of Graduate Studies.

Thesis or Specialist Project

The program of a student pursuing the master's thesis or specialist project must contain 6 hours of credit in 599- Thesis Research and Writing or in 699- Specialist Project.

The thesis or project must be submitted to the Office of Graduate Studies, in final form, following approval by the student's committee members. The thesis or project should be provided to the Office of Graduate Studies at least three weeks prior to graduation.

Instructions and requirements for preparing, submitting, and distributing the thesis or specialist project are given in "Guidelines for Master's Theses and Specialist Projects." Copies are available in the Office of Graduate Studies. It is the student's responsibility to obtain and comply with these guidelines.

Maintaining Matriculation

If the thesis or project is not completed during the initial period of registration for this credit, the student must maintain matriculation until the thesis or project has been submitted and approved. To maintain matriculation, the student must register for 600 (thesis) or 700 (project) during any semester or summer term in which he/she will be actively pursuing the thesis or project or will be submitting it for approval. Enrollment in 600 or 700 does not result in a grade nor credit toward any degree or non-degree program requirements.

Application for Degree

The degree candidate must complete a degree application (available in the Office of Graduate Studies and in the Registrar's Office) and return it with the graduation fee to the Registrar's Office according to the dates established by the Registrar for each semester.

DEGREES AVAILABLE

Master of Arts. Programs leading to the M.A. degree are offered in the following fields: interdisciplinary administration, communication, economics, English, folk studies, history, humanities, psychology, and sociology.

The Interdisciplinary Master of Arts degree program in Administration is administered by the Office of Graduate Studies in concert with a cross-disciplinary faculty committee. The program requires 21 hours of coursework in economics, management, communication, geography, and psychology. Students will also be required to complete 6 hours of related restricted electives and 6 hours of general electives.

Master of Arts in Education. Students may pursue the Master of Arts in Education with majors in the following areas: elementary, interdisciplinary early child, exceptional child, general education, mental health counseling, middle grades, school counseling, and secondary. For endorsement and emphasis areas included within these majors, the student should consult program descriptions in this catalog.

The secondary education degree program permits majors in the following areas: agriculture, art, biology, business education, chemistry, economics, English, English and allied language arts area, French, geography, German, health, history, mathematics, music, physical education, secondary education, and Spanish.

The secondary education degree program permits minors in the following areas: agriculture, art, biology, business education, chemistry, communication, theatre, economics, English, folk studies, French, geography, German, government, health, history, home economics, industrial education, mathematics, music, physical education, physics, psychology, science area, secondary education, sociology, and Spanish.

Master of Science. Programs leading to the M.S. degree are offered in the following subjects: agriculture, biology, chemistry, communication disorders, computer science, geography, health, library science, mathematics, nursing, physical education, and recreation.

Master of Professional Accountancy. See Department of Accounting.

Master of Public Administration. See Department of Government.

Specialist in Education. The Specialist Degree in Education is available in counseling, elementary education, school administration, school psychology, and secondary education.

Joint and Cooperative Doctoral Programs. Western participates in a joint-doctoral program in education
OUTLINE OF DEGREE REQUIREMENTS

The requirements outlined below are minimum requirements for the specific degrees. Some programs leading to the degree have requirements that exceed these minimums. Those requirements are included in the departmental listings.

Master of Arts and Master of Science Degrees

Admission. In addition to meeting Graduate Studies requirements, applicants must possess at least a minor or its equivalent and a minimum grade point average of 2.75 in the desired area of study.

Coursework. A minimum total of 30 hours of graduate level coursework (or 24 hours plus thesis) is required, with no more than 12 hours of 400 G-level coursework allowed.

Program. The student's approved program (Form C) must be on file prior to enrollment in coursework beyond 12 credit hours.

Research Tool. Unless the department has a specific requirement, the student may meet the research tool requirements by demonstrating (1) a reading ability sufficient to do scholarly research in a foreign language appropriate to the major area or (2) competency in the use of the appropriate research techniques recommended by the departmental advisor(s) and approved by the Dean of Graduate Studies. The research tool requirement must be met prior to enrollment in the last nine hours of program. No credit earned in meeting research tool requirements will apply toward the hours required for the degree. Minimum grade of "B" is required in courses used to meet the research tool requirement. See "Research Tool Grades."

Language Reading and Translation Courses. The French and German reading translation courses are offered during the fall semester only. Graduate students in degree programs which require the language proficiency test must make those courses a part of their first fall enrollment period.

Thesis. Most departments offer both Plan A (thesis) and Plan B (non-thesis). For Plan A, the thesis credit (6 semester hours) is included in the hours required for the degree. The thesis topic must be approved by the student's major advisor. Students must maintain matriculation until the thesis is approved (see "Thesis and Specialist Project" and "Maintaining Matriculation").

Admission to Candidacy. Candidacy status must be gained after completion of at least 12 hours but no later than the first week of the semester of program completion.

Outline of Degree Requirements

Final Examination. A final comprehensive examination over coursework and related materials must be satisfactorily completed. An oral thesis defense is required under Plan A (thesis option).

Master of Arts in Education

Admission. In addition to meeting Graduate Studies requirements for admission, a student applying to a program involving teacher certification must meet the prior certification requirements for that specific program.

Coursework. A minimum of 30 hours of graduate level coursework (or 24 hours plus thesis) is required, with no more than 12 hours of 400 G-level coursework allowed. All students pursuing this degree must complete Education 500 Research Methods and meet coursework requirements for any certification being pursued.

Program. The student's approved program (Form C) must be on file prior to enrollment in coursework beyond 12 credit hours.

Research Tool. The M.A. in Education-Elementary requires Ed Fnd 500 as the research tool. Hours earned in a research tool do not apply to the hours needed for the degree. A grade of "B" must be achieved and the course must be taken prior to enrollment in the last nine hours of the program. See "Research Tool Grades" for further information.

Thesis. Some departments offer both Plan A (thesis) and Plan B (non-thesis). For Plan A, the thesis credit (6 semester hours) is included in the hours required for the degree. The thesis topic must be approved by the student's major advisor. Students must maintain matriculation until the thesis is approved (see "Thesis and Specialist Project" and "Maintaining Matriculation").

Admission to Candidacy. Candidacy status must be gained after completion of at least 12 hours and no later than the first week of the semester of program completion.

Final Examination. A final comprehensive examination over coursework and related materials must be satisfactorily completed. An oral thesis defense is required under Plan A (thesis option).

Specialist in Education

Admission. Applicants must hold the master's degree, must have a minimum grade point average of 3.5 on the coursework* for the master's degree program or a combined score of at least 1250 on the General Test of the Graduate Record Examination and must submit three letters of recommendation (sent directly to the Graduate Studies Office) from professors and professional colleagues.

*(Admission to the Ed.S. in School Administration requires a 3.5 gpa and 1250 GRE score.)
Coursework. A minimum of 30 semester hours of 500-level or above credits must be completed.

Program. The student's approved program (Form B) must be on file prior to enrollment in hours beyond 12.

Residency. Two periods, consisting of a minimum of six hours each, of on-campus coursework must be completed. The student may meet this requirement in two summers, two semesters, or one summer and one semester. These 12 hours must be earned through traditional coursework (i.e., courses which may not be completed through independent study). The summer will count as only one period in meeting this requirement.

Admission to Candidacy. Students are admitted to candidacy after completion of a minimum of 12 semester hours but no later than the first week of the semester of program completion.

Specialist Project. The project is an integral part of the specialist program and is planned in accordance with the student's field of specialization and professional goals. It may take the form of a field project, a creative study, or a more formal research study and shall culminate in a written, scholarly report. A student must maintain matriculation until the project is approved (see "Thesis and Specialist Project" and "Maintaining Matriculation").

Final Examination. An oral examination covering the coursework and project must be satisfactorily completed. The chairperson will notify Graduate Studies of the results.

Cooperative Master's Program with Eastern Kentucky University

Western participates in a cooperative master's program in criminal justice with Eastern Kentucky University. In this joint graduate program, Eastern provides 15 hours of criminal justice and Western provides 15 hours of supportive coursework.

Cooperative-Doctoral Program with the University of Louisville

Ph.D. Biology and Chemistry

The cooperative-doctoral is limited to the Ph.D. program with emphasis in aquatic biology or in fossil fuel chemistry. Admission requires concomitant admission to the Graduate School of the University of Louisville and Graduate Studies of Western Kentucky University. Admission requires completion of the appropriate application processes at each institution, the transmission of one official transcript indicating adequate preparation and copies of two letters of recommendation to each Graduate Studies office, achievement of a combined score of at least 1,000 on the General (verbal and quantitative) Test of the Graduate Record Examination and a minimum score of 40 on the Miller Analogies Test (to be sent to the University of Louisville), and approval by the graduate faculty members of both institutions.

The degree requires the equivalent of at least three years of full-time graduate study, at least two years of which must be spent on the cooperative campus (Western Kentucky University and/or the University of Louisville). The student must spend a minimum of one year of full-time residence at major professor's campus.

The student's graduate committee will consist of at least five members, with at least two each from the University of Louisville and Western Kentucky University.

Requirements include an entry examination over material from the broad field of biology or chemistry and a preliminary oral and/or written examination after completion of the major portion of the prescribed coursework.

A reading knowledge of at least one modern foreign language must be demonstrated before admission to candidacy.

The final oral examination consists of a defense of the dissertation and a demonstration of the candidate's mastery of the field of study.

Ed.D Education

The Cooperative Ed.D program represents a collaborative effort between the two universities' Departments of Educational Leadership.

It is strongly encouraged that interested persons review a department brochure describing the degree program and then visit with an educational administration professor before beginning the application process. Application packets must be obtained from the department.

Western's Department coordinates applications, and admission materials. When all the admission materials are assembled, they are submitted to a Joint Admission Committee. Students must complete a minimum of 90 graduate hours beyond the bachelor's degree and at least 45 combined hours from Western and the University of Louisville. At least 18 must be taken from each institution. Residency requirements are fulfilled by registration at either institution in 24 hours in a 12 consecutive month period. For further information on this cooperative program, refer to program information under Department of Educational Leadership.

Joint Doctoral with the University of Kentucky

Admission requires concomitant admission to Graduate Studies at Western and to the Graduate School and doctoral program at the University of Kentucky. Application forms are available in the Office of Graduate Studies at Western and, upon completion, are to be returned to the Dean of Graduate Studies, Western Kentucky Univer-
If fully qualified, the applicant’s credentials will be forwarded to the University of Kentucky. Requirements for admission include a combined score of at least 1,000 on the General (verbal and quantitative) Test of the Graduate Record Examination, completion of the Miller Analogies Test if the GRE verbal score is below 600, personal references, transcripts of previous academic work, a statement of educational goals, and a brief autobiography.

**Academic Common Market**

Kentucky, along with 12 other southern states, participates in the Academic Common Market—an interstate agreement for sharing nonduplicative academic programs. Numerous graduate programs are included in this cooperative arrangement. Kentucky residents accepted for admission into selected out-of-state programs can enroll on an in-state tuition basis. A catalog listing of the programs is available in the Office of Graduate Studies.
College of Arts, Humanities and Social Sciences

COLLEGE OF ARTS, HUMANITIES AND SOCIAL SCIENCES

David Lee, Dean

DEPARTMENTS

Art
Communication and Broadcasting
English
Government
History
Journalism
Modern Languages and Intercultural Studies
Music
Philosophy and Religion
Sociology and Anthropology
Theatre and Dance

DEGREES OFFERED

Master of Arts (Communication, English, Folk Studies, History, Humanities, Sociology)

Master of Public Administration

Majors and Minors Offered Under the Master of Arts in Education Degree

Art
Communication (minor only)
English
English and Allied Language Arts (major only)
Folk Studies (minor only)
Government (minor only)
History
Modern Languages (German, French, Spanish)
Music
Sociology (minor only)
Theatre (minor only)
24 Department of Art

DEPARTMENT OF ART

IVAN WILSON CENTER
ROOM 441 (502) 745-3944, FAX (502) 745-5932

Leo Fernandez, Head

Professors: L. Fernandez, L. Notheisen, W. Stomps

Associate Professor: P. Trutty-Coohill

Assistant Professor: M. Coakes

Degree Offered: Master of Arts in Education (Art major or minor)

Applicants must meet Graduate Studies requirements for admission. They are also expected to present to the Department of Art a portfolio of their work for departmental review. The program requires a minimum of 36 semester hours. Both Plan A (thesis) and Plan B (non-thesis) are available.

Requirements for art majors pursuing the thesis option are as follows:
Art 511 and 512; Art 599, Art studio courses, 9 hrs.; Art 405G, or graduate art history course, Ed Fnd 500, Sec Ed 580, Sec Ed 531, Psy 510, Psy511, or 519.

Requirements for art majors pursuing the non-thesis option are as follows:
Art 511 and 512, Art studio courses 15 hrs.; Art 405G, or graduate art history course, 3 hrs.; Ed Fnd 500, Psy 510, Psy511, or Psy 519, Sec Ed 580; and Sec Ed 531.

Students pursuing an art minor only must complete the following for a total of 30 hours.
ART 511 and 512, Art studio or art history, 6-9 hrs.; Ed Fnd 500, Sec Ed 580, Sec Ed 531, Education electives, 6-9 hrs.

For all art majors and minors, a terminal project and a final examination must be satisfactorily completed. An oral thesis defense is required under Plan A (thesis option).

Graduate Courses in Art

500 Early Medieval Art. 3 hours.
Examination of topics and problems in Early Christian, Byzantine, Migration, Carolingian, and Ottonian art.

501 Romanesque and Gothic Art. 3 hours.
Directed individual research into the architecture, sculpture, and illuminated manuscripts of Western Europe during the eleventh to early sixteenth centuries.

511 Investigations in Art Education. 3 hours.
Independent study in art curriculum and methodology, with emphasis on the literature, selected art history, and studio areas.

512 Investigations in Art Education. 3 hours.
Independent study in art curriculum and methodology (including art history and studio). Emphasizes the use of surveys, observations, and experimental techniques.

520 Ceramic Art. 3, 6, 9 hours.
Advanced levels of clay forming techniques and clay glaze composition. Research in various phases of the ceramic process.

540 Drawing. 3, 6, 9 hours.
Independent study utilizing traditional methods of drawing. Students are encouraged to investigate and utilize new directions.

550 Printmaking. 3, 6, or 9 hours.
Independent study utilizing traditional methods of printmaking. Encourages the exploration of new directions in personal expression.

560 Painting. 3, 6, 9 hours.
Advanced aspects of painting, with emphasis on experimentation in different styles and on individualized approaches.

570 Sculpture. 3, 6, 9 hours.
Independent study and experimentation in sculpture.

580 Weaving. 3, 6, 9 hours.
Individual study of weaving utilizing traditional and experimental techniques: the production of works that are highly individualistic and of exhibition quality.

591 Investigations in Art History. 3 hours.
Topics and approaches for special areas of interest. Emphasis on the traditional periods of art history.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

The following 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

401G Art in the Italian Renaissance. 3 hours.
This course analyzes the architecture, sculpture and paintings of Italian Renaissance with an emphasis on the examination of selected examples. Graduate students will be required to display advanced research skills.

405G Art Theory and Criticism. 3 hours.
Major theories of art, both historical and contemporary, and various approaches to qualitative judgments about individual works of art. Graduate students will be required to display advanced research skills.
DEPARTMENT OF COMMUNICATION AND BROADCASTING

IVAN WILSON CENTER
ROOM 130 (502) 745-3296, FAX (502) 745-3295

Larry Winn, Interim Head

Graduate Faculty

Professors: R. Capps, C. Ken, R. O’Connor, D. Wicklander, L. Winn

Associate Professors: L. Caillouet, C. Garmon, J. Hoover, K. Payne

Assistant Professors: G. Musambira, S. Ray

Degrees Offered: Master of Arts in Communication, Master of Arts in Education (Communication minor)

Admission Requirement

The Department of Communication and Broadcasting requires either a 2.8 GPA or 1250 on the Graduate Record Examination GRE for admission into the program. Graduate Studies requires that the GRE be taken prior to the second term of enrollment.

Master of Arts in Communication

This degree prepares students for a variety of careers and pursuits in which advanced communication study is helpful. It is especially useful as preparation for college level teaching, further graduate study, management and personnel relations, group communication situations including decision making, and other areas requiring specialized communication skills.

The program provides maximum flexibility. Courses are organized to allow concentration in one of the following areas within the department: communication theory and research, organizational communication, rhetoric and public address, and speech education. With advisor permission, students may take a maximum of 6 hours in a related area outside the department.

A weekend program is offered which provides students with the opportunity to complete the MA in two years by taking advantage of courses scheduled on Friday evenings and Saturdays. The focus of the weekend course offerings is Organizational Communication.

In the early stages of the graduate program, students should meet with their advisor and decide whether to follow Plan A (thesis) or Plan B (non-thesis).

The MA in Communication requires 30 hours plus 3 hours of research tool. Specific departmental requirements include the following:

S Com 503-Foundations of Communication Concepts (required of all graduate students)
S Com 400G-Qualitative Methods and/or
S Com 440G-Quantitative Methods

(Communication majors must select either 400G or 440G as the research tool; the remaining course may be included in the graduate major.)

Master of Arts in Education (Communication minor)

Since this program provides graduate coursework in communication for the public school teacher, all requirements for high school certification must be met. The minor in communication requires a minimum of 12 or a maximum of 15 hours in the appropriate area. The remaining hours will be taken in professional education.

Graduate Courses in Communication

500 Speech Communication Internship. 3 hours. Practical experience in speech communication situations. On-site guidance from a coordinator within the organization. This course may be repeated once.

503 Foundations of Communication Concepts. 3 hours. Major concepts and issues which characterize the discipline.

510 Strategies for Teaching Speech Communication. 1 hour. Designed to improve the teaching performance of S Com graduate assistants in teaching the basic public speaking courses.

521 Evaluation of Mass Communication. 3 hours. Criteria for determining the social responsibilities of and for judging the performance of the mass media in America. Principal recurring schema used to evaluate the mass communication process.

522 Seminar in Mass Communication. 3 hours. Selected topics in mass communication theory and practice: mass communication history, mass communication law and regulation, popular culture, message characteristics, etc. May be repeated with a different topic.

525 Seminar in Broadcasting. 3 hours. Topical issues in the field of broadcasting. Individual student research and subsequent class discussion. Primary research methods and resources will be reviewed.

540 Seminar in Rhetoric and Public Address. 3 hours. Theories of rhetoric and the application of rhetorical standards to selected speakers, movements, areas and periods. May be repeated with a different topic.

542 Practicum in Communication Consulting. 3 hours. Practical off-campus experience in the actual development, implementation, and evaluation of communication programs in organizations.
**Department of Communication and Broadcasting**

**543** Contemporary Methods of Rhetorical Criticism. 3 hours. Application of contemporary methods of analyzing and evaluating rhetorical discourse.

**544** Persuasive Communication. 3 hours. How persuasion works across the dimensions of the communication process: one-to-one, small group, public, and mass communication.

**546** Seminar in Forensics. 3 hours. Principles and procedures involved in directing the standard forensic events such as debate, extemporaneous speaking, discussion, original oratory, analysis of a public address. Also includes interpretative reading, duet acting and story telling.

**549** Rhetorical Theory and Criticism. 3 hours. Development of classical tradition in rhetorical theory, practice, criticism, and pedagogy, from pre-Aristotelian writings to twentieth-century British and American theorists.

**560** Seminar in Organizational Communication. 3 hours. Topical studies in the field of organizational communication. Includes employee communication and conflict management, among others. May be repeated with a different topic.

**561** Multinational Business Communication. 3 hours. This course provides an in-depth study of internal and external communication behaviors in business organizations operating in multinational environments.

**563** Issue Management. 3 hours. A study of issue identification, issue analysis, issue change strategy options, and issue action programming with particular emphasis upon the role of communication in issue management.

**564** Crisis Communication. 3 hours. Role of communication in crisis prevention, crisis readiness and crisis resolution.

**565** Communication and Conflict. 3 hours. Study of communication as it relates to conflict in interpersonal, group, organizational, and intercultural settings.

**566** Corporate and Organizational Advocacy. 3 hours. Historical overview of corporate and organizational advocacy in the 20th century focusing on the communication process used in corporate advocacy.

**569** Values and Leadership in Organizational Communication. 3 hours. Study of communication as it relates values, leadership, and uses of power in such organizational contexts as business, professional, social, educational and political groups.

**570** Seminar in Communication. 3 hours. Selected topics in communication theory: small group communication, language behavior, etc. May be repeated with a different topic.

**572** Nonverbal Communication. 3 hours. Theory and research in nonverbal communication. Topics will include body language, vocalics, and use of space, time, touch, and artifacts in communication.

**576** Principles of Group Communication. 3 hours. The dynamics of communication and interaction occurring in small groups.

**578** Seminar In Interpersonal Communication. 3 hours. Examination of professional literature and basic research in interpersonal communication.

**586** Processes of Group Communication. 3 hours. Prerequisites: SCOM 576 Practice in the group communication processes that lead toward successful team work in organizational contexts.

**595** Independent Study in Communication. 3 hours. Permits students to conduct individualized communication research in an area of their interest.

**599** Thesis Research and Writing. 6 hours.

**600** Maintaining Matriculation. 1 to 6 hours.

The following 400-level courses in Communication may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

**400G** Qualitative Methods of Communication Research. 3 hours. Study of traditional and contemporary non-quantitative methods of examining communication events and phenomena. Graduate students must demonstrate research competencies beyond those required of undergraduates.

**401G** History of Broadcasting in America. 3 hours. Historical factors in the development of primary means of contemporary print and broadcast mass communications: background data on the creation, adoption and diffusion of mass media in America.

**404G** Professional Media Roles. 3 hours. Comprehensive and practical transition to life roles as media consumers, practitioners, and/or researchers. Examination of domestic, commercial, and academic applications of media study. Methods for career placement and advancement.

**405G** Phonetics. 3 hours. (See the Dept. of English) Speech sounds, their production, and acoustic properties.

**440G** Quantitative Methods of Communication Research. 3 hours. A study of quantitative research design as used in communication research including experimental design, survey research, content analysis, and statistical procedures. Graduate students must demonstrate research competencies beyond those required of undergraduates.

**443G** Persuasion in Contemporary Society. 3 hours. Contemporary persuasion in areas such as business, law, politics, religion, and social movements; types of persuasion ranging from speeches to entertainment forms such as music and cinema.
447G Studies in Public Communication. 3 hours. Effective examples of public communication in American history.

460G Interviewing. 3 hours. Overview of principles and methods especially well suited to oral, one-to-one information gathering in an organizational setting. Emphasizes practice both in and out of the classroom.

461G Organizational Communication. 3 hours. Theoretical examination of rhetorical principles operant in modern organizational communication systems.

463G Intercultural Communication. 3 hours. Dimensions of communication theory that apply across cultural boundaries, including anthropological and linguistic perspectives.

474G Gender Differences in Communication. 3 hours. Communication behaviors related to gender including understanding gender-related differences reflected in interpersonal, organizational, and mass communication situations.

495G Independent Study in Communication. 3 hours.

DEPARTMENT OF ENGLISH

CHERRY HALL
ROOM 135 (502) 745-3043

Mary Ellen Pitts, Head

Graduate Faculty


Associate Professors: L. Crouther, L. Dill, E. Oakes

Assistant Professors: L. Davies, K. Green, D. LeNoir, K. Schneider, M. Spears

Degrees Offered: Master of Arts in English, Master of Arts in Education (English major or minor; English and Allied Language Arts area major)

Master of Arts in English

The master's program prepares students for teaching in schools or colleges, for continuing graduate work toward a doctorate in English, or for many other careers that involve strong communication skills. The MA in English can be taken with a concentration in literature, writing, or teaching English as a second language (TESL). Admission requirements for a concentration in literature include 27 hours of undergraduate English with a GPA of 3.0 or above, a satisfactory score on the General Test of the GRE and a satisfactory writing sample. Admission requirements for the writing and TESL concentrations include a minimum of four undergraduate English courses beyond general education requirements, at least two being upper-level literature courses, with the GPA and GRE score indicated above and a satisfactory writing sample.

Both Plan A (thesis) and Plan B (non-thesis) are available. Plan A requires 24 hours of coursework and the 6-hour thesis. Plan B requires 33 hours of coursework. In either plan, 6 hours of coursework may be in a related field such as drama, history, foreign literature, mass media, philosophy, or communication. Courses in each program must meet departmental requirements, a list of which is available from the English Graduate Advisor.

All programs include a research tool requirement, which the student may satisfy by demonstrating reading proficiency in a foreign language or by completing English 520. If English 520 is designated as the research tool, it may not be included in the credit hours required for the degree.

An examination over the coursework thesis (if Plan A), and related materials must be completed. Early in the graduate program, the student should obtain from the English Graduate Advisor a copy of the Reading List for the MA Oral Examination.

Master of Arts In Education
(English major or minor; English and Allied Language Arts area major)

This degree qualifies the student for the professional high school certificate. To pursue a major or minor in English, the student must have completed at least 24 hours of undergraduate work in English.

The major in English is designated primarily for secondary teachers who wish to acquire a strong academic background in their teaching field. Requirements include a minimum of 18 hours in English, 12 hours in education, and a final examination on courses and related materials specified in the Reading List for MA Oral Examination. At the beginning of the graduate program, the student should obtain a copy of the reading list from the Graduate Advisor in English. The thesis is optional.

Students minoring in English take a minimum of 12 hours in English.

The major in English and Allied Language Arts is designed for secondary school teachers involved in teaching basic language courses and in directing student activities related to the language arts. Admission to this program usually requires 24 hours of undergraduate coursework in English; however, to keep the entrance requirements as open as possible to qualified applicants,
28 Department of English

up to 9 of the 24 hours may consist of appropriate courses from related fields (foreign language, speech, drama, journalism, reading).

This area major requires a minimum of 18 hours of coursework in English and Allied Language Arts (communication, drama, journalism, mass media, foreign languages, and folk studies). The requirement in English varies according to undergraduate preparation. Advanced composition and 6 to 9 hours of British or American literature are required of all. The remaining hours for the area major will be selected from allied language arts. Twelve hours must be taken in professional education. The oral examination for this program covers the student's graduate courses.

Graduate Courses in English

501 Graduate Writing Workshop. 3 hours.
Provides a Master's level workshop for students with varied writing interests.

502 Graduate Directed Writing. 3 hours.
Provides a graduate-level directed writing course for students with varied writing interests.

503 Syntactic Theory. 3 hours.
The development of syntactic theory, with emphasis on various new approaches.

508 TESL Field Experience. 3 hours.
Prerequisites: Eng 469 and one linguistics course. Observation and teaching under professional supervision.

510 Graduate Rhetoric and Writing. 3 hours
Primarily for new teaching assistants, this course explores both the rhetorical theories and the practical mechanics of basic writing instruction.

520 Introduction to Graduate Studies. 3 hours.
Basic bibliography and bibliographical problems; research methods requisite for the MA thesis and scholarly publications; methodologies of recent critical essays.

553 Restoration and Eighteenth Century Drama. 3 hours.
Emphasis on a number of representative plays. Evaluation of influences, movements, and productions.

560 Literary Criticism II. 3 hours.
Critical theory and practice of significant literary critics of the Western world from the Romantic period to the present.

569 Cooperative Education in English L 3 hours.
Prerequisites: A minimum of 9 graduate hours in English with a GPA of 3.25 or above; approval of the departmental coop advisor and of the English departmental advisory committee. Work with an appropriate organization.

570 Practical Approaches to Literature. 3 hours.
Terms, concepts, and procedures of practical criticism through the study and practice of a variety of critical approaches to a representative sample of literary works.

571 British Masterpieces in the Classroom. 3 hours.
Masterpieces of British literature suitable for teenage students. Works suggested by those taking the course and a designated core of selections will be studied to aid teachers in making these masterpieces understandable, interesting, and enjoyable to secondary school students.

572 American Masterpieces in the Classroom. 3 hours.
Major American literary works appropriate for instruction in high school and junior high school. Works suggested by those taking the course and a designated core of selections will be studied to aid teachers in making these masterpieces understandable, interesting, and enjoyable to secondary school students.

579 Studies in Victorian Literature. 3 hours.
Selected Victorian works or writers or special topics of significance in Victorian literature.

581 Readings in Old English. 3 hours.
Introduction to Anglo-Saxon vocabulary, grammar, and literary devices. Readings in the original and in transition.

582 Middle English Literature. 3 hours.
Non-Chaucerian English literature of the Middle English period. Language of the period reviewed.

583 Shakespeare II. 3 hours.
Selected comedies and histories. Individual research in literary criticism.

585 Milton. 3 hours.
The writings of John Milton, with emphasis on his poetic works.

586 Seminar in British Writers. 3 hours.
Content varies. Selected works or writers. Maybe repeated once with a different topic.

587 Wordsworth and Keats. 3 hours.
The major works of these two writers and an evacuation of their contributions to the Romantic Movement.

588 Modern British Poetry. 3 hours.
Detailed study of the works of major twentieth-century British poets.

589 Cooperative Education in English II. 3 hours.
Prerequisites: A minimum of 9 graduate hours in English with a GPA of 3.25 or above; approval of the departmental coop advisor and of the English graduate advisory committee. Appropriate supervised work with a cooperating organization.

591 Emerson, Thoreau, and Whitman. 3 hours.
Selected works, cultural backgrounds, and contributions of these writers.

592 The Age of Twain and James. 3 hours.
Realism and naturalism in American literature. Emphasis on Twain, James, and their contemporaries.

593 Poe, Hawthorne, and Melville. 3 hours.
Selected works, cultural backgrounds, and contributions of these writers.
The following 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

401G Advanced Composition. 3 hours.
Study and practice in various forms of writing and rhetorical principles.

402G Editing and Publishing. 3 hours.
Editing collections of student works in several types including experience in computer text editing; lectures by visiting publishers and editors of books, journals, and newspapers.

403G Writing Memoir and Autobiography. 3 hours.
A course in the techniques of writing autobiography; readings will be chosen primarily from contemporary American examples of the genre.

404G History of the English Language. 3 hours.
Origin and development of the language from Indo-European to Modern English with emphasis on developments in the sound system, vocabulary, and grammar; historical and cultural effects.

405G Phonetics. 3 hours.
Speech sounds, their production and acoustic properties. Cross-listed with Ex Ed 405G.

406G Advanced Writing Workshop. 3 hours.
Workshop setting for students with major writing projects such as a novel, play, or script, or a collection of essays, short stories, or poems.

407G Descriptive Linguistics. 3 hours.
Current linguistic theory which includes the important levels of language as a means of communication; various theories and applications of linguistic theory to other fields of study.

408G Psycholinguistics and Sociolinguistics. 3 hours.
Prerequisite: Introductory linguistics course. How sociology and psychology contribute to the study of linguistics. Emphasis on social and regional dialects, first and second language acquisition, and speech perception and production.

410G Theories of Rhetoric and Composition. 3 hours.
Classical and contemporary theories of rhetoric and composition with emphasis on application of the theories to writing and to the teaching of writing.

411G Directed Writing. 3 hours.
A tutorial for students to work under the supervision of a writing instructor. Students choose the form of writing they wish to pursue.

412G History of Rhetoric. 3 hours.
Survey of classical, traditional, and contemporary rhetoric as applied to written discourse. Emphasis on invention, arrangement, and style. Readings include the work of classic and modern rhetoricians. Consideration of rhetorically oriented methods of teaching written discourse.

455G American Drama. 3 hours.
See Department of Theatre and Dance.

456G Elizabethan Drama. 3 hours.
See Department of Theatre and Dance.

458G Modern British Novel. 3 hours.
Techniques and rationale in representative works of major British novelists from the era of Joseph Conrad to the present. Intellectual climate of the period.

459G Modern Drama. 3 hours.
See Department of Theatre and Dance.

460G Literary Criticism I. 3 hours.
Critical theory and practice of significant literary critics of the Western world from the Greek and Roman periods through the English Neo-Classical period.

469G Introduction to Teaching English as a Second Language. 3 hours.
Theories, methods, and materials for teaching English as a second or foreign language.

470G Methods and Materials for Teaching English as a Second Language. 3 hours.
Prerequisites: Eng 469/469G and one linguistics course. Develops skills, procedures, and strategies for teaching and utilizing commercial materials for the teaching of English as a second language. Cross-listed with Sec. Ed. 464G.

481G Chaucer. 3 hours.
Representative works of Chaucer, with emphasis on The Canterbury Tales; backgrounds; outside readings and reports.

482G Shakespeare I. 3 hours.
Selected major Shakespearean plays read and studied in the light of the Elizabethan period as representing typical dramatic writing and production.

483G The English Renaissance. 3 hours.
Nondramatic literature of the Renaissance, with emphasis on Spenser.

484G The Romantic Movement. 3 hours.
Background and phases of romanticism; representative exponents of the Romantic Movement.

485G The Seventeenth Century. 3 hours.
Seventeenth-century literature, forms, and developments.
**30 Department of English**

486G The Eighteenth Century. 3 hours.
Eighteenth-century literature, forms, and developments.

487G Dante. 3 hours
An intensive study of The Divine Comedy in English translation, with attention to the medieval background.

488G Literature of the Victorian Age. 3 hours.
Selected works by major poets, essayists, and novelists of Victorian England as a reflection of the culture of the age.

489G The English Novel. 3 hours.
Technique and history of the novel. Several representative novels studied.

490G The American Novel. 3 hours.
A chronological examination of the American novel and its development from the 18th century to the present. Major literary techniques and movements will be analyzed in the context of several representative American novels.

493G Major American Poets. 3 hours.
The most important American poets from Poe to the present.

494G The Kentucky Literature. 3 hours.
An intensive study of the works of Kentucky writers.

495G Dante. 3 hours
An examination of the themes, aesthetic importance, and historical context of canonical and non-canonical poems by women, with emphasis on twentieth century American and British women writers.

496G Major American Poets. 3 hours.
The major poems, the styles, and the poetic intent of the most important American poets from Poe to the present.

497G Women's Poetry. 3 hours.
An examination of the themes, aesthetic importance, and historical context of canonical and non-canonical poetry by women, with emphasis on twentieth century American and British women writers.

498G Robert Penn Warren. 3 hours.
An intensive study of the fiction, poetry, and non-fiction of Robert Penn Warren, American poet laureate, novelist, and critic. Warren's ties to south-central Kentucky will receive particular emphasis.

**DEPARTMENT OF GOVERNMENT**

**GRISE HALL**
**ROOM 300 (502) 745-4558, FAX (502) 745-2945**

**John D. Parker, Head**

**Graduate Faculty**

**Professors:** C. Chelf, E. Kearny, G. Masanat, J. Parker, J. Petersen, J. Uveges

**Associate Professor:** C. Hamilton

**Assistant Professor:** E. Yager

**Degrees Offered:** Master of Public Administration, Master of Arts in Education (Government minor)

**Master of Arts in Education (Government minor)**

Since this program is designed for the public school teacher, the student following it must meet all requirements for high school certification.

**Government minor/Secondary Education major:**

Education component (18 hours): Ed Fnd 500; Sec Ed 544; Sec Ed 580 and 3 hours from Psy 510, 511 or 519. Two 3-hour electives in education.

Government component: Twelve hours of advisor-approved graduate level government courses.

**Master of Public Administration**

The Master of Public Administration is designed to provide knowledge and skills appropriate for professional career development in governmental and/or quasi-governmental organizations. It is designed to (1) prepare college graduates (pre-service) for leadership roles in public service and (2) provide opportunities for practicing public managers and community leaders (in-service) for additional training and career development.

The degree requires 36 semester hours of coursework including completion of 21 hours of core courses.

An internship is required of all students unless exempted based on previous administrative or managerial experience. A final written comprehensive examination must be passed. Thesis not required.

Requirements are as follows:

**Core courses (21 hours)**

Govt 441 G Public Prsnl Adm
GOVT 442G Govt Fnci Adm
Govt 501 Meth of Pol Inq
Graduate Courses in Government

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Govt 538</td>
<td>Ethics and Bureaucracy</td>
<td>3</td>
<td></td>
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<tr>
<td>Govt 540</td>
<td>Seminar in Pub Sec org</td>
<td></td>
<td></td>
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<tr>
<td>Govt 545</td>
<td>Seminar in Pub Pol Anlys or Govt 546</td>
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<tr>
<td>Pub Pol Eval</td>
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<tr>
<td>Govt 598</td>
<td>Internship in Pub Adm., Govt 505 Wash</td>
<td></td>
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<tr>
<td></td>
<td>Internship, or Govt 597 Prof Sem in Pub Adm</td>
<td></td>
<td>(selected in consultation with advisor)</td>
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<tr>
<td></td>
<td>Electives (15 hours)</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>See MPA Advisor for list of approved electives</td>
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</tr>
</tbody>
</table>

Electives (15 hours)

The following 400-level courses may be taken for graduate credit: (Graduate students have course requirements beyond those of undergraduate students)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>403G</td>
<td>Field Studies in Politics</td>
<td>1-4</td>
<td>Practical problems of political research. Students will be directed through the design and execution of a major field study.</td>
</tr>
<tr>
<td>410G</td>
<td>Seminar in National Government</td>
<td>3</td>
<td>Research, reports, and discussion of selected aspects of national government.</td>
</tr>
<tr>
<td>411G</td>
<td>Seminar in State Government</td>
<td>3</td>
<td>Research, reports, and discussion of selected aspects of state governments and their subunits.</td>
</tr>
<tr>
<td>412G</td>
<td>Kentucky Government and Politics</td>
<td>3</td>
<td>Traces the government and political development of the state from its constitutional beginning to the present. Primary focus will be on the major factors and issues in the state’s political development within the context of the national governmental setting. The course will trace the role and influence of various political and social institutions in the state’s political development and their implications for the current political and governmental situation.</td>
</tr>
<tr>
<td>415G</td>
<td>Federalism and Public Policy</td>
<td>3</td>
<td>Study of the nature and impact of American federalism, including historical, fiscal, economics and political significance.</td>
</tr>
<tr>
<td>417G</td>
<td>Local and Regional Governments</td>
<td>3</td>
<td>A study and analysis of contemporary trends in local and regional governmental structure and activity; focuses on problems associated with the politics and policies found in local and regional governments, and how changes in local and regional communities affect the governmental process.</td>
</tr>
<tr>
<td>424G</td>
<td>Administrative Law</td>
<td>3</td>
<td>A study of the development of and trends in administrative law with emphasis on the problems caused by the exercise of quasi legislative and quasi judicial powers by administrative agencies, including the rights, duties and liabilities of public officials, relief against administrative action, jurisdiction, conclusiveness and judicial control.</td>
</tr>
<tr>
<td>440G</td>
<td>Elements of Public Administration</td>
<td>3</td>
<td>Introductory survey of governmental administration; emphasizes relationships between political issues and the practice of administration in areas such as organizational structures, personnel and financial management, control and accountability, and ethical issues.</td>
</tr>
<tr>
<td>441G</td>
<td>Public Personnel Administration</td>
<td>3</td>
<td>A systematic survey of public personnel administration in</td>
</tr>
</tbody>
</table>
the U.S. Discusses the development of modern personnel systems in the public sector and emphasizes contemporary trends at the state and local level as well as the national level of government.

442G Government Financial Administration. 3 hours.
A study of the financial administration process of government, with emphasis on local government. Subjects covered range from budgeting to risk management.

DEPARTMENT OF HISTORY

CHERRY HALL
ROOM 200 (502) 745-3842, FAX (502) 745-2950

Richard L. Troutman, Head

Graduate Faculty

Professors: J. Baker, C. Bussey, C. Crowe-Carraco,
R. Haynes, C. Jackson, D. Lee, M. Lucas, F. Murphy,
R. Salisbury, R. Stone, J. Thacker, R. Troutman,
R. Weigel

Associate Professors: R. Antony J. Hardin, H. Phillips

Assistant Professors: A. Bates, R. Dietle, P. Minter,
J. Thompson

Degrees Offered: Master of Arts in History, Master of Arts in Education (History major or minor).

Master of Arts in History

This program is designed to prepare students for the teaching of history on the junior or senior college level; to provide the initial graduate work for those who intend to pursue a doctoral degree; and to enhance the preparation of secondary teachers of history who desire to meet certification requirements through such a program.

In addition to meeting general Graduate Studies requirements, the applicant must present a major or minor in history with approximately a B average in this field. Students who meet the Graduate Studies requirements, but who do not meet departmental requirements maybe admitted after achieving at least a 3.0 average on at least six graduate hours in history taken as an unclassified student.

A student who has an undergraduate major in history may be permitted to take six to nine hours of graduate work in a related field in courses approved by the Graduate Advisory Committee. A student who presents an undergraduate minor in history must complete the entire program in the field of history.

Both Plan A (thesis) and Plan B (non-thesis) are available. Plan A requires a minimum of 24 hours of coursework, including Historiography 535 (unless previously taken) and the thesis. Reading proficiency in a modern foreign language must be demonstrated.

Plan B requires 36 hours. Historiography 535 (unless previously taken) must be included in the program or used as a research tool. The research tool may be met by (1) demonstrating proficiency in a foreign language, (2) completing Math 203—Statistics, or (3) completing History 535 (unless previously taken).

Students should contact the History Graduate Advisor early in their programs for a list of books to study in preparation for the comprehensive exam. Students must pass the comprehensive exam (oral and written) over coursework bibliography, and (if Plan A) a thesis.

Master of Arts in Education.
(History major or minor)

Since this program is designed for the public school teacher, the student following it must meet all requirements for renewing the teaching certificate. A minimum of 18 hours is required for a major. A maximum of 15 or a minimum of 12 hours is required for a minor. The remaining hours must be taken in professional education courses.

History and the Humanities Program

History is an integral part of the program leading to the Master of Arts in Humanities degree. As a general rule, students under the humanities program who enroll in graduate courses in history must have at least 18 hours of history as a prerequisite.

Graduate Courses in History

501 World History for Secondary Teachers. 3 hours.
Emphasis on bibliography, documents, historical interpretations and materials useful for secondary teachers of history.

502 United States History for Secondary Teachers. 3 hours.
Emphasis on bibliography, documents, historical interpretations and materials for secondary teachers of history.

515 Nineteenth Century Britain. 3 hours.
An intensive study of the political, economic, social, and intellectual developments within Britain and her Empire from 1815 to 1914.

521 United States 1900-1945. 3 hours.
A study of American social, political, economic, and cultural developments in the period that included two world wars and the Great Depression.

525 Social and Intellectual History of the U. S.: Nineteenth Century. 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>526</td>
<td>Social and Intellectual History of the U. S.: Twentieth Century</td>
<td>3</td>
<td>A study of twentieth century American thought and its relation to our social, economic, and political institutions.</td>
</tr>
<tr>
<td>527</td>
<td>Social and Intellectual History of Europe: Nineteenth Century</td>
<td>3</td>
<td>An examination of political, social, economic, and religious thought of nineteenth century Europe and its relation to the society of the period.</td>
</tr>
<tr>
<td>535</td>
<td>Historiography</td>
<td>3</td>
<td>A study of historical writing from ancient times to the present, with emphasis on European and American historians of the nineteenth and twentieth centuries.</td>
</tr>
<tr>
<td>554</td>
<td>Discovery and Interpretation of Local History</td>
<td>3</td>
<td>Materials, methodology and techniques employed in local history research and its integration with other fields.</td>
</tr>
<tr>
<td>569</td>
<td>Cooperative Education in History</td>
<td>3</td>
<td>Practical experience in a supervised work situation with a cooperating library, museum, archives, or other appropriate historical organization.</td>
</tr>
<tr>
<td>590</td>
<td>Advanced Individual Study</td>
<td>3</td>
<td>Prerequisite: 3.0 average in at least 9 hours at the graduate level. A research problem or intensive readings directed by a faculty member. May be repeated once with a different topic.</td>
</tr>
<tr>
<td>599</td>
<td>Thesis Research and Writing</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>Maintaining Matriculation</td>
<td>1-6</td>
<td></td>
</tr>
<tr>
<td>605</td>
<td>Seminar in Ancient History</td>
<td>3</td>
<td>A seminar that focuses on the historical developments in and cultural achievements of Ancient Greece or Ancient Rome. May be repeated once with a different topic.</td>
</tr>
<tr>
<td>606</td>
<td>Seminar in European History</td>
<td>3</td>
<td>Graduate seminar in such diverse areas as the Middle Ages, Renaissance, Reformation, and Nazi Germany. May be repeated once with a different topic.</td>
</tr>
<tr>
<td>615</td>
<td>Seminar in Non-Western History</td>
<td>3</td>
<td>Seminar on a selected topic or area of the non-Western world, including China, Japan, Middle East, Africa and Latin America. May be repeated once with a different topic.</td>
</tr>
<tr>
<td>619</td>
<td>Seminar in United States Diplomatic Relations</td>
<td>3</td>
<td>A study of issues, problems, and accomplishments in American foreign relations during the twentieth century. May be repeated once with a different topic.</td>
</tr>
<tr>
<td>622</td>
<td>Seminar in Western United States History</td>
<td>3</td>
<td>A study of the opening of the American West to settlement and of political, social, economic, and cultural aspects of the area. May be repeated once with a different topic.</td>
</tr>
<tr>
<td>630</td>
<td>Seminar in United States History</td>
<td>3</td>
<td>Graduate seminar in such diverse areas as Colonial America, the Federalist era, the Slavery Controversy, the U.S. since 1945. May be repeated once with a different topic.</td>
</tr>
<tr>
<td>631</td>
<td>Seminar in Kentucky History</td>
<td>3</td>
<td>A study of political, economic, social, and cultural developments in Kentucky from pioneer days to the present.</td>
</tr>
<tr>
<td>404G</td>
<td>Ancient Egypt</td>
<td>3</td>
<td>A study of ancient Egyptian civilization with attention to the rediscovery of ancient Egypt by modern scholars and the development of the disciplines of Egyptology.</td>
</tr>
<tr>
<td>419G</td>
<td>Tudor-Stuart England</td>
<td>3</td>
<td>A study of the principal political, economic, social, religious, and cultural developments in British history from the beginning of the Tudor dynasty in 1485 to the end of the Stuart dynasty in 1714.</td>
</tr>
<tr>
<td>422G</td>
<td>The French Revolution and Napoleonic Era</td>
<td>3</td>
<td>A survey of the period 1789 to 1815 with special emphasis on the political, economic, and social events leading to the birth of modern France.</td>
</tr>
<tr>
<td>425G</td>
<td>Modern Germany</td>
<td>3</td>
<td>A survey of German history from the early nineteenth century to the present.</td>
</tr>
<tr>
<td>426G</td>
<td>Hitler and Nazi Germany</td>
<td>3</td>
<td>A detailed study of German history between 1933 and 1945, emphasizing the political, economic, social, diplomatic, and military aspects.</td>
</tr>
<tr>
<td>428G</td>
<td>England Since 1914</td>
<td>3</td>
<td>A detailed study of the political, intellectual, cultural, and socioeconomic developments that transformed England into a welfare state and her empire into a commonwealth of nations.</td>
</tr>
<tr>
<td>440G</td>
<td>Colonial History of the United States</td>
<td>3</td>
<td>The founding and development of the colonies, emphasizing political, social, cultural, and economic institutions.</td>
</tr>
<tr>
<td>441G</td>
<td>The Formative Period, 1776-1815</td>
<td>3</td>
<td>A study of the Confederation, the making of the Constitution, and the development of the nation through the War of 1812.</td>
</tr>
<tr>
<td>442G</td>
<td>The Jacksonian Era</td>
<td>3</td>
<td>A detailed study of social, political, and economic events from the War of 1812 through the War with Mexico.</td>
</tr>
<tr>
<td>443G</td>
<td>Civil War and Reconstruction, 1850-1877</td>
<td>3</td>
<td>A study of the origins of the war, including an analysis of the military, social, cultural, and diplomatic events, as well as the significant developments of Reconstruction. Occasional field trips to Civil War sites.</td>
</tr>
<tr>
<td>444G</td>
<td>The United States, 1870-1900</td>
<td>3</td>
<td>A study of industrialization, expansion, immigration, urbanization, organized labor movements, and populism in late nineteenth century America.</td>
</tr>
</tbody>
</table>
445G American Legal History to 1865. 3 hours

446G American Legal History Since 1865. 3 hours

449G Korea and Vietnam. 3 hours.
A detailed study of both the Korean and Vietnam conflicts and how they related to the overall foreign policy of the U.S.

450G Diplomatic History of the United States to 1898. 3 hours.
An analysis of American diplomacy from the colonial period through the Spanish-American War.

451G Diplomatic History of the United States Since 1898. 3 hours.
An analysis of American diplomacy from the Spanish-American War to the present.

452G Urban History. 3 hours.
The rise of the city from colonial times to the present, focusing on the economic base of urban expansion, the social and cultural scene, the pattern of urban politics, urban services, municipal administration, and the image of the city in popular thought.

453G Women in American History. 3 hours.
Analysis of the role played by American women in the social, political, and economic phases of U.S. history.

454G The History of Religion in America. 3 hours.
Survey of the development of religion in America. Among topics: separation of church and state and American civil religion.

456G Kentucky History. 3 hours.
A study of the political, economic, social, and cultural development of the state from pioneer days. Local development is also stressed.

457G The Old South. 3 hours.
A study of economic, political, social, and religious institutions prior to 1865.

458G The New South. 3 hours.
A study of Southern institutional developments from Reconstruction to the present.

459G The Immigrant in American History. 3 hours.
The role of immigrant groups in the building of the American nation from the colonial period to the present.

460G Traditional East Asia. 3 hours.
A study of the political, socioeconomic, intellectual, and cultural history of China and Japan to 1600.

462G History of the Middle East. 3 hours.
A study of the history, religion, and culture of the Middle East from the rise of Islam until the present.

464G Latin America and the United States. 3 hours.
An intensive study of the relations between Latin America and the United States.

465G The Mexican Republic. 3 hours.
A study of Mexico from 1824 to the present.

471G Modern China. 3 hours.
Detailed study of rise of modern China since the 17th century.

472G Modern Japan. 3 hours.
Analysis of modern Japanese history since 1600 with special emphasis on Japan's transformation from a feudal to a modern state.

479G Topics in the Third World. 3 hours.
Intensive study of a selected Third World topic.

480G A Social History of Science. 3 hours.
A study of the cultural and intellectual impact that science has had on the West with an emphasis on the period since the seventeenth century.

490G Topics in History I. 3 hours.
Detailed study of selected topics in history.

491G Topics in History II. 3 hours.
Detailed study of selected topics in history.

DEPARTMENT OF JOURNALISM

GORDON WILSON HALL
ROOM 300 (502) 745-4143, FAX (502) 745-5835

Jo-Ann Huff Albers, Head

Graduate Faculty

Associate Professor: R. Adams

A graduate program is not offered by the Department of Journalism. However, students in other departmental programs may elect coursework from the limited offering in this area.

The following 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

427G School Journalism. 3 hours.
A course designed to meet the state requirements for secondary certification in journalism. Explores resources available to journalism teachers and the responsibility of publication advisors.

481G Problems in Mass Communications. 3 hours.
Individualized research, management, production, etc., in the fields of mass communication activities. May be repeated once for credit.
DEPARTMENT OF MODERN LANGUAGES AND INTERCULTURAL STUDIES

IVAN WILSON CENTER
ROOM 251 (502) 745-2401 / FAX (502)745-6859

Larry Danielson, Head

Graduate Faculty

Professors: J. Babcock, T. Baldwin, L. Danielson, J. Miller, L. Montell

Associate Professors: C. Collins, N. Love, R. Padilla, M.A. Williams

Assistant Professors: E. Brady, K. Egloff, J.A.K. Njoku, M. Stewart

Degrees Offered: Master of Arts in Folk Studies, Master of Arts in Education (Spanish major or minor; French major or minor; German major or minor; Folk Studies minor only).

The Historic Preservation option is available under the Master of Arts in Folk Studies.

Master of Arts in Education

Majors and minors are available in French, German, and Spanish. Since this program is designed for the public school teacher, students following it must meet all requirements for renewing the teaching certificate. Those persons majoring in French, German, or Spanish must take 18 hours in the major language. Those minoring in French, German, or Spanish may take a minimum of 12 and a maximum of 15 hours. The remaining hours will be taken in professional education. At least half of the required hours of coursework must beat the 500-level or above.

Graduate Courses in Modern Languages

French

520 Seminar in French Literature or Language. 3 hours
A seminar involving the study of a single French author, school of literature, or particular emphasis in a literary genre; or, an advanced level study of the French language, its use, development, and/or linguistic principles.

524 Nineteenth Century French Novel. 3 hours
A study of the French novel of the 19th century, emphasizing (but not limited to) the works of Hugo, Balzac, Stendahl, Flaubert, and Zola

526 Modern French Poetry. 3 hours
A study of the French poetry from Baudelaire to present, tracing French poetry from the development of symbolism, through the experiments of the early 20th century, to current poets and trends.

529 Seminar in French Literature. 3 hours
A seminar involving the study of a single French author, school of literature, or particular emphasis in a literary genre.

590 Comparative Romance Linguistics. 3 hours
A comparative linguistic study of French (and other Romance language), the principles and causative factors involved, and the nature of resulting developments.

601 Seminar in College Teaching. 3 hours
An introduction to the pedagogy of instruction at the post-secondary level. Intended, for graduate teaching assistants and others interested in pursuing careers as teachers in higher education. Research paper required.

German

538 Seminar in German Literature. 3 hours.
Intensive readings in a period, author, genre or topic. Research paper required.

539 Seminar in German Literature or Language. 3 hours.
Study of a single author or of a particular topic in German literature or language. Research paper required.

601 Seminar in College Teaching. 3 hours.
An introduction to the pedagogy of instruction at the post-secondary level. Intended for graduate teaching assistants and others interested in pursuing careers as teachers in higher education. Research paper required.

Spanish

570 Literature of Spain’s Golden Age. 3 hours.
Prose fiction, drama and poetry during the period 1479 to 1635.

572 Nineteenth Century Literature. 3 hours.
The novel, drama and poetry in 19th century Spanish literature.

575 Twentieth Century Prose. 3 hours.
The novel and the essay of the Generation of ‘98 and the novel of the post-civil war period in Spain.

576 Twentieth Century Poetry and Drama. 3 hours.
The drama of Spain from the Generation of ’98 through the contemporary period, with emphasis on Benavente and Garcia Lorca. Poetry from the Modernists through the contemporary period, with emphasis on Jimenez, Machado, and Garcia Lorca.

578 Seminar in Hispanic Literature or Language. 3 hours.
May be repeated once.

590 Comparative Romance Linguistics. 3 hours.
36 Department of Modern Languages and Intercultural Studies

601 Seminar in College Teaching. 3 hours.

The following 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

French

420G Advanced French Composition and Stylistics. 3 hours.
Prerequisite: FREN 320.
Creative self-expression, refinement of grammatical understanding, the art of translation, and stylistic devices.

421G Advanced French Conversation. 3 hours.
Prerequisite: FREN 321.
Discussion on assigned topics and reports on current newspaper and magazine articles. Special emphasis on idiomatic expression.

422G History of the French Language. 3 hours.
Prerequisite: FREN 221.
Phonological, morphological, syntactic, and lexical changes which turned the Latin spoken in Gaul into modern standard French. No previous training in linguistics required.

425G Nineteenth Century French Literature. 3 hours.
Prerequisite: FREN 326 or permission of instructor.
Romantic, Realistic, and Naturalistic trends of the 19th century, as exemplified in the French novel.

426G Twentieth Century French Literature. 3 hours.
Prerequisite: One 300-level French literature course.
A study of the works of major French writers of the 20th Century.

427G Francophone Culture. 3 hours.
Prerequisites: FREN 323
Covers all Francophone countries (including France) and deals with various aspects of culture: oral literature (legends, customs, etc.), music, religion.

429G Studies in French Literature or Language. 3 hours.
Topic selected in consultation with assigned instructor (may include literature or language). May be repeated once.

440G Early French Literature. 3 hours.
Prerequisite: FREN 324, 325 or equivalent.
A study of French literature from its written origins to the sixteenth century in modern French or English translation. Brief look at the Old French language. Works representative of Arthurian romances, chansons de geste, fabliaux, lyric poetry and crusade chronicles will be included.

441G Sixteenth Century French Literature. 3 hours.
Prerequisite: FREN 324, 325 or equivalent.
Study of French literature of the sixteenth century in modern French with varying emphases on the French Renaissance, humanist movement, poets of the Pleiade such as Ronsard and Du Bellay, the prose of Rabelais and Montaigne.

442G Seventeenth Century French Literature. 3 hours.
Prerequisite: FREN 324, 325 or equivalent.
Study of French literature of the seventeenth century with varying emphases on French verse, theatre, classicism, and prose in fiction and the moralist tradition, and featuring such authors as Descartes, Pascal, La Fontaine, Moliere, Corneille, Racine, La Rochefoucauld, and La Bruyere.

443G Eighteenth Century French Literature. 3 hours.
Prerequisite: FREN 324.
Study of French literature of the eighteenth century with varying emphases on the French Enlightenment, Encyclopedia, theatre, verse, and prose in treatises, (pseudo) memoirs, and epistolary novels. Works will be drawn from such authors as: Montesquieu, Voltaire, Diderot, Rousseau, and Beaumarchais.

445G Francophone Literature. 3 hours.
Prerequisite: FREN 321, 324, 325, or 326, or instructor's permission.
A survey of the Quebecois novel, theatre and poetry through a selection of 19th and 20th century writers.

German

430G Advanced German Composition and Conversation. 3 hours.
Intensive practice in written and spoken German, enabling the student to write letters, reports, essays, and descriptions and to discuss literary, cultural, and political topics.

432G History of the German Language. 3 hours.
Prerequisite: One 300-level German course.
Study of the origin of the German language from Indo-European to 1945, including a brief survey of German dialects.

435G German Literature of the 19th and 20th Centuries. 3 hours.
Major German, Austrian, and Swiss writers of the 19th and 20th centuries, with emphasis on prose and drama.

436G German Literature of the Classical Period. 3 hours.
Prerequisite: GERM 334.
The outstanding works of Goethe, Schiller, and other authors of the late 18th and early 19th centuries.

438G German Lyric Poetry. 3 hours.
Prerequisite: GERM 334.
German lyric poetry from the earliest times to the present. Representative works and authors.

439G Studies in German Literature or Language. 3 hours.
May be repeated once.

Spanish

470G Advanced Oral Spanish. 3 hours.
Prerequisite: SPAN 370.
Conversation units, dramatic sketches, original oral topics.

471G Advanced Spanish Composition. 3 hours.
Prerequisite: SPAN 371.
Examination of selected literary works; original compositions on selected topics.

472G Background of Modern Spanish. 3 hours.
Prerequisite: SPAN 371.
History of the Spanish language, stresses the development of sounds and forms, word borrowings, and changes in meanings.
475G Spain: From the Golden Age to the Age of Realism. 3 hours.
Chronological presentation of the culture of Spain through the study of literary masterpieces. Ideas and characteristics of cultural and literary periods in Spain and approaches to literary texts will be discussed.

476G Twentieth Century Spain. 3 hours.
Chronological study of the culture of Spain through literary masterpieces of the present century. Ideas and characteristics of cultural and literary periods in Spain and approaches to literary texts will be discussed.

477G Spanish America: Colonial Period to Modernism. 3 hours.
Chronological presentation of the cultures of Spanish America through the study of literary masterpieces from the Colonial period to the end of the nineteenth century. Ideas and characteristics of cultural and literary periods in Spanish America and approaches to literary texts will be discussed.

478G Twentieth Century Spanish America. 3 hours.
Prerequisite: SPAN 376 or equivalent.
Chronological presentation of culture of Spanish America through literature. Ideas and characteristics of cultural and literary movements.

479G Studies in Hispanic Literature or Language. 3 hours.
May be repeated once.

Master of Arts in Folk Studies

The study of folklore and folklife involves examination and analysis of traditional expressive culture in all its forms—including oral and material. In every society, agricultural and industrial, rural and urban, folklore is a vital part of life. The discipline has close affinities with literature, anthropology, sociology, history, geography, philosophy, ethnomusicology, and psychology. Adequate undergraduate preparation in any of these disciplines will be acceptable for admission to graduate study in folk studies. The student with an insufficient undergraduate G.P.A. will be asked to submit three letters of recommendation prior to consideration for admission.

Plan A (Thesis Option)

This option is intended to provide advanced knowledge of the theoretical and methodological aspects of folklore and folklife. Coursework will emphasize the history of the discipline, field research techniques, and surveys of various folklore genres. It is designed to prepare students for both academic and public sector professions and for further academic research.

Plan A requires a minimum of 36 hours plus the research tool. Specific requirements are FLK 577, 578, 569,561,576, 571; 12-15 hours of electives selected with advisor's approval (hours depend on whether FLK 578 is used as the research tool); and six hours thesis.

The research tool requirement may be met by demonstrating proficiency in a foreign language or by completing FLK 578 and taking an additional folklore course. The student must also pass a comprehensive written examination based on coursework and a program reading list.

Plan B (Applied Folklore Option)

This option requires additional coursework rather than thesis writing. It also permits individually planned programs (with advisor) stressing those combinations of course-related research, "hands on" skills, and writing experiences that will best prepare individuals for their personal and professional goals.

Plan B requires 36 hours of coursework plus the research tool. Specific requirements of the 18 hour core: FLK 577, 578, 569, 561, 576, and 571. In addition, FLK 572, 589, and 12-15 hours of electives (hours depend on whether FLK 578 is used as a research tool).

The research tool requirements are the same as for Plans A and C. The student must also pass a comprehensive written examination based on coursework and a program reading list.

Plan C (Historic Preservation Option)

While firmly grounded in the folk studies curriculum, the historic preservation option is designed to introduce students to the multiple facets of historic preservation and cultural conservation theory and practice. Classes in folk studies will be complemented by coursework in several cooperating departments, including geography and history.

Internships with a variety of local, regional and national institutions will also provide opportunity for practical work experience in historic preservation.

Plan C requires a minimum of 36 hours plus the research tool. Specific requirements are: FLK 577, 578, 569,561,576,571, 470G, 464G, 560, and Hist 554. The student must select 6-9 hours from the following: GEOG 434G, HIST 525, HIST 526, HIST 452G, FLK 446G, FLK 589HP, or other electives chosen with advisor's approval.

The research tool requirements and the written examination are the same as for Plans A and B.

Master of Arts in Education (Folk Studies minor)

This program is designed to enrich teaching content in the public schools in the arts, humanities, and social sciences, and to broaden the teacher's general education background. Admission requirements are the same as for the Master of Arts in Folk Studies. The Folk Studies minor requires a minimum of 12 hours in folklore, in-
eluding Folk Studies 577 and 578 and two folklore electives. One course from a related discipline maybe substituted for one folklore elective.

Graduate Courses in Folk Studies

500 American Folklore. 3 hours.
An overview of American folklore fields, including legends, folktales, folksongs, proverbs, beliefs, customs, folk speech, and material culture.

560 Cultural Conservation. 3 hours.
Survey of the history, organization, development, and major issues of cultural conservation, specifically as they relate to folklife and the built environment.

561 Folk Arts and Technology. 3 hours.
Examination of the study of material folk culture from various methodological and theoretical perspectives, including artifactual analysis, design theory and ethnoaesthetics.

566 Oral History Materials and Methods. 3 hours.
Methods and theories of oral history, legal and ethical considerations, uses and planning of local oral history projects.

567 Folklife Studies. 3 hours.
An overview of folklife studies focusing on its historical development, methodologies, and theories.

569 Folklore Genres. 3 hours.
An examination of the oral, customary, and material culture genres of folklore, and the theories and methods of genre studies.

570 Appalachian Folklore and Folklife. 3 hours.
Folklife and culture of southern Appalachia, with emphasis on verbal, customary, and material traditions.

571 Folk Narrative. 3 hours.
A survey of narrative genres of folklore and relevant scholarship.

572 Applied Folklore. 3 hours.
History, methods, and issues of public folklife.

573 Seminar in Interpretation of Myth. 3 hours.
Examination of historical and contemporary approaches to the study of myth.

574 Urban Folklore. 3 hours.
Folkloric aspects of urban America, with special emphasis on legends, customs, beliefs, and other lore of today’s regional, occupational, and ethnic groups.

576 American Traditional Song. 3 hours.
An examination of diverse forms of traditional American musical expression.

577 Folklore Theories and Techniques. 3 hours.
Folklore scholarship, its historical development, and its principal bibliographical materials.

578 Folklore Fieldwork and Oral History. 3 hours.
Examination of methodological issues and techniques in folklore fieldwork.

579 Directed Study and Research in Folklore. 3 hours.
Supervised individual study under the direction of a member of the folklore graduate faculty. (course pass required)

580 Folklore Conversation and Communication. 3 hours.
Forms of folklore which occur within a conversational stream. Expressive culture as a particular culture-specific mode of communication.

585 Topics in Folklore. 3 hours.
Topics of current interest in the field. Content varies according to the instructor and needs of the students. May be repeated once.

589 Internship in Folk Studies. 3 hours.
Supervised work situation with cooperating business, industry, social or governmental agency, emphasizing application of advanced knowledge and skills in folklore studies. (course pass required)

589H Internship in Historic Preservation. 3 hours.
Supervised work situation with a cooperating business, industry, social or governmental agency, emphasizing application of advanced knowledge and skills in historic preservation. (course pass required)

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

The following 40&level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

410G African-American Music. 3 hours.
A survey of selected musical styles created and developed by African-Americans from the 17th to the 20th century: spirituals, blues, popular music forms (e.g. soul, reggae, rap music). Emphasis will be placed on the historical factors and sociocultural trends that influenced the development of African-American music.

446G Restoration of Historic Interiors. 3 hours.
Design and other aspects of interior historic restoration of both academic and vernacular structures. Attention focused on aesthetic issues of designing domestic and commercial historic interiors for restoration. Cross-listed with Consumer and Family Sciences 446G.

447G History of Architecture Interiors III. 3 hours.
Analysis of styles in architecture and interiors from ca. 1900 to present time. Emphasis on interiors and furnishings of both: academic and vernacular structures and the forces which affected their development. Cross-listed with Consumer and Family Sciences 447G.

462G Folk Medicine. 3 hours.
Examines the role of traditional culture in shaping attitudes and behavior related to sickness, health, and healing. Insti-
tutional, alternative, and informal medical settings are discussed.

464G Vernacular Architecture. 3 hours.
The forms, functions, and styles of buildings constructed according to custom from local materials to meet individual and cultural preferences.

470G Museum Procedures and Preservation Techniques. 3 hours.
Essential aspects of museums and of preservation, i.e., collecting, preserving, researching, exhibiting, and interpreting material culture.

478G Folklore in Literature. 3 hours.
Readings in world literature from the Bible to the modern novel and examination of the degree to which oral literature has affected origins and development of written literature.

480G Women's Folklife. 3 hours.
The various images and roles of women in the U.S. and selected world cultures as reflected in folklife materials such as narratives, beliefs, ballads, rhymes, games, customs, and folk arts.

DEPARTMENT OF MUSIC

IVAN WILSON CENTER
ROOM 351 (502) 745-3751, FAX (502) 745-6855

John A. Duff, Head

Graduate Faculty

Professors: J. Duff, S. Kersenbaum, C. Smith, R. Swanson, E. Volkman

Associate Professors: M. Kallstrom, D. Kelsey

Assistant Professors: J. Carmichael, J. Pope, M. Scott, J. Stites

Degrees Offered: Master of Arts in Education (Music major or minor).

The graduate program in music functions to provide continued development of (1) individual talents and interests which will result in enrichment of their personal lives and will enable them to preserve and extend our cultural heritage, and (2) professional and scholarly competence in organization, interpretation, evaluation, communication and dissemination of knowledge in the discipline. The Master of Arts in Education (Music Major) further enables the teacher/practitioner to meet certification renewal requirements mandated by the state of Kentucky. The applicant must demonstrate ability and knowledge through examination in music theory and music literature upon entering the program. A comprehensive written examination is required of all candidates near the end of their coursework.

Master of Arts in Education
(Music major or minor)

This degree program requires a minimum of 30 hours. Since this program is designed for the public school teacher, the student following it must meet all requirements for the professional certification. Twelve hours must be selected from the following courses: EDFN 500 or Music 511; SEC 580; SEC 544 or ELED 544; PSY 510 or PSY 551.

The music specialization component must include twelve hours, with at least two fields represented. Selections will be made from: Music 500, 501, 513, 518, 525, 530, 407G, and 417G, each three hours; 402G, 403G, and 405G, each two hours; 453G or 454G for a maximum of two hours; and 440G, 441G, 444G, 445G, 448G, 449G and 471G for a maximum of one hour.

For the elective individualization component, students will select six hours from the following list, or from courses not selected in the specialization component, or from professional education courses approved by the education advisor in consultation with the music advisor; Mus 509, 512, 514, 515, 414G, 415G, and 416G, each three hours; and 450G or 451G for a maximum of one hour.

Each of the courses, Music 512, 513, and 530 may be repeated for an additional three hours credit with approval of the advisor.

The minor requires a minimum of twelve or a maximum of fifteen hours in music. The remaining hours will be taken in professional education courses. A typical program consists of a balanced selection of music education and music literature offerings. In addition, consideration is given to those with an interest in music theory, instrumental arranging, applied music (primary or secondary) or a related field.

NOTE: The minor in music will renew the provisional high school certificate.

Graduate Courses in Music

500 Seminar in Theory. 3 hours.

501 Analytical Techniques. 3 hours.
Harmonic and contrapuntal analysis in various styles.

509 General Music in the Elementary and Middle Schools. 3 hours.
Includes advanced study of contemporary elementary music education trends, methodologies, instructional techniques, and materials. Expands contemporary instructional methods.
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510 The Teaching of Applied Music. 3 hours.
Investigation of pedagogical problems in a specific performance area of music.

511 Investigations of Music Education. 3 hours.
Problems and Methods of research in music education. Includes application of pure and action research and investigation of published research in music education.

512 Music Education Workshop. 1 to 3 hours.
A variable topic workshop that may be repeated for a total of six hours.

513 Directed Individual Study. 3 hours.
Research projects in music education.

514 General Music in the Secondary Schools. 3 hours.
Training the music teacher to provide orientation experiences for junior and senior high school non-performers.

515 Administration and Supervision of Public School Music. 3 hours.
Current trends in educational thought and implications of administration, instruction and evaluation of public school instrumental music.

517 Advanced Conducting. 3 hours.
Course designed to sharpen and enhance skills as an ensemble conductor. Emphasis on specific conducting problems, rehearsal techniques and score study.

525 Music and the Human Experience. 3 hours.
An investigation and study of the art of music encompassing the historical, philosophical, psychological and sociological tenets of the discipline.

530 Music Literature. 3 hours.
Investigation of a specialized area not covered in other music literature courses.

538 Directed Individual Study. 3 hours.
Supervised private research culminating in a scholarly paper.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

The following 400-level courses may be taken for graduate credit. Since these courses usually enroll both graduates and undergraduates, students receiving graduate credit will be expected to attend additional class sessions such as seminars, small groups discussions, or similar type extensions to the regularly scheduled class meeting time. Furthermore, graduate students will be expected to complete additional assignments beyond those assigned to the undergraduate enrollees, and evaluation criteria that is appropriate for graduate level will be applied to all work required of graduate students.

402G Counterpoint 1. 2 to 3 hours.
Prerequisite: Theory 201


403G Counterpoint II. 2 to 3 hours.
Prerequisite: Counterpoint 1.
Continuation of Counterpoint I. Original compositions for three, four and five voices in the sixteenth-century style.

405G Choral Arranging. 2 hours.
Prerequisite: MUS 201
A study of the principles of part-writing, arranging and editing for various voice groupings. Practical application for school and church choruses will be stressed.

407G Orchestration and Band Arranging. 3 hours.
Prerequisite: Theory IV.
A study of the characteristics and techniques of the various orchestra and band instruments. Practical experience in scoring for full symphonic orchestra and symphony band. Performances given for selected orchestrations and arrangements.

414G Choral Materials. 2 hours.
Prerequisite: MUS 415
A practical survey for the school and church musician of choral music from the fifteenth through the twentieth centuries. Course emphasis will be on the evolution of secular and sacred choral forms and performance practices which would be accessible for most choral programs.

415G Choral Methods. 2 hours.
A study of the techniques of choral development from the rehearsal procedures to performance. Emphasis is also placed on cultivating choral musicianship, program planning and organizational development.

416G Instrumental Methods. 3 hours.
Organization of the school instrumental program; problems, materials and program planning for the school orchestra and band from the elementary grades through high school; special problems in connection with concerts, festivals, materials and administrative details.

417G Marching Band Techniques. 2 hours.
Systems, mechanics, and charting the modern exhibition marching band, including visual support units.

430G Music Literature. 2 to 3 hours.
A survey embracing music of several periods, styles, and forms.

432G Research Techniques in Music. 3 hours.
The examination, evaluation and employment of research materials and methods in music.

440G Choral Union. 1 hour.

441G Choir. 1 hour.

444G Orchestra. 1 hour.

445G Chamber Singers. 1 hour.

448G Band. 1 hour.
DEPARTMENT OF PHILOSOPHY
AND RELIGION

CHERRY HALL
ROOM 300 (502) 745-3136, FAX (502) 745-5261

Alan B. Anderson, Head

Graduate Faculty

Professors: A. Anderson, M. Howe, L. Mayhew,
E. Schoen, J. Trafton, D. Tuck, R. Veenker, A. Vos

Associate Professors: J. Garrett, J. Long, M. Seidler

Assistant Professors: C. Pinnick, L. Snyder

Degree Offered: Master of Arts in Humanities (an interdisciplinary program).

Master of Arts in Humanities

The M.A. program in humanities is designed to provide the student with a broad background in disciplines central to the humanities and a particular focus or option in a single field of study.

The program consists of a 15-hour core plus a 15-hour option, which must include 598–Humanities Essay (3 hours) or 599–Thesis Research and Writing (6 hours), and a final written examination. The student must also demonstrate reading ability in either French, German, or Greek. Another language may be substituted if it is required for the student’s research and it is approved by his or her advisor.

The core of the program consists of courses in four humanities disciplines and a basic methodology course in interdisciplinary studies as follows:

- English 520, Introduction to Graduate Studies, 3 hours
- History 535G, Historiography, 3 hours
- Philosophy 501, Readings in Philosophy, 3 hours
- Religious Studies 501, Graduate Seminar in Religious Studies, 3 hours
- Philosophy 500, Humanities Seminar, 3 hours

The following 400-level Philosophy courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.
401G Readings in Philosophy. 3 hours. An intensive study of selected philosophic classics or readings in a selected area of philosophy. May be repeated for different topics.

402G Theory of Knowledge. 3 hours. Selected topics such as rationalism, empiricism, pragmatism, idealism, skepticism, explanation, theories and evidence, justification, perception, reference, and meaning.

403G Metaphysics. 3 hours. Selective exploration of central problems in metaphysics, such as the nature of persons, the status of universals, or the structure of space and time.

405G Current issues in New Testament Studies. 3 hours. A critical investigation into the major methodological developments in New Testament study from the 18th century to the present.

415G Advanced Logic. 3 hours. Prerequisite: PHIL 110 or PHIL 115 and permission of the instructor. Advanced topics in First Order Logic, through Quantification Theory with identity, and topics in the Philosophy of Logic. The course will emphasize Computer Assisted Instruction (C. A. I.) and will use the campus VAX network.

425G Twentieth Century British Philosophy. 3 hours. An examination of the types of philosophical analysis which emerged between the two world wars and which have exerted a great influence on recent British philosophical thought. Included will be the contributions of Ryle, Wisdom, Austin, Strawson, B. Russell, Moore, Wittgenstein, Frege, and Quine.

499G Research in Philosophy. 3 hours. Directed study and research in one area of philosophy. The research will culminate in an acceptable thesis.

Graduate Courses in Religious Studies

501 Graduate Seminar in Religious Studies. 3 hours. Specific issues in one of the areas of concentration.

502 Seminar in Religious Literature. 3 hours. Selected literature from one major religious tradition. May be repeated with different topics.

520 Seminar in Religious History. 3 hours. Significant topics, movements, or events in the development of one major religious tradition. May be repeated with different topics.

530 Seminar in Religious Thought. 3 hours. Selected topics or thinkers from one major religious tradition. May be repeated with different topics.

The following 400-level Religious Studies courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

400G Contemporary Religious Thought. 3 hours. A study of the writings of the creative theological minds of the twentieth century.

401G Religious Studies Seminar. 3 hours. A seminar with rotating topics designed primarily for advanced students in religious studies. May be repeated for different topics.

405G Current issues in New Testament Studies. 3 hours. A critical investigation into the major methodological developments in New Testament study from the 18th century to the present.

415G Old Testament Themes. 3 hours. Examination of such Old Testament themes as creation, covenant, human being, sin, righteousness, truth, and faithfulness.

430G Christianity to 1517. 3 hours. Development of Christian thought and institutions prior to the Reformation.

431G Christianity from 1517 to the Present. 3 hours. Development of Christian thought and institutions from the Reformation to the present.

440G Judaism. 3 hours. An integration of the history, literature, religion, art, and music of eastern European and American Jewry in order to provide the student with a cultural experience in Judaism. A field trip to a Nashville synagogue is required.

445G Religious Traditions of Israel. 3 hours. A study of development of ancient sacred traditions of the Hebrew people and their formative influence upon the structures of the five books of Moses.

475G Religions of South Asia (India) 3 hours. A study of the traditional patterns, interactions between major and minor movements, and adaptations of religion to the changing needs of society among the people of India.

480G Religions of East Asia (China and Japan). 3 hours. A study of traditional patterns, interactions between major and minor movements, and adaptations of religion to the changing needs of society among the people of China and Japan.

499G Research in Religious Studies. 3 hours. Directed study and research in one area of religious studies.

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

GRISÉ HALL
Room 101 (502) 745-3759, FAX (502) 745-6493

Paul R. Wozniak, Head
Graduate Faculty


Associate Professors: S. Groce, B. Tuthill

Assistant Professors: L. Newhart, R. Pace

Degrees Offered: Master of Arts in Sociology, Master of Arts in Education (Sociology minor).

Master of Arts in Sociology

This program aims toward the development of specific skills, especially those related to the quantitative research process, theory, micro-computing and report preparation. Completion of the M.A. in Sociology will prepare graduates for positions in public or private agencies and give thorough preparation for teaching and for advanced study at the doctoral level. The course of study includes training in general sociological theory, social research methods, statistics, micro-computing and technical writing. Additional academic training is provided in substantive areas as well as directed study.

A GPA of 3.0 (based on 4.0), or a GPA of 3.0 in the last sixty hours of undergraduate work, or a combined (verbal, quantitative, and analytical) score of 1250 on the Graduate Record Examination is required for admission. In addition, students entering this program must have completed eighteen undergraduate hours in sociology, usually including courses in theory, methods, and statistics, with an average of "B" or better. To apply for an assistantship an undergraduate grade point average of 3.2 (based on 4.0) or a composite score of 1350 on the Graduate Record Examination is desired. In circumstances where special competence has been developed through experiences other than traditional coursework or through extensive coursework in related disciplines, the departmental guidelines may be adjusted by approval of the department head in consultation with the department graduate committee.

Both Plan A (thesis) and Plan B (applied research/exam) are available. Students who anticipate doctoral study are encouraged to pursue Plan A. Under either plan, students must take the department's required core courses as follows:

- Soc 512- Sociological Theory
- Soc 513- Methods of Social Research
- Soc 514- Sociological Statistics
- Soc 520- Technical Writing in Sociology

Under the thesis option, Plan A, thirty hours are required — 24 hours of coursework and 6 hours of thesis credit. Fifteen hours of 500-level coursework must be taken within the department. Up to twelve hours may be taken at the 400 G-level. With the approval of the student's advisor and the department head, six hours may be taken in a related field. The oral defense of the thesis will serve as the final examination for students following Plan A.

Under the applied research/examination option, Plan B, thirty hours are required. Soc 515, Advanced Data Analysis, must be taken. (Eighteen hours of 500-level coursework are required, fifteen of which must be taken within the department). Up to twelve hours maybe taken at the 400 G-level. With the approval of the student's advisor and the department head, six hours may be taken in a related field.

There are two options under Plan B:
1. An applied research paper and an oral defense which will serve as a final examination; or
2. A written examination covering sociological theory and research methods and their application to selected substantive courses taken in the graduate program will serve as the final examination.

Beyond the 30-hour requirement under Plan A or Plan B, the student must demonstrate acquisition of an appropriate research tool. This requirement may be met by either: (1) passing a foreign language examination demonstrating reading proficiency in a foreign language appropriate to the major area, or (2) earning a grade of "B" or better in Soc 400G, Statistical Software for Social Scientists.

Courses on developing teaching/communication skills (Socl 500, 501) and affiliation with the Center for Teaching and Learning are available for students who want to become Teaching Associates with responsibility for teaching introductory courses for the department.

Master of Arts in Education (Sociology minor)

This program provides graduate coursework in sociology for the public school teacher, and the student pursuing it must meet all requirements for renewal of the high school teaching certificate. The student minoring in sociology may take a minimum of 12 hours or a maximum of 15 hours in sociology. The remaining hours are taken in professional education courses.

Graduate Courses in Sociology

500  Seminar in the Teaching of Sociology. 2 hours. Workshop for students who plan to teach sociology.

501  Practicum in the Teaching of Sociology. 1 hour. Seminar for students who are teaching sociology.

511  Advanced General Sociology. 3 hours. Prerequisite: Six hours of Sociology or consent of instructor.
Department of Sociology and Anthropology

Examination of the various sub-disciplines of the field and the most important developments in each. Also includes recent research and theory in the various subfields.

512 Sociological Theory. 3 hours.
Prerequisite: Six hours of Sociology or consent of instructor. Analysis of current sociological theories, including a survey of recent approaches to the construction and application of systematic theoretical models.

513 Methods of Social Research. 3 hours.
Prerequisite: Six hours of Sociology or consent of instructor. Covers concept definition, model building, and research design appropriate to problem and data. Includes a review of representative research studies to acquaint the sociology major with advanced social research methodology, techniques, and procedures.

514 Advanced Social Statistics. 3 hours.
Prerequisite: Basic statistics at the undergraduate level or consent of instructor. Forms of statistical analysis commonly applied to sociological research data. Includes multiple and partial correlation and regression, one- and two-way analysis of variance, path and non-linear function analysis, interaction effects, and introduction to factor analysis.

515 Advanced Data Analysis. 3 hours.
Prerequisites: Socl 400G, 513, 514 or equivalent. Multivariate forms of statistical analyses commonly applied to quantitative sociological research data. Covers applications and extensions of the general linear model, including dummy variable regression, analysis of variance and covariance, etc.

520 Professional and Technical Writing. 3 hours.
Designed to assist students in writing theses, proposals, papers for publication, and some of the documents required of the sociologist in the industrial world.

531 Deviant Behavior. 3 hours.
Prerequisite: Six hours of Sociology or consent of instructor. Types of deviant behavior with emphasis on criminality, delinquency, drug addiction, and alcoholism. Also covers current sociological theory and research in the field.

532 Criminology. 3 hours.
Prerequisite: Six hours of Sociology or permission of instructor. Theories of crime causation and current research in the areas of criminology and corrections - methodological research considerations.

541 Demography. 3 hours.
Prerequisite: Six hours of Sociology or permission of instructor. A review of the demographic processes such as mortality, fertility, and migration, with emphasis on measurements, methods, and analytical techniques.

542 Community. 3 hours.
Prerequisite: Six hours of Sociology or consent of instructor. Ecological and social concepts of the community and its structure and function.

551 Sociology of the Family. 3 hours.
Prerequisite: Six hours of Sociology or consent of instructor. Analysis of the family institution; the impact of modern culture on the family.

552 Sociology of Economic Life. 3 hours.
Prerequisite: Six hours of Sociology or consent of instructor. The meaning of work and its social importance in contemporary society, the integration of sociological theories of work, and the procedures used in the sociological analysis of work.

561 Advanced Social Interaction: Self in Society. 3 hours.
Prerequisite: Six hours of Sociology or permission of the instructor. The self in social environment, especially face-to-face interaction as individuals interpret, influence, and react to others' actions. Emphasis on identity, roles, and definitions of the situation.

562 Formal Organizations. 3 hours.
Prerequisite: Six hours of Sociology or consent of instructor. The goals, internal structure, and environmental relations of large organizations. Emphasizes the emergence of bureaucracies, competing theoretical frameworks for viewing organizations, and the analysis of organization change.

571 Topical Seminar in Sociology. 3 hours.
Significant topics, issues, or developments in the discipline. May be repeated with a different topic.

595 Directed Study. 1-3 hours.
Prerequisite: Consent of the instructor and the department head. Individual research in a specific area of sociology in close cooperation with supervising faculty.

597 Research Practicum. 3-6 hours.
Prerequisites: Twenty-four graduate credit hours earned and the research tool successfully completed. Application of research skills in the community setting.

598 Internship in Sociology. 3-6 hours.
Prerequisites: Twenty-four graduate credit hours earned and the research tool successfully completed. Practical experience in a supervised work situation with a cooperating agency.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

These 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

400G Statistical Software for Social Scientists. 3 hours.
Prerequisite: Socl 300 and 302 or permission of instructor. Use of micro and/or mainframe computers for statistical analysis of social science data. Emphasis is placed on programming skills in the Statistical Package for the Social Science (SPSS), micro or mainframe operating systems, and the use of software developed for data entry, analysis, and presentation.
402G Evaluation Research Techniques. 3 hours.
Prerequisite: Socl 300 and 302 or their equivalent and permission of instructor.
Procedures and problems in conducting research to evaluate programmatic effects.

404G Qualitative Research Methods. 3 hours
Prerequisite: Graduate Standing
A study of the methods and techniques used in qualitative sociological research. Topics include observational research, in-depth interviewing, hermeneutic analysis and discourse analysis.

408G Survey Applications. 3 hours.
Prerequisite: Socl 300 and 302 or their equivalent and permission of instructor.
Student involvement in the design, conduct, analysis, and dissemination of an actual social survey research project.

410G Socialization: Changes Through Life. 3 hours.
Theories and research techniques in socialization; findings that deal with changes over the life cycle.

415G Sociology of Language. 3 hours.
Intensive examination of forms and functions of language from sociological perspective.

420G Political Sociology. 3 hours.
Prerequisite: Nine hours of Socl or consent of instructor.
Political behavior within a sociological perspective. Includes social cohesion, legitimacy, and political socialization, and power structures.

422G Sociology of Work and Leisure. 3 hours.
Prerequisite: Graduate standing.
Major types of work, workers, and work settings in the U.S. and the patterns of leisure activity associated with them.

430G Penology. 3 hours.
Prerequisite: Socl 330 or consent of instructor.
Development of punishment and correctional programs, with emphasis on sociological considerations. Prison field trips required.

432G Sociology of Criminal Law. 3 hours.
Sociological research and theory focusing on social structural factors affecting the creation of criminal codes, the enforcement of criminal law, and the imposition of penal sanctions.

433G Community Corrections. 3 hours.
Prerequisite: Socl 330, its equivalent or permission of instructor.
Socio-legal analysis of community-based treatment of criminal offenders including forms of diversion, probation, and parole; the techniques of sentencing, the supervision of clients, and a program evaluation.

434G Organized Crime. 3 hours
Prerequisite: Graduate standing
The study of both traditional and nontraditional organized crime from a sociological perspective.

435G Family Violence. 3 hours.
Prerequisite: Six hours of sociology. This course is designed to provide the student with a sociological perspective on family violence in the United States. Emphasis is placed on child abuse and wife abuse. Research, theory, laws, treatment and prevention are analyzed.

440G Medical Sociology. 3 hours.
Comprehensive examination of the social organization of the health care industry in the U.S. Focus on origins and development of medicine, social epidemiology, the social construction of illness and illness behavior, the professionalization of medicine and patterns of social interaction between health providers and patients.

450G Occupations and Professions. 3 hours.
Prerequisite: Socl 346 or consent of instructor.
Occupation specialization and the nature of occupational organization. Examines a variety of occupations and professions to determine the place of work in the lives of their members.

452G Social Change. 3 hours.
Prerequisite: Nine hours of Socl or permission of instructor.
Nature and theories of social change and the factors affecting it. Emphasis on modernization and institutional changes in contemporary societies.

460G Urban Sociology. 3 hours.
Prerequisite: Six hours of Socl or consent of instructor.
The impact of city life on social actions, social relationships, and social institutions. Emphasis on the rise and significance of cities in American life.

The following 400-level courses may be taken for the graduate level in Anthropology. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

402G Field Research Methods in Anthropology. 3 hours
A hands-on practicum in field research that will include quantitative and qualitative methods of data collection and analysis as well as ethical considerations of research.

430G Archaeology of Kentucky. 3 hours
A detailed examination of the various prehistoric cultures which inhabited Kentucky. Particular emphasis is given to diagnostic artifacts and representative sites.

431G Field Course in Archaeology. 1 to 4 hours each
Includes archaeological survey, site excavation, mapping and recording techniques and cataloging procedures. Excavation is usually conducted on prehistoric Indian sites.

432G Field Course in Archaeology. 1 to 4 hours each
Available to superior students who wish to conduct individual research in specific area of anthropology. Students will work in close cooperation with supervising faculty. Submission of such projects to student sections of regional professional meetings is encouraged.

496G Directed Study. 3 hours per semester
Available to superior students who wish to conduct individual research in specific areas of anthropology. Students will work in close cooperation with supervising faculty. Submission of such projects to student sections of regional professional meetings is encouraged.
DEPARTMENT OF THEATRE AND DANCE

IVAN WILSON CENTER
ROOM 114 (502) 745-5845

William E. Leonard, Head

Graduate Faculty

Professor: W. Leonard

Degree Offered: Master of Arts in Education (Theatre minor)

The department also offers courses used as electives in other programs such as the M.A. in English and the M.A. in Communications.

Graduate Courses in Theatre

550 Seminar in Theatre. 3 hours.
Provides theatre experience through research and application. Individual investigation of interpretative, technical, or promotional problems.

553 Restoration and Eighteenth Century Drama. 3 hours.
Representative plays, evacuation of influences, movements, and productions. Reading and individual study.

583 Shakespeare II. 3 hours.
(See English 583)

The following 400-level Theatre courses maybe taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

422G Lighting Design. 3 hours.
Lighting equipment demonstration and practical experience in working with lights for the major productions. Each student will design the lighting for a full-length play.

423G Theatre Management. 3 hours.
Principles of management applied to fields of theatre operation, production preparation, and performance.

424G Special Problems in Technical Theatre. 3 hours.
Advanced study in the areas of scenery, costume, lighting, and sound.

431G Musical Theatre. 3 hours.
Development of the musical theatre; the style and form of its music, dance and drama; and its impact on the modern theatre.

441G Costume Design. 3 hours.
For theatre majors and those interested in understanding the concept of costuming. Emphasis on the historical and practical aspects of theatrical costume design.

442G Historic Decor for Stage. 3 hours.
Historic costumes of the major periods of theatrical production. Covers the costumed actor's problems with manners and movements.

445G Research in Theatre and Dance. 3 hours.
Independent study directed by theatre / dance faculty advisor.

455G American Drama. 3 hours.
Development of American drama from the colonial period to the present. An overview of American drama and the works of major American playwrights of the past forty years.

456G Elizabethan Drama. 3 hours.
Intensive study of the immediate predecessors and contemporaries of Shakespeare.

459G Modern Drama. 3 hours.
Dramatic literature since Ibsen, with emphasis on evolving developments and trends in world theatre.

461G Theatre Practicum. 3 hours.
Reading of plays and dramatic materials; staging methods; script selection for production, script with analysis of director's research; individual interpretation and production plans; final production.

482G Shakespeare 1. 3 hours.
See Department of English.

491G Puppet Theatre. 3 hours.
Puppets, puppets and marionettes with emphasis on history, construction, operation, and performance.

499G Studies in British Theatre. 3 hours.
Includes a tour to England and viewing of representational plays, visits to historical and cultural sites.
COLLEGE OF
BUSINESS ADMINISTRATION

J. Michael Brown, Dean

DEPARTMENTS

Accounting
Economics
Finance and Computer Information Systems
Management
Marketing

DEGREES OFFERED

Master of Arts in Economics
Master of Arts in Education
Economics Major or Minor
Master of Professional Accountancy
DEPARTMENT OF ACCOUNTING

GRISE HALL

Jack Hall, Head

Graduate Faculty

Professors: J. Colbert, J. Hall, C. Hays, J. Philhous

Associate Professor: C. Aldridge, N. Magner, S. White

Assistant Professors: M. Lee

Degree Offered: Master of Professional Accountancy

The Master of Professional Accountancy is an advanced program of study designed to enhance the candidate's undergraduate background and to support entry into various fields of professional accountancy. The program contains instruction in communication skills, problem solving, and general knowledge to support technical accounting courses relevant to the economic climate of global business.

When coupled with the traditional baccalaureate degree, the MPA program fulfills the 150 semester hour education requirement for:

- admission to sit for the Certified Public Accountants examination in the various states requiring the 150 hours of education (including Kentucky and Tennessee)
- admission to membership in the American Institute of Certified Public Accountants (year 2000)
- admission to various state societies of CPAS

The program consists of graduate level accounting and other courses in communications, ethics, economics, world culture, government and/or other areas of arts and sciences. The program is designed primarily for full-time students who possess a baccalaureate degree with a major in accounting. If these individuals meet the American Assembly of Collegiate Schools of Business core curriculum, they may complete the program with a minimum of 30 semester hours, including 15 hours of graduate accounting courses plus 15 hours of other graduate courses approved by the Graduate Accounting Studies Director. (Persons without these credentials will be required to complete more hours). Individuals may be admitted to the program on a part-time basis, if they demonstrate a strong commitment to continuous enrollment and timely completion of the degree.

Admission Criteria:

In order to be considered for admission to the MPA program, an individual will be evaluated based on the following criteria:

a. Completion of graduate application form.

b. Official Graduate Management Admissions Test GMAT grade report with an acceptable minimum score of 450.

c. A minimum overall and accounting undergraduate GPA of 2.75. Alternatively, a 2.75 GPA in the last sixty hours of undergraduate courses may be substituted for the overall GPA. The GPA will be subject to recalculation to include undergraduate courses repeated.

d. Official transcripts of all college work attempted, indicating the receipt of a Bachelor's degree. If the undergraduate degree is in an area other than accounting, additional undergraduate coursework would be necessary before the individual could be admitted to the MPA program. The individual's performance in upper division undergraduate accounting courses will be critically evaluated.

e. A minimum of three letters of reference. These should include letters from previous faculty members who are in a position to comment specifically on the individual's potential for success in graduate study.

f. The GMAT score, plus the overall undergraduate GPA multiplied by 200, should result in a minimum score of 1050.

g. Official TOEFL score (if a foreign applicant) This portfolio of information will provide the basis for arriving at a decision to admit an individual to the MPA program. It should be noted that meeting these minimum criteria does not automatically result in admission to the MPA program. Minimum requirements only establish eligibility. Selection for admission is based on evaluation of the previously-listed criteria. Unusual circumstances will be noted to determine exceptions, if any, to the general requirements.

Program Content

Normally, a full-time candidate may complete the 30 hour program in two semesters and one summer session. Accounting courses are cycled to permit such completion.
Accounting courses (3 hours each)

ACCT 500 Advanced Financial Accounting Theory and Practice

ACCT 510 Advanced Accounting Information Systems and Controls

ACCT 520 Seminar in Advanced Managerial Accounting*

ACCT 530 Seminar in Tax Research and Planning

ACCT 540 Advanced Auditing Standards and Applications

ACCT 550 Seminar in Accounting for Nonprofit Organizations*

* Select a minimum of one of these courses.

Nonaccounting Courses: 15 hours (e.g., economics, social sciences, humanities).

Note: Not more than 6 of the 30 semester hours may be selected from 400G courses.

A comprehensive examination is required over the major area at the end of the program.

Graduate Courses in Accounting

500 Advanced Financial Accounting Theory and Practice. 3 hours.
Prerequisite: ACCT 402 or its equivalent.
Study of development of financial accounting theory and external financial reporting, including a critical appraisal of trends in its application. Emphasis placed on analysis of contemporary reporting problems.

510 Advanced Accounting Information Systems and Control. 3 hours.
Prerequisites: ACCT 300 and ACCT 310 or its equivalent.
Applications of general systems theory including systems analysis and design, development, implementation and control as well as evaluations of hardware and software.

520 Seminar in Advanced Managerial Accounting. 3 hours.
Prerequisite: ACCT 310 or equivalent.
To expose the student to a wide range of managerial accounting concepts and practices. Particular attention paid to use of managerial accounting concepts by management in planning, performance evaluation, and decision making.

530 Seminar in Tax Research and Planning. 3 hours.
Prerequisite: ACCT 430 or equivalent.
Introduction to statutory, administrative, and judicial sources of tax law. Tax research required.

540 Advanced Auditing Standards and Applications. 3 hours.
Prerequisite: ACCT 450 or equivalent.

DEPARTMENT OF ECONOMICS

GRISE HALL
ROOM 431 (502) 745-2249

John C. Wassom, Head

Graduate Faculty

Professors: M. Borland, R. Howsen, Y. Kim, S. Lile, R. Pulsinelli, J. Ramsey, J. Wassom, T. Wisley

Associate Professors: W. Davis, B. Goff, D. Myers, T. Noser, C. Roberts, M. Valinezhad

Degrees Offered: Master of Arts in Economics, Master of Arts in Education (Economics major or minor)

Master of Arts in Economics

The program of study is designed to prepare students for careers in teaching, business, and government. All students are required to complete four core courses (Applied Macroeconomic Theory-502 or Advanced Microeconomic Theory-583, Applied Macroeconomic Theory-503 or Topics in Macroeconomics-585, Statistical Research Methods-506, and Regression and Econometric Analysis-465G). The remainder of the program is flexible — up to 12 hours may be taken, with approval, outside the department.

In addition to meeting Graduate Studies requirements, the applicant is expected to have completed six hours of intermediate economic theory and three hours of elementary statistics or their equivalent and possess an appropriate background in computers and mathematics. Deficiencies in undergraduate preparation may be removed.
by successful completion of the appropriate requirements during the first semester(s) after admission.

The program consists of 24 hours in addition to the thesis or 30 hours without a thesis. A research tool requirement must also be fulfilled. This involves an additional course. Thus, a total of 33 hours of course work is required for the degree. No more than 12 hours of 400-level courses may be taken. A final written or oral examination covering major areas of study and/or the thesis is required.

The program includes the following study areas: Pre-Ph.D., Business Economics, Financial Economics, Public Policy, and International Economics.

Master of Arts in Education
(Economics major or minor)

This program provides graduate work in economics within the program designed for the public school teacher. The student following it must meet all requirements for renewal of high school certification. The major requires 18 to 21 hours in economics. The minor requires 12 to 15 hours in economics. The remaining hours of coursework will be taken in professional education.

Graduate Courses in Economics

501 Survey of Economic Theory. 3 hours
An overview of basic concepts in micro and macroeconomic. Topics include price and output decisions, cost concepts, aggregate income, the price level, and related areas. Not available for credit toward the MA in Economics.

502 Applied Macroeconomic Theory. 3 hours
Fundamental concepts useful for analysis of firm, public policy, and individual decisions. Topics include demand and supply, revenue and costs, pricing, and information uncertainty.

503 Applied Macroeconomic Theory. 3 hours
Fundamental concepts dealing aggregate economic activity in the U.S. Topics include measurement, consumption, saving and investment, long term growth, business cycles, monetary and fiscal policy, and basic forecasting ideas.

505W Economics for Teachers. 3 hours
Basic concepts and topics dealing with the functioning of a market oriented economic system and the U.S. economy.

506 Statistical Research Methods. 3 hours
Introduction to applied statistics for decision making and research including analysis of variance, process control, experimental design, regression, and forecasting, as well as useful software and data sources.

581 Survey of Public Finance. 3 hours
An overview of topics including a study of the economic properties of various taxes and their effects, government budgeting, fiscal federalism, public provision, regulation, privatization, benefit-cost analysis, and other related issues.

582 Seminar in Economic History. 3 hours
Emphasis on research and evidence on U.S. economic history with some discussion of non-U.S. economic history.

583 Advanced Macroeconomic Theory. 3 hours
Prerequisites: Econ 502, 506, or equivalent. Systematic and rigorous coverage of theory of consumer behavior, prices, markets, production, distribution, and welfare.

585 Topics in Macroeconomics. 3 hours
Prerequisites: ECON 503, 506 or equivalent. Discussion of current areas of research in macroeconomic monetary fields. Specific content will vary by semester and instructor.

591 International Economics. 3 hours
Survey of trade theory and evidence, status and effects of tariffs and other trade restrictions, and balance of payments issues.

594 Forecasting. 3 hours
Prerequisites: ECON 502, 503, 506 or equivalent. Methods of forecasting changes in the U.S. economy and other economic units. Emphasis on application and evaluation of different techniques.

595 Labor and Human Resource Economics. 3 hours
Study of static and dynamic models of labor demand, supply, and human capital investment.

598 Directed Studies. 3 hours
Selected topics in economics.

599 Thesis and Research Writing. 6 hours

600 Maintaining Matriculation. 1 to 6 hours.

The 400-level courses listed below may be taken for graduate credit. All 400-level courses taken for graduate credit require additional readings, and/or problems, and/or research requirements.

400G Issues in Capital Market Economics. 3 hours
Exposure to current economic theory and evidence related to capital markets with emphasis on public policy, the interplay with the macroeconomy, stock price variability, internationalization, and other related topics.

410G Seminar in Economics. 1 to 3 hours
Special topics in economics of current interest.

420G Public Finance. 3 hours
A study of the economic effects of taxation and government spending. Topics include types and incidence of various taxes, policy objectives of taxes and spending, and related issues.

430G Environmental and Resource Economics. 3 hours
Study of environmental issues and natural resource problems and solutions. Topics include measurements of environmental benefits, property rights, externalities, environmental quality, pollution control, and solid waste management.
Graduate Courses in Finance

509 Managerial Finance. 3 hours.
Nature and scope; topics in financial structure and the cost of capital.

530 Advanced Managerial Finance. 3 hours.
Prerequisite: Fin 509 or equivalent.
Financing policies of corporate entities with emphasis on planning the capital structure, measuring and controlling costs of alternate sources of funds, dividend policy, and capital budgeting.

The following 400-level courses may be taken for graduate credit. All 400 level courses taken for graduate credit require additional readings, and/or problems, and/or research requirements.

437G Corporate Asset Management. 3 hours.
Prerequisite: FIN 330
Advanced level exposure to valuation concepts, capital budgeting decisions, working capital management, and mergers and acquisitions. Deals with the current theory and practice of corporate finance in these areas.

438G Corporate Funds Management. 3 hours.
Prerequisite: FIN 330
Advanced level exposure to financing and dividend policy, short-, intermediate-, and long-term financing, and financial statement analysis. Deals with the current theory and practice of corporate finance in these areas.

439G Security Analysis and Portfolio Management. 3 hours.
Prerequisite: Finance 330, Finance 332
An advanced level exposure to fixed income and equity security selection, and the theory and practice of portfolio management.

Graduate Course in Computer Information Systems

516 Business Computer Applications. 3 hours.
Introduction to electronic information processing. Overview of systems analysis and design, management information systems; introduction to computer programming languages and micro-computer applications.

The following 400-level course may be taken for graduate credit. All 400 level courses taken for graduate credit require additional readings, and/or problems, and/or research requirements.

461G Business Research Report Writing. 3 hours.
52 Department of Management

DEPARTMENT OF MANAGEMENT

GRISE HALL
ROOM 200 (502) 745-5408

Rex Galloway, Head

Graduate Faculty

Professors: E. Busch, A. Rahim

Associate Professors: G. Buntzman, R. Reber, B. Sullivan

Assistant Professor: C. Graham

Graduate Courses in Management

513 Management Dynamics. 3 hours.
An introduction to organizational analysis and to the understanding and management of behavior in organizations.

518 Management Science. 3 hours.
Prerequisites: Math 116, and ECON 206 or equivalents.
Quantitative techniques as an aid to decision making, Decision theory, linear programming, queuing theory, and probabilistic models.

519 Production Management. 3 hours.
Prerequisites: INF 516, MGT 518, and ECON 506 or equivalents.
Operations management planning and control in manufacturing and non-manufacturing systems.

535 Advanced Management Science. 3 hours.
Prerequisite: MGT 519
Quantitative and computer-based techniques used as aids to managerial decision making. Emphasizes mathematical programming methods, stochastic models, and simulation.

570 Business, Government, and Law. 3 hours.
Development, implementation, and impact of major public policies toward business. Includes antitrust, consumer protection, conservation and environmental control, etc.

573 International Business. 3 hours.
Prerequisites: Mkt 520, and Fin 530 or equivalents.
Institutions, organizations, and procedures of international business. Emphasizes problems and decision-making techniques.

575 Organization Theory. 3 hours.
Prerequisite: Mgt 513 or the equivalent.
Contemporary theory and research on organizational structure and design that has relevance for practical problems of designing and managing organizations.

578 Administrative Policy and Strategy. 3 hours.
Prerequisites: At least 21 hours earned including Acct 560, Fin 530, Mgt 575, Mkt 520, and Mgt 519.
A capstone course focusing on the formulation and implementation of corporate and business strategy.

579 Directed Study in Management. 1 to 3 hours.
Supervised independent study of a topic or problem culminating in a scholarly paper or problem-solving report.

DEPARTMENT OF MARKETING

GRISE HALL
ROOM 500 (502)745-2471

Jerry Gottlieb, Head

Graduate Faculty

Professor: D. Fugate, R. Milliman

Graduate Courses in Marketing

511 Managerial Marketing. 3 hours.
Concepts, terms, and functions important to marketing, consumer behavior, product planning, pricing, and public policy implications of marketing strategies.

520 Advanced Marketing. 3 hours.
Prerequisite: Mkt511 or the equivalent.
Marketing principles, policies, and operations; quantitative and behavioral sciences as related to the theory, philosophy, and operation of integrated marketing systems.

529 Directed Study in Marketing. 1 to 3 hours.
Supervised independent study of a topic or problem culminating in a scholarly paper or problem solving report.
College of Education and Behavioral Sciences

COLLEGE OF EDUCATION AND BEHAVIORAL SCIENCES

Cad Martray, Dean

DEPARTMENTS

Consumer and Family Sciences
Educational Leadership
Physical Education and Recreation
Psychology
Teacher Education

DEGREES OFFERED

Master of Arts in Education
Master of Arts (Psychology)
Master of Science (Communication Disorders, Library Science, Physical Education, Recreation)
Specialist in Education

COOPERATIVE DOCTORAL PROGRAM
(With the University of Louisville)
Doctor of Education

JOINT DOCTORAL PROGRAM
(With the University of Kentucky)
Doctor of Education
Doctor of Philosophy

NON-DEGREE PROGRAMS

Rank n-Planned Fifth-year
Rank I—Teacher
Rank I—School Administration
Rank I—Guidance
Vocational Administrator Certification Program
DEPARTMENT OF CONSUMER AND FAMILY SCIENCES

ACADEMIC COMPLEX, CANNON WING
ROOM 303 (502) 745-4352

Carl Hall, Head

Graduate Faculty

Professors: L. Fong, M. Jenkins, J. Rasdall

Associate Professors: V. Atkins, M. Casto

Graduate Degrees

Students may pursue a concentration in Consumer and Family Sciences through either a Master of Arts in Education (General) through the Department of Educational Leadership or a Master of Arts in Education (Secondary Education) through the Department of Teacher Education.

Graduate-Courses in Consumer and Family Sciences

520 Seminar in Home Economics and Family Living. 3 hours. Survey of recent developments and present trends conducted in a particular area of the Department of CFS or deemed appropriate by faculty and student demand.

521 Interior Ergonomics I. 3 hours. Sociological and psychological factors in interior design—separately, in relationship to each other, and in relationship to other disciplines.

522 Interior Ergonomics II. 3 hours. Cultural and anthropometric literature related to interior design; interrelationships between culture and anthropometrics.

531 Cultural Patterns of Dress. 3 hours. In-depth analysis of literature and research related to cultural aspects of clothing. Specific cultural emphasis will vary.

533 Developing Fashion Merchandising Programs. 3 hours. Principles, problems, and practices of curriculum, field experiences, and extended classroom activities related to fashion merchandising.

535 Textile Analysis and interpretation. 3 hours. Prerequisite: Chemistry. Qualitative and quantitative techniques for physical and chemical analysis of textiles. Planning and conducting textiles analyses and evacuating resulting data.

536 Seminar in institutional and Home Environment. 3 hours. Technological, cultural, and educational developments in institutional and home environment. Opportunity to pursue individual interest in specialized areas, e.g., textiles, clothing, merchandising, interior design, housing, foods, home economics education, etc.

537 Critique and Design of investigations in Home Economics. 3 hours. Opportunity to pursue individual interest in specialized areas, e.g., textiles, clothing, merchandising, interior design, housing, foods, nutrition, textiles, home economics education, etc. Critical evacuation of theses and published research.

572 Curriculum Development in Home Economics Education. 3 hours. Curriculum trends in home economics education and curriculum development in specialized fields of home economics.

573 Evaluation in Home Economics Education. 3 hours. Theory and techniques of evacuation in home economics education at different levels. Analysis and refinement of instruments; interpretation of results of self-evaluation; and effective administration of programs.

574 Supervision of Home Economics Education. 3 hours. Prerequisite: Teaching experience, advanced courses, and consent of instructor. Theory, principles, and techniques of preservice and inservice training of teachers in home economics. Emphasis on preparation of supervisory materials and evacuation.

575 Individual Study in Home Economics and Family Living. 3-6 hours. Evacuation of home economics investigations. Includes planning and competing an individual study of limited scope.

577 Seminar in Child Development Research. 3 hours. Analysis of current theories and research relevant to the development of social perceptual-cognitive, and physical-physiological processes in children.

580 Internship. 3 hours. Prerequisite: Approval of instructor. A field practicum in foods and nutrition, textiles and clothing, interior design, or home economics education. Assignments are made to approved private and public agencies/facilities.

582 Sensory Evacuations and Qualities of Foods. 3 hours. Principles and methodologies in sensory evaluations of foods; collection, analysis and presentation of sensory data; focuses on determinants of quality in foods.

583 Human Resources in Food Systems. 3 hours. Identification of personnel needs by skill levels; planning and evacuation of personnel programs in food systems; training applicants for optimum utilization of human resources.

584 Community Nutrition. 3 hours. Prerequisite: CFS 111, 261, or consent of instructor. Analysis of literature and research related to nutritional problems facing patients returning to home and community; analysis of community resources that assist with specific problems. (Lecture, field trips and lab)

585 Nutrition for the Elderly. 3 hours. Analysis of literature and research related to nutritional problems of the elderly analysis of resources that assist them with their specific problems. (Lecture, field trips, and lab)
DEPARTMENT OF EDUCATIONAL LEADERSHIP

TATE C. PAGE HALL
ROOM 426 (502) 745-4997

Stephen B. Schnacke, Head

Graduate Faculty


Associate Professors: M. Barton, D. Dinkmeyer, S. James, D. DeMoulin, N. Loposer, C. Wagner, J. Wang

Assistant Professors: S. DeVaney, A. Hughey, C. McRoy, D. Nims, D. Smith, K. Westbrooks, E. Williams

Degrees Offered: Master of Arts in Education (General), School Counseling, Student Affairs in Higher Education, Mental Health Counseling, Specialist in Education (Counseling, School Administration).

Professional specialization programs are available in elementary school administration, secondary school administration, pupil personnel administration, supervision of instruction, general school administration (superintendent), and administration/supervision of vocational education.

The Department of Educational Leadership offers programs designed to prepare school personnel for effective leadership in the elementary and secondary schools. The department also offers programs of preparation for school and professional personnel in the areas of guidance, counseling, mental health counseling, marriage and family counseling, and personnel services. The curricula meets professional certification standards in school administration, school counseling and school supervision. The department also provides educational foundations courses that give professional educators a greater understanding of their roles and the function of educational institutions in society.

Coursework associated with degree programs at Western Kentucky University may be used to meet certification requirements established by the Commonwealth of Kentucky; however, changes in certification requirements may be instituted at any time by the Commonwealth. When such changes are initiated by the Commonwealth, students seeking certification may be required to modify their course/experience to meet the new certification requirements.

Several counseling courses require learning which focuses on self-understanding and self-disclosure. Initial admission to all counseling programs is provisional. Upon completion of six semester hours of counseling courses the student submits an application to the program at which time the counseling faculty evaluates the applicants potential for developing effective relationships with clients. Acceptance though this process constitutes full admission to a degree program.

Master of Arts in Education (General)

This degree program is provided for individuals whose professional interest suggests an emphasis in the behavioral sciences and/or education; flexibility of the program allows students to meet expected career needs.

Students must meet requirements for admission to graduate studies and applicable departmental requirements.

A minimum of 30 semester hours of graduate level coursework is required for the non-thesis option; 24 hours of coursework is required for the thesis option. A final comprehensive examination must be satisfactorily completed.

The education major (15-21 hours) must include Ed Fn 500—Research Methods and three hours selected from Ed Fn 576, Ed Fn 577, Psy 510, or Psy 511. The remaining courses (9-15 hours) maybe selected, in consultation with the advisor, from counseling, teacher education, educational foundations, higher education, and/or other areas of education.

The distributed subject matter minor courses (9-15 hours) may be selected from one or more academic departments. These courses must be approved by a representative from the academic department(s) involved.

Within the MAE (General), programs may be planned to include an emphasis in adult development and gerontology. Those requirements are as follows:

**Core 6 hours:**
Ed Fn 500 (required) and one additional course to be selected from Ed Fn 576/577, or Psy 510/511.
56 Department of Educational Leadership

Education 9-15 hours:

Cns 669
Ed 599 (Plan A, thesis) 6 hours or Cns 662 (Plan B, non-thesis) 3-6 hours
Exc 489G
Other appropriate education courses

Subject area 9-15 hours:

Psy 423G, CFS 585, Rec 570, HL Sft 443G, 444G
Other appropriate subject area courses

Master of Arts in Education
(School Counseling)

This 36 hour program leads to the master’s degree and provisional certification for school counselors. Applicants must meet graduate studies requirements for admission and must gain admission to the counseling unit.

If a classroom teacher does not intend to become a school counselor but plans to remain in the classroom during the entirety of the teaching career, a Master’s Degree in Education which emphasizes teaching subject matter should be considered. Classroom teachers who definitely plan to become certified in School Administration may wish to consider a Master’s Degree in Elementary or Secondary Education. The school counseling program is intended for the educator who plans to enter the field of school counseling.

A. Professional Education: 6 hours
   Ed. Fn 500—Research Methods required
   Choose one additional foundations course from:
   Ed Fn 577, Ed Fn 576, Sec Ed 580*, El Ed 503**, Psy 510, orPsy511.
   ● Secondary ● *Elementary

B. The student will take the following counseling courses in his/her area:

1. Elementary School Counselor (grades K-8): 24 hours:
   Cns 550—Prof. Orient. in Counseling
   Cns 551-Classroom Guidance
   Cns 552—Testing and Assessment
   Cns 554-Group Counseling
   Cns 558-Counseling Theories
   Cns 561-Counseling Children
   Cns 565—El. Guidance Service
   Cns 590—Practicum* (practicum experience must be in elementary grades K-8)

2. Secondary School Counselor (grades 5-12): 24 hours:
   Cns 550—Prof. Orient. in Counseling
   Cns 551—Classroom Guidance
   Cns 552—Testing and Assessment
   Cns 554-Group Counseling
   Cns 558-Counseling Theories
   Cns 562—Counseling Adolescents
   Cns 566-Secondary. Guidance Service
   Cns 590—Practicum* (practicum experience must be in secondary level grades 5-12)

*To enroll in practicum the student must have completed the following prerequisites: Fifteen hours in counseling courses including the following courses: 550,554 and 558.

C. Subject Matter Coursework: 6 hours
   Six hours of advisor-approved, graduate level, subject related courses.

Master of Arts in Education
(Student Affairs in Higher Education)

Applicants to this 48 hour program must meet graduate requirements for admission. Course requirements are as follows:

A. General Professional Requirements (15 hours):
   Ed Fn 500—Research Methods
   Cns 550—Prof. Orient. in Counseling
   Cns 556—Career Counseling
   Cns 555—Social and Cultural Diversity
   Cns 558—Counseling Theories

B. Student Affairs Major (27 hours):
   Cns 571—intro. to Student Affairs
   Cns 572—Am. College Student
   Cns 573—Leadership in Student Affairs
   Cns 574—Student Development
   Cns 575—Adm. of Student Affairs
   Cns 576—Techn. in Student Affairs
   Cns 590—Practicum
   Cns 595—Internship (6 hours)

C. Electives (6 hours) selected from the following:
   Cns 656, Psy, 423, Psy 520, Psy 522, Psy 551, Psy 572, or other courses approved by advisor.

Master of Arts in Education
(Mental Health Counselor Program)

Applicants to this 48-hour program must meet graduate requirements for admission and must gain full admission to the counseling unit. Courses in options listed below may not be altered without permission of the student’s advisor and the counseling faculty. Course requirements are:
A. Ed Fn 500-Research  
Cns 550—Prof. Orient. in Counseling  
Cns 552—Testing Assessment  
Cns 554-Group Counseling  
Cns 557—Human & Family Development  
Cns 558-Theories of Counseling  
Cns 567—Mental Health Counseling  
Cns 590-Practicum*  
Cns 595—Internship (6 hours)**

One of the following: Psy 440G; Psy 511; Psy 520; Psy 450G; or Psy 640, or other psychology courses approved by advisor.

*To enroll in practicum the student must have completed the following prerequisites: Fifteen hours in counseling courses including the following courses: 550, 554 and 558.

**Internship is intended to be taken over a period of two semesters. Any deviation from this policy requires approval from the counseling unit at least one month before the semester begins.

B. Choose one of the two options:

Option I - Community Counseling:  
Cns 555—Social and Cultural Diversity  
Cns 556-Career Counseling  
Cns 559—Techniques (prerequisite: Cns 558)  
Electives-6 hours

Option II - Marriage and Family Counseling:  
Cns 580-Family Life Studies  
Cns 582—Human Sexuality in Counseling  
Cns 584—Counseling Violent and Dysfunctional Families  
Cns 586—Parenting Issues  
Cns 588—Family Systems Counseling

Specialist in Education (Counseling major)

Applicants desiring to pursue this program must meet graduate requirements for admission and must also be admitted to the department. A personal interview is required for reviewing professional and educational background and other pertinent data. A departmental admissions committee will review the information and make final recommendations regarding the applicant's eligibility. This degree requires a minimum of 30 semester hours of graduate coursework beyond the master's degree. Specific courses and field experiences are provided to meet individual needs. Coursework is generally taken from three areas:

Foundations Core-education and research, 6 hours.  
Major Emphasis-counseling 15-18 hours.  
Cognate—psychology, sociology, and/or related areas, 6-12 hours.

The student's committee directs the coursework and required specialist project and administers a final oral examination.

Graduate Courses in Counseling

550 Professional Orientation in Counseling. 3 hours.  
The professional roles, functions, goals, and objectives of the counselor. Professional organizations, associations, history and trends. Ethical and legal standard, preparation standards and credentialing.

551 Classroom Guidance. 3 hours.  
Basic guidance concepts such as encouragement, communication, self-concept, discipline, and understanding students within the classroom setting will be presented with practical approaches in working with students.

552 Testing and Assessment In Counseling. 3 hours.  
Methods, techniques, statistics, and instruments used in assessing and evaluating individuals, couples, families, and groups; administering, scoring and interpreting both objective and subjective instruments used in counseling. Survey of research design and statistics. Computer utilization in counseling and use of data in decision-making.

553 Community Resources in Guidance and Counseling. 3 hours.  
Surveys social agencies, both public and private, with which counselors and those in the helping field should be familiar. An analysis of the referral process and the utilization of these resources with the clientele with which one works.

554 Group Counseling. 3 hours.  
Dynamics of group development. Group counseling theories, leadership styles, group counseling methods and skills. Interpersonal and relationships in the family system and other small group settings. (limited class size)

555 Social and Cultural Diversity In Counseling. 3 hours.  
Multicultural characteristics and methods of conflict resolution; counseling and educational methods for alleviating discrimination and societal concerns such as stress, person abuse and substance abuse in the school and counselor setting. Traditional and nontraditional male/female roles; methods of conflict resolution in response to changes in society. Issues of counseling and teaching.

556 Career Counseling. 3 hours.  
Career development theories; occupational and educational information sources; career and leisure counseling; life style and career decision making; career development program planning and resources.

557 Human and Family Development In Counseling. 3 hours.  
Understanding of the nature and needs of normal and abnormal individuals in the family system at all developmental levels emphasizing moral, intellectual and ethical development.
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Counseling strategies in the complex developmental relationships among individuals in the family system. Counseling in the life cycle of the family.

558 Counseling Theories. 3 hours.
Philosophic bases of the helping processes; major contemporary counseling theories and their application in individual and group counseling and in family systems counseling.

559 Techniques of Counseling. 3 hours.
Prerequisite: Cns 558.
Focus on the development of basic and advanced counseling skills and procedures. Refinement of the skills needed in providing counseling intervention.

561 Counseling Children. 3 hours.
Theories and techniques of developmental counseling with children.

562 Counseling Adolescents. 3 hours.
Theories and techniques of developmental counseling with the teenage population.

563 Counseling Adults. 3 hours.
Developmental issues of adulthood. An integration of personal, social, and career counseling with the adult population.

564 Counseling the Elderly. 3 hours.
Major problems individuals experience relative to or as a consequence of growing older. Basic communication and counseling skills needed to work with the elderly.

565 Elementary Guidance Services. 3 hours.
The organization, administration, and delivery of guidance and career services in the elementary school.

566 Secondary Guidance Services. 3 hours.
The organization, administration, and delivery of guidance and career services in the secondary school.

567 Mental Health Counseling. 3 hours.
Prerequisite: Cns 558.
The identification, treatment plans and referral procedures for emotional concerns in the mental health field.

570W Workshop in Counseling. 3 hours.
Workshop dealing with special problems of current topics in counseling. (May be repeated with a different topic for a maximum of 6 hours.)

571 Introduction to Student Affairs in Higher Education. 3 hours.
History, philosophy, and development of student services. Includes testing and counseling, financial aids, housing, admissions and records, placement, etc.

572 American College Student. 3 hours.
Characteristics and attitudes of contemporary "traditional" and "non-traditional" college students will be examined. Major topics will include the impact of college environments on students, needs analysis and outcomes assessment, current issues and concerns, and implications for Student Affairs professionals.

573 Leadership in Student Affairs. 3 hours.
Prerequisite: Completion of Cns 571 or concurrent enrollment in Cns 571.
The essentials of effective leadership in Student Affairs will be examined. Major topics will include organizational and leadership theory, planning and decision-making strategies, conflict resolution, managing change, and the use of groups and group dynamics within a Student Affairs context.

574 Student Development in Higher Education. 3 hours.
Prerequisite: Completion of Cns 571 or concurrent enrollment in Cns 571.
This course will examine the developmental processes that impact college students. Major topics will include a discussion of various theoretical models, sociocultural foundations, developmental program designs, and assessment techniques and implications.

575 Administration of Student Affairs. 3 hours.
Prerequisite: 6 hours in Student Affairs including Cns 571. The essentials of sound administrative management in Student Affairs will be discussed. Major topics will include policy development, legal considerations, personnel selection, supervision, training and evaluation, collective bargaining, budgeting and financial concerns, governmental policy implications, and information management systems.

576 Technology in Student Affairs. 3 hours.
The uses of technology for forecasting, budgeting, program planning, communication, policy analysis and resources allocation in Student Affairs will be explored. Automated information systems will be discussed extensively in terms of student affairs applications.

578 Special Topics in Student Affairs. 3 hours.
This course is devoted to Student Affairs topics such as Legal Aspects, the Community/Junior College, etc. It may be repeated once with a different topic.

579 Seminar in Student Affairs. 3 hours.
This research oriented, discussion course is designed to focus on current issues and practices in Student Affairs.

580 Family Life Studies. 3 hours.
General philosophy and broad principles of family life education of the counselor and teacher. Issues of gender, ethnicity, sexism and gender role stereotyping and their impact on the individual family member as well as the family system.

582 Human Sexuality in Counseling. 3 hours.
Knowledge, attitudes, and skills required for counseling with a broad spectrum of sexual concerns.

584 Counseling Violent and Dysfunctional Families. 3 hours.
Analysis of incidence and patterns of violence against children, adolescents, adults, and elders; motivational factors regarding perpetrator and victims. Counseling and helping strategies for working with family members and the abused victim in counseling and school setting.

586 Parenting Issues. 3 hours.
Charging roles and responsibilities of parents, child-rearing practices, diverse parenting situations and decision making about parenthood. Changing family system and effects of family system on parenting. Provide skills in working with
parents and parenting issues for both educators and counselors.

("Formerly HEFL courses that were used as subject matter coursework)

588 Family Systems Counseling. 3 hours. The historical development of systems theory will orient the student to theoretical content of human interactions. Student will be helped to think systemically about human issues by focusing on the systems paradigm. Skill development in family system counseling will be developed.

590 Practicum. 3 hours. Prerequisite: 15 hours in counseling courses including the following courses: 550, 554 and 558. Supervised experiences in a setting related to area in which individual plans to seek certification/employment.

595 Internship. 3 to 6 hours. Prerequisite: Cns 590 Supervised experience in school, community, and agency settings.

599 Thesis Research and Writing. 1 to 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

650 Readings in Contemporary Counseling. 3 hours. Significant books and research articles related to counseling theory, theory application, and innovative techniques.

652 Research in Guidance and Counseling. 1 to 3 hours. Research problems relating to the organization and administration of guidance programs. May be repeated once with a different topic.

654 Educational and intellectual Analysis of Children and Adults. 3 hours. Administration and interpretation of standard mental and aptitude tests as tools of educational and occupational guidance.

655 Advanced Appraisal of Children. 3 hours. Prerequisites: Cns 552 and 654, or equivalents. Continuation of Cns 654 designed to increase administration-interpretation skills in individual appraisal process.

656 Seminar in Career Guidance and Occupational Adjustment. 3 hours. Vocational guidance and occupational adjustment and its application at all educational levels as well as to business, industry, and government.

658 Seminar in Guidance and Counseling. 3 hours. Presentation and discussion of research in guidance and counseling. Emphasizes theoretical and practical criticism of relevant studies in the field. (May be repeated with a different topic for a maximum of 6 hours.)

660 Administration of Counseling Services. 3 hours. Administration of human services in counseling including justification of services, staffing, facilities, budget, etc.

661 Introduction to Rehabilitation Counseling. 3 hours.

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Basic counseling procedures appropriate to rehabilitation; history, settings and functions of the counselor.

662 Seminar in Disability and Rehabilitation Counseling. 3 hours. Psychological, physiological and sociological impact of congenital and traumatic disabilities, with emphasis on the rehabilitation counselor's role.

663 Counseling the Exceptional Child and Parent. 3 hours. General concepts of exceptionality, the needs of and effective counseling techniques for the exceptional child; referral, resources, staffing and coordination efforts of the counselor; the needs of and effective counseling techniques for the parent of the exceptional child.

666 Legal and Ethical issues in Counseling. 3 hours. Course provides opportunities for mental health providers to make decisions of an ethical nature about people and deal with possible legal actions that result.

667 Drug Abuse Counseling. 3 hours. Counseling issues related to substance abuse diagnosis, treatment and aftercare program.

669 Special Topics in Counseling and Guidance. 1 to 3 hours. May be repeated with a different topic for a maximum of 6 hours.

699 Specialist Project. 6 hours.

700 Maintaining Matriculation. 1 to 6 hours.

Specialist in Education
(School Administration)

This advanced professional degree requires a minimum of 36 semester hours of graduate credit beyond the master's degree. Designed to expand the skills for educational leadership in educational administration, the EdS program provides the opportunity for individuals to develop competence in their areas of specialization and to meet specific goals and objectives for educational leadership in a global society.

Applicants desiring to pursue a specialist degree program must complete graduate and departmental requirements for admission. The minimum departmental requirements include:

- A master's degree from an accredited college or university with a minimum GPA of 3.5;
- A minimum GRE score of 1250 on the three (3) part general test;
- Recommendation of the EDAD Admissions Committee for admission.

Major emphases are available as follows: early elementary principal, middle school principal, secondary school principal, supervision and curriculum, and general educational administration. Completion of the EdS degree does not guarantee certification in educational administration but may lead to such certification including Rank I on the basis that requirements for those programs are met.
Coursework is within three areas: Foundations Core-research, historical or sociological foundations of education, fundamentals of educational administration, counseling/guidance (6 hours minimum); Cognate-sociology, psychology, economics, business administration, guidance, exceptional child education, higher education, computer technology or other related areas, (6 hours minimum); Major Emphasis-18 hour minimum including research study or project. Elective courses shall be selected in a manner to insure that 12 semester hours of non-professional education is included within an individual’s total graduate work.

Cooperative Doctoral Program (with the University of Louisville).

Persons with an interest in educational leadership positions may apply to the Cooperative EdD Program. As recognized by the Council on Higher Education this cooperative doctoral program represents a collaborative effort between the two universities’ Departments of Educational Leadership.

It is strongly encouraged that interested persons review a department brochure describing the degree program and then visit with an educational administration professor before beginning the application process. Application packets must be obtained from the department. The department coordinates applications and when all materials are assembled submits them to a Joint Admission Committee. The committee makes a recommendation to forward or not to forward the application to each institution’s graduate officials for admission.

Upon admission to the doctoral program, the Joint Policy Committee assigns the major advisor and program advisory committee. This committee develops the student’s degree program. Students must complete a minimum of 90 graduate hours beyond the bachelor’s degree and at least 45 combined hours from Western and the University of Louisville. At least 18 must be taken from each institution. Six hours of dissertation credit must be earned at each institution and at least 9 hours of educational administration content coursework must be completed at each institution. Residency requirements are fulfilled by registration at either institution in 24 hours in a 12 consecutive month period.

Joint-Doctoral Program (With the University of Kentucky)

Persons who have completed, or are completing, a master’s degree in education and who have adequate qualifications may petition to enter a joint program leading to the Ed. D. or Ph.D. in Education from the University of Kentucky. In addition, admission standards of the doctoral degree granting institution must be met.

Application is filed with the Graduate Studies Office of Western Kentucky University. The applicant’s qualifications are evaluated by a screening committee, which makes recommendations to the appropriate university.

Each student admitted to the program is appointed an advisory committee, which represents both participating institutions. For further information, contact the Office of Graduate Studies, Western Kentucky University, or the Head of the Department of Educational Leadership.

NON-DEGREE PROGRAMS

Students wishing to pursue one of the following programs must make application to the Office of Graduate Studies. Upon completion of the program, individuals must contact the certification officer in the College of Education. That official then certifies to the State Department of Education that rank requirements have been met.

Rank I Programs

The Department of Educational Leadership offers the following Rank I programs in accordance with the minimum regulations prescribed by the Kentucky State Board of Education:

1. Rank I - Standard Guidance (leading to standard certification in guidance)
2. Rank I - School Administration (the professional certificate in administration and supervision endorsed for specific administrative positions)

General Guidelines:

1. Rank I classification shall require the completion of 60 semester hours of approved graduate level credit including a master’s degree.
2. The student’s program shall be planned in consultation with the advisor and shall be related to the professional needs of the individual.
3. A minimum of 15 semester hours must be in courses open only to graduate students.
4. The student shall maintain a 3.5 GPA, and no credit shall be given for a course grade lower than C for school administration.
5. At least 15 of the required hours shall be taken at Western Kentucky University. The remaining hours may be taken, upon approval of the college advisor and the certification officer, at other institutions provided the grade is A or B.

Rank I - Guidance Program

The Rank I guidance program, which leads to the standard certificate in guidance and counseling, is designed to provide additional preparation and competency for school counselor personnel. The planned program requires...
a minimum of 60 hours including a master’s degree and one year’s experience as a school counselor.

The 60-hours program leading to the standard guidance certificate must be individually planned in consultation with the student's advisor and must include the following:

- Counseling -18 hours beyond the provisional certificate including Cns 556, 559, 666 and electives
- Behavioral sciences/related fields -9 hours
- Education research -3 hours
- Electives - to bring the total to 60 hours

A student who has a provisional certificate may wish to extend his/her certificate to K-12 while working on a standard certificate. Those who have a counseling certification K-8 may extend their certificate K-1 2 by completing the following: Cns 562, 566, 590 (Practicum secondary).

Those who have a counseling certificate 5-12 may extend their certification K-12 by completing the following: Cns 561, 565, 590 (Practicum - elementary).

A certified teacher with a master’s degree outside guidance must complete at least 24 semester hours in counseling coursework toward the provisional guidance certificate as a part of the Rank I program.

Rank I - School Administration

The Rank I in School Administration is a 60-hour planned program which includes endorsements in one or more of the following leadership positions: early elementary principal, middle school principal, secondary principal, director of pupil personnel, supervisor of instruction, and superintendent. For admission, a student must have the master’s degree, three years of full-time appropriate teaching experience, a 3.2 GPA on all the graduate coursework, and meet the minimum test score requirements on one of the following: 1250 GRE, state minimum NTE Core, or 50th percentile MAT. Application should be made to graduate studies and to the department prior to earning more than three hours credit beyond the master’s degree.

Specific prerequisite courses will be identified by the assigned advisor.

Students should consult the department for additional information concerning the admission application process.

Certification for School Principal Endorsement
(Early Elementary, Middle School, or Secondary)

The professional certificate for school administration and supervision may be endorsed for either the early elemental, middle, or secondary school principalship when the following conditions have been met:

1. Prerequisites include three years full-time appropriate teaching experience; master’s degree; a 3.2 GPA or above on all graduate work and an acceptable score on either the GRE, MAT, or NTE.
2. Completion of the appropriate prerequisite courses.
3. Completion of a minimum of 60 semester hours of graduate credit including the master’s degree. Within these total hours the student must complete the required professional courses as outlined in a planned program designed to provide the student with appropriate administrative competencies.
4. Satisfactory scores on the NTE Core Battery - Communication Skills and Test of General Knowledge, Administrative Specialty Test of the NTE and the Kentucky Administrative Specialty Test. These tests are required by the state and the minimum scores are established by the state.
5. Satisfactory completion of a one year internship as required by the state.
6. The student will be tested by the department after all Level I courses have been completed.

Certification for Supervisor Endorsement

1. Prerequisites include three years full-time appropriate teaching experience; master’s degree; a 3.2 GPA or above on all graduate work and an acceptable score on either the GRE, MAT, or NTE.
2. Completion of the appropriate prerequisite courses.
3. Completion of a minimum of 60 semester hours of graduate credit including the master’s degree. Within these total hours the student must complete the required professional courses as outlined in a planned program designed to provide the student with appropriate administrative competencies.

Certification for Superintendent Endorsement

The professional certificate for school administration and supervision maybe endorsed for the position of school superintendent when the following conditions have been met:

1. Completion of Level I and II preparation requirements for administrative endorsement as principal or supervisor.
2. Two years full-time experience in an administrative position.
3. Completion of the approved program with 36 semester hours graduate credit above the master's degree.

Certification for Director of Special Education Endorsement

The endorsement for director of Special Education may be recommended when the following conditions have been met:

1. The applicant must hold a valid certificate as a teacher of exceptional children in one of the recognized categories of exceptionality and have three years of full-time teaching as a teacher of special education.
2. The applicant must have completed a master's degree.
3. The applicant must gain acceptance to graduate studies and the educational administration program.
4. The applicant must complete a minimum of 15 graduate hours in the approved program of study at WKU.

Certification for Administrator of Pupil Personnel Services Endorsement

The professional certificate in school administration and supervision may be endorsed for the position of director of pupil personnel when the following conditions have been met:

1. Prerequisites include three years full-time appropriate teaching experience; master's degree; a 3.2 GPA or above on all graduate work and an acceptable score on either the GRE, MAT, or NTE.
2. Completion of the appropriate prerequisite courses.
3. Completion of a minimum of 60 semester hours of graduate credit including the master's degree. Within these total hours the student must complete the required professional courses as outlined in a planned program designed to provide the student with appropriate administrative competencies.

Certification for Administration and Supervision of Vocational Education Programs

This program area is based on the prerequisites as stipulated by State Certification regulations: the baccalaureate degree and preparation for a ten year certificate (provisional) for any one of the areas of vocational education authorized in the Kentucky State Plan for Vocational Education. Any individual planning to pursue this program should present a copy of the appropriate certificate to the department and advisor concerned. The candidate must have earned a 2.75 or above grade point average on all undergraduate work attempted. Two years of successful full-time teaching experience in a vocational education program is required of candidates.

An approved program of study with a minimum of 15 semester hours will be written by the assigned advisor.

Graduate Courses in Educational Foundations

500 Research Methods. 3 hours.
Includes theory of research, experimental design, bibliographical and data gathering techniques, and interpretation of results.

501 Educational Statistics. 3 hours.
Graphic and tabular arrangement of data, measures of central tendency and of relationship.

548 Research in Curriculum and Instruction. 1 to 3 hours.
Research in elementary instructional problems in reading, mathematics, science, social studies, English, and in elementary and secondary curriculum.

570W Workshops in Education. 1 to 3 hours.
Special short courses on educational problems.

576 Social Foundations of Education. 3 hours.
Selected problems in American society, their impact on the educational system, and the possible role of that system in resolving such problems.

577 Philosophy of Education. 3 hours.
The relationship between philosophy and education. Emphasizes the development of an effective individual philosophy of education.

601 Statistical Techniques for Experimental Designs in Education. 3 hours.
Parametric and non-parametric statistical techniques applied to experimental and quasi-experimental research designs in education.

675 Higher Education in America. 3 hours.
History, purpose, philosophy, organization, curriculum, student personnel services, financial services, and trends of the American system of higher education.

685 Academic Problems in Higher Education. 3 hours.
Prerequisite: Hi Ed 675, or permission of instructor.
Major problem areas of academic administration with emphasis on issues and procedures of college and university level curricular development.

720 Foundations of Rural Education Policy. 3 hours.
Prerequisite: Admission to cooperative doctoral program in Educational Leadership or permission of department.
An analysis of educational policy development and implementation in rural social systems from philosophical, historical, psychological, and political perspectives.
Graduate Courses in School Ministration

581 Organization and Administration of Occupational Education. 3 hours. Organization, administration, and implementation of occupational education programs as an integral part of the educational system.

583 Accounting for Pupil Personnel. 3 hours. Emphasizes the responsibilities of directors of pupil personnel, problems of personnel accounting, and records and reports related to the Minimum Foundation Program.

585 Fundamentals of School Administration. 3 hours. Organization and administration of American schools. Principles of effective leadership and the roles and responsibilities of administrative supervisory positions.

588 School Business Management. 3 hours. Effective operation of the fiscal and business aspects of school administration in the educational program.

590 Administration of School Personnel. 3 hours. Allocation of human resources to accomplish the purposes of the school organization.

594 Seminar on Leadership in Education. 3 hours. Principles and practices of leadership relative to community resources in the development and operation of education programs.

596 Readings in Education. 1 to 3 hours. Prerequisite: Permission of major professor. Reading and research in an area of individual interest. Supervised by the major professor.

597 Problems in Administration and Supervision. 1 to 3 hours. Prerequisite: Permission of instructor. Identifying and attempting to solve administrative problems in the local school setting.

598 Field-Based Experience in Educational Administration. 3 hours. Clinical experiences with practitioners in the field to acquaint the prospective administrator/supervisor with the realities of educational organizations.

620 Seminar in the Administration of Special Education. 3 hours. Current trends and issues in the administration and supervision of special education programs, including personnel issues, student identification issues, program assimilation and human relationships.

625 Practicum in the Administration of Special Education. 3 hours. Supervised practice in educational organizations for persons preparing to become a Director of Special Education.

630 Special Education Law and Finance. 3 hours. Comprehensive study of existing school law codes, budgeting, and accounting for special education.

674 Educational Technology for School Administrators. 3 hours.

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Prerequisites: Ed Ad 585, and either 691, 692, or 693. In special cases, permission of instructor would be required. Acquainting the prospective administrator with new and innovative technologies applicable to educational settings.

676 Public School Finance. 3 hours. School budgets and accounting for school money; unit costs and cost accounting; accounting for school property; insurance, business procedure, and office practice.

677 School Law. 3 hours. Clinical study of existing school code; judicial decision; administrative problems and school code.

678 School Plant Administration. 3 hours. Prerequisite: Ed Ad 585. Educational needs and building planning; architect service; standards of construction; building surveys.

679 The Superintendency. 3 hours. Prerequisites: Permission of instructor and two years of school administrative experience. Function, role, and responsibilities of the school superintendent. Topics include politics and education; superintendent's relationships with the school board, central office staff, and with the state department of education; the budget process; strategic planning; and curriculum leadership.

682 School-Community Relations. 3 hours. Background, need, and techniques for establishing a wholesome working relationship with laymen, with emphasis on their involvement in school programs.

683 Seminar in Curriculum Development. 3 hours. Examination of factors influencing the curriculum development.

684 Instructional Leadership. 3 hours. Identification of practices and characteristics of supervisors and administrators, relative to curriculum and instruction, that have been shown to significantly improve student achievement.

686 Principles of Supervision. 3 hours. The instructional aspect of school administration; organization, problems, principles, and techniques of improving inservice training for teachers.

691 The Early Elementary School Principalship. 3 hours. Prerequisite: Ed Ad 585. Problems of instruction; classification, promotion, and guidance of pupils; custodial services; relationship with patrons and community.

692 The Middle School Principalship. 3 hours. Prerequisite: Ed Ad 585. Programs of instruction; classification; promotion and guidance of pupils; relationships with professional and non-professional personnel and with the community.

693 The Secondary School Principalship. 3 hours. Prerequisite: Ed Ad 585. Programs of instruction; classification, promotion, and guidance of pupils; the principal's relationship with non-professional personnel, patrons, and community.
DEPARTMENT OF PHYSICAL EDUCATION AND RECREATION

ACADEMIC-ATHLETIC BUILDING #2
ROOM 316 (502) 745-3347

Burch Oglesby, Head

Graduate Faculty

Professors: T. Crews, C. Crume, C. Daniel, W. Kummer, A. Little, B. Oglesby

Assistant Professor: J. Askins, R. Deere, S. Spencer

Degrees Offered: Master of Science in Physical Education, Master of Arts in Education (Physical Education major or minor), Master of Science in Recreation.

Requirements for Admission to the Physical Education Programs:

A student can be admitted to the physical education program if he/she has an undergraduate physical education major or the equivalent of an undergraduate minor in physical education. Students should contact the department head for specific prerequisite courses.

Master of Science in Physical Education

The program focuses on the scientific basis of motor learning and performance. All candidates are required to take PHY 501, 503, 504, 505, 515, and 530. Twelve hours of electives are selected in consultation with the graduate advisor. Although a thesis is optional, students are encouraged to write a thesis. The research tool requirement will be met by completion of a statistics course in addition to the program courses.

Master of Arts in Education
(Physical Education major or minor)

Students following this program must meet all requirements for Kentucky K-12 Physical Education Certification. The area of interest for this degree program is pedagogy. The student majoring in physical education must take PHY 501, 503, 504, 505, 508 and 520. Three elective hours in physical education or allied areas are also required. The student minorin in physical education must take PHY 504, 505, 508 and 520. (Note: For both the major and minor, students who have taken an adaptive physical education course in their undergraduate program may substitute an elective course for PHY 508).

Master of Science in Recreation

This program is designed to prepare professional recreation practitioners for a wide range of recreation and leisure service occupations; provide opportunity for study in a specialized area of recreation; provide knowledge of research procedures; and provide academic background for students planning to pursue doctoral study. Although plans A and B are available, candidates are encouraged to write a thesis.

A twenty-four-hour major in recreation is required with a six-hour cognate field to be selected in consultation with the student’s graduate committee. A research course is required. The required courses are: RECR 501, 513, 515, 519, 521, and 523. The total number of graduate hours for this degree is 33.

Graduate Courses in Physical Education

501 Analysis of Research in Physical Education. 3 hours. Selected studies in the physical education literature related to methods, materials, techniques, and planning of research studies used and conducted by the profession. (To be taken in first term of enrollment)

502 Philosophical Bases of Physical Education and Athletics. 3 hours. The influence of major educational philosophies upon physical education and athletics; the development of a practical and usable personal philosophy of modern physical education.
503 Motor Learning. 3 hours.
Prerequisite: PHY 501.
Theories and principles of learning as they apply to the acquisition of gross motor skills. Emphasizes the interpretation and practical application of experimental data.

504 Physiological Bases of Motor Performance. 3 hours.

505 Foundations of Curriculum Construction. 3 hours.
Principles, procedures, and criteria for curriculum construction and revision, course building, and lesson planning.

506 Psychological Aspects of Sport and Performance. 3 hours.
Prerequisite: PHY 501.
The various psychological parameters on sport performance.

507 Sport in Culture. 3 hours.
The sports movement in America from a socio-cultural viewpoint. Analysis of current problems and trends.

508 Adapted Physical Education. 3 hours
In-depth study of instruction of disabled children in mainstream and/or special physical education classes. Knowledge and skills necessary to assess, plan intervention, and instruct mild, moderate, severely/profoundly disabled children in physical education.

510 Seminar: Facilities, Construction, and Equipment. 3 hours.
Principles, standards, practices, and problems in planning, constructing, administering the building program, maintaining the facilities and in purchase and care of equipment.

511 Theory in Administration and Supervision of Physical Education and Athletics. 3 hours.
Basic administrative theory and research for the administration of physical education and athletic programs.

512 Seminar: Administration Problems in Physical Education and Athletics. 3 hours.
Organization and control of physical education and athletic programs at various education levels. Discussion of controversial issues and practice in seeking solutions.

515 Assessment in Physical Education and Recreation. 3 hours.
Focusing on assessment tools utilized to measure motor development, fitness, motor skills, etc.

520 Teaching Strategies in Physical Education. 3 hours.
Study and application of teaching strategies utilized in the elementary and secondary physical education setting.

530 Independent Investigations in Physical Education. 3 hours.
Prerequisites: PHY 501 and consent of instructor.
Research problems or projects in the organizational, administrative, or supervisory areas of physical education.

570 Workshop in Physical Education. 3 hours.
Workshop and/or seminars dealing with special problems and current topics in physical education.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

Graduate Courses in Recreation

501 Analysis of Research in Recreation. 3 hours.
Selected studies in recreation literature relative to methods, materials, techniques, and planning of research studies used and conducted by the profession.

511 Recreation and Gerontology. 3 hours.
Importance of recreation to the lives of older persons assisting the elderly in worthwhile, constructive use of leisure time; developing statistical and problem solving skills essential to gerontological research, program planning, and administration.

513 Organization, Administration, and Supervision of Parks, Playgrounds and Recreation Programs. 3 hours.
Organization and administration of recreation at federal, state, and local levels. Correlation and integration of the entire recreation program into the culture and society of the community.

515 Planning and Maintenance of Park and Recreation Facilities. 3 hours.
Principles and problems in planning and maintenance of park and recreation facilities. Relationship of facilities to program needs. Field trips required.

517 Construction and Utilization of the Survey of Recreation. 3 hours.
Planning, application, and evaluation of the survey as a means of determining recreation program needs in selected settings.

519 Fiscal Practices for the Administrator of Recreation and Parks. 3 hours.
Budget construction and types, methods of acquiring funds, fees, charges, bonds, concessions, and other current innovative aspects of fiscal management.

521 Public Relations for Parks and Recreation Programs. 3 hours.
Effective communication between colleagues, program participants, and the public through the use of audio-visual devices and techniques.

523 Philosophy and Trends. 3 hours.
A philosophical study of current leisure trends.

530 Independent Investigations in Recreation. 3 hours.
Special research problems in the area of recreation.

590 Internship in Recreation. 3 hours.
Experience in recreation planning, leadership, supervision, and program evaluation through work in recreation, park, and other leisure oriented settings. Supervised by University faculty and personnel from area recreation agencies.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.
66 Department of Psychology

The following 400-level Recreation courses may be taken for graduate credit. These courses require research, scholarly papers, and projects.

410G Therapeutic Recreation. 3 hours. Principles, trends and programs of therapeutic recreation. Selected disabilities considered.

412G Adaptive Activities and Facilities for Recreation. 3 hours. Methods of adapting recreational programs, activities, and facilities for the handicapped.

431G Recreation Resource Management. 3 hours. Multi-use recreation resource management concepts in a natural setting; research and issues; synthesis of conceptual and practical knowledge through real and simulated applications.

432G Principles of Outdoor Recreation. 3 hours. Values and extent of outdoor recreational philosophy based on legislation, geographic factors, land use, standards, agencies, and economics.

433G Camp Administration. 3 hours. Status, purpose, and administration of organized camping. Includes history and trends, selection and training of staff, health and safety considerations, etc.

434G Development of Nature Oriented Areas and Facilities. 3 hours. Nature trail design and preparation, live and inanimate exhibit design and preparation, resource inventory, building, exhibit material purchase, vandalism, etc.

435G Techniques in Outdoor Education. 3 hours. Field trips, nature crafts, audio-visual aids and interpretive materials, etc., and their importance in developing outdoor education as a recreational activity.

450G Recreation Management. 3 hours. Practical approach to management of park facilities and personnel. Includes program planning, design, and standards of selected operations.

470G Administration of Municipal Recreation. 3 hours. Covers various aspects of recreation in a municipal setting. Includes personnel, financing, facilities, planning, maintenance, and such other topics such as legislation and vandalism.

471G Community Centers and Playgrounds. 3 hours. Playground and community center operation. Teaching techniques, programming, and problems relating to community recreation.

481G Recreation Seminar. 3 hours. Introduces current problems, trends, and issues in the area of leisure services.

482G Recreation Workshop. 1 to 3 hours. In-depth study of specific skill areas relating to the recreational profession.

483G Micro Computer Applications in Recreation. 1 hour Prerequisite: CS 145 or CS 240 A course designed to cover the use of micro computer software with emphasis on recreation related applications. (fall/spring)

DEPARTMENT OF PSYCHOLOGY

TATE C. PAGE HALL
ROOM 276 (502) 745-2695

John O'Connor, Head

Graduate Faculty


Associate Professors: J. Bruni, C. Eison, S. Kuhlenschmidt, S. Mutter, J. Wilder

Assistant Professors: J. Bilotta, E. Jones, E. Lemerise, A. Norman, J. Pope-Tarrence, S. Ramsay

Degrees Offered: Master of Arts in Psychology, Master of Arts in Education (Psychology minor) Specialist in Education (School Psychology).

Master of Arts in Psychology

This general program provides preparation for students who wish to pursue careers in clinical, industrial, or governmental settings. The department offers four options within the program: clinical, applied experimental, industrial, and general. Within each option, the student is expected to become competent in theory, research, and application of psychology as related to the chosen area of concentration.

Applicants should have a statistics and experimental methodology course; background in general psychology; a minimum score of 850 on the Graduate Record Examination General (verbal and quantitative combined) Test; a GPA of 2.75 with 3.0 in psychology courses; three letters of recommendation, transcripts, a psychology department application form, and the graduate studies application form sent to the psychology department. Beyond these
stated minimum requirements, selection is competitive. The total number of hours required is 45 to 48.

Psychology Core Courses 21 hours
Option Specialization 12 hours
Practicum, Internship 6 to 9 hours
Thesis (or 2 electives) 6 hours
45-48 hours

Psychology core requirements (21 hours for all options) are as follows:

PsY 512 Experimental Design 3 hours
PsY 541 Professional Psychology 3 hours
PsY 563 Statistics and Psychometric Theory 3 hours
PsY 552 Advanced Social Psychology 3 hours
Restricted Electives 9 hours

1. Learned Bases of Behavior (3 hours): PsY 511 Psychology of Learning, or PsY 523 Cognitive Theory, or PsY 673 Advanced Training in Business and Industry.
2. Individual or Unique Basis of Behavior (3 hours): PsY 520 Psychology of Individual Differences, or PsY 641 Personality Theory and Psychotherapy.
3. Advanced Analysis of Behavior - Biological or Quantitative (3 hours): PsY 580 Physiological Psychology, or PsY 513 Advanced Statistical Analysis.

Both Plan A (thesis) and Plan B (non-thesis) are available. The research tool is required in all options. No program may have more than 9 hours of 400G level courses. Practicum or internship is required (6 to 9 hours). A comprehensive examination is required at the time of thesis defense or upon completion of coursework.

Clinical Psychology

This option is practice-oriented and offers a broad foundation for individuals planning to render psychological services at the MA level. Students prepare for the certification examination administered by the Kentucky State Board of Psychology and by boards in other states requiring certification for individuals who provide psychological services at the MA level. Practicum and internship (9 hours) required. Thesis (or 2 course electives) required.

Specific course requirements (12 hours) are as follows:

PsY 560 Individual Assessment 3 hours
PsY 640 Psychopathology 3 hours
PsY 642 Clinical Interviewing 3 hours
PsY 660 Psychological Evaluation 3 hours
Total hours -48

Industrial-Organizational Psychology

This option focuses on human behavior in industrial and governmental organizations. Students are expected to become proficient in the construction and validation of personnel selection systems. Selection systems, the Equal Employment Opportunity Commission's (EEOC) guidelines on employment selection procedures and relevant court decisions, and training in business and industry are emphasized in the program. A four-to-six months internship in personnel psychology is encouraged (3 hours). Thesis (6 hours) and practicum (6 hours) are required.

Specific course requirements (12 hours) are as follows:

PsY 570 Introduction to Industrial/Organizational Psychology 3 hours
PsY 571 Personnel Psychology 3 hours
PsY 572 Organizational Psychology 3 hours
PsY 670 Equal Employment Opportunity, the Law, and Ethical Considerations 3 hours
Total hours -45

Applied Experimental Psychology

The applied experimental option is a research oriented program designed to prepare individuals for positions in industry, government, or education where strong research and methodological skills are needed and/or for continuation in a Ph.D program. A strong quantitative background is desirable. Some freedom within the curriculum permits the student to design a program which best fits his/her interests. Faculty involvement in applied research in visual processing, human factors, aging, memory, cognition, social development, and other areas provides a basis for development of individual research interests! A thesis (or 2 course electives) is required, in addition to a research practicum (6 hours) involving two semesters of participation in a research project prior to the thesis.

Specific Course Requirements (12 hours) are as follows:

PsY 500 Trends & Scientific Approaches in Psychological Thinking 3 hours
PsY 505 Statistical Software for Behavioral Scientists 3 hours
PsY 513 Advanced Statistical Analysis or PsY 580 Advanced Physiological Psychology 3 hours
Elective chosen with the faculty advisor 3 hours
Total hours -45

General Psychology

This option is designed for students who desire a terminal master's degree in general psychology or who plan to pursue doctoral studies in specialties not included
Department of Psychology

above. Course requirements beyond those required in the core are individually determined by the faculty advisor. A thesis (or 2 course electives) is required. Practicum is required (6 hours).

Master of Arts in Education (Psychology minor)

Students following this program must meet all requirements for professional high school certification. The minor requires a minimum of 12 hours and a maximum of 15 hours. The remaining hours will be taken in professional education courses.

Specialist in Education (School Psychology)

This program emphasizes training as an innovative problem solver. The student is trained to function as an integral part of the total program of pupil services. Each individual receives on-site experience in public schools, school-related practicum assignments in the department's psychological clinic, and experience as a member of an interdisciplinary team. Upon completion of the required coursework the student must complete a full year 1200 hour internship within an educational setting. Practicum, research tool and thesis or specialist project are also required.

Applicants should have a statistics and experimental methodology course, background in general psychology; a minimum score of 1250 on the Graduate Record Examination General Test; and an undergraduate GPA of 3.0. Applicants should send three letters of recommendation, a psychology department application form and the graduate studies application form to the department. Beyond these stated minimum requirements, selection is competitive.

Educational Specialist (Ed.S) Program in School Psychology

Course requirements are as follows:

Psychological Foundations (12 hours)
Psy 521 Advanced Child Psychology 3 hours
Psy 552 Advanced Social Psychology 3 hours
Psy 580 Advanced Physiological Psychology 3 hours
Psy511 Psychology of Learning 3 hours
12 hours

Educational Foundations (9 hours)
El Ed 503 or 603 Organization of the Elementary School Curriculum or Advanced Seminar Elementary Curriculum 3 hours

<table>
<thead>
<tr>
<th>RdEd519 Foundations of Reading Instruction 3 hours</th>
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<td>Psy 540 Behavior Problems of Children and Adolescents 3 hours</td>
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<td>9 hours</td>
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Assessment and Intervention (29 hours)

a. Assessment (17 hours)
Psy 560 Individual Assessment I 3 hours
Psy 561 individual Assessment II 3 hours
Psy 643 Psychoeducational Assessment 3 hours
Psy 562 Practicum 6 hours
Psy 662 Practicum in Psychological Practice - Field Placement 2 hours
17 hours

b. Intervention (12 hours)
Psy 645 Consultation in Educational and Mental Health Settings: Theory and Practice 3 hours
Psy 545 Clinical Child Psychology: Theory and Intervention 3 hours
Psy 519 Psychological Perspectives on Classroom Behavior 3 hours
Psy 641 Personality Theory and Psychotherapy 3 hours
12 hours

Professional School Psychology (3 hours)

Psy 541 Intro to Professional Psychology 3 hours

Statistics and Research Design (10 hours)

Psy 512 Experimental Design 3 hours
Psy 563 Statistics and Psychometrics Theory 3 hours
Psy 514 Program Evaluation 3 hours
Psy 515 Program Evaluation Lab 1 hour
10 hours

Thesis or Specialist Project (6 hours)

Psy 599 Thesis 6 hours

Internship (6 hours)

Psy 592 Psychology Internship 6 hours

TOTAL HOURS 75

Graduate Courses in Psychology

500 Trends and Scientific Approaches in Psychological Thinking. 3 hours.
New developments and special topics in contemporary psychological research. May be repeated with a different topic.
505 Statistical Software for Behavioral Scientists. 3 hours.
Prerequisite: Three hours of undergraduate statistics and
graduate standing or permission of instructor.
Develops proficiency in use of statistical software for main-
frame and personal computers. Emphasis on SPSS. Data
base management for the PC also addressed. Fall and Sum-
mer of each year.

510 Advanced Educational Psychology. 3 hours.
Psychology of learning. Different psychological theories,
methods and techniques.

511 Psychology of Learning. 3 hours.
Theories of learning including conditioning, social learning,
reinforcement, problem solving, motivation and structure of
the learning situation.

512 Seminar in Experimental Design. 3 hours.
Required for all graduate students in psychology. Under-
standing the principles of experimental design and the appli-
cation of appropriate statistical techniques. Includes the
design of an experimental project.

513 Advanced Statistical Analysis. 3 hours.
Prerequisite: Psy 512 or permission of instructor.
Advanced analysis techniques appropriate to psychological
research. Emphasizes the more complex forms of the analy-
sis of variance, the analysis of covariance, and non-para-
metric statistics.

514 Program Evacuation. 3 hours.
Prerequisite: Psy 512 or equivalent.
Examination of program accountability. Emphasizes all
phases of evaluation. Also covers decision making pro-
cesses.

515 Program Evacuation Laboratory. 1 hour.
Corequisite: Psy 514.
Student will conduct a program evacuation as a part of an evacu-
ation team and write the report for dissemination to appropriate
offices and/or agencies.

516 Advanced Study in Motivation. 3 hours.
Historical and present motivation theories. Particular em-
phasis on a current literature survey of both human and
animal research.

519 Psychological Perspectives on Classroom Behavior. 3 hours.
Prerequisite: Psy 510.
Strategies and techniques designed for coping with problem
behaviors in the classroom. Covers both preventative and prob-
lem encounter measures.

520 Psychology of Individual Differences. 3 hours.
Research into developmental aspects of behavior from the pre-
atal period to adulthood with emphasis upon individual
differences.

521 Advanced Child Psychology. 3 hours.
Particular emphasis upon a critical review of current research in
child development.

522 Advanced Adolescent Psychology. 3 hours.
Current research and theories in the area of adolescent
psychology as they relate to physical, social, emotional, and
intellectual development.

523 Cognitive Theory. 3 hours.
Information processing, thinking and cognition. Covers ma-
jor theories and research techniques in the area.

540 Behavior Problems of Childhood and Adolescence. 3 hours.
The major forms of psychopathology in children and adoles-
cents, with emphasis upon recent research, classification
systems and developmental patterns. Also covers clinical
and school treatment of behavior problems encountered in
the school setting.

541 Professional Psychology. 3 hours.
Roles and responsibilities of professional psychologists em-
phasizing the ethical, legal, and methodological issues for
the master's level practitioner.

545 Clinical Child Psychology: Theory and Practice. 3 hours.
For psychology or mental health profession students desir-
ing to work with mental health problems in children and ado-
lescents.

550 Personality Theory. 3 hours.
Psychological principles underlying the study of personality
in relation to a social environment. Topics include theories of
personality, the process of socialization; of the individual,
factors influencing adjustment to social environment.

551 Social Psychology of Organizations. 3 hours.
The dynamics of groups and organizations. Current theory
and research in psychology of organizations.

552 Advanced Social Psychology. 3 hours.
Behavior of the individual in relation to social contexts. Top-
ics include group dynamics, attitude formation and change,
social influence processes, socialization and language use in
communication.

560 Individual Assessment I. 3 hours.
Administration of the WI SC, WAIS and other individuality ad-
ministered tests used as basic tools in education, occupa-
tional guidance, clinical diagnosis.

561 Individual Assessment II. 3 hours.
Interpretation of the tests commonly used in educational,
vocational guidance and clinical diagnostics. Emphasis on
report writing and basic clinical practice.

562 Practicum in Psychological Assessment 1 to 3 hours.
Corequisite: Psy 560 or 561.
Supervised experience in the administration and interpreta-
tion of tests used in an educational or clinical setting for the
diagnosis of intellectual and learning problems. (May be
repeated.)

563 Statistics and Psychometric Theory. 3 hours.
Required of all graduate students in psychology. Introduction
to psychometric theory. Emphasis on statistical tech-
niques, construction and psychological measurement instru-
ments.

570 Introduction to Industrial/Organizational Psychology. 3 hours.
Overview of the i/o discipline. Acquaints students with the
major perspectives, methods, and applications in the con-
tent areas of this concentration.
Department of Psychology

571 Personnel Psychology. 3 hours.
Prerequisite: Psy 570.
Employee selection procedures, with emphasis on methods and techniques of job analysis, interviewing, testing, etc. Direct involvement in data collection and analysis.

572 Organizational Psychology. 3 hours.
Prerequisite: Psy 570.
Selected topics relevant to work organizations. Emphasizes current theories and research practices.

580 Advanced Physiological Psychology. 3 hours.
Anatomy of the nervous system, relationships among the components of the nervous system and psychological functioning.

581 Laboratory In Advanced Physiological Psychology. 3 hours.
Corequisite: Psy 580.
Physiological techniques of electrical recording and electrical chemical stimulation.

590 Readings of Research in Psychology. 1 to 3 hours.
Prerequisite: Departmental permission only.
Individual readings or research. Arrangements must be made before enrollment.

591 Internship in College Teaching. 1 to 2 hours.
Problems and methods of teaching at the college level. Students enrolled in this course will concurrently teach a course in introductory or general psychology.

592 Psychology Internship. 3 hours.
Field experience for clinical, school, industrial, or other psychologists. Required for Kentucky certification. Typically taken in the student's last semester in residence.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

640 Psychopathology. 3 hours.
Major forms of child and adult psychopathology with emphasis upon recent research, classification systems, the modification of deviant behavior and developmental patterns of learning and motivation variables.

641 Personality Theory and Psychotherapy. 3 hours.
Selected theories and techniques of psychotherapy and counseling. Also covers group therapy, clinical topics, and professional and ethical issues.

642 Clinical Interviewing and Psychotherapy. 3 hours.
Prerequisite: Psy 641.
Continuation of 641 with emphasis on group, family, and marital psychotherapy.

643 Psychoeducational Assessment. 3 hours.
Prerequisites: Psy 560, 561, 564.
Diagnostic procedures for the mentally handicapped, culturally disadvantaged, and learning disabled. Includes psychoneurological issues. Students will be exposed to and write Individual Educational Programs (IEP).

645 Consultation In Educational and Mental Health Settings: Theory and Practice. 3 hours.

660 Psychological Evaluation I. 3 hours.
Prerequisite: Psy 560.
Personality diagnosis using objective and projective techniques with emphasis on current research interpretation, and communication of assessment information.

661 Psychological Evaluation II. 3 hours.
Prerequisite: Psy 660.
A continuation of 660 with emphasis on personality measures and procedures for assessing psychological and neuropsychological disorders.

662 Practicum In Psychological Practice. 1 to 3 hours.
Supervised practice in schools, clinics, specialized training centers, hospitals, industry, and research settings.

670 Equal Employment Opportunity, the Law, and Ethical Considerations. 3 hours.
Prerequisite: Psy 570.
Issues relevant to providing equal employment opportunity: EEOC and FEA guidelines regarding selection practices; review of major court decisions and their implications for the conduct of selection; professional and ethical considerations in the practice of I/O psychology.

673 Advanced Training in Business and Industry. 3 hours.
Prerequisites: Psy 571, 572, or permission of instructor.
Theories, research and methods of training needs analysis, program design, implementation, and evaluation.

699 Specialist Project. 6 hours

700 Maintaining Matriculation. 1 to 6 hours

The following 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

405G Cognitive Psychology. 3 hours.
Prerequisites: Psy 100, 201, 210 or permission of instructor.
Overview of theory and research in human cognition, with primary emphasis on attention, memory, judgement and decision making, and problem solving. Cognition in special populations will also be covered.

410G Psychology of Learning. 3 hours.
Prerequisites: Psy 100, 201, 210, or permission of instructor.
Facts and principles of human and animal learning, treated in theories attempting to provide a general framework for understanding what learning is and how it takes place.

411G Psychology of Sensation and Perception. 3 hours.
Prerequisites: Psy 100, 201, 210, or permission of instructor.
Basic data and theories of psycho-physics, illusions and other topics fundamental to the understanding of sensory and perceptual processes.
412G Psychology of Motivation and Emotion. 3 hours.
Prerequisite: Psy 100.
Needs, desires and incentives as they influence behavior.
Includes review and analysis of research on motivational processes in human and animal behavior and the development of motivation and emotions.

421G Psychology of Early Adolescence. 3 hours.
Prerequisite: Psy 100.
Developmental theories, research, and literature relating to the early adolescent. A course for students planning to meet junior high school certification requirements.

422G Adolescent Psychology. 3 hours.
Prerequisite: Psy 100.
Behavior and development from early adolescence to adulthood with emphasis on a critical review of research and literature in the field.

423G Psychology of Adult Life and Aging. 3 hours.
Prerequisite: Psy 100.
Early adulthood, mid-life, and old age. Both descriptive and theoretical, the emphasis will be on contemporary psychological theories and literature, methodological issues, and the interaction of psychological, biological, social, and environmental factors in adulthood and aging.

430G Psychology of Women. 3 hours.
Prerequisite: Psy 100.
Nature and development of sex differences, with emphasis on understanding feminine personality, socialization, and sexuality. Includes discussion of mental health issues that concern women.

432G Psychology of the Gifted and Creative. 3 hours.
Prerequisite: Psy 100.
Identification of gifted children and adults with emphasis on educational programs for the maximum development of giftedness.

440G Abnormal Psychology. 3 hours.
Prerequisite: Psy 100 plus six hours in psychology.
Forms of abnormal behavior, etiology, developmental courses, interpretations, behavioral manifestation and treatment programs.

441G Psychological Aspects of Alcoholism. 3 hours.
Prerequisites: Psy 100, 440 and permission of instructor.
Application of psychological theories and research to the treatment of alcoholism.

442G Beginning Skills in Psychological Interviewing. 3 hours.
Prerequisites: Psy 100 plus six hours in Psy and permission of instructor. Psy 440 or 450 recommended.
Paraprofessional skills for conducting structured and unstructured interviews in non-therapy settings. Emphasizes skills development but also covers some theoretical material.

443G Behavior Theory and Application. 3 hours.
Prerequisite: Psy 100, 410 or enrollment in special education sequence.
Theory and application of techniques for modifying behavior in clinics, hospitals, child rearing and education.

450G Introduction to Personality Theory. 3 hours.
Prerequisites: Psy 100 plus nine hours of psychology or permission of instructor.
Major theoretical approaches to the study of personality. Includes historical as well as contemporary theorists and avenues of analysis and concepts in the field of personality.

460G Methods and Research in Social Psychology. 3 hours.
Prerequisites: Psy 100, 201, 210.
Research methods of social psychology and examination of major research areas. Primarily for psychology majors and minors.

473G Training In Business and Industry. 3 hours.
Prerequisites: Psy 100, 370 or Mgmt 310 and 311, or permission of instructor.
Theories, research and methods of training needs analysis, program design, implementation, and evaluation.

480G Physiological Psychology. 3 hours.
Prerequisites: Psy 100, 201, 210, and three hours in biology or permission of instructor.
Physiological mechanisms which underlie behavior. Specific areas of emphasis include current research on neurological, biochemical, and sensory mechanisms which influence behavior.

485G Psychology of Religion. 3 hours.
Prerequisites: Nine hours of Psy or permission of instructor. Psy 100, 201, 210, and 450 preferred.
Classical theories and current research in the psychology of religion. Course will be offered once every two years. According to current course rotation it will be offered spring of even numbered years.

490G Special Topics In Psychology. 3 hours.
Prerequisite: Psy 100.
Faculty directed research and/or readings in psychology.

495G History and Systems of Psychology. 3 hours.
Prerequisite: Psy 100 plus nine hours in psychology.
Historical antecedents of contemporary psychology. Both the sequence of psychological theory evolution and personality of prominent theorists are emphasized.

499G Senior Seminar In Psychology. 3 hours.
Prerequisite: Psy 100.
Major concepts and issues in psychology. Directed reading, guest lectures, field trips, and/or oral reports by students are utilized.
DEPARTMENT OF TEACHER EDUCATION

TATE C. PAGE HALL
ROOM 104 (502) 745-5414

James Becker, Head

Graduate Faculty


Degrees Offered: Master of Arts in Education, Master of Science, Specialist in Education.

Coursework associated with degree programs at Western Kentucky University may be used to meet certification requirements established by the Commonwealth of Kentucky; however, changes in certification requirements may be instituted by the Commonwealth. When such changes are initiated by the Commonwealth, students seeking certification may be required to modify their course/experience to meet the new certification requirements.

Master of Arts in Education (Elementary Education major)

Since this program leads to a professional II teaching certificate, applicants must (1) hold or be eligible to hold a provisional teaching certificate at the early grades/elementary level or (2) have a valid early grades conversion program on file with the Office of Teacher Admissions, Certification, and Student Teaching. (Note: Conversion program must be completed prior to or simultaneously with the MA in Education.)

Option I

This MA in Education option is for candidates holding or eligible for early grades certification (K-4). The program may be planned to include a certification endorsement for reading, elementary library, exceptional child education, or gifted and talented education.

A. Professional Education Component (12 hours):
   1. Required—6 hours—ELED 503, and RDG 519.
   2. Restricted Elective—3 hours—PSY 510,511 or 519.
   3. Restricted Elective*—3 hours—ELED 505, ELED 506, ELED 507, or ELED 509.

B. Specialization Component (12 hours):
   Twelve hours of advisor-approved, graduate level, subject-related courses pertinent to the certified grade level.

C. Elective (6 hours):
   Six hours of advisor-approved, graduate level, professional education or subject-related courses.

D. Research Tool (3 hours):
   EDFN 500 (Grade of B or better required.)

*may be waived for appropriate endorsement requirements.

Option II

This MA in Education option is for candidates holding or eligible for elementary certification (grades 1-8, or K-8). The program may be planned to include a certification endorsement for reading, elementary library, exceptional child education, gifted and talented education, or kindergarten.

A. Professional Education Component (12 hours):
   1. Required: RDG 519.
   2. Restricted Elective (3 hours): ELED 503, or MGE 571.
   3. Restricted Elective (3 hours): PSY 510, PSY 511, PSY 519, or PSY 540.
   4. Restricted Elective (3 hours)*: ELED 505, ELED 506, ELED 507, or MGE 544.

B. Specialization Component (12 hours):
   Twelve hours of advisor-approved, graduate level, subject-related courses pertinent to the certified grade levels.

C. Electives (6 hours):
   Six hours of advisor-approved, graduate level, professional education or subject-related courses.

D. Research Tool (3 hours):
   EDFN 500 (Grade of B or better required.)

*may be waived for appropriate endorsement requirements.
Master of Arts in Education
(Middle Grades Education Major)

Since this program leads to a professional II teaching certificate, applicants must (1) hold or be eligible to hold a provisional teaching certificate at the middle grades level or (2) have a valid middle grades conversion program on file with the Office of Teacher Admissions, Certification, and Student Teaching. (Note: Conversion program must be completed prior to or simultaneously with the Master of Arts in Middle Grades Education.)

Middle Grades Education is for candidates holding or eligible for middle grades certification (grades 5-8). The program may be planned to include a certification endorsement for reading, elementary library, exceptional child education, or gifted and talented education.

A. Professional Education Component (12 hours):
   1. Required-6 hours—MGE 544*; MGE 571.
   2. Restricted Elective-3 hours—PSY 510, PSY 511, PSY 519, or PSY 540.
   3. Restricted Elective-3 hours—RDG 519; or RDG 524.

B. Specialization Component (12 hours):
   Twelve hours of advisor-approved, graduate level, subject-related courses pertinent to the area(s) of certification.

C. Electives (6 hours):
   Six hours of advisor-approved, graduate level, professional education (education minor) courses.

D. Research Tool (3 hours):
   EDFN 500 (Grade of B or better required.)

*may be waived for appropriate endorsement requirements.

Master of Arts in Education
(Secondary Education Major or Minor)

Since this program leads to a professional II teaching certificate, applicants must (1) hold or be eligible to hold a provisional certificate at the secondary level or (2) have a valid secondary education conversion program on file with the Office of Teacher Admissions, Certification, and Student Teaching. (Note: Conversion program must be completed prior to or simultaneously with the Master of Arts in Education).

Candidates must declare both a major and a minor (one or the other must be in secondary education). The following majors are permitted: agriculture, art, biology, business education, chemistry, communication, economics, English and allied language arts area, French, geography, German, history, math, music, physical education, reading, secondary education, and Spanish.

This program permits minors in the following areas: agriculture, art, biology, business education, chemistry, communication, theatre, economics, English, folk studies, French, geography, German, health, history, home economics, industrial education, mathematics, music, physical education, physics, psychology, science area, secondary education, sociology, and Spanish.

A. Professional Education Component (12 hours):
   1. Required Courses (9 hours): EDFN 500, SEC 544, and SEC 580.
   2. Restricted Elective (3 hours): PSY 510, PSY 511, or PSY 519.

B. Specialization Component (12 hours):
   Twelve hours of advisor-approved graduate level, subject-related courses pertinent to the area(s) of certification.

C. Electives (6 hours):
   Six hours of advisor-approved, graduate level, professional education (education major) or subject-related (education minor) courses.

Gifted and Talented Education Requirements:
GTE 536, 537, 538, PSY 432G

Reading Major Requirements
A. Professional Education, as above (9 hours)
B. RDG 519, 520, 521, and 522 (12 hours)
C. Non-professional education coursework, individually prescribed (12 hours)

Master of Arts in Education (Interdisciplinary Early Childhood Education)

The program is designed to prepare early childhood educators to work with children, both with and without special needs, ages birth through five years and their families. Program graduates are eligible to apply for the Professional Certificate in Interdisciplinary Early Childhood Education (IECE), Birth to Primary (B-P). Graduates are prepared for positions in public schools, head start programs, child care centers, and other public and private agencies serving young children and families.

In addition to meeting the Graduate Studies admission requirements, applicants must complete the IECE application process through the Department of Teacher Education. This application process includes documentation of early childhood related professional experiences and training, a written goal statement, and three letters of reference. Applicants must be officially admitted to the IECE program before beginning the program sequence. Students must also have had EXC 331 or ELED 360 and EXC 330 or EXC 516 prior to entering the master's program or complete them as program deficiencies.
74 Department of Teacher Education

The performance-based program of study requires 36 semester hours of coursework and 240 clock hours of field experiences. Approximately one-half of the field experience hours are completed as part of ongoing coursework. The culminating experience of the program is a summer internship. During the final semester of coursework, the candidate must also pass an oral comprehensive exam. Program requirements are as follows:

A. Professional Education (9 semester hours)
   ELED 509, EXC 523, EXC 486G
B. Specialization Courses (12 semester hours)
   EXC 481G, EXC 521, EXC 522, EXC 524
C. Content Area Courses (12 semester hours)
   CFS 577, EXC 520, SOC WK 436G, PSY 645
D. Research Tool (3 semester hours)
   EDFN 500
E. Prerequisites
   ELED 360 or EXC 331, and EXC 330 or EXC 516

Master of Arts in Education
( Exceptional Child: Moderate and Severe Disabilities)

This program is being developed at the time this catalog is being printed. Students should consult with their advisor to receive current information about this program.

Master of Arts in Education
( Exceptional Child Education-Learning and Behavior Disorders)

Since this program leads to the professional certificate for teachers of exceptional children—learning and behavioral disorders, applicants must hold a provisional certificate for teaching exceptional children with learning and behavior disorders and must be endorsed for elementary/middle grades classroom teaching in grades one through eight, kindergarten through four, or five through eight. Requirements are as follows:

A. Professional Education Core:
   EDFN 500, ELED 503, MGE 571, or SEC 580, and EXC 531.
B. Specialization Courses:
   EXC 518, 530, 532, 533, and 534.
C. Electives:
   Nine hours of coursework, approved by the advisor, from one or more of the following areas: communication, health and safety, home economics and family living, industrial education, library science, physical education, psychology, recreation, sociology.

Master of Science (Communication Disorders)

This program is designed to prepare professional speech pathologists to meet the needs of the communicatively handicapped in hospitals, clinics, nursing facilities, and schools. It is also designed to meet the academic and clinical requirements of the American Speech Language and Hearing Association, leading to national certification and state licensure.

Submission to the program requires an undergraduate grade point average of 3.0 for the final 60 semester hours and a minimum score of 800 (verbal and quantitative combined) on the General Test of the GRE. Students without an undergraduate background in communication disorders will complete prerequisites in the area that are required by the National Association's academic standards. A strong academic background in psychology and/or gerontology is desirable.

Thirty-six semester hours are required for both the thesis and non-thesis option. Specific course requirements are: EXC 504, and 509. Twenty-four hours must be selected, with advisor approval, from the departmental course listing. Additionally, the student must complete 350 clock hours of clinical experience at the graduate level and clinical externship during the final semester.

The research tool requirement may be met by successful (grade A or B) completion of EDFN 500, or as otherwise specified by the student's major advisor and Graduate Studies.

During the final semester of coursework, the candidate must pass the written comprehensive examination. Students are also encouraged to take the national certification examination during the final semester.

Two options are available within the structure of this degree program. Both program options meet academic and clinical requirements for the American Speech Language and Hearing Association, leading to national certification and state licensure.

Those selecting Option A must also complete EXC 330, PSY 100, 320 or 330, and ELED 250, or SEC 271.

Option A is designed to prepare professional speech pathologists to meet the needs of school-age children and leads to provisional teacher certification in exceptional child education—speech and communication disorders. Course requirements are as follows:

EDFN 500, EXC 503, EXC 504, EXC 505, EXC 506, EXC 508, EXC, 509, EXC 510; EXC 512, EXC 590, EXC 591.

Option B is designed to prepare professional speech pathologists to meet the needs of the communicatively handicapped in hospitals, clinics, nursing facilities, and residential schools. Course requirements are as follows:

EDFN 500, EXC 489G, EXC 502, EXC 504, EXC 506,
EXC 507, EXC 508, EXC 509, EXC 510, EXC 511, EXC 590, EXC 591.

**Master of Science (Library Science)**

This program is designed for those who are interested in the field of school library media.

In addition to meeting the general graduate studies admission requirements, six hours of approved prerequisite work in library science from LME 288, 401, 406, 408, and 445, or their equivalents are required. The prerequisite courses may be taken concurrently with graduate coursework. Students with media library experience equivalent to these prerequisite courses may, with the approval of the department head, take a qualifying examination to have these courses waived. Applicants who have a grade point average of 3.0 and a score of 700 (verbal and quantitative combined) on the General Test of the GRE may be admitted. Students having less than the required grade point average may be considered for admission provided their combined (verbal and quantitative) General Test score is above 800. Both Plan A (thesis) and Plan B (non-thesis) are available. Up to six hours of the required 30 hour minimum may be selected from related fields such as literature, mass communications, history, or education. The research tool requirement shall be met by successful (grade A or B) completion of EDFN 500—Research Methods—or its equivalent.

Students may select either of the two program options, but a requisite core of six hours must be taken from the following or their equivalents:
- LME 502, or 401G -3 hours
- LME 445G or 545-3 hours

The remaining 24 hours of coursework will be selected in consultation with the advisor and in consideration of the student's academic work and career goals.

**Specialist Degree in Education**
*(Elementary Education, Secondary Education)*

This post-master's degree provides opportunity for the advanced graduate student to improve the foundations and competencies for teaching. The program may also be structured to meet Rank I requirements under Kentucky's minimum foundation program of education. The following emphases or specializations are available to the elementary education major: reading, general curriculum and instruction, and gifted and talented education. Available concentration areas for secondary education majors are science, social science, language arts, and vocational education.

**Department of Teacher Education 75**

In addition to meeting the admission requirements of Graduate Studies, applicants must meet the following departmental requirements:

1. Three years of teaching experience at the appropriate level. (For elementary education majors, up to two years of experience maybe waived in favor of equivalent experience)
2. Four letters of recommendation: two from graduate faculty members and two from professional associates in administrative and/or supervisory roles.

**NON-DEGREE PROGRAMS**

Students wishing to pursue one of the following programs must make application to the Office of Graduate Studies. Upon completion of the program, individuals must contact the certification officer in the College of Education. That official then certifies to the State Department of Education that rank requirements have been met.

**Rank II Non-Degree Programs**

The Department of Teacher Education provides the planned Fifth Year Program for students who do not meet the admission requirements of a degree program or who want greater flexibility with regard to time allowed for completion, transfer limitations, and selection of courses than is permitted in a degree program.

Although the Fifth Year Program does not result in the master's degree, it does result in Rank II salary classification in Kentucky, renews the provisional certificate, and permits entry into a Rank I teacher program.

**Guidelines**

1. Thirty-two (32) hours of upper division undergraduate and graduate courses must be completed.
2. At least 18 of the required hours must be taken at Western Kentucky University.
3. A grade point average no less than that for undergraduate certification (2.5) shall be required.
4. A minimum of 12 hours must be in professional education and a minimum of 12 hours in cognate areas.
5. At least 18 hours must be in graduate level courses, and all professional education courses must be at the graduate level.
6. Coursework taken by correspondence is not accepted.
Three semester hours from:

ELED 503 and RDG 519 (K-4)
MGE 544* and MGE 571 (5-8)
RDG 519 and ELED 503 or MGE 571 (1-8)

The following courses and their distribution would meet requirements for a Fifth Year Program.

**Required:**

- ELED 503 and RDG 519 (K-4)
- MGE 544* and MGE 571 (5-8)
- RDG 519 and ELED 503 or MGE 571 (1-8)

**Three semester hours from:**

- PSY 510, 511, or 519 (K-4)
- PSY 510, 511, 519, 540 (5-8, 1-8)

**Three semester hours from:**

- ELED 505', 506', 507', 509' (K-4)
- RDG 519, 524, (5-8)
- ELED 505', 506', 507', MGE 544* (1-8)

**Twelve semester hours from specialization courses selected in consultation with advisor (K-4; 5-8; 1-8)**

**Eight semester hours of electives selected in consultation with advisor (K-4; 5-8; 1-8)**

*may be waived for specific endorsement requirements.

**Rank II (Secondary Education)**

Note: This program is to be followed by students admitted to the Fifth-Year Program January 1988 and thereafter.

The professional education component consists of (A) required core courses, (B) elective core courses, and (C) general electives. Students are required to complete a minimum of 12 semester hours of core courses. The elective core courses and the general elective courses must be selected in consultation with an assigned advisor.

**A. Required Core Courses—9 hours from**

SEC 544, SEC 580, PSY 510; PSY 511

**B. Elective Core Courses—3 hours from**

EDFN 576, EDFN 577, EDFN 500, PSY 519

**C. Education Electives—students may select up to 8 hours from this section or from section B.**

The total education hours shall not exceed 20 hours:


(A maximum of 9 hours Independent Study-Workshops may be included but must be distributed 6 in one area, 3 in another area.)

**D. Fifth-Year Specialization Component**

Students are required to complete a minimum of 12 semester hours in the specialization component. Should the student so choose, it is possible to complete up to 20 hours in the specialization component.

The following guidelines are used in selecting appropriate courses:

1. The Fifth-Year student must meet with the assigned advisor in the appropriate specialization area to select courses for this component.
2. A minimum of 12 hours must come from either the student's teaching major or teaching minor or a closely related area. (A closely related area is defined as a subject that is part of the same secondary school curriculum area as the major or minor).
3. A student who completes more than 12 semester hours in the specialization component must select the additional 3 to 8 hours in accordance with the guidelines above.

**Rank I Programs**

The Department of* Teacher Education offers Rank I Programs for Elementary and Secondary Teachers which lead to the Rank I salary classification.

**General Guidelines:**

1. Rank I classification shall require the completion of either (a) 30 semester hours approved graduate level credit in addition to the requirements for Rank II classification or (b) 60 semester hours approved graduate level credit including a master's degree.
2. The student's program shall be planned in consultation with the advisor and shall be related to the professional needs of the individual.
3. A minimum of 15 semester hours must be in courses open only to graduate students.
4. The student shall maintain a B standing, and no credit shall be given for a course grade lower than C.
5. At least 15 of the required hours shall be taken at Western Kentucky University: The remaining hours may be taken, upon approval of the college advisor and the certification officer, at other institutions provided the grade is A or B.

A minimum of 24 hours of the total 60 (62 when based upon Rank II classification) must be in academic
work apart from professional education. These hours shall be in the candidate's major or minor, or area of preparation, or in supporting courses from other disciplines as approved by this institution.

Rank I—Teacher's Program

Rank I (Elementary Education)

The following courses and their distribution would meet requirements for Rank I classification. The student must complete a total of sixty semester hours of graduate credit including the master's degree or thirty semester hours of graduate level credit above the Rank II classification.

A. Nine semester hours: ELED 603, 604, EXC 516.
B. Six to nine semester hours: ELED 505, 506, 507, 544, 545, 570W, 508, 509, 598, RDG 519, 523, GTE 536, 537, 538.
C. Three semester hours may be elected from: CNS 551, 565, EDFN 576, 577, EDAD 677, 585.
D. Twelve semester hours from related non-professional education courses selected in consultation with advisor.

Each program must be individually planned in consultation with the student's advisor.

Rank I (Secondary Education)

1. Required Professional Courses -6 hours required: EXC 516, SEC 604
2. Related Professional Courses -6 to 12 hours required
   (Students may substitute courses in their undergraduate teaching major or minor or in an area for which their certificate has been/will be endorsed in place of courses in this area. This should be done only after consulting with your advisor.)
   A. Select three to six hours from the following courses in consultation with your advisor:
   B. Select additional courses from either Section A or B in consultation with your advisor:
3. Related Non-Professional Education Courses - 12 to 18 hours required: Select courses in consultation with your advisor.

Note: There is a limit of 9 hours workshop and independent Study credit that may be used on a Rank I program. Only three of those 9 hours maybe one credit hour courses. A total of 24 hours non-professional education courses is required for Rank II and Rank I combined.

Graduate Courses in Teacher Education

Business Education (BE)

535 Survey of Distribution. 3 hours.
   Business activities involved in moving goods from production to consumption, emphasis on the role of marketing in the American economy.

540W Consumer Financial Problems. 3 hours.
   Basic elements of money management and the relationship of these elements to family units and corporate citizenship.

544 Current Problems in Business Education. 3 hours.
   Current problems and significant research. Also offered in independent study or workshop. (May be repeated by Business Education Majors.)

545 Principles of Business Education. 3 hours.
   Principles, practices, problems, and philosophy includes standards, guidance, and curricula.

560 Office Systems Institute. 3 hours.
   Intensive institute in the content subject matter of undergraduate major in office systems.

575 Administration and Supervision in Business Education. 3 hours.
   Roles and functions of administration and supervision at all educational levels. Includes vocational education laws and their relationship to business education.

The following 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

463G Information Resource Management. 3 hours.
471G Office Internship. 3 hours.
485G Office Employee Training. 3 hours.

Elementary Education ELED

503 Organization of the Elementary School Curriculum. 3 hours.
   Principles and practices in elementary school curriculum construction. Emphasis on forces affecting curriculum, current innovations, and trends.

505 Advanced Materials and Methods in Modern Mathematics for Elementary Teachers. 3 hours.
   Kindergarten through grade eight. Involves the conceptual,
the computational, and application aspects of mathematics with emphasis on the structural aspects of mathematics and on the "why" of arithmetic computation.

506 Seminar in Elementary School Science. 3 hours. Advanced methods and materials for teaching science in the elementary school.

507 Advanced Materials and Methods in Social Studies. 3 hours. Concepts and objectives, classroom organization for instruction, current strategies in teaching content, and materials available.

508 Foundations and Organization of Early Childhood Education. 3 hours. Emphasizes the importance of appropriate early learning experiences including philosophical, theoretical, and empirical bases of instruction.

509 Advanced Methods and Materials for Early Childhood Education. 3 hours. Examination of alternative instructional strategies and support materials appropriate for early learners in language arts, reading, mathematics, social studies, and science.

544 Classroom Teaching Strategies. 3 hours. Examination of alternative teaching strategies related to four major goal attainment areas: fact/process retention, information processing, social interaction, and personal development.

545 Investigations in Classroom Teaching. 1 to 3 hours. Opportunity for elementary teachers to engage in the concentrated study of specific problems and/or the development of specific skills related to effective classroom instruction.

570 Workshop—Elementary Education. 3 hours.

598 Organization and Supervision of Student Teaching. 3 hours. Philosophy, theory and practices essential for an effective student teaching program. Covers state and NCATE standards for teacher education, personal and professional relationships and evaluation of student teachers.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

603 Advanced Seminar Elementary Curriculum. 3 hours. Strategies and models to assist the elementary classroom teacher in assuming an active role in total elementary school curriculum development.

604 Management of the Learning Environment. 3 hours. This course is designed to enable elementary teachers to utilize Mastery Learning strategies and related teaching skills to increase student achievement and improve student attitudes toward learning.

699 Specialist Project. 6 hours.

700 Maintaining Matriculation. 1 to 6 hours.

The following 400-level ELED courses maybe taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

420G Reading in the Primary Grades. 3 hours. Prerequisite: ELED/MGE 320 Principles and methodologies currently in use at the primary (K-4) school levels.

445G Introduction to Educational Technology. 3 hours. Instruction and laboratory experiences in the basic theory and application of educational technology to the design, production, evaluation, and utilization of various media. Cross-listed with LME 445G.

Exceptional Child Education EXC

502 Motor Speech Disorders. 3 hours. The etiologies, communication characteristics, appraisal and treatment of motor speech disorders in children and adults. Additional emphasis on dysphagia evaluation and treatment. (spring)

503 Advanced Diagnostic Procedures in Speech Pathology. 3 hours. Prerequisites: EXC 481, 483, 485, 486 Corequisites: EXC 505, 512, 590 or 591 Teaches in depth assessment, interpretation of results and clinical report writing skills. Focus on identification to pediatric to geriatric persons with communication disabilities in various clinical settings. Addresses assessment in multicultural populations. Elaboration and extension of basic diagnostic skills and techniques. (summer)

504 Seminar in Language Disorders of Childhood. 3 hours. Prerequisites: EXC 481, 486, 502, 55, 590 or 591. Topics cover pediatric and adult populations. Discussion focuses on a school age child's use of an integrated model of language, reading, writing and aphasia intervention. Discussion of multicultural and bilingual issues. (spring)

505 Communication Disorders of Cleft Palate and Cerebral Palsy. 3 hours. Prerequisite: EXC 481. Etiology, diagnosis, and management of speech/language dysfunctions associated with cleft palate, cerebral palsy, and other syndromes resulting from neuropathologies. (summer)

506 Dysfluency. 3 hours. Prerequisite: EXC 481. Corequisites: EXC 508, 509, 580, 590, or 591 Literature review of cluttering and stuttering with emphasis on assessment and clinical management of fluency disorders in children and adults. (fall)

507 Dysphasia. 3 hours. Prerequisite: EXC 481 Corequisites: EXC 510, 511 Symptomatology, etiology, differential diagnosis, and remediation of adult dysphasia. (fall)
508 Voice Disorders. 3 hours.
Prerequisites: EXC 481.
Corequisites: EXC 506, 509, 580, 590, or 591.
Diagnosis and remediation techniques for voice disorders in children and adults. Rehabilitation of the laryngectomee including use of electrolarynx, esophageal speech, and other voice substitutes. (fall)

509 Speech Science. 3 hours.
Prerequisites: EXC 481
Corequisites: EXC 506,508,580,590, or 591
Study and review of current research in acoustics, speech production, and speech perception. Emphasis on physiological, acoustical and biomedical recording, measurement and interpretation of speech signals. Includes lab activities with various equipment. (fall)

510 Seminar in Speech Pathology. 3 hours.
Prerequisites: EXC 280
Corequisites: EXC 507,511
Current local, regional, and national issues that impact service delivery by the speech pathologist and audiologist. Includes ethics and requirements for state and American Speech-Language Hearing Association certification and licensure. (fall)

511 Neurology of Speech and Language. 3 hours.
Prerequisites: EXC 481, 484
Corequisites: EXC 507,510
 Neuroanatomical and physiological development with emphasis on normal reflexes affecting motor and perceptual speech and language patterns. Stresses assessment and treatment procedures in neurologically impaired children and adults. (fall)

512 Seminar in Phonology. 3 hours.
Prerequisites: EXC 405,481,483
Corequisites: EXC 503,505,590,591
Study of phonological process theory and therapy approaches for persons, preschool age through adult, with communication disabilities. (summer)

515 Pediatric Audiology. 3 hours.
Prerequisites: EXC 381,487
Corequisites: EXC 502,504,580,590, or 591
Developmental study of hearing function from embryology through early life. Emphasis on audiological testing and techniques from infancy through preschool years. Focus on intervention including amplification and (rehabilitation. (spring)

516 The Exceptional Child: Perspectives and Issues: 3 hours.
Characteristics, needs, and problems of children who are atypical in the mental, physical, sensory, emotional, and social areas of development.

518 Seminar: Contemporary Challenges in Special Education. 3 hours.
Prerequisite: EXC 516 or admission to MA Program in Exceptional Child Education.
Issues in special education. Classroom experiences to develop awareness and sensitivity to educational needs.

520 Organizing Programs for Early Childhood Special Education. 3 hours.
Prerequisites: CFS 577, EXC 481G.
Rationale for ECSE (0-5), service delivery options, teaming issues, and atypical development specific to sensory, physical and mental impairments. Thirty hours field experiences required.

521 Assessment in Early Childhood Special Education. 3 hours.
Prerequisites: CFS 577, EXC 481, EXC 520.
Assessment process specific to children 3-5 who have or are at risk for handicaps and their families will be examined. Thirty hours of field experiences are required.

522 Family-Focused Services. 3 hours.
Prerequisites: CFS 577, EXC 481G, EXC 520.
Students apply family systems theory to family assessment, the development of family plans, and the implementation-evaluation of family-focused services. Thirty hours of field experiences are required.

523 Curriculum/Methods in Early Childhood Special Education. 3 hours.
Prerequisites: EXC 521, 522
Selection/development of curricula materials for and planning, implementation, and evaluation of intervention with children 3-5 at risk for handicaps.

524 Internship in Early Childhood Special Education. 3 hours.
Prerequisites: ELED 509, EXC 486G, EXC 523. With the advisor's permission 509, 486G or 523 may be taken concurrently. Supervised work with children who have handicaps or who are at risk for handicaps and their families.

530 Advanced Assessment Techniques. 3 hours.
Experiences will be provided for students to enhance their knowledge of issues, techniques, and interpretations of various assessment procedures and instruments.

531 Advanced Prescriptive Teaching. 3 hours.
Adapting the learning environment to the learner. The identification and modification of various aspects of specialized learning environments are examined.

532 Families, Professionals, and Exceptionalities. 3 hours.
Interpreting programs for handicapping conditions to maximize family involvement. Emphasizes the attitudes, skills, and knowledge taught in the educational program.

533 Seminar: Curriculum for Learning and Behavior Disorders. 3 hours.
Development, adaptation, and evaluation of curricula, methods, materials, and resources. Implementing and evaluating instructional programs for students with mild disabilities is stressed.

534 Seminar: Research in Exceptional Child Education. 3 hours.
This course enables students to become more skillful in reading, interpreting, and conducting research with exceptional children, parents, and teachers - an independent research project is required.
The following 400-level EXC courses may be taken for credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

405G Phonetics. 3 hours.
Study of distinctive feature systems that classify consonants and vowels, the definitions of phonological process terminology, and practice in broad and narrow transcription of words and connected speech. (fall)

535 Seminar: Curricular Options for Individuals With Moderate and Severe Disabilities. 3 hours.
Curricula and programs for the moderately and severely disabled are examined. The course focuses on a philosophy of providing a continuum of services.

580 Diagnostic Procedures in Speech Disorders, 1 hour.
Prerequisites: Course pass from instructor, final semester before graduation
Intensive, advanced, supervised clinical training in nonschool settings. Experience provided in assessment and treatment of swallowing disorders. (fall)

589 Special Topics in Communication Disorders. 1 to 3 hours.
Prerequisites: Permission of instructor
Independent but guided inquiry of preapproved topics in the field of Speech Pathology-Audiology. Not substituted for course offered same term. (summer, fall)

590 Clinical Internship in Speech Pathology. 1 hour.
Prerequisites EXC 495, course pass from instructor.
Advanced, supervised, clinical practicum that provides varied on and off campus experiences with clients having more acute communication disorders. Repeat for total of 3 hours; maximum of two allowed in one semester. (fall, spring)

591 Clinical Externship. 1 to 6 hours.
Prerequisite: EXC 590, course pass from instructor, student teaching during final semester before graduation.
Advanced, supervised on-site clinical experience in a variety of settings including schools, private practices, hospitals, rehabilitation facilities, nursing homes and home health agencies. Clinical hours meet ASHA certification requirements. Maximum of three hours per semester. (fall, spring)

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

620 Seminar in the Administration of Special Education. 3 hours.
Current trends and issues in the administration and supervision of special education programs. Cross-listed with EDAD 620.

625 Practicum in the Administration of Special Education. 3 hours.
Supervised practice in educational organizations for persons preparing to become a Director of Special Education. Cross-listed with EDAD 625.

630 Special Education Law and Finance. 3 hours.
Comprehensive study of existing school law codes for special education; budgeting and financial accounting for local, state and federal monies; and, grant writing and reporting.

431G Language Intervention: Strategies and Materials. 3 hours.
Prerequisites: EXC 516.
An overview of language development is provided with emphasis placed on the educational remediation of the language disorders of the handicapped. Focus is on the utilization of methods and materials which foster language development, Field experiences in public schools and/or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites. (fall, spring)

460G Special Problems. 1 to 3 hours.
Investigation of a special problem from an area of individual interest. Course pass required.

481G Speech and Language Development. 3 hours.
Introduction to comprehensive child development (Birth 5- yrs). Topics include development of play, cognition, social­ization, and emerging literacy as well as language. Language topics include development of phonology, pragmatic, semantics, syntax, and metalinguistics. Provides a founda­tion in understanding total child development emphasizing language acquisition. (fall)

482G Audiology. 3 hours.
Focus on assessment techniques, therapy approaches, case selection, scheduling, program planning, program evaluation, and federal, state and local legislation for school support services. Also addresses service delivery to culturally diverse populations. (spring)

483G Articulation Disorders. 3 hours.
Study of the etiology, evaluation, and management of phonological process proficiency in children. Includes dialectal and bilingual differences. Stresses proficiency in administering protocols and planning therapy using several approaches. (spring)

484G Speech Anatomy and Physiology. 3 hours.
Designed to help students identify the structures and functions which comprise the speech and hearing mechanism. The relation of this mechanism to the production and development of speech and language will be addressed. (fall)

485G Introduction to Diagnostic Procedures in Communication Disorders. 3 hours.
Focus on assessment using standardized and nonstandard­ized screening and diagnostic instruments. Development of formal and informal evaluation techniques common to speech pathology/audiology. Overview of data gathering and interpretation regarding communication functions in persons of all ages. Includes multicultural assessment tools and methods. (fall)

486G Language Disorders. 3 hours.
Identification, diagnosis, and treatment approaches used with language delayed children. Covers current state and federal legislation as related to service delivery models. Evaluation strategies include language sampling and report writing. Treatment approaches based on medical and educational models with emphasis on functional language therapy. (spring)

487G Aural Rehabilitation. 3 hours.
Includes terminology, diagnostic procedures (with emphasis on early identification) and habilitation rehabilitation programs such as manual and total communication for pediatric through geriatric populations (spring, summer)
488G  Augmentative Communications. 3 hours
Prerequisite: EXC 486G
Focus on terminology and issues in alternative/augmentative communication. Teaches about various nonelectrical and electrical communication aids and techniques with special emphasis on rationale for device selection based on client needs.

489G  Geriatric Communication Disorders. 3 hours.
Prerequisites: BIOL 131, HE 443, or permission of instructor.
Teaches about symptoms, causes, and treatment of speech, language, and hearing disorders in the geriatric population. (summer)

Gifted and Talented Education (GTE)

536  Nature and Needs of Gifted, Creative and Talented Students. 3 hours.
Terminology, theories, issues and general approaches in educating gifted, creative, and talented young people.

537  Curriculum, Strategies, and Materials for Gifted Students. 3 hours.
The curriculum and the learning environment in meeting the unique and advanced needs of gifted students. Strategies particularly suitable for the gifted.

538  Practicum for Teachers of Gifted Students. 3 hours.
Prerequisites: GTE 536, 537, and PSY 432G. Supervised experiences to integrate the knowledge and skills needed to plan, implement, and evaluate effective learning experiences for gifted, creative, and talented students.

Library Media Education (LME)

502  The Library in Society. 3 hours.
Types of libraries and their history, laws, standards, and inter-cooperation. Librarianship as a career, professionalism and the freedom to read.

509  Investigations in Library Science. 3 to 6 hours.
Prerequisite: 18 hours of LME, EDAD 500, or the equivalent, and permission of graduate advisor.
Independent investigation under the direction of a faculty member.

518  Advanced Children's Literature. 3 hours.
Materials available to meet the needs of children including outstanding authors, illustrators, topical issues, and the reviewing of children’s books.

519  Special Topics. 3 hours.
Special topics in the field of media services. May be repeated once with a different topic.

545  Production of Instructional Media. 3 hours.
Instruction and laboratory experience in advanced production of graphics, photographic, and audio media products with emphasis on media design. Requires production of instruction media for course projects.

547  Instructional Design. 3 hours.
Basic principles of instructional design applicable to development of instructional product prototypes, training programs, and educational curricula. Requires course project.

590  Field Experiences. 1 to 6 hours.
Guided experience and reading on the design, organization, and administration of media programs; activity log, field visits, projects and evaluation conferences. Field experiences in public schools and/or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

599  Thesis Research and Writing. 6 hours.

600  Maintaining Matriculation. 1 to 6 hours.

These 400-level LME courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

401G  Library Organization and Administration. 3 hours.
Organization and administration of all types of media for access and use; circulation and other records; development and maintenance of the media collection; and service to patrons. Field experiences in public schools and/or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

402G  Collection Development. 3 hours.
Evaluation, selection, acquisition, and maintenance of multi-media resources. Development of selection and acquisition policies and procedures, intellectual freedom and users’ rights, networking and resources sharing are emphasized. Field experiences in public schools and/or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

406G  Classification and Cataloging. 3 hours.
Study of classification, descriptive and subjective cataloging, and filming rules. Laboratory sessions in all areas covered.

407G  Literature for Young People. 3 hours.
Selection and evaluation of materials, reading guidance, and programming for young people-adolescence through young adult.

408G  Reference and Bibliography. 3 hours.
Study of reference materials and current bibliographic formats. Field experiences in public schools and/or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

409G  Selected Topics in Library Science. 1 to 3 hours.
Prerequisites: Permission of supervising faculty member. Problematic study of a selected topic under the direction of a faculty member.

410G  Storytelling. 3 hours.
Storytelling literature, story selection and sources. Practice in oral communication. Field experiences in public schools and/or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.
Department of Teacher Education

411G Creative Experiences for Elementary Children. 3 hours. Experiences in creative expression: creative play acting, puppetry, creative writing experiences, shadowplays, creative use of audiovisual equipment and materials, etc.

445G Introduction to Educational Technology. 3 hours. Instruction and laboratory experiences in the basic theory and application of educational technology to the design, production, evaluation, and utilization of various communication media formats. Cross-listed with ELED 445G, and SEC 445G.

448G Microcomputer Applications in Education. 3 hours. Uses of microcomputers in instruction and instructional management. Emphasis on evaluation and utilization of appropriate software and related hardware. Field experiences in public and/or other appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

475G Workshop in Library Science. 1 to 3 hours. Workshop classes of variable content designed for emphasizing library media practice. Field experiences are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

Middle Grade Education (MGE)

530 Seminar in English Education. 3 hours. Prerequisite: Permission of Instructor. Current methods and materials for junior and senior high school English courses, research and professional trends. Cross-listed with SEC 530.

534 Seminar in Mathematics Education. 3 hours. Prerequisite: Permission of Instructor. Covers newer concepts in curriculum and methods of instruction, current research and problems in mathematics education. Cross-listed with SEC 534.

537 Seminar in Science Education. 3 hours. Prerequisite: Permission of Instructor. Includes the history and comparative study of science teaching, curriculum and course content changes, materials available, evaluation, methods in science teaching, professional organization, and research in science education. Cross-listed with SEC 537.

538 Seminar in Social Studies Education. 3 hours. Prerequisite: Permission of Instructor. Covers newer concepts in curriculum and methods of instruction as well as current research in social studies education. Cross-listed with SEC 538.

544 Classroom Teaching Strategies. 3 hours. Cross-listed with ELED and SEC 544.

545 Investigations in Classroom Teaching. 1 to 3 hours. Opportunity for middle school teachers to engage in concentrated study of specific problems and/or development of specific skills related to effective classroom instruction.

571 Middle School Curriculum. 3 hours. Examination of programs designed for the young adolescent. Functions, organizations, planning, and evaluation of the curriculum. Includes special curricular areas.

598 Organization and Supervision of Student Teaching. 3 hours. Philosophy, theory and practices essential for an effective student teaching program. Covers state and NCATE standards for teacher education, personal and professional relationships and evaluation of student teachers.

The following 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

421G Reading in the Middle Grades. 3 hours. Prerequisite: ELED 320. Principles and methodologies currently in use in the middle grades (5-8) emphasizing reading instruction in the content areas.

444G Reading in the Secondary School. 3 hours. Cross-listed with SEC 444G.

445G Introduction to Educational Technology. 3 hours. Cross-listed with LME 445G.

Reading Education (RDG)

519 Foundations of Reading Instruction. 3 hours. Analysis of the reading process with emphasis on the psychological and physiological foundations of the reading act.

520 Clinical Diagnosis of Reading Disabilities. 3 hours. The nature and causes of reading disabilities and investigation of general and specific principles and approaches to diagnosis. Actual case studies using both group and individual tests in diagnosis.

521 Correction of Reading Difficulties (Practicum). 3 hours. Instructional techniques for use with individuals or groups involved in remedial reading instruction; materials and procedures; clinical experiences with remedial students.

522 Investigations in Reading. 1, 2, or 3 hours. Maximum total credit allowed: 3 hours. Individual investigation of the research and descriptive literature in the field of reading.

523 Diagnostic Reading Procedures for Classroom Teachers. 3 hours. Emphasizes practical methods of reading appraisal, diagnostic procedures, and materials essential for developing teaching strategies in reading instruction.

524 Teaching Reading Skills in the Content Areas. 3 hours. Reading and study skills strategies and techniques to increase student achievement in content-area classes.

624 Seminar in Reading Problems. 3 hours. Covers research and descriptive literature related to specific reading problems.
Secondary Education (SEC)

528 Seminar In the Teaching of Secretarial Subjects. 3 hours. Materials, methods, techniques, and devices for teaching typewriting, shorthand, and the related skilled subjects. Review and application of research findings to this area.

529 Seminar in the Teaching of Bookkeeping and Basic Business. 3 hours. Purposes, materials, methods, and techniques for teaching bookkeeping and basic business. Review and application of research findings to this area.

530 Seminar in English Education. 3 hours. Prerequisite: Permission of instructor. Current methods and materials for middle grades and secondary English courses, research and professional trends. Cross-listed with MGE 530.

531 Seminar in Art Education. 3 hours. Prerequisite: Permission of instructor. Curricular trends in art education; methods and materials for teaching and supervising art in the public schools.

532 Seminar in Foreign Language Education. 3 hours. Prerequisite: Permission of instructor. Trends in foreign language education methods and materials for teaching a foreign language at the secondary and advanced levels of instruction.

533 Seminar in Industrial Arts Education. 3 hours. Prerequisite: Permission of instructor. Includes historical development, exploration of curricular trends and innovations, methods and materials of teaching, and current research and problems related to teaching industrial arts.

534 Seminar in Mathematics Education. 3 hours. Prerequisite: Permission of instructor. Covers newer concepts in curriculum and methods of instruction, current research and problems in mathematics education. Cross-listed with MGE 534.

535 Seminar in Music Education. 3 hours. Historical, philosophical and psychological foundations of music education; application of the principles of education to the music program. Emphasis on current trends in educational thought and their implications for instruction, supervision, administration, and evaluation in music education.

536 Seminar in the Teaching of Physical Education. 3 hours. Traditional and recent techniques, methods and knowledge in practical application of scientific principles to the teaching of physical education and the coaching of sports and games. Investigation in specific problems through lectures, discussion groups, demonstrations, and use of audiovisual aids.

537 Seminar in Science Education. 3 hours. Prerequisite: Permission of instructor. Includes the history and comparative study of science teaching, curriculum and course content changes, materials available, evaluation, methods in science teaching, professional organizations, and research in science education. Cross-listed with MGE 537.

538 Seminar in Social Studies Education. 3 hours. Prerequisite: Permission of instructor. Covers newer concepts in curriculum and methods of instruction as well as current research in social studies education. Cross-listed with MGE 538.

539 Seminar in Agriculture Education. 3 hours. Current problems in the organization, teaching supervision, administration, and evaluation of agricultural education programs. Investigation, papers, and reports.

540 Seminar in Home Economics Education. 3 hours. Prerequisite: CFS 572, or consent of instructor. Current trends in family life education with emphasis on individualized instruction, team teaching and audiovisual aids and their use in improved learning.

542 Seminar in Speech Education. 3 hours. Includes historical development, exploration of curricular trends and innovations and current research and problems.

544 Classroom Teaching Strategies. 3 hours. Cross-listed with ELED 544.

545 Investigations in Classroom Teaching. 1 to 3 hours. Opportunity for secondary teachers to engage in the concentrated study of specific problems and/or the development of specific skills related to effective classroom instruction.

570 Workshop - Secondary Education. 3 hours

580 The Curriculum. 3 hours. Philosophy, principles and practices of curriculum improvement.

598 Organization and Supervision of Student Teaching. 3 hours. Philosophy, theory and practices essential for an effective student teaching program. Covers state and NCATE standards for teacher education, personal and professional relationships and evaluation of student teachers.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

604 Management of the Learning Environment. 3 hours. This course is designed to enable secondary teachers to utilize Mastery Learning strategies and related teaching skills to increase student achievement and improve student attitudes toward learning.

699 Specialist Project. 6 hours.

700 Maintaining Matriculation. 1 to 6 hours.

The following 400-level SEC courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other assignments.

444G Reading Instruction in Junior and Senior High Schools. 3 hours. Principles psychology and methodologies for teaching both the general and specialized reading skills in the secondary grades.
84 Department of Teacher Education

445G Introduction to Educational Technology. 3 hours. Instruction and laboratory experiences in the basic theory and application of educational technology to the design, production, evaluation, and utilization of various media. Cross-listed with LME 445G.

470G Methods in Teaching Vocational Agriculture. 3 hours. Course organization, methods, farming programs, employment training, and Future Farmers of America activities.

484G Methods and Materials Teaching English as a Second Language. 3 hours. Prerequisites: ENG 469/469G, and one linguistics course. Develops skills, procedures, and strategies for teaching and utilizing commercial materials for the teaching of English as a second language. Cross-listed with ENG 470.
College of Science, Technology and Health

COLLEGE OF SCIENCE, TECHNOLOGY, AND HEALTH

Martin Houston, Dean

DEPARTMENTS

Agriculture
Allied Health and Human Services
Biology
Chemistry
Computer Science
Engineering Technology
Geography and Geology
Industrial Technology
Mathematics
Nursing
Physics and Astronomy
Public Health

DEGREES OFFERED

Master of Science (Agriculture, Biology, Chemistry, Computer Science, Geography, Health, Mathematics, Nursing)

JOINT DOCTORAL (With University of Louisville)

Doctor of Philosophy (Aquatic Biology, Fossil Fuel Chemistry)

Majors and Minors Offered Under the Master of Arts in Education

Agriculture
Biology
Chemistry
Geography
Health
Industrial Education
Mathematics
Mathematics-Science (major only)
Physics (minor only)
Science Area (major only)

Major Offered Under the Specialist in Education

Vocational Agriculture
DEPARTMENT OF AGRICULTURE

ENVIROMENTAL SCIENCE AND TECHNOLOGY BUILDING
ROOM 269 (502) 745-3151

Luther B. Hughes, Jr., Head

Graduate Faculty

Professors: D. Coffey, E. Gray L. Hughes, R. Johnson, G. Jones, R. Schneider, J. Worthington

Associate Professors: A. Bedel, L. Brown, J. Martin, J. Rudolph, D. Stiles

Degrees Offered: Master of Science in Agriculture, Master of Arts in Education (Agriculture major or minor), Specialist in Education (for secondary teachers in the area of vocational agriculture).

Master of Science in Agriculture

Applicants for this degree should have an undergraduate major or area of concentration in agriculture or a related science. Persons admitted with a non-agriculture undergraduate degree may be required to complete pertinent undergraduate courses in agriculture, at the discretion of the departmental graduate committee. Admission requirements are a minimum overall undergraduate grade point average of 2.75 or a Graduate Record Examination General Test score of 1200.

Master of Arts in Education (Agriculture major or minor)

This program provides graduate coursework in agriculture and meets certification requirements. The student majoring in agriculture shall take a minimum of 18 hours in the major area; the student minoring in agriculture shall take a minimum of 12 hours in agriculture and related areas as designated by the departmental advisor. The remaining hours, in both cases, will be taken in professional education.

Specialist in Education (See Department of Teacher Education)

Graduate Courses in Agriculture

521 Pasture Development and Management. 3 hours.
Prerequisites: Agro 421, AnSc 345 or equivalent.
Development of pastures, physiological principles related to forage production, pasture management, and preservation and use of conserved forages.

528 Agricultural Genetics. 3 hours.
Prerequisites: Biol 327 and Agri 491 or equivalent.
Application of genetic and statistical concepts to populations of domestic animals and plants.

533 Physiology of Lactation. 3 hours.
Prerequisite: Agri 344, 431, or Biol 330 or permission of instructor.
Anatomy of the mammary gland, hormonal control of mammmogenesis, initiation and maintenance of milk secretion, factors affecting level and composition of milk, synthesis of milk. Lecture, 2 hours; lab, 2 hours.

545 Ruminant Nutrition. 3 hours.
Prerequisite: AnSi 448, Biol 446, or equivalent, or permission of instructor.
Rumen development and function, products of fermentation, nutrient requirements, absorption and metabolism, symptoms of deficiency and toxicity.

546 Advanced Animal Breeding. 3 hours.
Prerequisites: AnSi 446 and Agri 528, or permission of instructor.
Application of population genetics to the economic improvement of farm animals, phenotypic and genetic relationships, role of selection in changing populations, formulation and application of breeding plans. Lecture, 2 hours; lab, 2 hours.

547 Advanced Animal Nutrition. 3 hours.
Prerequisite: AnSi 448, Biol 446 or equivalent, or permission of instructor.
The individual nutrient requirements of the monogastric animals, the structure, the metabolism and function of each nutrient class, interrelationship of the nutrient classes, deficiency and toxicity symptoms.

551 Advanced Soil Fertility. 3 hours.
Prerequisite: Agro 351 or permission of instructor.
Evaluation of soil fertility and fertilizers; soil-plant relationships; composition and properties of soil in relation to ion uptake, nutrition and growth of plants.

561 Agricultural Production Economics. 3 hours.
Production and cost functions, programming and decision-making principles and their application to agriculture.

583 Curriculum Development and Determining Content in Vocational Agriculture. 3 hours.
Principles of curriculum development, a local survey, and development of a course of study.

584 Program Development in Vocational Agriculture. 3 hours.
Inservice course for new and returning vo-ag teachers. Covers planning, conducting, and following through instructional programs for secondary, post-secondary, and/or adult students.

589 Special Problems in Agriculture Education. 1 to 3 hours.
Prerequisite or corequisite: Student teaching.
Supervised individual study in vocational agriculture education. May be repeated to a maximum of 6 hours.

590 Experimental Design and Data Analysis. 3 hours.
Prerequisite: Agri 491 or permission of instructor.
Statistical consideration in experimental design; covariance, multiple regression, factorial design, and incomplete block designs.

597 Special Problems In Agriculture. 1 to 3 hours. Prerequisite: Permission of instructor. Supervised individual study in agriculture. May be repeated to a maximum of 9 hours.

598 Seminar. 1 hour. Problems and research in agriculture. Required of all graduate students. May be repeated to a maximum of 3 hours.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1-6 hours.

675 Advanced Topics In Agriculture. 1 to 3 hours. Prerequisite: Permission of instructor. Problems and scientific developments of current interest. May be repeated to a maximum of 10 hours with different topics.

The following 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

402G Landscape Plants II. 3 hours. Prerequisite: Hort 301, or permission of instructor. Identification, recognition, and use of landscape plants. Emphasis on evergreens, annuals, perennials, and bulbs. Winter effect and flowering sequence of deciduous trees and shrubs.

403G Landscape Design and Construction. 3 hours. Prerequisite: Hort 402. Design of residential and commercial landscapes. Techniques and materials for construction of landscape features such as decks, patios and pools.

405G Nursery Management. 3 hours. Developing, planning, planting, and maintaining a modern plant nursery of container and field grown stocks of trees, shrubs, and ground covers.

409G Weed Science. 3 hours. Identification of prominent weed species; relationship of weeds to crop production problems; physical and chemical control measures. Lecture, 2 hours; lab, 2 hours.

412G Modern Fruit Production. 3 hours. Prerequisites: Agro 110. Selected problems in planting, management, production, and varieties of deciduous fruits and nuts.

413G Plant Propagation. 3 hours. Prerequisite: Agro 110. Fundamental principles and basic techniques of plant propagation.

414G Crop improvement. 3 hours. Prerequisites: Six hours of plant science and graduate standing. Identification, development, and utilization of genetic differences in the improvement of cultivated plants.

419G Vegetable Production. 3 hours. Prerequisites: Agro 110. Production and utilization of vegetable crops with emphasis on environmental factors influencing growth and handling of vegetables.

421G Forage Crops. 3 hours. Prerequisites: Ag 110, 350, and Biol 120. Distribution, improvement, establishment, production and storage of forage crops; soil-plant-animal complex as relates to the morphology, physiology and utilization of forage.

422G Field Crops. 3 hours. Prerequisites: Agro 110, 350, and Biol 120, or permission of instructor. Distribution, improvement, morphology, culture, harvesting, and utilization of field crops.

443G Physiology of Reproduction In Domestic Animals. 3 hours. Prerequisite: AnSc 140, and Bio 120. Physiology and endocrinology of reproductive systems; anatomical, physiological, and biochemical basis of reproduction; artificial breeding, synchronized estrus and related topics.

446G Animal Breeding. 3 hours. Prerequisites: AnSc 140, and Biol 120. Application of genetic and statistical principles to breeding and improvement of farm animals; the role of selection in changing populations.

448G Principles of Animal Nutrition. 3 hours. Prerequisite: AnSc 345. Principles of nutrition basic to animal feeding, chemical and physiological aspects of nutrition, techniques in nutrition research.

449G Laboratory Methods and Techniques in Animal Nutrition. 3 hours. Prerequisites: AnSc 448, Chem 107 or 222. Laboratory methods for determining major minerals and vitamins in feeds, proximate analysis of feeds, products of fermentation, feed residues and contamination. Lecture, 1 hour; lab, 4 hours.

450G Soil Chemistry. 3 hours. Prerequisite: Agro 350. Analytical techniques in soil chemistry and soil fertility studies and nutrient determination; colloidal systems; chemical properties related to plant nutrition.

451G Soil Management. 3 hours. Prerequisites: Agro 350, Agro 351, AgEc 361, or permission of instructor. Evaluation of characteristics which determine the productive potential of soils and use of this knowledge and the prevailing climate to maximize production or net income.

452G Soil Microbiology. 3 hours. Prerequisites: Agro 350 and Biol 207, 208. Soil microbial populations and systems and their influence on plant nutrition. Soil organic matter, its decomposition and associated microorganisms; oxidation-reduction process; nitrogen fixation.
Department of Allied Health and Human Services

453G Agricultural Finance. 3 hours. 
Prerequisite: AgEe 350. 
Soil formation, classification and mapping. Methods of soil survey; classification schemes; profile description, mapping and interpretation information, with emphasis on Kentucky soils.

454G Land-Use Conservation. 3 hours. 
Prerequisite: AgEe 361, or permission of instructor. 
Economic utilization of land for agricultural recreation and public purposes; interpretation and application of soil conservation; public and industrial use; practice in designing land-use maps.

453G Agricultural Policy. 3 hours. 
Prerequisite: AgEe 360. 
The place of agriculture in the national economy; objectives of agricultural policy; appraisal and proposed agricultural programs; legislation for economics action.

461G World Food Development. 3 hours. 
Prerequisite: Upper division or graduate standing, minimum of 18 hours in agriculture and related areas, including at least 12 hours of plant and animal production, soils, crop protection, crop improvement, economics, or ecology; or permission of instructor. 
Effect of diminishing resources, environmental pollution, and short-term economics on the sustainability of productive agriculture. Emphasis on managing crops, livestock, and other farm resources in providing an ecological-economical balance in agricultural production.

Secondary Education Course

470G Methods in Teaching Vocational Agriculture. 3 hours. 
See course description in SecEd section of this catalog.

DEPARTMENT OF ALLIED HEALTH AND HUMAN SERVICES

ACADEMIC COMPLEX
OFFICE 207502-745-2427

Ruby F. Meador, Head

Although the Department of Allied Health and Human Services does not offer any graduate degree programs, the following 400 level course may be taken for graduate credit. Students receiving graduate credit in this 400G course will be required to do additional research, readings, or other appropriate assignments.

436G Services to Children. 3 hours. 
A survey of institutional and community services with focus on principles of social services for children and their families.

DEPARTMENT OF BIOLOGY

THOMPSON COMPLEX-NORTH WING
ROOM 201 (502) 745-3696

Valgene L. Dunham, Head

Graduate Faculty

Professors: G. Dillard, V. Dunham, L. Elliott, B. Ferrell, M. Houston, R. Hoyt, R. Prins, J. Winstead

Associate Professors: K. Balak, C. Rinehart
Assistant Professors: C. Davis, J. Kent, D. McElroy, Z. Murrell, H. Owen

Degrees Offered: Master of Science in Biology, Master of Arts in Education (Biology major or minor), Doctor of Philosophy (in cooperation with the University of Louisville) in Aquatic Biology.

Admission requires the equivalent of an undergraduate major in biology including supportive courses in science and mathematics. Exceptions are made for students with undergraduate degrees in other areas, however additional courses may be required.

A cooperative graduate program leading to a Doctor of Philosophy degree with specialization in Aquatic Biology is administered by the Departments of Biology of Western Kentucky University and the University of Louisville.

Master of Science in Biology

Due to increased emphasis on research in the biological sciences brought about by numerous advances in biotechnology, an increasing number of students are continuing studies at the graduate level. The MS degree is offered for students seeking research experience in two major areas: Organismal/Ecology and Cell/Molecular Biology.

Courses presently offered in each area are as follows:

Organismal/Ecology:

BIOL 401G Biology of the Algae, 408G Invertebrate Zoology; 456G Ichthyology, 458G Fishery Biology, 460G Parasitology, 470G Pathogenic Microbiology, 472G Applied and Environmental Microbiology, 485G Field Biology, 515 Ecological Concepts, 530 Animal Behavior, and 591 Aquatic Biology

Cell/Molecular Biology:


The degree requires a thesis based upon original research conducted under the direction of a departmental graduate faculty member. Anon-thesis degree option may be selected with the advice of the graduate student's committee. The research tool requirement may be satisfied by enrollment in a graduate level methodology course in agreement with the student's graduate advisor. Biology 502 Biological Instrumentation and Techniques is required of all new graduate students.

Master of Arts in Education
(Biology major or minor)

This program is designed for the preparation and strengthening of secondary school science teachers. The major requires a minimum of 18 hours of coursework in Biology, and the minor requires a minimum of 12 hours in Biology. In both cases, the remainder of the required 30 hours is taken in professional education.

Students who desire a breadth of coursework in the sciences may major in the Science Area of Concentration under the MA in Education program. Students following this option must have all Biology courses approved by the appropriate advisor in the Department of Biology.

Graduate Courses in Biology

501 Biological Perspectives. 4 hours.
Designed to acquaint graduate students with advances in the biological sciences and practical applications of biological principles. Lecture and lab. (On demand)

502 Biological Instrumentation and Techniques. 3 hours.
Theory and application of modern, currently used instrumentation and techniques. Lecture Two hours, laboratory two hours. (Fall)

503 Contemporary Research in Biology. 1 hour.
Prerequisite: Admission to biology graduate program. Participants will present a research article on a topic of their choice to the class. A critical appraisal of the research approach, methods, results and interpretation of results will be stressed. Requires participation in critical discussions of all presentations. The course may be taken as often as wished but only once for credit toward a degree program. (Spring and fall)

515 Ecological Concepts. 4 hours.
Essential dynamic features of plant and animal populations. Covers the theoretical and empirical aspects of single populations, or pairs of interacting populations, and of whole communities. Lecture, three hours; laboratory, four hours. (Spring, even years)

516 Investigations in Biology. 1 to 3 hours.
Prerequisite: Permission of research project director. Research project completed under faculty supervision. Not applicable for MS thesis option. (On demand)

530 Animal Behavior. 4 hours.
Comparative approach to the current understanding of physiological mechanisms involved at the organismal level in transducing environmental input into adaptive behavioral output. Lecture, three hours; laboratory, two hours. (Spring, odd years)

540 Developmental Genetics. 3 hours.
Lecture course introducing current research applying genetic and molecular approaches to problems in Cell and Develop-
Department of Biology

mental Biology. Recent review and research articles will be assigned for lecture and discussion. Lecture. (Fall, even years)

560 Advanced Topics in Cell Biology. 3 hours.  
Prerequisite: Biol 411 or equivalent  
Lecture-discussion course designed to understand structure and function of differentiated cells of multicellular organisms. Textbook readings, review articles and current research papers will be incorporated into lectures and discussions. Lecture. (Spring, odd years)

562 Advanced Topics in Biochemistry. 4 hours.  
Survey of metabolic processes relevant to biochemistry and the biological sciences. Topics include bioenergetics, nucleic acid metabolism, protein synthesis and metabolic regulation. Lecture, three hours; laboratory, two hours. (Fall, odd years)

563 Enzymology. 3 hours.  
See Biochemistry.

564 Enzymology Laboratory. 1 hour.  
See Biochemistry.

569 Professional Work/Career Experience in Biology. 3 hours.  
Practical experience in a supervised work situation with a cooperative business, industry, or governmental agency, emphasizing application of advanced knowledge and skills in specified areas of biology. (Spring, summer and fall)

570 Comparative Immunology. 3 hours.  
Prerequisite: Coursework in cell biology and biochemistry. Phylogenetic comparison of the cellular, biochemical, and molecular, mechanisms of the internal defense systems of multicellular organisms. Lecture will be based on the reading, presentation, and discussion of current scientific literature. Lecture. (Fall, odd years)

588 Nucleic Acids. 3 hours.  
Structure and function of DNA and RNA and the mechanisms for replication, transcription and translation. Lecture. (Spring, even years)

589 Internship in Biology. 3 hours.  
Practical experience in a supervised work situation with a cooperative business, industry, or governmental agency, emphasizing application of advanced knowledge and skills in specified areas of biology.

591 Aquatic Biology. 4 hours.  
Physical, chemical, and biological aspects of bodies of freshwater, with emphasis on water as a biological environment. Lecture and lab. (Summer, even years)

598 Graduate Seminar. 1 hour.  
Special topics in biology. (Spring and fall)

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

601 Internship in College Instruction. 1 hour.  
Designed for prospective teachers of biology. Staff direction in preparing and giving lectures. Includes analyses of presentation and techniques. May be repeated.

675 Advanced Topics in Biology. 1 to 3 hours.  
Selected topics in Biology. (On Demand)

799 Doctoral Research. 1 to 6 hours.

800 Maintaining Matriculation. 1 to 6 hours.

The following 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

400G Plant Physiology. 3 hours.  
Prerequisites: Biol 120, 121, and two semesters of chemistry.  
The functioning of plant systems. Lecture, two hours; laboratory, two hours. (Spring, odd years)

401G Biology of the Algae. 3 hours.  
Prerequisites: Biol 222, 223.  
Structure, development, systematic and phylogenetic relationships of the algae with emphasis on the freshwater groups. Lecture, three hours; laboratory, two hours. (Fall, even years)

404G Techniques and Theory of Electron Microscopy. 4 hours.  
Prerequisites: Biol 222-223, 224-225 or permission of instructor.  
A course in the fundamentals of electron microscopy including basic theory, techniques for specimen preparation and photography, and operation of the electron microscope. Lecture, two hours; laboratory, four hours. (Fall)

407G Virology. 3 hours.  
Prerequisites: Biol 220.  
A study of bacterial, animal and plant viruses with special emphasis on the chemistry and replication of bacterial viruses. Lecture. (Spring, odd years)

408G Invertebrate Zoology. 4 hours.  
Prerequisites: Biol 224, 225.  
Phyla of invertebrate animals, including their taxonomy, morphology, physiology, development, and evolution. Lecture, two hours; laboratory, four hours. (Spring)

411G Cell Biology. 3 hours.  
Prerequisites: Junior or Senior status  
Morphological and chemical makeup of cells, physical and chemical properties of the cell and modern techniques for investigation of cellular functions. Lecture. (Spring)

412G Cell Biology Laboratory. 1 hour.  
Pre/corequisite: Biol 411G.  
Laboratory correlated with Biol 411G. Laboratory, two hours. (Spring)

430G Evolution: Theory and Process. 3 hours.  
Prerequisite: Biol 327 or permission of instructor.  
Study of the development of the evolutionary theory and the processes of evolution including natural selection, population genetics, molecular phylogenies and modes of speciation. Lecture. (Spring, odd years; summer, or on demand)
446G Biochemistry. 3 hours.
See Biochemistry.

447G Biochemistry Laboratory. 2 hours.
See Biochemistry.

450G Recombinant Gene Technology. 3 hours.
Prerequisite: Biol 446G.
Laboratory oriented course that emphasizes the basic techniques used in cloning and sequencing DNA and in the study of gene expression. Laboratory, six hours. (Spring)

456G Ichthyology. 4 hours.
Prerequisites: Biol 224, 225, and permission of instructor.
Fishes of the world, their physiology, structure, behavior, and ecology. Emphasis on the collection and identification of freshwater species of Kentucky. Lecture, two hours; laboratory, four hours. (Spring, odd years)

458G Fishery Biology. 3 hours.
Prerequisites: Biol 224, 225 and permission of instructor.
Biological aspects of populations of freshwater fish. Emphasizes reproduction and development, food and feeding habits, population effects, etc. Lecture, two hours; laboratory, two hours. (Spring, even years)

460G Parasitology. 4 hours.
Prerequisites: Biol 224, 225
The morphology, physiology, life histories, control and economic significance of representative species. Lecture, two hours; laboratory, four hours. (Fall, even years)

464G Endocrinology. 3 hours.
Prerequisites: Biol 220; Biol 446-447 strongly recommended.
A study of the structure and function of the endocrine glands and their role in physiological communication and regulation. Lecture. (Fall, odd years)

467G Biochemistry II. 3 hours.
See Biochemistry.

470G Pathogenic Microbiology. 4 hours.
Prerequisites: Biol 309, 310, or permission of instructor.
Organisms causing disease with emphasis on bacteria. Includes pathogenic bacteria, viruses, rickettsiae, fungi and protozoa. Lecture, two hours; laboratory, four hours. (Fall)

472G Applied and Environmental Microbiology. 4 hours.
Prerequisites: Biol 309, 310, or consent of instructor.
The roles of microorganisms in food preservation, fermentation, spoilage, and food intoxication. Production of microbial products of industrial interest; application of modern microbiological techniques to industrial processes; interrelationships between micro-organisms and their environment. Lecture, three hours; laboratory, two hours. (Spring, odd years)

475G Selected topics in Biology. 1 to 3 hours.
Significant problems and developments of current interest in biology. (Spring, summer and fall)

483G Multivariate Methods in Biology. 4 hours.
Prerequisites: Junior standing and a course in statistics, or permission of instructor.

Application of multivariate statistical analysis techniques to problems in the biological sciences. Principal component and factor analysis, canonical discriminant analysis, correspondence analysis, distance metrics and clustering, canonical correlation, repetitive sampling, randomization. Not a course in mathematical statistics; rather, emphasis is on experimental design, selection of appropriate methods for testing particular hypotheses, and the analysis of real data. Lecture, three hours; laboratory, two hours, (Fall, even years; summer on demand)

485G Field Biology. 3 hours.
Two-week field experience on a specific biological topic, preceded and followed by introductory and evaluative sessions. (Summer)

495G Molecular Genetics. 3 hours.
Prerequisite 450G.
Molecular basics of genetics and heredity of prokaryotic and eukaryotic organisms. Lecture. (Fall)

DEPARTMENT OF CHEMISTRY

THOMPSON COMPLEX-CENTRAL WING
ROOM 444 (502) 745-3457

D. W. Slocum, Head

Graduate Faculty


Associate Professors: D. Dahl, R. Holman, W. Pan

Degrees Offered: Master of Science in Chemistry, Master of Arts in Education (Chemistry major or minor), Doctor of Philosophy in Chemistry (in cooperation with the University of Louisville).

Master of Science in Chemistry

Candidates for admission to this program must submit evidence of satisfactory completion of undergraduate curricula in chemistry. Graduates of American colleges and universities are urged to submit, at the time of application, test scores from the Graduate Record Examination General Test. Students admitted without these scores must take the test during their first semester on campus. Graduates of foreign colleges and universities are required to submit test scores from Graduate Record Exam (General Test), and the Test of English as a Foreign Language (TOEFL) as a part of their applications for admission to graduate studies in chemistry.
The Master of Science degree program in Chemistry has been designed around a core curriculum. In addition, a number of elective courses are offered in analytical, inorganic, and physical chemistry and in biochemistry. This program also offers an option in Coal Chemistry.

Entrance Examinations. Incoming graduate students are given a set of examinations in analytical, organic, inorganic, and physical chemistry. The results of these standard American Chemical Society examinations do not affect the graduate standing of a student who has already been admitted to the program. A student who is significantly underprepared in a particular area of chemistry will, however, be asked to complete an appropriate undergraduate course (for no graduate credit) prior to enrolling for graduate course work in that area.

Curriculum Requirements. All candidates are required to complete a minimum of 30 semester-hours of graduate work, including 24 semester hours of coursework and six hours of thesis research. Two hours of graduate seminar (Chem 598) are required of all MS candidates and are included in the 24 semester-hour course work requirements. At least two of the core courses must be at the 500 level. The core courses required of all M.S. degree candidates include:

- Chem 435G or Chem 531
- Chem 420G or Chem 520
- Chem 475G or Chem 541
- Chem 452G or Chem 550

Curriculum Option: Students who have completed 3 core courses at the 500 level with a B average may elect to take Chem 580 as part of the 24 semester-hour course work requirement.

Coal Chemistry Option. Students electing this option will be expected to complete the following courses in addition to the core courses noted above: Chem 590 and Chem 591.

Biochemistry Option. Students electing this option will be expected to complete the following courses in addition to the core courses listed above:

- Chem 446G
- Chem 447G
- Chem 467G

Part or all of the six-hour thesis research requirements (Chem 599) may be replaced by a cooperative research project (Chem 596) conducted at a cooperating industrial or governmental laboratory.

Other Degree Requirements. The department requires of all degree candidates the completion of a substantial graduate research project (Chem 599 or 596) and the submission of an acceptable thesis. In addition Graduate Studies requires demonstrated competence in using a research tool.

Electives. Additional coursework hours may be selected from among the core courses or appropriate courses in all areas of chemistry offered by the department.

Master of Arts in Education (Chemistry major or minor)

This program is designed especially for the preparation and strengthening of secondary school science teachers.

For a subject-matter major in chemistry, the MA in Education student must complete a minimum of 12 hours of coursework in chemistry. The remaining six hours of the 18-hour major may be taken in chemistry or in a related subject-matter area. The student pursuing a major in an allied subject-matter area may qualify for a minor in chemistry with the completion of a minimum of eight hours of coursework in chemistry. Students who have not previously completed a year of physical chemistry are strongly urged to take Chemistry 450G and 452G.

Students desiring a breadth of coursework in the sciences may major in the Science Area of Concentration. The chemistry courses taken under this option must be approved by the advisor in the science area and by the advisor in secondary education.

Doctor of Philosophy

A cooperative graduate program leading to the Ph.D. with specialization in fossil fuel chemistry is administered by the Departments of Chemistry of Western Kentucky University and the University of Louisville.

Graduate Courses in Chemistry

500 Fundamentals of Chemistry. 3 hours.
Prerequisite: Undergraduate minor in chemistry.
Fundamental principles, theories, and laws of chemistry. (Not applicable to the MS degree)

502 Fundamentals of Modern Chemical Analysis. 3 hours.
Prerequisite: Undergraduate minor in chemistry.
Modern methods of chemical analysis including an introduction to instrumental analysis. (Not applicable to the MS degree)

503 Fundamentals of Modern Chemical Analysis Laboratory. 1 hour.
Corequisite: Chem 502.
Includes experiments using the instruments and techniques discussed in the lecture.

516 Investigations in Chemistry. 1 to 3 hours.
Review of chemical literature on topics of individual interest. Includes reports and proposals for further research.
520 Advanced Inorganic Chemistry I. 3 hours.
Prerequisites: Chem 420, 452, or equivalent.
Various aspects of coordination chemistry.

521 Advanced Inorganic Chemistry II. 3 hours.
Prerequisite: Chem 520, or permission of instructor.
Current theories of inorganic reaction mechanisms.

53 Advanced Analytical Chemistry. 3 hours.
Prerequisite: Chem 435, or permission of instructor.
Survey of selected topics in modern instrumental methods of
chemical analysis. Includes instrumental techniques not covered
in Chem 435.

540 Organic Reactions. 3 hours.
Prerequisite: Permission of instructor.
Modern synthetic methods used in organic chemistry.

541 Advanced Organic Chemistry II. 3 hours.
Prerequisites: Org Chem 342, and Phys Chem 452.
Modern physical-organic chemistry including bonding, stereochemistry, reaction mechanisms, concerted reactions, photo-chemistry, and free-radical reactions.

550 Advanced Physical Chemistry I. 3 hours.
Prerequisite: Chem 452, Math 227, or equivalents.
Covers thermodynamics, kinetics and molecular structure
in preparation for graduate study or research.

551 Advanced Physical Chemistry II. 3 hours.
Prerequisite: Chem 550 or equivalent.
Continuation of basic physical chemistry concepts. Further study in the areas of thermodynamics, kinetics, and molecular structure at the graduate research level.

562 Advanced Topics in Biochemistry. 4 hours.
See Biochemistry.

569 Internship in Chemistry I. 3 hours.
Practical experience in a supervised work situation with a cooperating business, industry, or governmental agency. Emphasizes application of knowledge and skills in chemistry.

570 Lecture Demonstration Techniques. 3 hours.
Prerequisite: Chem 452, or permission of instructor.
The design and operation of meaningful lecture demonstrations in chemistry. (Not applicable to the MS degree)

580 Chemical Skills. 3 hours.
Skills in the use of the library, glass working, and the laboratory.

581 Spectroscopy. 3 hours.
Prerequisites: Chem 342, and 452 or 550.
Application of nuclear magnetic resonance, ultraviolet, infrared and mass spectrometry to solving chemical structures.

589 Internship in Chemistry II. 3 hours.
Practical experience in a supervised work situation with a cooperating business, industry, or governmental agency. Emphasizes application of knowledge and skills in chemistry.

590 Coal Chemistry. 3 hours.
Prerequisites: Chem 342, 452, or equivalent.
Extensive survey of coal science topics including the geological and chemical aspects of coal formation, as well as coal resources, handling, conversion, and utilization. The organic chemistry and reactivity of coal in combustion and conversion processes will be emphasized.

591 Coal Chemistry Laboratory. 3 hours.
Prerequisite: Chem 330, or equivalent.
Analytical chemistry of coal including coal sample preparation, characterization, and analysis will be studied. Analyses as specified by the American Society for Testing and Materials (ASTM) will be emphasized. Recent developments in methods and instrumentation used in coal analysis will be studied.

596 Cooperative Research I. 11 hours.
Prerequisite: Student must have completed one academic
year of coursework in Chemistry. Research at a cooperating laboratory leading to a thesis in chemistry.

597 Cooperative Research II. 11 hours.
Prerequisite: Student must have completed one academic year of the coursework in Chemistry. Research at a cooperating laboratory leading to a thesis in coal chemistry.

598 Graduate Seminar. 1/2 hour.
Required each semester for all MS-Chem students. Attendance is required of all full-time graduate students.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

799 Doctoral Research in Chemistry. 1 to 6 hours.

800 Maintaining Matriculation. 1 to 6 hours.

The following 400-level courses may be taken for graduate credit. Courses taken for graduate credit require additional course work in the form of problem sets, term papers and/or oral presentations.

412G Introduction to Physical Chemistry. 5 hours.
Prerequisites: Chem 330, Math 118.
Chemical principles involved in thermodynamics, kinetics, molecular structure, and other topics using biological examples. Specifically for secondary education students and those students not qualifying for the Chem 450-452 sequence. Lecture, 3 hours; lab, 2 hours. Lab meets 4 1/2 hours per week (Fall). (Not applicable to MS degree).

420G Inorganic Chemistry. 3 hours.
Prerequisites or corequisites: Chem 352-353.
Atomic and molecular structure, bonding theory, ionic substances, electron deficient compounds, acid-base theory and coordination chemistry.

430G Forensic Chemistry. 3 hours.
Methods and instrumentation used in the crime laboratory and in the medical technology laboratory. Topics include drugs, blood enzymes, organic and inorganic analysis, etc.

432G Modern Methods of Chemical Analysis. 3 hours.
Methods and instrumentation used in modern chemical analysis, with emphasis on application rather than theory. (Not applicable to the MS degree)
BIOCHEMISTRY

THOMPSON COMPLEX
CENTRAL WING
(502) 745-3457

Graduate Faculty

Professors: V. Dunham, D. Hartman, M. Houston

Biochemistry is the study of the most intricate of all chemical systems, living matter, and attempts to determine the chemical nature and chemical reactions in protoplasm—the basic material of living matter. Training in biochemistry provides many opportunities in teaching, research, and public service and provides excellent preparation for many other areas of basic and applied sciences.

Biochemistry courses are administered jointly by the departments of biology and chemistry. The student should enroll either in the department of biology or the department of chemistry, depending upon the major emphasis. Enrollment requires the completion of proper prerequisites in biology and chemistry.

For further information, contact Dr. Toman in the Department of Biology, or Dr. Hartman in the Department of Chemistry.

Graduate Courses in Biochemistry

562 Advanced Topics in Biochemistry. 4 hours.
Survey of metabolic processes relevant to biochemistry and the biological sciences. Topics include bioenergetics, nucleic acid metabolism, protein synthesis and metabolic regulation. Lecture and lab. (Alternate fall semesters)

563 Enzymology. 3 hours.
Prerequisites: Biochem 446, and 447. Includes kinetics and mechanisms for reactions of biological significance. Lecture. (On demand)

564 Enzymology Laboratory. 1 hour.
Corequisite or prerequisite: Biochem 563. The techniques of enzyme isolation and purification coupled with kinetic studies. Three hours per week. (On demand)

The following 400-level courses may be taken for graduate credit. Courses taken for graduate credit require additional course work in the form of problem sets, term papers and/or oral presentations.

411G Cell Biology. 3 hours.
See Department of Biology.

412G Cell Biology Laboratory. 1 hour.
See Department of Biology.
446G Biochemistry. 3 hours.
Prerequisite: Chem 314, or 340.
Biochemical compounds and their role in metabolism. Lecture. (fall, spring)

447G Biochemistry Laboratory. 2 hours.
Corequisite or prerequisite: Biochem 446.
Selected experiments which illustrate biochemical principles.
Six hours per week. (spring)

462G Bioinorganic Chemistry. 3 hours.
Prerequisite: Chem 314, or 340.
The coordinating properties and reactivity of metal ions on living organisms. Lecture. (on demand)

467G Biochemistry II. 3 hours.
Prerequisite: Biochem 446.
The reactions of living systems and an introduction to the mechanisms and energetic of metabolism. Lecture (spring)

DEPARTMENT OF
COMPUTER SCIENCE

THOMPSON COMPLEX-CENTRAL WING
ROOM 137-A (502) 745-4642, FAX (502) 745-6449

Professor Art Shindhelm, Interim Head
(502) 745-6247,

Graduate Faculty

Professors: G. Baur, R. Crawford, J. Crenshaw,
D. Pigford, A. Shindhelm

Assistant Professors: A. Kooshesh, S. Pulliam,
U. Ziegler

Degree Offered: Master of Science in Computer Science

This program is designed to provide post-graduate education for individuals seeking professional careers in computer science. Areas of emphasis are information systems, systems programming, and algorithms.

Admission requirements include a minimum 2.9/4.0 undergraduate grade point average and a minimum score of 1300 on the GRE General Test. In addition applicants must have completed approximately two years of undergraduate study in computer science and mathematics. Minimal requirements include a knowledge of programming in a higher level language; assembly language; computer organization; discrete structures. Also required are at least 8 hours of calculus. A knowledge of probability and statistics is highly recommended. These entrance requirements may be satisfied by courses taken as an undergraduate, substantial practical experience in the computer field, or deficiency coursework taken while a graduate student.

A minimum of 30 semester hours of coursework is required. Both thesis and non-thesis options are available. The research tool, under both options, may be met by successful completion of CS 476G Research Methods and Projects. No credit earned in meeting the research tool requirement will apply toward hours required for the degree.

Specific degree requirements are as follows:

A. CS 442G Data Structures
CS 443G Data Base Management Systems
CS 445G Operating Systems II
CS 541 Mathematical Foundations of Computer Science
CS 543 Computer Information Systems Design
CS 544 Compiler Theory and Design

B. Two elective computer science courses and two elective courses from computer science or a cognate area approved by the graduate advisor.

C. A minimum of five 500-level computer science courses.

If any of the required courses have been completed for undergraduate credit, electives will be substituted.

Graduate Courses in Computer Science

541 Mathematical Foundations of Computer Science. 3 hours.
Topics of fundamental importance to computer science, including languages, finite automata, grammars, and Turing machines. (fall)

543 Computer Information Systems Design. 3 hours.
Prerequisite: CS 443.
Systems organization, design, and implementation. Physical and logical file organization methods and access techniques. Alternatives in system design and implementation. Group projects include design and implementation of a data base system. (spring)

544 Compiler Theory and Design. 3 hours.
Prerequisite: CS 444.
Formal properties of programming languages and the techniques used to construct compilers for these languages. Topics include parsing techniques, symbol table construction, code generation, etc. Class will complete a programming project. (spring)

545 Advanced Operating Systems Principles. 3 hours.
Prerequisite: CS 445.
Theoretical and practical material on operating systems. Examines system optimization, resource protection, multiprocess­ing, performance evaluation, and existing operating systems. The student develops a small operating system. (spring)
Department of Computer Science

549 Analysis of Algorithms. 3 hours.
Prerequisite: CS 338. Methods (algorithms) for solving a variety of problems on computers and the relative efficiency of these algorithms. (fall)

557 Micro-computer Operating Systems. 3 hours. Prerequisite: CS 425 System-level study of the most popular micro-computer operating systems including memory and disk space management; interrupts; and system services. System utility programs will be developed. (fall)

595 Advanced Topics in Computer Science. 1 to 3 hours.
Prerequisite: 9 hours of CS and permission of instructor. Significant problems and current developments in computer science. May be repeated with a different topic for a maximum of 6 hours. (fall, spring)

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

The following 400-level CS courses maybe taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

405G Numerical Analysis I. 3 hours.
Prerequisites: Math 327, CS 245 Fortran
Cross-listed with Math 405G. (fall)

406G Numerical Analysis II. 3 hours.
Prerequisites: CS 405, Math 331. Cross listed with Math 406G. (spring)

442G Data Structures. 3 hours.
Prerequisite: CS 338.
Arrays, lists, trees, storage and file structures, sorting and searching techniques, dynamic storage allocation and garbage collection algorithms, structures, pointers, bit and character strings, list processing, recursive programming for tree processing. (fall, spring)

443G Data Base Management Systems. 3 hours.
Prerequisites: CS 338, 360
Design and implementation of data base management systems; data organization and management; survey of several systems; assigned projects will require use of several established systems. (fall, spring)

444G Programming Languages. 3 hours.
Prerequisite: CS 242, and permission of instructor. Survey of procedure-oriented and special-purpose languages. Emphasis on the syntactic and semantic structures present in these languages. (fall, spring)

445G Operating Systems II. 3 hours.
Prerequisite: CS 425.
Examination of how an operating system sits on a computer architecture. Student will use the privileged instruction set of a specific architecture to write their own simple operating systems or operating system modules. Also, theory of bootstrap loading, memory protection and management, etc. (spring)

446G Interactive Computer Graphics. 3 hours.
Prerequisites: CS 338, MA 307
Elementary topics in interactive computer graphics. Includes both input and display devices and techniques for 2-D and 3-D transformations, as well as difficulties encountered in these areas. Computing assignments will emphasize interaction, data structures, and applications to various disciplines. (fall)

447G System Simulation. 3 hours.
Prerequisites: CS 241, Math 203.
Computer simulation of theoretical systems and realtime processes. Includes abstract properties of simulations; basic algorithms for lists, list structures, and stochastic processes; general purpose simulation languages. Term project simulation program required. (spring - even numbered years)

450G Telecommunications. 3 hours.
Prerequisite: CS 425
Fundamentals of telecommunications, modulation and multiplexing techniques, communications media, transmission and switching systems, error detection and correction procedures, etc. (spring)

456G Artificial Intelligence. 3 hours.
Prerequisites: CS 338, 360.
Problems having no plausible algorithmic solution, their computer representations and solutions which usually involve heuristics. (fall)

458G Expert Systems. 3 hours.
Prerequisite: CS 456, or equivalent.
Expert systems with respect to uses, areas of appropriateness, and component parts. Student will design and implement an expert system. (spring)

460G Software Engineering II. 3 hours.
Prerequisite: CS 360 or equivalent.
Examination of critical theoretical problems underlying software engineering, including the rigorous treatment of software metrics, cost-estimating, object-oriented design, real time systems, etc. (on demand)

475G Selected Topics in Computer Science. 1 to 3 hours.
Prerequisite: Permission of instructor.
Significant problems and developments in computer science. May be repeated for 6 hours. (on demand)

476G Research Methods and Projects in Computer Science. 3 hours.
Prerequisite: CS 360.
Analysis and design of computer based systems. Design techniques are applied in one or more large-scale programs requiring attention to documentation, communications, and interfacing of modules in a team project. May be repeated for 6 hours. (spring)

For more information, please refer to the Course Catalog of the Department of Computer Science.
DEPARTMENT OF ENGINEERING TECHNOLOGY

ENVIRONMENTAL SCIENCE AND TECHNOLOGY BUILDING
ROOM 200 (502) 745-2461

John P. Russell, Head

Graduate Faculty

Professor: J. Russell

Assistant Professor: D. George

Although the Department of Engineering Technology does not offer any graduate degree programs, the following 400 level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

410G Water Treatment Processes. 3 hours.
   Prerequisite: Env. 280
   Corequisite: Env. 415/415G.
   Design and operational characteristics of unit processes in water and waste-water treatment; fundamentals of water chemistry pertaining to chemical, biological, and physical treatment.

415G Water Quality Laboratory. 1 hour.
   Corequisite: Env. 410.
   Determination of water quality characteristics, pertinent to water and waste-water treatment.

460G Environmental Impact Assessment. 3 hours.
   Prerequisite: Permission of instructor
   Designed to provide the student with the necessary information in the preparation of assessments of environmental impacts as outlined by the National Environmental Policy Act (NEPA). Available resource information will be provided.

DEPARTMENT OF GEOGRAPHY AND GEOLOGY

ENVIRONMENTAL SCIENCE AND TECHNOLOGY BUILDING
ROOM 305 (502) 745-4555

Wayne L. Hoffman, Head

Graduate Faculty


Associate Professors: S. Foster, D. Kuehn

Assistant Professor: C. Groves, D. Keeling, E. McClellan

Degrees Offered: Master of Science in Geography, Master of Arts in Education (Geography major or minor).

The graduate programs in geography provide a solid background for students who plan to continue advanced studies toward the Ph. D. degree, to pursue careers in college teaching or teaching in middle and high schools, or to enter the private sector. Graduates are prepared for a variety of other employment areas such as rangers or naturalists in national and state parks, cartographers, air photo interpreters, city and regional planning, hydrologists, environmental consultants, and similar consulting positions in business and industry.

Master of Science in Geography

Applicants for the Master of Science in Geography must have a grade point average of 2.80 overall or above on the last sixty semester hours of undergraduate work, or a minimum score of 1200 (verbal, quantitative, and analytical combined) on the General Test of the Graduate Record Examination.

Both Plan A (thesis) and Plan B (non-thesis) are available. Plan A requires a minimum of 30 semester hours of graduate credit, including Geog 500,502,504, and 491 G or 590. With approval from the advisory committee, a student may take a maximum of six hours outside the discipline. The thesis must be based upon original research directed by the advisor. Plan B requires 33 semester hours of graduate credit individually planned, with 18 hours in courses open only to graduate students.

The research tool, under both plans, must be met by demonstrating either (1) reading proficiency in a foreign language appropriate for the major area or (2) competency in an appropriate research technique.
Individual student programs may be designed to emphasize mapping, remote sensing, hydrology and geomorphology, meteorology, and climatology, resource management, city and regional planning, and regional geography.

Master of Arts in Education (Geography major or minor)

Students following this program must meet all requirements for high school professional certification. The major requires a minimum of 18 hours (see advisor for course selection). The minor requires a minimum of 12 hours. The remaining hours (within the required 30) are taken in professional education.

Graduate Courses in Geography

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>500</td>
<td>Introduction to Geographic Research</td>
<td>3 hours</td>
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<td>501</td>
<td>Geography, Science, Civilization</td>
<td>3 hours</td>
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<td>502</td>
<td>Geographic Techniques for Field Investigations</td>
<td>3 hours</td>
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<td>504</td>
<td>Historical and Philosophical Bases of Geography</td>
<td>3 hours</td>
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<td>505</td>
<td>Biogeography</td>
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<tr>
<td>521</td>
<td>Advanced Studies In Geomorphology</td>
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<td>522</td>
<td>Advanced Studies In Climatology</td>
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<td>524</td>
<td>Meteorology for Science Teachers</td>
<td>3 hours</td>
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<td>525</td>
<td>Advanced Political Geography</td>
<td>3 hours</td>
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<td>530</td>
<td>Selected Problems in Cultural Geography</td>
<td>3 hours</td>
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<td>532</td>
<td>Studies in Geographic Exploration</td>
<td>3 hours</td>
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<td>534</td>
<td>Historic Preservation Planning: Application</td>
<td>3 hours</td>
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<td>540</td>
<td>Advanced Regional Geography</td>
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<td>541</td>
<td>Seminar in Tropical Geography</td>
<td>3 hours</td>
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<td>550</td>
<td>Advanced Studies in Economic Geography</td>
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<td>560</td>
<td>Settlement Geography</td>
<td>3 hours</td>
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<tr>
<td>571</td>
<td>Quality of Life, Environmental Problems and Ecological Solutions</td>
<td>3 hours</td>
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<td>580</td>
<td>Problems In Urban Geography</td>
<td>3 hours</td>
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<tr>
<td>584</td>
<td>Advanced Planning</td>
<td>3 hours</td>
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<tr>
<td>585</td>
<td>Advanced Studies In Population Geography</td>
<td>3 hours</td>
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</tbody>
</table>
590 Experimental Design and Data Analysis. 3 hours.
Prerequisite: Geog 491, or permission of instructor. (Cross-listed with Agriculture 590)
Statistical consideration in experimental design: Covariance, multiple regression, factorial design, incomplete block designs, etc.

595 Planning Practicum. 3 to 6 hours.
Prerequisites: Geog 484, 584, and permission of instructor. Supervised planning experience in a cooperating government or private agency.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

The following 400-level Geography courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

402G Physiography of North America. 3 hours.
Prerequisites: Geog 100, or Geol 102 or 111, and 113.
Each of the physiographic regions or provinces is studied. Locations and names of chief subdivisions of each region are noted. Orogenies, erosional cycles, and cycle-end surfaces are emphasized.

404G Computer Mapping. 3 hours.
Geographic information systems and computer mapping programs. Introduction to the graphics terminal, plotter, hard copy unit, and digitizers. While knowledge of computer programming is not required, a course such as CS-240 would be extremely helpful. (Fall)

410G Cartography II. 3 hours.
Prerequisite: Cartography I (315)
History of cartography, map compilation, lettering and typography; cartographic design, map reproduction, use of color, map projections, scribbling techniques. (on demand)

415G Air Photo Interpretation. 3 hours.
Characteristics of aerial photographs; use of air photos for analysis of the earth’s physical and cultural features; air photo approach to urban and regional planning. (Fall)

416G Remote Sensing: Principles and Applications to Environment, and Planning. 3 hours.
Remote sensing techniques and their application in the study of man’s biophysical environment. Through the use of infrared, thermal infrared, radar and space photography. (Spring)

420G Geomorphology. 4 hours.
Prerequisites: Geog 100, or Geol 102, or 111, and 113.
The origin, history, and characteristics of landforms produced by fluvial, glacial, wind and wave erosion and by masswasting and ground-water. (Fall)

421G Advanced Geomorphology. 3 hours.
Prerequisite: Geog 420.
Landform development under processes associated with running water. Principal topics are: climate and geomorphic processes; weathering; the drainage basis as a geomorphic unit;

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channel form; hillslope characteristics; drainage pattern evolution, etc. (alternate Springs)

422G Climatology. 4 hours.
Prerequisite: Geog 121 or permission of instructor.
This course presents the elements of climate and their world distribution with emphasis on climatic controls and processes; surveys the influences of climates on environment; introduces climatic classification systems and climatological regions of the world.

423G Transportation Planning. 3 hours.
The problems of interaction, diffusion and information transfer as they appear in a spatial context.

424G Weather Analysis and Forecasting. 3 hours.
Prerequisite: Geog 121 or permission of instructor.
Analysis of the atmosphere using satellite and radar imagery. Weather forecasting techniques using surface and upper air data are also examined.

425G Political Geography. 3 hours.
Prerequisite: Geog 101 or permission of instructor.
The political system as a spatial phenomenon. Examples from local, metropolitan-regional, national and international levels.

426G Applied Meteorology/Climatology. 3 hours.
Prerequisite: Geog 422, or permission of instructor.
This “course offers a practical insight into the influence of meteorology and climatology on everyday life. Environmental problems caused by changes in the atmosphere are also examined.

427G Water Resources. 3 hours
Prerequisite: Geog 310
Opportunities and constraints of natural hydrologic processes in maintaining or reclaiming environmental quality. Storm water runoff, floods, droughts and water resources planning, development and management.

428G Applied Groundwater Hydrology. 4 hours.
Prerequisites: Geog/Geol 310 and Geol 440
Groundwater contamination and procedures used in groundwater investigations. Regulations, monitoring wells, groundwater flow, tracer studies, aquifer pumping tests, contaminant plumes, groundwater modeling, remediation and cleanup.

430G Cultural Geography. 3 hours.
Concepts of culture and the interaction between various cultures and their environments. Field trip and field research required.

434G Historic Preservation Planning: Principles and Practices. 3 hours.
Historic preservation methodology and practice as related to urban, small town, and rural neighborhoods. Includes historic preservation law and impact statements. Field project required.

451G Geography of Kentucky. 3 hours.
Regional study assessing the natural and human resources with special attention to current ecological, social, and economic problems. Field experience required.
100 Department of Geography and Geology

452G Field Studies in Geography. 3 hours. Field methods are emphasized in problems which are assigned. Field work is required.

453G Geography of the Soviet Union. 3 hours. A geographic analysis of Russia and the Commonwealth of Independent States.

454G Geography of Europe. 3 hours. Prerequisite: Geog 101 or permission of instructor. A regional analysis of Mexico, Central America, and the West Indies.

462G Geography of South America. 3 hours. Prerequisite: Geog 101 or permission of instructor. Physical and cultural bases of South America's geographic patterns with an emphasis on problems of urban and regional development.

464G Geography of Europe. 3 hours. Prerequisite: Geog 101 or permission of instructor. A geographical analysis of Europe.

465G Geography of Asia. 3 hours. Prerequisite: Geog 101 or permission of instructor. Regional differences with emphasis on the distribution and activities of the peoples relative to the natural and economic setting and to problems of development.

466G Geography of Africa. 3 hours. Prerequisite: Geog 101 or permission of instructor. Geographic survey, assessing the relationships of the physical and cultural patterns to actual and potential economic development.

467G Geography of the Middle East. 3 hours. Various aspects of the sequent occupancy of Southwestern Asia and surrounding regions mentioned in the Bible.

474G Environmental Planning. 3 hours. Prerequisite: Geog 100. An advanced integrative course in environmental science and planning dealing with urban and rural areas. Emphasis on ecological planning strategies for improving climatic conditions, conserving water and optimizing vegetative and aquatic habitats while allowing for sustainable economic development at reduced cost.

479G Industrial and Commercial Geography. 3 hours. Prerequisite: Geog 350 or permission of instructor. Manufacturing and commercial activities and facilities related to assembling of raw materials and distribution of products.

484G Planning: Theory and Application. 3 hours. Planning theory, practice, and organizational structure.

487G Environmental Law. 3 hours. Prerequisite: Senior level standing. An introduction to major environmental legislation for air, water, toxic, and hazardous pollutants; and related legislative, administrative, and judicial developments.

488G Rural Planning. 3 hours. Principles and practices of rural planning with emphasis on the relationships between planning and economic, social, and ecologic problems in the rural setting.

491G Data Analysis and Interpretation. 3 hours. Prerequisite: Math 100 or permission of instructor. Statistical models and use of samples; variation, statistical measures, distributions, tests of significance, analysis of variance, regression, correlation and chi-square as related to interpretation and use of scientific data. (Fall, spring)

492G Spatial Analysis. 3 hours. Prerequisites: Geog 300, 491 or equivalent. History and philosophy of spatial analysis. Applications of spatial analytical techniques in an interactive computer-based environment.

493G Geographic Information Systems. 3 hours. Prerequisites: Geog 315, 404, or 492. Basic concepts and applications of data management, display, and analysis using geographic information systems.


The following graduate course, specially designed for teachers of natural and earth science, is offered in Geology:

511 The Dynamic Earth. 3 hours. Prerequisites: Geol 102, 112, or one year of earth sciences teaching at secondary school level. Topics include plate tectonics, the surface features of Earth, physical properties of Earth and its interior, geological processes and the geological time scale, continental drift, paleomagnetism, etc.

The following 400-level Geology courses may be taken for graduate credit: (A special project is required of graduate students)

405G Paleontology. 4 hours. Prerequisites: Geol 112, 114, Biol 120-121, or permission of instructor. Nature of the fossil record, preservation, basic factors and theories relating to the origin and development of living systems and the processes of evolution, the species concept, systematic and paleoecology.

415G Environmental Geology. 3 hours. Prerequisites: Geol 111-113, Geog 100 or Geol 102, or permission of instructor. Geologic factors as related to site selection, energy production, land use, waste disposal, planning, water resources, engineering practices, and the recognition and control of geologic hazards.

420G Geomorphology. 3 hours. Prerequisites: Geog 100, or Geol 102 or 111, and 113. Origin, history, and characteristics of landforms produced by fluvial, glacial, wind and wave erosion, and by mass-wasting and ground water.
440G Hydrogeology. 3 hours.  
Prerequisite: Geol 310  
Origin, occurrence and movement of ground water; wells and aquifer evaluations; quality of ground water supplies; legal aspects.

445G Aqueous Geochemistry. 3 hours  
Prerequisites: Chem 120 and 121  
An introduction to the geochemical processes of surface and ground water including concentrations of ions and organic compounds, chemical equilibria, and analytical techniques. Carbonate and clay minerals will be studied in detail.

460G Sedimentology. 4 hours  
Prerequisite: Geol 370 (Stratigraphy).  
An introduction to the processes of erosion, transportation, and deposition of sediments and their subsequent diagenesis. Interpretation of sedimentary depositional environments will be emphasized.

465G Geophysics. 3 hours.  
Prerequisites: Geol 111, and one year of college physics, or instructor’s permission.  
General and exploration geophysics. Topics include the origin of the earth and solar system, the earth’s interior, gravity and isostasy, seismology, upper atmosphere, continents and ocean basins, etc.

470G Tectonics. 3 hours.  
Prerequisite: Geol 308.  
Deformation structure and style of various crustal regions. Regional tectonics of North America is emphasized.

475G Special Topics in Geology. 3 hours.

480G Coal Geology. 4 hours.  
Origins, characteristics, and occurrences of coal and coal-bearing strata. Topics include sample description, relationships between depositional environment and coal characteristics, techniques in coal prospects. Field trip required. Aspects of Coal Petrology and Technology are studied in the lab.

490G Petroleum Geology. 3 hours  
Prerequisite: Geol 370 or equivalent  
Concepts of oil formation, source-rock evaluation, thermal maturation and petroleum migration are reviewed. Emphasis is placed on characterization of petroleum reservoirs and traps and on the techniques employed by geologists in exploration for oil and gas accumulations.

492G Spatial Analysis. 3 hours  
Prerequisites: Geog 300, Geog 491.  
History and philosophy of spatial analysis. Applications of spatial analytical techniques in an interactive computer-based environment.
and motor controls. A working model of an automated electro-mechanical device will serve as a capstone activity for the course.

544 Wood Technology. 3 hours.
Students will explore wood as a basic industrial material. Basic properties of wood, and basic processes for separating, forming and combining wood will be explored. A presentation suitable for use as an instructional unit in wood technology will serve as a capstone for the course.

546 Graphic Arts. 3 hours.
An exploration of digital imaging, desk-top pre-press operations, and preparation of computer ready graphic files. Students will be required to scan photographic images, edit images from different sources, and produce a publication that demonstrates proficiency in graphic design.

552 Advanced Machine Shop, 3 hours.
Students will explore metals machining processes as currently used in industry. Basic working properties of ferrous and non-ferrous metals, will be explored, and basic machine processes for separating, and forming metals will be examined. A presentation suitable for use as an instructional unit in metal processing technology will serve as a capstone for the course.

556 Power and Auto Mechanics. 3 hours.
Emphasis will be on a study of the generation of energy, alternative energy resources, and environmental effects of energy production and automotive transportation. Students will develop a working model of an alternative energy device that might be used as a teaching aid for a secondary school technology course.

560 Metal Technology. 3 hours.
An exploration of metals as basic industrial materials. Properties of metals, required process allowances, cutting speeds, and finishing methods will be explored. Students will use computer simulations, and engage in the development of a computer aided teaching resource for metals technology.

564 Problems In Crafts. 3 hours.
Students will develop advanced activities for basic elementary and secondary school craft course work. The emphasis will be on quality and innovative design and/or applications.

566 Ceramics and Plastics. 3 hours.
Students will explore composite materials, thermosetting and thermoplastic processing, and ceramic oxides, nitrides, carbides and borides. Applications of synthetic materials in manufacturing and construction will be researched and a final presentation suitable for secondary school instruction will be developed.

572 General Shop. 3 hours.
Students will develop activities for expiration of manufacturing or construction systems using equipment and materials found in the typical "general technology expiration" laboratory. Activities will be developed with complete listings of materials, resources, tools, processes, and procedures plus evaluation devices that measure the technological knowledge that underlies the activities designed.

599 Thesis Research and Writing. 6 hours.
Students will develop a proposal for a technology education research project under the direction of a graduate faculty member. After the proposal is accepted the student will engage in appropriate research and will produce a thesis report suitable for publication in a related technology journal.

600 Maintaining Matriculation. 1 to 6 hours.
This course is used to satisfy requirements for continuous enrollment. Students working on a thesis or planning to submit a thesis for approval must enroll. No grade is assigned.

The following 400-level courses may be taken for graduate credit in Industrial Education. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

410G Industrial Arts Problems. 3 hours.
Prerequisite: Graduate standing. Individual study and/or research in industrial education.

452G Industrial Wood Processing II. 3 hours.
Prerequisite: MT 103, or 340. The setup and use of woodworking machines. Includes tooling, jig and fixture design, and the mass production of wood products. Field trips.

465G Industrial Arts for Elementary Teachers. 3 hours.
Prerequisite: Graduate standing. Philosophy, purposes, organization and correlation of industrial arts activities as they apply to the elementary school program.

495G Acoustic Guitar Construction. 4 hours.
Prerequisite: MT 103, or equivalent. The Haile method of steel string and/or classic guitar construction. Students are required to construct an acoustic guitar and related jigs and fixtures. Lecture, lab, and field trips.

DEPARTMENT OF MATHEMATICS
THOMPSON COMPLEX-CENTRAL WING
ROOM 357 (502) 745-3651

James R. Porter, Head

Graduate Faculty


Associate Professors: D. Biles, B. Brunson, C. Ernst, N. Irani, H. Neal, B. Richmond, T. Richmond, J. Spraker

Assistant Professors: D. Atkinson, L. Miller, D. Mooney, M. Robinson, R. Swift, W. Weidemann
Degrees Offered: Master of Science in Mathematics, Master of Arts in Education (Mathematics major or minor). Coursework is also provided to support the Master of Arts in Education - Middle Grades Education Major.

Master of Science in Mathematics

This program is designed to give the student a general but thorough understanding of the main areas of pure and applied mathematics. For acceptance into the program, the student is expected to have completed courses in linear algebra, abstract algebra and either real analysis or advanced calculus.

A minimum of 30 semester hours is required. Both the thesis and non-thesis options are available. Each student's program is developed individually and must satisfy the following requirements:

A. Math 417G, 431G, 432G, 439G (unless equivalent courses were taken at the undergraduate level).

B. One indicated two-course sequence from each of three of the following areas:

1. Algebra: 417G-517
2. Analysis: 432G-531, 432G-532, 450G-550,
5. Computer Science: 442G-541, 443G-543

Other sequences used to meet this requirement must be approved by the Departmental Graduate Committee.

C. A working knowledge of a higher level programming language such as BASIC or FORTRAN (unless obtained at the undergraduate level).

A student may, upon approval of the departmental graduate committee, include in his/her program a maximum of six semester hours of coursework from a related discipline.

The research tool requirement may be fulfilled with a foreign language, a mathematics reading course, or computer science. For specific details, contact a graduate student advisor in the Department of Mathematics.

If the candidate elects the non-thesis option, satisfactory completion of a one-hour written examination over each of the three sequences chosen to satisfy Item B above is required. The eligible candidate must have completed (or be scheduled to complete by the end of the current academic term) the last course in each of the sequences selected. If the candidate elects the thesis option, then the final written examination is based on only two of the aforementioned areas. An oral thesis defense is required in lieu of the written examination in the third area.

Master of Arts in Education
(Mathematics major or minor)

Since this program is designed for the secondary school mathematics teacher, students following it must satisfy all requirements for the professional high school certification. Adequate preparation for a major in mathematics consists of an undergraduate teaching major in mathematics which includes, in addition to a calculus sequence, coursework in linear algebra and at least two of the following three areas: abstract algebra, geometry, analysis or advanced calculus. For a minor in mathematics, preparation should include at least an undergraduate teaching minor in mathematics with post-calculus coursework including linear algebra and one of the three mentioned areas.

Students majoring in mathematics must take 21 hours of mathematics including a course in each of the following areas: geometry, analysis, algebra. Upon approval of the graduate committee, 18 hours may satisfy the above requirement provided the student has previously completed Math 317, 323, and 327 (or the equivalent). A minor in mathematics must include at least 12 hours of mathematics. The remainder of the required 30 hours will be taken in professional education courses.

Neither a thesis nor a research tool is required; however, Education 500-Research Methods is required as one of the professional education courses. An oral final examination, based on the coursework and related concepts, is required.

Master of Arts in Education
(Middle grades education major)

The following courses are appropriate for students who have middle grades certification in mathematics: Math 403G, Math 409G, Math 411G, Math 413G, Math 501, Math 502, Math 509. Other courses may be appropriate depending on the individual's background. Contact the Department regarding such courses.

Graduate Courses in Mathematics

500 Readings in Mathematics. 1 to 3 hours. Prerequisite: Undergraduate major in mathematics. Students read and present papers that have appeared in (or have been accepted by) mathematical journals. Topics covered are determined by areas of interest.

509 History of Modern Mathematics. 3 hours. Prerequisite: Acceptance into a graduate degree program
104 Department of Mathematics

leading to the Master of Arts in Education with a mathematics major, minor, or emphasis component, and permission of a mathematics graduate advisor.

History and development of mathematics since the 18th century with an emphasis on important problems and famous mathematicians.

517 Topics from Algebra. 3 hours.
Prerequisite: Math 417.
Theory of rings, fields, and vector spaces. Topics include: polynomial rings; principal ideal domains; unique factorization domains; field extensions; Galois theory.

523 Topics from Geometry. 3 hours.
Prerequisite: Undergraduate geometry and permission of instructor. Geometry of special lines and points; isometries; similarities; inversion; applications.

529 Mathematical Statistics 1. 3 hours.
Prerequisites: Math 431 or Math 327, and permission of instructor.
Axiomatic development of the theory of probability. Introduction to Markov chains; random variables, distributions, transformations. Limit theorems and various modes of convergence.

530 Mathematical Statistics II. 3 hours.
Prerequisite: Math 529.
Statistical inference. Point estimates and their properties; Bayes estimates; Cramer-Rao inequality; interval estimates; hypothesis testing; linear models; analysis of variance; non-parametric inference.

531 Advanced Differential Equations. 3 hours.
Prerequisites: Math 331, 431.
Power series solutions; existence and uniqueness theorems; stability and Liapunovs method; regular singular points; perturbations of periodic solutions.

532 Real Analysis. 3 hours.
Prerequisite: Math 432.
Function spaces, additive set functions; outer measure; measurable functions; integration.

535 Advanced Applied Mathematics I. 3 hours.
Prerequisites: Math 331, 431.
Eigenvalue and boundary value problems; orthogonal expansions in function spaces; classical polynomials; Sturm-Liouville theory; Fourier and Laplace transforms.

536 Advanced Applied Mathematics II. 3 hours.
Prerequisite: Math 535.
Integral equations; calculus of variations; maximization of linear functional; maximum gradient method.

539 Topology II. 3 hours.
Prerequisite: Math 439.
Homotopy; homology theory.

550 Complex Analysis. 3 hours.
Prerequisites: Math 432, 450.
Analytic continuation; conformal mapping; Riemann surfaces; and uni-valent functions.

560 Functional Analysis. 3 hours.
Prerequisite: Math 432.

Theory of abstract linear spaces. Topics include: normed vector spaces; inner product spaces; Hilbert spaces; open mapping and closed graph theorems; Banach-Steinhaus theorem; weak and weak-* topologies.

570 Advanced Topics in Operations Research. 3 hours.
Prerequisites: Math 432, 470, or consent of instructor.
Specific area(s) of operations research.

590 Special Topics in Mathematics. 3 hours.
Prerequisite: Permission of instructor.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

Additional 500-level Math courses acceptable for the Master of Arts in Education:

501 Introduction to Probability and Statistics I. 3 hours.
Prerequisite: Permission of instructor.
Combinations and permutations; basic theorems or probability; mathematical expectations; random variable and basic probability distributions; central limit theorem.

502 Introduction to Probability and Statistics II. 3 hours.
Prerequisite: Math 203 or 329 or 501; or permission of instructor.
Review of linear algebra; Markov chains; decision theory; linear programming and game theory.

503 Introduction to Analysis. 3 hours.
Examination of selected topics in elementary calculus including sequences, series, limits, continuity, the derivative, and the Riemann integral. Introductory material includes logic, set theory, and functions.

504 Computer Applications to Problems in Mathematics. 3 hours.
Computer techniques and solutions of problems in mathematics including calculus, applied statistics, simulation, linear programming, game theory and linear algebra.

These 400-level math courses may be taken for graduate credit. Graduate students are required to complete additional problem sets and/or papers to receive graduate credit.

403G Geometry for Elementary Teachers. 3 hours.
Prerequisites: Math 211 and 212, or equivalent. (For students enrolled in elementary or middle grades graduate programs.)
Both formal and informal methods are used to explain the basic concepts of Euclidean geometry. Emphasis is given to the investigative approach, organizational skills, and problem solving.

405G Numerical Analysis I (CS 405). 3 hours.
Prerequisites: Math 327, CS 245 FORTRAN or permission of instructor.
Computer arithmetic, roots of equations, polynomial approximation and interpolation, numerical differentiation and integration. Computer solutions of problems will be required.
The solution of linear systems by direct and iterative methods, matrix inversion, the calculation of eigenvalues and eigenvectors of matrices. Initial and boundary value problems in ordinary differential equations. Computer solution of problems will be required.

History of Mathematics. 3 hours.
Prerequisite: Acceptance into a graduate degree program leading to the Master of Arts in Education with a mathematics major, minor, or emphasis component, or permission of instructor.
History of mathematics from ancient times through the development of calculus with emphasis on famous problems. Provides knowledge and appreciation useful in the classroom. Term papers will be required. This course may not be applied to the Master of Science in Mathematics degree.

Problem Solving for Elementary and Middle School Teachers. 3 hours.
Prerequisites: CS 230, and Math 403 or 323.
Integration of concepts developed in algebra, geometry, computer science, logic, statistics, probability, and elementary number theory. Students will be encouraged to use various problems solving strategies and models and to create related problems of their own.

Algebra and Computing for Elementary Teachers. 3 hours.
Prerequisite: Math 212 or equivalent.
Algebraic properties and relationships of our number systems, algebraic functions, introduction to computing including programming in BASIC, applications of computing in algebra. (For elementary or middle school education majors only.)

Algebra and Number Theory. 3 hours.
Prerequisite: Math 315 or 317.
Survey of modern algebra and number theory. Includes number systems, divisibility, congruences, groups and their application to number theory.

Algebraic Systems. 3 hours.
Prerequisite: Math 317.
Theory of groups.

Geometry II. 3 hours.
Prerequisite: Math 323.
An axiomatic development of plane hyperbolic geometry which presupposes a development of absolute geometry.

Probability and Statistics II. 3 hours.
Prerequisite: Math 328.
Sampling distributions, statistical inference; point and interval estimation, properties of estimators; hypothesis testing; regression and correlation; analysis of variance; and non-parametric methods.

Intermediate Analysis I. 3 hours.
Prerequisite: Math 317.
Topics chosen from cardinality, limits, continuity, elementary topological concepts, sequences and series, differentiation and integration, elementary functional analysis.
3. Have an overall GPA of 2.75.
4. Provide official transcripts of all higher education coursework.
5. Obtain a minimal score of 1350 on the General Test of the Graduate Record Examination.
6. Hold RN licensure or have applied for RN licensure in Kentucky.
7. Send to the Department of Nursing three letters of recommendation, including one from current supervisor.
8. Schedule a personal interview with a departmental faculty member.
9. Provide a statement of personal goals (1-2 pages), including expectations of the program and outcomes for practice five years after graduation.

The MS in Nursing includes two options: the primary care practitioner and the generalist. The practitioner option is approved and available. The generalist option has been approved and will be available at a later date. The following series of core, cognate, and clinical courses are required in both options:

- Nurs 500 - Advanced Concepts
- Nurs 502 - Advanced Health Assessment
- Nurs 504 - Theoretical Foundations
- EdFnd 501 - Graduate Statistics
- Nurs 510 - Graduate Nursing Research
- Nurs 508 - Advanced Issues in Professional Nursing
- Nurs 512 - Research Applications

**Option I Primary Care Practitioner**

This option prepares graduates to sit for certification as Advanced Registered Nurse Practitioners -- more specifically, primary care or family nurse practitioners. The following courses are unique to this program option:

- Nurs 515 - Advanced Pharmacology
- Nurs 550 - Primary Care: Children and Adolescents
- Nurs 552 - Primary Care: Adults
- Nurs 554 - Primary Care Internship

**Option II Generalist**

This option combines advanced clinical nursing with the functional areas of administration or teaching. The following courses are also option-specific:

- Nurs 514 - Advanced Clinical Nursing I
- Nurs 516 - Advanced Clinical Nursing II
- Nurs 518 - Advanced Clinical Nursing III
- Nurs 520 - Teaching in Schools of Nursing or an administrative elective

**Graduate Courses in Nursing**

- Nurs 522 - Teaching in Schools of Nursing Internship or 530 Nursing Administration

Both Plan A (thesis) and Plan B (non-thesis) are available. A research tool, as defined by Graduate Studies, is required.

**Graduate Courses in Nursing**

- Nurs 500 - Advanced Concepts. 3 hours.
  Prerequisite: Admission to graduate nursing program or completion of baccalaureate in nursing.
  The human response to potential and actual health problems will be discussed. The nature and substance of nursing will be examined from a conceptual perspective.

- Nurs 502 - Advanced Health Assessment. 3 hours.
  Prerequisite: Admission to graduate nursing or completion of baccalaureate in nursing.
  Emphasis is on the advanced skills and techniques of interviewing and health assessment that are utilized by the nurse in a primary or acute care setting. Diagnostic laboratory studies will also be discussed as they relate to the nurse in Advanced Professional Practice. Lecture two hours; lab 3 hours.

- Nurs 504 - Theoretical Foundations of Professional Nursing. 3 hours.
  Prerequisite: Admission to graduate nursing program. This course provides the student with a basis for theory development, analysis of selected conceptual and theoretical frameworks for advanced professional nursing practice, and provides knowledge concerning ANA’s Social Policy Statement, and role socialization in advanced nursing practice. In addition, the concepts of case management and management care will be analyzed as approaches to advanced nursing practice.

- Nurs 508 - Advanced Issues in Professional Nursing. 3 hours.
  Prerequisites: Nurs 502, 510.
  This course is designed to focus attention on the influence of political, legal, socioeconomic, technological aspect in the delivery of nursing care. Students will explore and analyze current issues in the nursing area.

- Nurs 510 - Graduate Nursing Research. 3 hours.
  Prerequisites: Admission to graduate nursing program and a graduate level statistics course prior or concurrent.
  This course is designed to increase excitement about nursing research and facilitate the search for knowledge through research. A strong conceptual framework linking research with practice, theory, knowledge and philosophy will be stressed.

- Nurs 512 - Research Application. 3 hours
  A review of nursing research literature and its application to the nursing profession.

- Nurs 514 - Advanced Clinical Nursing I. 4 hours
  Prerequisite: Admission to graduate nursing program.
  This course will provide the foundation for concepts and issues that influence advanced nursing practice including health teaching, policy development, environmental health concerns, family relationships, case management/managed care.
515 Advanced Pharmacology. 3 hours.
Prerequisite: Admission to graduate nursing program.
Pharmacologic applications for primary care practice designed to prepare nurse practitioners for prescribing drugs within their scope of practice. Basic pharmacologic principles and the pharmacologic actions of major drug classes will be discussed in relation to physiologic systems with emphasis on the application of these agents to primary care practice.

Two hours seminar and six contact hours per week.

516 Advanced Clinical Nursing II. 4 hours.
Prerequisites: Nurs 500, 504, 510, 514.
Designed to assist in developing skills in advanced nursing practice. The student will focus on selecting a nursing framework for the practice of nursing, performing an integrative review of research for selective nursing interventions, refining management skills in the delivery of nursing care to a group of clients with selected human responses to illness. Two hours seminar; six clinical hours per week.

518 Advanced Clinical Nursing III. 4 hours
Prerequisites: Nurs 500, 504, 510, 514, 516.
This culminating course provides the student the opportunity to participate in advanced professional practice within a selected clinical facility. Information regarding personal resource management will be included. One hour seminar; nine clinical hours per week.

520 Teaching In Schools of Nursing. 3 hours.
Prerequisites: Admission to graduate nursing program and completion of curriculum development elective.
This course is designed to assist the student to develop skills necessary for teaching nursing. Focus will be on development of the teaching-learning plan, identification of appropriate teaching strategies, development of appropriate evaluation methods, and socialization activities for nursing faculty.

522 Teaching In Schools of Nursing Internship. 3 hours
Prerequisites: Nurs 520 and completion of curriculum development elective.
This course provides the student the opportunity to implement the nurse-faculty role in an academic setting. The student works with a nurse-faculty to gain actual experience teaching nursing and refining techniques learned about the teaching-learning process.

530 Nursing Administration Practicum. 3 hours
Prerequisites: Admission to graduate nursing program and completion of core courses.
This course will provide an opportunity to develop advanced nursing administration skills in the management of human resources and analysis of models for the organization of nursing services. Two hours seminar; six hours clinical per week.

550 Primary Care: Children and Adolescents. 3 hours.
Prerequisite: Admission to graduate program and completion of Nurs 504.
This course provides both didactic and clinical experience focusing on pediatric and adolescent health. Emphasis will be on health maintenance, management of common health problems, and health education. The role of the nurse as primary care practitioner in a variety of settings will be examined. Two hours seminar; six hours clinical per week.

552 Primary Care: Adults. 3 hours
Prerequisites: Admission to graduate nursing and completion of Nurs 550.
This course provides both didactic and clinical experience focusing on adult health. Emphasis will be on health maintenance, management of common health problems, and health education. The role of the nurse as primary care practitioner in a variety of settings will be examined. Two hours seminar; six hours clinical per week.

554 Primary Care Internship, 9 hours
Prerequisite: Completion of Nurs 552.
This course is a clinical practicum and the student will focus on children, adolescents, adults and the aged. The role of the nurse as a primary health care provider in a variety of settings will be explored. Minimum of thirty hours per week.

599 Thesis Research and Writing. 6 hours

600 Maintaining Matriculation. 1 to 6 hours.

The following 400 level course may be taken for graduate credit. Students receiving graduate credit in this 400G level course will be required to do additional research, readings, or other appropriate assignments.

NOTE: This course is not included among the requirements for the MS nursing.

415G Holistic Health Modes. 3 hours
Selected holistic modes of healing will be explored. Focus will be on history, research findings, theoretical basis and legal implications. Lecture, three hours.

DEPARTMENT OF PHYSICS AND ASTRONOMY

THOMPSON COMPLEX-CENTRAL WING
ROOM 246 (502) 745-4357

Charles McGruder, Head

Graduate Faculty

Professors: D. Bryant, K. Hackney R. Hackney, C. McGruder, R. Scott, G. Vourvopoulos

Associate Professor: W. Van DerMeer

Assistant Professor: D. Harper

Degrees Offered: Master of Arts in Education (Physics minor).
108 Department of Physics and Astronomy

Master of Arts in Education

The department offers a physics minor in the Master of Arts in Education. The 12-hour minor may include physics and astronomy courses to familiarize the teacher with modern instructional developments and to strengthen the academic background. The remainder of the 30-hour degree program will be taken in professional education.

Courses which may be taken for graduate credit toward the physics minor.

501 Classical Developments in Physics. 3 hours.
Physic for junior high and high school teachers covers the discovery of physical laws, the origin of forces, motion, energy, momentum, conservation, principles, wave phenomena, and electromagnetic.

502 Modern Developments in Physics. 3 hours.
Physics for junior high and high school teachers covers atomic structure, the nucleus, elementary particles, probability and uncertainty, and special relativity. Emphasizes the impact of twentieth century discoveries on the foundations of physical law.

503 Physics Demonstrations and Laboratory Exercises. 3 hours.
Designed to acquaint the junior high and high school teacher with laboratory equipment and demonstrations for use in secondary education. Utilization of laboratory library containing approximately sixty experiments, in place.

505 Investigations in Physics. 3 hours.
Topics of individual interest relating to the teaching of physics.

The following 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

404G Experimental Physics 4. Optics. 1 hour.
Corequisite: Phys 441G
The conclusions and concepts of optics and techniques of experimental optics.

Corequisite: Phys 460G.
Includes solid state experimental techniques and demonstrations from lecture material.

Prerequisite: Phys 302.
Experience with modern nuclear detection equipment, examination of some nuclear properties via experimental methods, and demonstration of nuclear radiation as an analytical research tool.

409G Experimental Physics 7. Research Techniques. 2 hours.
Prerequisite: Two years of college physics.

414G Introductory Astrophysics. 4 hours.
Prerequisites: Two years of college physics and permission of the instructor.
Topics in solar system and stellar astro-physics. Includes radiation theory, solar phenomena; the fundamentals of radio astronomy, pulsars, quasars, and cosmic X-ray sources, etc.

418G Computers and Physical Measurement. 3 hours.
Study of the application of the computer in the physics lab.

431G Radiation Biophysics. 4 hours. (Also, Biology 431)
Prerequisites: Phys 201-202, or Phys 231-232.
The properties of the various forms of radiation and their interactions with, and effects on, living matter. Laboratory offers training in monitoring ionizing radiations and techniques of radioactive isotopes.

440G Electromagnetism I. 3 hours.
Introduction to the study of classical electromagnetic fields, including electrostatics. (fall)

441G Optics. 3 hours.
Corequisite: Phys 404G
Prerequisite: One year of college physics and one year of calculus.
Geometrical and physical optics including wave propagation, refraction, dispersion, diffraction, and polarization.

443G Lasers and Modern Optics. 4 hours.
Prerequisites 441 and 404 or consent of instructor.
Study of laser systems and electro-optical devices such as frequency doublers. Course will include hands-on projects with laser systems. 3 hrs. lecture; 2 hr. lab.

445G Electromagnetism II. 3 hours.
Study of classical electrodynamics with emphasis on Maxwell's equations, electromagnetic waves, dispersion and radiation.

450G Classical Mechanics II. 3 hours.
A continuation of Phys 350, includes motion in central potentials, dynamics of systems of particles, rigid body motion.

460G Solid State Physics. 3 hours.
Prerequisite: Phys 320.
Corequisite: Phys 406.
Theory of solids. Topics include geometrical and X-ray crystallography, Maxwell-Boltzmann and Fermi-Dirac statistics, free electron theory of metals, Brillouin zones, band model of semiconductors, and the Hall effect.

465G Geophysics. 3 hours.
(Also cross-listed as Geol 465)
Prerequisites: Geol 111 and one year of college physics or permission of the instructor.
General exploration geophysics. Topics include the origin of the earth and the solar system, the earth's interior, gravity and isostasy, seismology, upper atmosphere, continents and ocean basins, etc.

470G Nuclear Physics. 3 hours.
Corequisite: Phys 407G.
Prerequisite: Phys 320.
Properties of the nucleus including nuclear forces, alpha emission, radio-activity, fundamental particles, and particle accelerators.

475G Selected Topics in Physics. 1 to 3 hours. Directed study under the supervision of a faculty member. May be repeated with different topic.

480G Quantum Mechanics. 3 hours. Prerequisites: Phys 320, 350, 450. Fundamental principles of quantum mechanics including the hydrogen and helium atoms, the harmonic oscillator, and the Schrödinger wave equation.

DEPARTMENT OF PUBLIC HEALTH

SCIENCE AND TECHNOLOGY HALL
ROOM 412 (502) 745-4797

J. David Dunn, Head

Graduate Faculty


Associate Professor: E. Meyers

Assistant Professor: P. Minors

Degrees Offered: Master of Arts in Education (Health minor), Master of Science in Health (Public Health) with areas of specialization in: Public Health Education, Health Care Administration, Environmental Health, Gerontology.

Master of Arts in Education (Health Minor)

The program leading to the Master of Arts in Education with a minor in health is designed to prepare graduates for positions as (1) health educators in junior and senior high schools, (2) coordinators of school health programs, and (3) administrators and supervisors of school health programs. The applicant must hold a valid teaching certificate and have a minimum of an undergraduate minor in health. Applicants who hold a valid teaching certificate but have not completed a recognized minor in health may be conditionally admitted if they have completed a minimum of 12 semester hours of undergraduate coursework in health and/or related courses.

Students pursuing a minor in health must complete 12 to 15 hours in health, including Health Education 545 and 567. The additional hours in health must be chosen in consultation with the graduate health advisor. The remaining coursework will be taken in professional education.

Master of Science in Health (Public Health)

The program leading to a Master of Science in Health (Public Health) is designed to meet the needs of a wide range of health professionals (e.g., public health educators, nurses, environmentalists, health care administrators, industrial health personnel, nutritionists, dental hygienists, and other professionals) who desire graduate education in public health. The flexibility of the program allows for individual consideration of student needs, expectations, and career objectives. To pursue the Master of Science in Health (Public Health), each applicant must have completed at least a minor in a health related discipline or have adequate preparation in the sciences basic to health. Some options may have additional requirements.

Candidates for the MS in Health (Public Health) must complete a minimum of 33 hours of coursework consisting of the core of 18 hours: Community Health 481 G, 520, 582, 583, and 599 (thesis) or 546 (internship); the research tool, Community Health 501; and 12 hours of restricted electives which must be taken in one of the four fields of specialization: public health education, health care administration, environmental health, or gerontology. All elective coursework must be approved by the graduate advisor prior to enrollment.

Students choosing the health care administration option must have completed six semester hours of financial and managerial accounting, three semester hours of principles of management and three semester hours of micro economics. Applicants with these deficiencies may be admitted contingent upon completion of this coursework. In addition, students who have not completed an undergraduate health care administration program approved by AUPHA will be required to take graduate coursework in addition to the 33 semester hours normally required in the program.

Graduate Courses in Public Health

Community Health

501 Analysis of Research in Health and Safety. 3 hours. Methods, materials, techniques, and planning of research studies used and conducted by the profession.

520 Vital and Medical Statistics. 3 hours. Application of statistical techniques to health and safety data. Emphasizes basic principles and techniques in designing and analyzing health problems.

530 Independent Investigations in Community Health. 1 to 6 hours. Research problems or projects in the area of community health.
110 Department of Public Health

546 Graduate Internship. 1 to 6 hours. Supervised, full-time experience in a facility or agency approved by the Department of Public Health. A maximum of six hours may be earned.

580 History and Philosophy of Public Health. 3 hours. Development and scope of public health within a historical and philosophical context.

581 Methods in Public Health Education. 3 hours. The roles and functions of community health educators.

582 Epidemiology: Practice and Theory. 3 hours. Prerequisite: 3 hours of graduate level statistics. Applications of epidemiological principles to representative occurrences of communicable and noncommunicable disease. Emphasizes problem solving and interpretation.

583 Public Health Administration. 3 hours. Advanced concepts of organization, administration and management of public health agencies and programs.

584 International Health. 3 hours. Analyzes international health problems, including the development and administration of the World Health Organization. Covers critical health problems of both developed and underdeveloped countries. Emphasizes effective intervention strategies.

585 Environmental Health. 3 hours. Models of positive health within the individual's life style. Includes types of illnesses and factors influencing health behavior.

587 Health Behavior. 3 hours. Models of positive health within the individual's life style. Includes types of illnesses and factors influencing health behavior.

588 Seminar in Public Health. 3 hours. Current issues in public health.

590 Public Health Law. 3 hours. The judicial system and the development, enactment and enforcement of laws as they relate to public health.

599 Thesis Research and Writing. 6 hours.

600 Maintaining Matriculation. 1 to 6 hours.

These 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

546G Clinical Health Education. 3 hours. Prerequisite: 12 hours of health. Multidisciplinary approaches for health educators in a clinical situation. Includes education of patient, Health facility personnel and family. Also covers program development and discharge counseling. May include field trip.

481G Environmental Health. 3 hours. Prerequisites: CH 384, 3 hours of Biol, and 3 hours of Chem. An examination of the environment and its relationship to Health status. Areas of emphasis include food protection, air, water and land pollution, hazardous wastes, and noise and radiation hazards.

441G Legal Aspects of Health Care. 3 hours. Prerequisite: HCA 344 Examination of the judicial system, legislative process, and the development, enactment and enforcement of laws as they relate to the delivery of health care and the Health care industry.

445G Health Care Administration

530 Independent Investigations in Health Care Administration. 1 to 6 hours. Research problems or projects in the area of Health care administration.

540 Health Care Organization and Management. 3 hours. Organization and management principles, theories and practices in the Health care environment. The U.S. Health care system, the role of the administrator, facilities operations and evaluation, and health administration research.

541 Health Care Marketing Principles and Practices. 3 hours. Marketing principles, theories, and practices in the Health care environment. Structured opportunities to study Health care marketing literature and to develop skills in marketing plan development.

542 Health Care Human Resources Administration. 3 hours. Principles and practices of human resources administration in the Health care field. The unique characteristics of professional, technical, skilled and unskilled Health care workers explored and emphasized.

544 Health Care Systems Administration. 3 hours. The systems approach to effective and efficient delivery of Health services. Analysis and evaluation of Health care delivery system components. Decision making in health care organizations.

546 Graduate Internship. 1 to 6 hours. Supervised, full-time experience in a facility or in an agency approved by the Department of Public Health. A maximum of six hours may be earned.

584 Health Policy and Planning. 3 hours. An overview of Health policy and Health planning methodologies.

586 Health Economics. 3 hours. Economic principles applied to the study of health care facilities, Health services and manpower.

These 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

441G Legal Aspects of Health Care. 3 hours. Prerequisite: HCA 344 Examination of the judicial system, legislative process, and the development, enactment and enforcement of laws as they relate to the delivery of health care and the Health care industry.

445G Health Care Finance. 3 hours. Prerequisites: HCA 344 and FIN 330 Introductory course in the methods of financing the delivery of Health care services in the U.S. Includes budgetary methods and financial management techniques for controlling service costs to both provider and consumer.
Health Education

530 Independent Investigations (n School Health. 1 to 6 hours. Research problems or projects in the area of school health.

545 The Health Education Curriculum. 3 hours. Prerequisite: SecEd 580. Review of health curriculum guides and curriculum studies in health education. Laboratory work in construction of curriculum guides.

567 Administration and Supervision of Health and Safety Programs. 3 hours. Responsibilities, activities, and problems of administering and supervising health and safety programs within and among the school and other community agencies.

These 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

443G Health Problems of the Aged. 3 hours. Prerequisite: HE 260. Covers ecological factors affecting human health and longevity, current health problems, and research on health and disease as they relate to the aged.

444G Death Education. 3 hours. Prerequisite: Three hours of social or behavioral science. Man's relationship to death and dying, coming to terms with eventual death, coping with death of loved ones and with fear of death. Includes suicide prevention. Field trips are required.

447G Human Values and the Health Sciences. 3 hours. Prerequisites: HE 260, CH 381, or appropriate background in the social, behavioral, biological, or allied health sciences. Analysis of the difficult ethical, legal, and social dilemmas confronting the health care delivery system, patients, medical practitioners, and other health care professionals in contemporary American society.

460G School and Community Health Workshop. 3 hours. Prerequisite: Permission of instructor. Emphasizes the coordination of school and community health programs and personnel in seeking solutions for health problems.

461G School Health Organization. 3 hours. Prerequisite: CH 381 Standards and criteria for the three phases of the school health program: health services, healthful school environment, and health instruction. Emphasizes coordination of the total school health program. Visitations in public schools.

462G Folk Medicine. 3 hours. Historical circumstances, associations, and logic of traditional non-scientific medical practices.

463G Consumer Health. 3 hours. Prerequisite: HE 260. Benefits and/or hazards of and criteria for selection of health related products and services. Analysis of methods and techniques of health frauds. May include field trips.

464G Women’s Health. 3 hours. Prerequisites: Permission of Instructor An analysis of the major health problems of contemporary women, with a special emphasis on health promotion, disease prevention, and consumer health concerns.

465G Health and Safety in the Elementary School. 3 hours. Prerequisite: Three hours of health, nature and purpose of school health and safety in the elementary school, including curriculum development, instructional content areas, appraising students' health, and evaluation.

467G Drug Abuse Education. 3 hours. Prerequisite: HE 100 or equivalent A drug abuse education and prevention course designed to provide current and documented information about abused substances. Includes study of the development, implementation and evaluation of drug prevention programs in the home, school, community and workplace.

468G Sexuality Education. 3 hours. Prerequisite: Three hours of undergraduate health education and six hours of undergraduate behavioral sciences. Emphasis in this course is on planning, implementation and evaluation of school and community sexuality education programs. Health and policy issues which affect sexuality and sexual behavior are addressed along with analysis of contemporary health issues with sexual dimensions.

469G Critical Issues In Health and Safety. 3 hours. Prerequisites: HE 260 and CH 381. Research and discussion of specific local, national, and world wide health and safety problems. (This course may be offered with the following subtitle: Industrial Safety.)

Safety

530 Independent Investigations in Safety. 1 to 6 hours. Research problems of projects in the area of safety.

570 School and Community Safety Programs. 3 hours. Responsibilities, activities, and problems of school and community safety programs. Emphasizes pupil transportation programs. Also includes home, fire, traffic and transportation, industrial, and public safety.

These 400-level courses may be taken for graduate credit. Students receiving graduate credit in 400G courses will be required to do additional research, readings, or other appropriate assignments.

470G Driver Education and Traffic Safety II. 3 hours. Prerequisite: Sfty 370. Management of classroom and laboratory phases of the high school driver and traffic safety education program. Emphasizes simulation and range programs.

471G Advanced Studies In Driver Education. 3 hours. Prerequisite: Sfty 470. Advanced instructional technology to meet the needs of the driver and safety education program. Emphasizes behavioral approaches to traffic safety education.
GRADUATE STUDIES AND RESEARCH

Elmer Gray, Dean

Degrees Offered

Master of Arts in Interdisciplinary Administration

Advisor: Judith D. Hoover, Communication and Broadcasting - Ivan Wilson Center Office 192
(502) 745-5291

The Master of Arts in interdisciplinary Administration was created in response to requests from area business and industry leaders. The interdisciplinary program combines courses in research, business, economics, psychology, communication, environmental law, and technology to meet needs of a broad range of business and industry clientele. Students will develop and refine a broad knowledge base of administrative techniques applicable to modern businesses, industry and commerce.

Program coursework is offered on a bi-term basis and scheduled on weekends. Students may complete the program in two years. The first program cycle will be offered in Russellville, Kentucky, beginning in January 1995 and concluding in December 1996. Also, the individual courses are offered on campus in the traditional format.

Admission to the Master of Arts in Interdisciplinary Administration requires a 2.75 grade point average (overall or on the last 60 hours) or either a minimum 1200 GRE General Test score or a minimum 400 GMAT score.

Graduate Studies and Research

The program includes 21 hours of required courses and 12 hours of elective courses:

Required Courses (21 hours)

- ECON 504 Survey of Economic Theory
- MGT 513 Management Dynamics
- MGT 570 Business Government, Law
- COM 461 G Organizational Communication
- GEOG 571 Quality of Life, Environmental Problems, and Ecological Solutions
- PSY 551 Social Psychology or Organizations
- PSY 507 Statistical Design of Experiments or
- SOC 513 Methods of Social Research

Restricted Electives (6 hours)

- COM 563 Issues Management or
- COM 564 Crisis Communication
- COM 560-5 Seminar in Organizational Communication—Multinational Business Communication or
- COM 586 Processes of Group Communication or
- COM 560-6 Seminar in Organizational Communication—Employee Communication

General Electives (6 hours)

- GEOG 487G Environmental Law
- PSY 473G Training in Business and Industry
- PSY 570 Introduction to Industrial/Organizational Psychology
- IT 430G Supervision of Industrial and Corporate Resources
## Organization of the University

### BOARD OF REGENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Hometown</th>
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<tbody>
<tr>
<td>Kristen T. Bale</td>
<td>Glasgow, Kentucky</td>
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<td>Robert Earl Fischer</td>
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### PRESIDENT OF THE UNIVERSITY

Thomas C. Meredith

### UNIVERSITY COUNSEL

Deborah T. Wilkins

### ADMINISTRATIVE STAFF

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<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Robert V. Haynes</td>
<td>Vice President for Academic Affairs</td>
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<td>Jerry Wilder</td>
<td>Vice President for Student Affairs</td>
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<td>James R. Ramsey</td>
<td>Vice President for Administration and Technology</td>
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<td>Robert M. Rutledge III</td>
<td>Vice President, Institutional Advancement</td>
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<tr>
<td>Jacqueline Addington</td>
<td>Assistant Vice President for Academic Affairs</td>
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<td>Cecile Garmon</td>
<td>Assistant Vice President for Budget and Planning</td>
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<td>Charles M. Anderson</td>
<td>Assistant Vice President for Technology and Telecommu-</td>
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<td>David Lee</td>
<td>Dean, Potter College of Arts, Humanities, and Social S-</td>
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<td>J. Michael Brown</td>
<td>Dean, College of Business Administration</td>
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<td>Elmer Gray</td>
<td>Dean, Graduate Studies and Research</td>
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<tr>
<td>Martin Houston</td>
<td>Dean, Ogden College of Science Technology, and Health</td>
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<td>Carl R. Martray</td>
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<td>Howard E. Bailey</td>
<td>Dean, Student Life</td>
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<td>Michael B. Binder</td>
<td>Dean of University Libraries</td>
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<tr>
<td>Freida Eggleton</td>
<td>Registrar</td>
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<td>Phillip E. Myers</td>
<td>Director, Sponsored Programs</td>
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### OFFICE OF GRADUATE STUDIES STAFF

Elmer Gray  
Bettie Johnson  
Lou Stahl  
Doris Tyree

### GRADUATE FACULTY

#### POTTER COLLEGE OF ARTS, HUMANITIES AND SOCIAL SCIENCES

#### ART

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<tr>
<th>Name</th>
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<tr>
<td>Coakes, Michelle D.</td>
<td>M. F. A., Northern Illinois University, Assistant Professor</td>
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<tr>
<td>Fernandez, Leo A.</td>
<td>M. F. A., Claremont Graduate School, Professor</td>
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<td>Notheisen, Laurin</td>
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<td>Stomps, Walter E.</td>
<td>M. F. A., School of the Art Institute of Chicago, Professor</td>
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<td>Trutty-Coohill, Patricia</td>
<td>Ph. D., Pennsylvania State University, Associate Professor</td>
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#### COMMUNICATION AND BROADCASTING

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<td>Ken, Carl L.</td>
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#### ENGLISH

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<td>Carr, Patricia</td>
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#### GOVERNMENT

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<td>Kersenbaum, Sylvia</td>
<td>Artist Diploma, Academia De Santa Cecilia (Rome), Professor</td>
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<td>Pope, Jerrold</td>
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<td>Scott, Marshall L.</td>
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### SUMMARY OF PROCEDURES FOR APPLICANTS SEEKING THE MASTER'S DEGREE

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<tr>
<td>File application for admission (Form A)</td>
<td>Office of Graduate Studies</td>
<td>Well in advance of expected date of entrance</td>
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<tr>
<td>Order 1 official copy of all transcripts</td>
<td>From all colleges attended</td>
<td>Transcripts are needed at least 30 days prior to beginning of semester of entrance</td>
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<tr>
<td>Take GRE</td>
<td>Obtain application from University Counseling Center or Office of Graduate Studies.</td>
<td>Scores must be on file prior to second enrollment</td>
</tr>
<tr>
<td>Plan program of study (Form C)</td>
<td>Developed in cooperation with and approved by assigned departmental advisor(s) and submitted to Office of Graduate Studies for approval</td>
<td>Prior to enrollment in hours beyond 12, including transfers, if any</td>
</tr>
<tr>
<td>Complete research tool requirements</td>
<td>Check with departmental advisor</td>
<td>During the first, or at the latest the second, term of enrollment</td>
</tr>
<tr>
<td>Apply for admission to candidacy (Form D)</td>
<td>Graduate Studies or departmental advisor</td>
<td>After the completion of 12 hours and no later than first week of semester in which student intends to graduate.</td>
</tr>
<tr>
<td>Addition or deletion of a course listed on approved program of study</td>
<td>See department advisor</td>
<td>Prior to enrollment in course to be substituted</td>
</tr>
<tr>
<td>Remove any incomplete grades</td>
<td>See department advisor</td>
<td>Incomplete (or X) grades automatically become ‘F if the work is not completed within 12 weeks of the next full university term.</td>
</tr>
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<td>Take comprehensive exam</td>
<td>See department advisor</td>
<td>After admission to candidacy. Report of results due in the Office of Graduate Studies one week prior to graduation</td>
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<tr>
<td>Submit Thesis (If required)</td>
<td>To thesis committee, and then to the Office of Graduate Studies for final reading</td>
<td>At least three weeks prior to date of graduation</td>
</tr>
<tr>
<td>Apply for graduation and pay diploma fee</td>
<td>Obtain application form and pay fee to Registrar's Office</td>
<td>According to required deadlines. Information available from Registrar or Graduate Studies</td>
</tr>
<tr>
<td>Secure cap and gown</td>
<td>College Heights Bookstore (must have receipt of payment of diploma fee)</td>
<td>Same as deadline for payment of diploma fee</td>
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<tr>
<td>Graduation, or give notification of absence</td>
<td>Registrar's Office</td>
<td>Comply with instructions mailed to all paid candidates</td>
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CAMPUS ACCESSIBILITY MAP FOR STUDENTS WITH DISABILITIES

Copies of this map may be obtained from the Office for Disability Services Potter Hall, Room 445 (502) 745-5004, V/TDD