

A large brick sign for Western Kentucky University. The sign is made of reddish-brown bricks and has a stone base. It features a small icon of a building with a dome at the top left. The text "WESTERN KENTUCKY UNIVERSITY" is engraved in a serif font, and "FOUNDED 1906" is engraved below it. The sign is set against a background of green trees and a blue sky. In the foreground, there are red and white flowers.

WESTERN  
KENTUCKY  
UNIVERSITY

FOUNDED 1906

Western  
Kentucky  
University

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1997-1999  
Graduate  
Catalog



WESTERN  
KENTUCKY  
UNIVERSITY

# WESTERN KENTUCKY UNIVERSITY

WESTERN KENTUCKY UNIVERSITY  
<http://www.msc.wku/>

## 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

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***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 consideration 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 State Department of Education, 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, phone, fax, and e-mail addresses listed in the respective departments

Graduate Studies ..... 745-2446  
 Fax ..... 745-6950  
 E-Mail: [graduate.studies@wku.edu](mailto:graduate.studies@wku.edu)

College of Arts, Humanities,  
 and Social Science ..... 745-2344  
 Fax ..... 745-5734  
 E-Mail : [david.lee@wku.edu](mailto:david.lee@wku.edu)

College of Business  
 Administration ..... 745-6311  
 Fax ..... 745-3893  
 E-Mail: [coba@wku.edu](mailto:coba@wku.edu)

College of Education and  
 Behavioral Sciences ..... 745-4662  
 Fax ..... 745-6474  
 E-Mail: [cebs.college@wku.edu](mailto:cebs.college@wku.edu)

College of Science, Technology,  
 and Health ..... 745-4448  
 Fax ..... 745-6471  
 E-Mail: [carol.holton@wku.edu](mailto:carol.holton@wku.edu)

Registrar's Office ..... 745-3351  
 Fax ..... 745-4830

Certification Office ..... 745-2124  
 Fax ..... 745-6474  
 E-Mail: [denise.garner@wku.edu](mailto:denise.garner@wku.edu)

Testing Arrangements  
 (GRE, etc) ..... 745-3159  
 Fax ..... 745-6474  
 E-Mail: [cebs@wku.edu](mailto:cebs@wku.edu)

Financial Aid ..... 745-2755  
 Fax ..... 745-6586  
 E-Mail: [mary.williams@wku.edu](mailto:mary.williams@wku.edu)

Veterans Educational  
 Benefits ..... 745-5482  
 Fax ..... 745-6586  
 E-Mail: [mary.williams@wku.edu](mailto:mary.williams@wku.edu)

Extended Campus Programs  
 WKU ..... 745-5305  
 Fax ..... 745-5575  
 E-Mail: [jackie.ellis@wku.edu](mailto:jackie.ellis@wku.edu)

Owensboro ..... 684-9797  
 Fax ..... 684-0104  
 Glasgow ..... 651-6399  
 Fax ..... 745-5080  
 Elizabethtown ..... 769-1614  
 Fax ..... 769-1614  
 Fort Knox ..... 942-8381  
 Fax ..... 745-5079

Housing Office ..... 745-4359  
 Fax ..... 745-6129  
 E-Mail: [housing@wku.edu](mailto:housing@wku.edu)

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## 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.

## Graduate Studies

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 and graduate studies, recommends and reviews policies pertinent to the operation of Graduate Studies. In addition, it regularly reviews admission requirements and makes recommendations regarding new graduate programs and alterations of existing programs.

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.

## University Libraries

The University Libraries consist of the main library and three branch libraries to serve the academic community of Western Kentucky University. Additionally, a cooperative agreement is maintained with the Learning Resources Center at Owensboro Community College to assist WKU students and faculty in that geographic area. The Libraries' collections include more than one half million volumes, over 100,000 volumes of journals, more than one half million government documents, more than 2,000,000 microforms, over 1200 CD-ROMs, and the largest law collection of non-law school academic libraries in the state, a collection nearing 20,000 volumes. The library currently subscribes to over 4600 serials and each year nearly 10,000 books are added to the library's circulating collection.

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 Libraries' Circulation Services, Reference Center, Interlibrary Loan, Extended Campus Library Services, and Technical Services. Also housed in the main library are the reserve, periodical, government documents, law, leisure reading, video, and University Archive collections.

The Educational Resources Center (ERC) is located on the third floor of Tate C. Page Hall. The ERC is a library which supports the faculty and students of the School of Integrative Studies in Teacher Education. The collection contains educational methodology books, K-12th grade text books, curriculum guides, audio-visual curriculum materials, and children's and young adult books.

The Kentucky Building houses the Kentucky Museum and the special collections of the Kentucky Library and Manuscripts & Folklife Archives. These are non-circulating collections of materials relating primarily, but not exclusively, to all phases of Kentucky life.

## **6 University Libraries**

The present site of the Glasgow Campus Library on Liberty Street in Glasgow opened in 1990. The Glasgow Campus Library Coordinator works closely with the Extended Campus Services Librarian to provide reference assistance and services to students enrolled at the WKU Glasgow Campus and other extended campus sites. Glasgow is the county seat of Barren County and is located 45 minutes northeast of Bowling Green.

The University Libraries are involved year-round in events such as exhibits, workshops, and lectures designed for the University community and the general public. For more information about the libraries and the services offered, visit their Web site at: <http://wkuweb1.wku.edu/Library>.

### **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 super computer, 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 con-

sultation, 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, job 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.

### **Housing Facilities**

Graduate housing is available for both men and women. To apply for housing, students need to submit a Resi-

dence Hall Housing Agreement, along with a deposit, to the Office of Housing.

## Food Services

Campus Food Service is operated by Marriott Corporation. Marriott offers a variety of options which include: The Marquis Club, Subway, Taco Bell, The Hilltopper Inn, The Firehouse, and Pizza Hut. 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 and meet additional qualifications. Kentucky resident students must have a minimum GAP score (GRE General Test Score x overall undergraduate grade average on a 4.0 scale) of 3800 for the 1997 academic year and 3900 for the 1998 academic year. For non-resident students, the required GAP score for 1997 is 4600 and for 1998 is 4700. Applications should be received by the end of February. 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-month 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 Sumner counties in Tennessee will automatically receive a tuition waiver for the out-of-state portion of registration fees.

Qualified students from Clay, Cheatham, Davidson, Trousdale, Williamson, and Wilson counties in Tennessee and Perry, Posey, Spencer, Vanderburgh, and Warrick counties in Indiana will pay the in-state registration fees plus a per credit hour charge not to exceed \$415 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 qualify. 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 certificate 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 through TOPLINE, Western's telephone registration system, to students who (1) have been admitted for the term, or (2) have been enrolled continuously, or (3) have been enrolled in any one 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 at 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 may be 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 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 may be permitted to withdraw with a W instead of an F.

**EXTENDED CAMPUS**

Many courses are offered in each of the three WKU Centers and in other service locations.

Registration is available through TOPLINE, Western’s telephone registration system. 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

FAX - 502-745-5079

Glasgow Campus - (502) 651-6399

FAX - 502-745-5080

Owensboro Center - (502) 684-9797

FAX - 502-684-0104

**GRADUATE FEES**

Spring or Fall Semester  
Full-time Students (per semester)

Resident \$1,135

Non-Resident \$3,115

Part-time and Summer Students  
(per credit hour)

Resident \$ 125

Non-Resident \$ 345

**Note:** The above fees are approximate for 1997-98 and will likely increase for 1998-99. Tuition and/or fees are subject to change by the Kentucky Council on Higher Education or Western Kentucky University. Graduate students in music should refer to the Department of Music 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.

**DETERMINATION OF RESIDENCY STATUS  
FOR ADMISSION AND TUITION  
ASSESSMENT PURPOSES**

**RELATES TO: KRS 164.020, 164.030**

**STATUTORY AUTHORITY: KRS 164.020**

**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 long-standing 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 for residency vary in form and substance for each of these uses. The purpose of this administrative regulation is to establish a process and corresponding guidelines for the determination of residency status for students seeking admission to, or who are enrolled in, public institutions of higher education. Furthermore, it is the intent of the Council on Higher Education that this administrative 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**

- (1) “Academic term” means a division of the school year during which a course of studies is offered: semester, quarter, or summer term as defined by the institution in a manner consistent with sub section (16) of this section.

## 10 Classification of Residency for Admission and Tuition Assessment Purposes

- (2) "Continuous enrollment" means a person is enrolled in the Kentucky system of state-supported colleges and universities at the same degree level for consecutive terms, excluding summer term, since the beginning of the period for which continuous enrollment is claimed unless a sequence of continuous enrollment is broken where the student fails to enroll for a consecutive academic term excluding summer term, except under extenuating circumstances beyond the student's control, such as serious personal illness or injury, or illness or death of a parent.
- (3) "Determination of residency status" means the process and decision by which a person is classified as a Kentucky resident or as a nonresident in accordance with this administrative regulation.
- (4) "Degree level" means one (1) of the following:
  - (a) Enrollment in courses or programs which could result in the award of a baccalaureate degree or lower including enrollments in courses by nondegree seeking postbaccalaureate students;
  - (b) Enrollment in courses or programs which result in a graduate degree or graduate certification other than the first-professional degrees in law, medicine, or dentistry; or
  - (c) Enrollment in courses or programs which result in a professional degree in law, medicine, dentistry, or "Pharm. D".
- (5) "Dependent person" means a person who is unable to meet all of the criteria listed in subsection (10) of this section.
- (6) "Documentation" means source documents, such as official letters, papers, or sworn statements.
- (7) "Domicile" means a person's true, fixed, and permanent home and 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.
- (8) "Full-time employment" means employment for at least forty-eight (48) weeks at an average of at least thirty (30) hours per week.
- (9) "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 institution.
- (10) "Independent person" means a person who demonstrates financial independence from parents and persons other than a spouse and who can meet the criteria in Section 2(2)(a) of this administrative regulation.
- (11) "Institution", "institution of higher education", or "college" means all entities offering instruction and conferring degrees or diplomas beyond the secondary school level, including four (4) year colleges or universities, two (2) year institutions including community colleges, and postsecondary vocational-technical schools unless the type of institution shall be expressly stated.
- (12) "Kentucky residency" or "Kentucky resident" means the result of a determination by an institution that a person is a resident of Kentucky for the purpose of tuition assessment and for the purpose of admission to that institution, if applicable.
- (13) "Nonresident" means a person who is domiciled outside of Kentucky or who currently maintains legal residence outside Kentucky or who has not met the criteria for establishing Kentucky residency as defined in this administrative regulation.
- (14) "Parent" means one (1) of the following:
  - (a) A person's father or mother; or
  - (b) A court-appointed legal guardian recognized by an appropriate court within the United States in which there is a relinquishment of the rights of the parents but shall not apply if a guardianship has been established primarily for the purpose of conferring the status of Kentucky residency on a person.
- (15) "Residence" or "residency" means the place of abode of a person and the place where the person is physically present most of the time for a noneducational purpose in accordance with Section 2 of this administrative regulation.
- (16) "Summer term" means the sum of the summer session enrollment periods following the spring academic term and preceding the fall academic term as defined by an institution of higher education.
- (17) "Sustenance" means living expenses including room, board, maintenance, transportation, and educational expenses including tuition, fees, books, and supplies.

### Section 2. Guidelines for Determination of Residency Status

- (1) (a) An initial determination of residency status for admission and tuition assessment purposes shall be based upon the facts in existence when the credentials established by an institution for admission for a specific academic term have been received.
- (b) An initial determination of residency status is made on:

1. The basis of information derived from admissions materials;
  2. Other materials required by an institution and which are consistent with this administrative regulation; or
  3. Other information available to the institution.
- (c) An individual seeking a determination of residency status must demonstrate that status by clear and convincing evidence.
- (d) An undergraduate student whose admissions records show the student to be a graduate of an out-of-state high school shall be presumed to be a nonresident unless the person demonstrates Kentucky domicile and residency. An institution shall make a determination that a student is a nonresident in the absence of such evidence.
- (e) A student whose admissions records indicate the student's residence to be outside of Kentucky at the time of application for admission is presumed to be a nonresident.
- (2) (a) A determination shall first be made of whether a student is dependent or independent. In determining the dependent or independent status of a person, the following information shall be considered as well as any other relevant information available at the time the determination is made.
- (b) A person claiming independent status shall document that status and demonstrate that the person:
1. Has not been claimed as a dependent on the federal or state tax returns for the year preceding the date of application for a determination of residency status; or
  2. Is no longer claimed by a parent or other person as a dependent or an exemption for federal and state tax purposes; and
  3. Has financial earnings and resources independent of parents and persons other than a spouse necessary to provide for the person's own sustenance.
- (3) (a) 1. A dependent person whose parent or parents are domiciled in and whose parents are residents of this state, and whose parents subsequently move from this state, shall be considered a Kentucky resident for the purpose of this administrative regulation while in continuous enrollment at the degree level in which currently enrolled.
2. If continuous enrollment is broken or the current degree level is completed, the person's residency status shall be reassessed in accordance with this administrative regulation.
- (b) An independent person who moves to Kentucky and within twelve (12) months enrolls in an institution of higher education more than half time shall be presumed to have come to Kentucky primarily for educational purposes and shall be presumed to be a non-resident and shall be so classified unless establishment of a Kentucky domicile and residency can be demonstrated in a manner consistent with this administrative regulation.
- (c) An independent person who provides clear and convincing evidence of Kentucky domicile and residency shall be so classified as shall that person's spouse or dependent children, notwithstanding the provisions of paragraph (d) of this subsection.
- (d) A person who moves to Kentucky primarily for the purpose of enrollment of either self, spouse, or a dependent in an institution of higher education shall not be granted Kentucky residency unless such person can demonstrate establishment of Kentucky domicile and residency.
- (e) If an independent person or the sole parent or both parents of a dependent person moves out-of-state, domicile and Kentucky residency, having been established is retained until steps are taken to establish domicile and residency elsewhere.
- (f) The same facts and conditions which are presumed in establishing Kentucky domicile and residency are similarly presumed in determining when domicile and residency are established elsewhere.
- (g) A person is presumed to have lost Kentucky domicile and residency upon a one (1) year continuous absence from the state unless the person asserting Kentucky domicile and residency can establish that Kentucky domicile and residency are maintained.
- (h) Upon transfer to, or matriculation from, a Kentucky public institution of higher education, a student's residency status

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shall be reassessed by the receiving institution subject to the provisions for continuous enrollment.

- (i)
    - 1. An individual or the spouse or dependent of an individual whose domicile and residency was Kentucky at the time of induction into the armed forces of the United States, and who maintains Kentucky as home of record and permanent address, shall be entitled to Kentucky residency status during the time of active service; or
    - 2. If the individual returns to this state within six (6) months of the date of discharge from active duty having met the provisions of subparagraph 1 of this paragraph, the student, spouse, and dependents shall retain Kentucky residency status.
  - (j)
    - 1. A member or the spouse or dependent of a member of the armed forces of the United States stationed in Kentucky on active military orders shall be considered a Kentucky resident while the member is on active duty in this state pursuant to such orders.
    - 2. A member or the spouse of the member, while in continuous attendance at the degree level in which currently enrolled, shall not lose Kentucky residency status when the member is thereafter transferred on military orders.
    - 3. Individuals classified under this section shall be reassessed in accordance with the appropriate sections of this administrative regulation when the qualifying condition is terminated. The provision of this paragraph shall not apply if the individual is stationed in Kentucky for the purpose of enrollment at an institution of higher education or is on temporary assignment of less than one (1) year.
    - 4. The student, while in continuous attendance at the degree level in which currently enrolled, shall not lose Kentucky residency status when the parent is there after transferred on military orders.
    - 5. If continuous attendance is broken or the current degree level is completed, a person's residency
- status shall be reassessed in accordance with the appropriate sections of this administrative regulation. This paragraph is not applicable if the parent is stationed in Kentucky for the purpose of enrollment at an institution of higher education or is on a temporary assignment of less than one (1) year.
- (k)
    - 1. A person holding a permanent residency visa or classified as a political refugee shall establish domicile and residency in the same manner as any other person.
    - 2. Time spent in Kentucky and progress made in fulfilling the conditions of domicile and residency as stated in this section prior to obtaining permanent status may be considered in establishing Kentucky domicile and residency.
  - (l) A person holding a nonimmigrant visa with designation A, E, G, H, I, L, or TN shall establish domicile and residency the same as any other person.
  - (m)
    - 1. A person holding a nonimmigrant visa with designations B, C, D, F, J, K or M does not have the capacity to remain in Kentucky indefinitely and may not attain Kentucky residency status for admission and tuition assessment purposes.
    - 2. A person holding a visa as described in subparagraph 1 of this paragraph, but who is a dependent of a parent holding a visa as described in paragraph (l) of this subsection, shall be considered as holding the visa of the parent for the purpose of residency status.
    - 3. If a person requesting a change in residency status becomes independent or if the status of the parent of a dependent person changes, the institution shall reassess residency.
  - (n) Pursuant to KRS 164A.330 and 200 KAR 16:040, beneficiaries of a Kentucky Educational Savings Plan Trust shall be granted residency status for tuition purposes if:
    - 1. The beneficiary is covered under a vested participation agreement;
    - 2. The beneficiary has been a continuous



- resident of the Commonwealth of Kentucky during the eight (8) year vestment period; and
3. The beneficiary enrolls in an institution of higher education in Kentucky prior to enrollment in any other educational institution.
- (o) Kentucky residency status shall not be conferred by the performance of acts which are auxiliary to fulfilling educational objectives or by acts which are performed as a matter of convenience. Mere physical presence in Kentucky including living with relatives or friends is not sufficient evidence of domicile and residency.
- (4) The types of documentation and evidence used in a determination of residency status shall include but shall not be limited to the following:
- (a)
1. The domicile and residency of a dependent person are that of either parent. The domicile and residency of the parent shall be determined in the same manner as the domicile and residency of an independent person.
  2. Individuals who enroll in college immediately following graduation from high school and remain enrolled are presumed to be dependent persons unless the contrary is evident from the information submitted. In such cases, domicile may be inferred from the student's permanent address, parent's mailing address, or location of high school of graduation.
  3. The domicile and residency of a dependent person whose parents are divorced, separated, or otherwise living apart shall be presumed to be Kentucky if either parent is domiciled in and is a Kentucky resident regardless of which parent has legal custody or is entitled to claim that person as a dependent pursuant to Kentucky income tax provisions.
- (b)
1. A person claiming independent status shall document independent status consistent with this administrative regulation and shall demonstrate by clear and convincing evidence that Kentucky domicile and residency have been established.
  2. No independent person classified as a nonresident shall be presumed to have gained Kentucky residency status while being enrolled in any institution of higher education more than half time unless that person has established domicile and residency in Kentucky.
- (c) A determination of Kentucky domicile and residency 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 and residency.
- (d) The following facts, although not conclusive, shall have probative value in support of a claim for Kentucky residency:
1. Acceptance of an offer of full-time employment or transfer to an employer in Kentucky or contiguous area while maintaining domicile in Kentucky;
  2. Continuous physical presence in Kentucky while in a nonstudent status for the twelve (12) months immediately preceding commencement of the academic term for which a classification of Kentucky residency is sought;
  3. Filing of Kentucky resident income tax return for the calendar year preceding the date of application for a change in residency status or payment of Kentucky withholding taxes while employed during the calendar year for which a change in classification is sought;
  4. Full-time employment of at least one (1) year while living in Kentucky;
  5. Attendance as a full-time, nonresident student at an out-of-state institution of higher education based on a determination by that school that the person is a resident of Kentucky;
  6. Abandonment of a former domicile or residence and establishing domicile and residency in Kentucky with attendance at an institution of higher education following and only incidental to such change in domicile and residency;
  7. Obtaining licensing or certification for professional and occupational purposes in Kentucky;
  8. Payment of real property taxes in Kentucky;
  9. Payment of intangible personal property taxes in Kentucky;
  10. Ownership of real property in Kentucky, if the property was used by the student as a residence preceding the date of application for a determination of residency status;
  11. Long-term lease of at least twelve (12) consecutive months of noncollegiate housing;

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12. Kentucky automobile registration;
  13. Kentucky driver's license;
  14. Continued presence as a resident in Kentucky during vacation periods;
  15. Marriage to a Kentucky resident; and
  16. Registration as a Kentucky voter.
- (5) (a) A determination of residency status shall be based upon verifiable circumstances or actions, and a student may be required to submit original or notarized copies of any documents required or offered in support of a claim of Kentucky domicile and residency.
- (b) Evidence cited as the basis for domicile and residency shall be documented, and the required documentation shall accompany the application for a change in a determination of residency status.
- (c) Institutions may request additional documentation to clarify the person's circumstances and to formulate a determination of residency status which considers all relevant facts.

### Section 3. Penalty and Sanctions for Submission of False Documents

- (1) A student who gives incorrect or misleading information to institutional officials may be subject to criminal prosecution and to such disciplinary sanctions as may be imposed by the institution through a policy written and disseminated to students.
- (2) A penalty or sanction because of incorrect information shall include but not necessarily be limited to the payment of nonresident tuition for each academic term for which tuition was assessed based on an improper determination of residency status.

### Section 4. Determination of Residency Status by Institution

- (1) A determination of residency status by an institution refers to:
  - (a) The determination reached by the institution at the time of consideration of admission including an initial determination and review of that decision by the institution conducted in accordance with university policy and consistent with this administrative regulation; or
  - (b) A subsequent review of a request for a change in a determination of residency status by the institution whether initiated by the student, the institution, or the Council on Higher Education.
- (2) Each institution shall designate a person or office

at the institution with responsibility for a determination of residency status at that institution.

- (3) Each institution shall designate an administrative office or person with delegated day-to-day responsibility for administration of this administrative regulation. The designation of an administrative office or person shall be in writing setting forth the duties and responsibilities. A copy shall be provided to the Council on Higher Education.
- (4) Each institution shall establish by written policy filed with the Council on Higher Education a residency review committee, which shall be a standing committee, to review, evaluate, and act upon:
  - (a) Student requests for a change in a determination of residency status; or
  - (b) A recommendation of the administrative office or person designated pursuant to subsection (3) of this section, that the residency review committee review, evaluate, and act upon a determination of residency status.
- (5) (a) The residency review committee shall be established by the institution in a manner set forth by the institution in accordance with this section.
  - (b) Membership on the residency review committee shall include at least one (1) faculty and one (1) student member.
- (6) Each institution shall establish an operational policy on the determination of residency status which shall be filed with the Council on Higher Education and which shall include but not be limited to the following:
  - (a) Procedures describing the steps in the initial determination of residency status;
  - (b) Designated responsibilities of institutional officials;
  - (c) Responsibilities of persons requesting admission to the institution or who request a change in residency status;
  - (d) Procedures and requirements pursuant to a residency review committee review of a determination of residency status;
  - (e) Training of institutional officials responsible for a determination of residency status; and
  - (f) The role of the residency review committee.
- (7) The administrative regulation shall be published in its entirety in the institution's catalog and disseminated to all students.
- (8) A student has the responsibility for registering under the proper residency classification which includes but is not limited to the following actions:
  - (a) Raising questions in a timely manner concerning residency classification;

- (b) Making application for change of residency classification in a timely manner with the designated office or person at the institution; and
  - (c) Notifying the designated office or person at the institution immediately upon a change in residency.
- (9) If a student fails to notify institutional officials of a change in residency, institutional officials may investigate and evaluate the current residency status of the student regardless of the source of the information.
  - (10) A student classified as a nonresident shall retain that status until the student is officially reclassified by the proper administrative officials.

**Section 5. Procedures for a Determination of Residency Status**

- (1) Application for a review of a determination of residency status shall be made to the administrative office or person designated by the institution for this purpose pursuant to Section 4 of this administrative regulation.
- (2) The application, with supporting documentation, shall be made by the student not more than thirty (30) calendar days after the first day of classes of the academic term for which a determination of residency status is sought.
- (3) A student may apply for a review of a determination of residency status set out in Section 4 of this administrative regulation only once for each academic term.
- (4) When the Council on Higher Education has information that an institution's determination of residency status may be incorrect, it may require the institution to review the determination of residency status and report the results of that review.
- (5) An application shall consist of:
  - (a) An affidavit authorized by the Council on Higher Education and submitted by the student or the parent of a dependent student asserting the claim for a change in an initial determination of residency status or a change in the determination of residency status and asserting that the documentation and information are accurate and true; and
  - (b) Information and documentation required by an institution and consistent with this administrative regulation which is necessary to substantiate a request for a change in a determination of residency status.
- (6) A student shall be responsible for ensuring that all necessary documentation as required by the institution is submitted with the affidavit. Incomplete applications may be returned to the student

- for completion at the discretion of appropriate institutional officials. The time limit set forth in subsection (2) of this section shall apply to the date an application is received in the office designated to administer this administrative regulation.
- (7) (a) Applications shall be first reviewed by the office or person designated by the institution pursuant to Section 4 of this administrative regulation.
    - (b) Upon a written request by a student appealing the decision of the designated office or person, the residency review committee shall review, evaluate, and act upon that appeal.
    - (c) The student shall be notified in writing, by registered or certified mail of the decision of the administrative officer designated by the institution or the residency review committee as appropriate within forty-five (45) working days after receipt of a person's application for a change.
  - (8) The residency review committee's written decision on residency shall include but not be limited to the following information:
    - (a) Findings of fact;
    - (b) Determination of whether the applicant is deemed to be a "dependent person" or "independent person"; and
    - (c) Whether the applicant is a resident or nonresident, and the reasons consistent with institutional policy and this administrative regulation.
  - (9) An application resulting in a change in a determination of residency from nonresident to resident shall not be made retroactive beyond the academic term in which the request for a change in a determination of residency status is made.
  - (10) If a request for a change in a determination of residency status is denied by the institution, the student shall have the right to appeal such decision to the Council on Higher Education in accordance with Sections 6, 7, and 8 of this administrative regulation.

**Section 6. Procedure for Appeal to the Council on Higher Education**

- (1) The Executive Director of the Council on Higher Education shall designate a person on the staff of the Council on Higher Education to serve as an appeals officer.
- (2) The appeals officer shall review institutional determinations of residency status to determine if the residency review committee's written decision is supported by clear and convincing evidence and is in conformity with this administrative regulation.

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- (3) Upon receipt of notice from the residency review committee of the decision by certified or registered mail, the student has fourteen (14) calendar days in which to appeal that decision to the Council on Higher Education by giving notice in writing to the office or person designated by the institution to administer this administrative regulation.
- (4) An appeal shall be filed in a timely manner if it is received in the office designated by the institution in Section 4 of this administrative regulation within the time established in Section 6 of this administrative regulation.
- (5) Appeals filed more than fourteen (14) calendar days after receipt of the decision of the residency review committee shall be dismissed and the decision of the residency review committee shall be final.
- (6) The office or person designated by the institution pursuant to Section 4(2) of this administrative regulation 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.
- (7)
  - (a) The appeals officer shall consider the written record alone.
  - (b) New information provided by the student that was not available at the time of the determination of residency status by the institution shall result in a decision by the appeals officer to remand the case back to the residency review committee for further action.
  - (c) A remand by the appeals officer because of information not available at the time of the determination of residency status shall require the residency review committee to reconsider the determination of residency status in light of the new information.
  - (d) The residency review committee shall consider the new information or evidence and shall forward a written recommendation to the appeals officer within twenty-one (21) calendar days after receipt of the notice of remand.
  - (e) A copy of the residency review committee recommendation shall be provided to the student.
  - (f) A remand is considered to be part of the appeal to the council and does not constitute a final determination by the appeals officer.

### **Section 7. Determination of the Council on Higher Education Appeals Officer**

- (1) The appeals officer shall review the written record including the residency review committee's written decision and shall make a determination to affirm, modify, or reverse the residency review committee's decision.
- (2) The appeals officer may order the appeal remanded to the residency review committee for further proceedings before the appeals officer renders a recommendation based on a finding that the residency review committee:
  - (a) Failed to consider all information and evidence submitted; or
  - (b) Failed to follow institutional policies and procedures.
- (3) The determination of the appeals officer shall be in writing and shall state the reason for the decision.
- (4) Within twenty-one (21) calendar days after receipt of the student's file, the recommendation of the appeals officer shall be forwarded to the student by certified or registered mail with a copy to the office or person designated by the institution to administer this administrative regulation but a remand shall halt the twenty-one (21) day requirement.
- (5) The student shall have ten (10) calendar days after receipt of the appeals officer's recommendation to file a written appeal by registered or certified mail with the Council on Higher Education requesting a formal adjudicatory hearing.

### **Section 8. Hearing on Exceptions Filed by Student**

- (1) An administrative hearing on a request for a change in a determination shall be held in accordance with the provisions of KRS Chapter 13B and as set forth in the administrative regulation on administrative hearings.
- (2) The administrative regulation shall set forth the procedures for the conduct of the appeal including deadlines and timetables.
- (3) The recommendation of the hearing officer shall be received by the Executive Director of the Council on Higher Education who shall issue a final decision on the appeal:
  - (a) The decision of the executive director shall be in writing and shall set forth the basis on which the decision is based.
  - (b) The decision of the executive director shall be provided to the student within fourteen (14) days after receipt of the hearing officer's decision.



- (c) The executive director shall notify the institution of the final decision at the time the student is notified.
- (4) Upon receipt of the notification of the final decision of the executive director, the student shall have the right to appeal the decision to the appropriate court.

### **Section 9. Charges for Conduct of Administrative Hearings**

The Council on Higher Education, upon receipt of a bill for the conduct of an administrative hearing on an appeal of a determination of residency status, shall assign one-half (1/2) of the cost of the administrative hearing to the institution from which the appeal is taken. The institution shall provide payment to the Council on Higher Education or to the office or administrative entity so designated by the council within thirty (30) days of receipt of the notice of payment.

### **Section 10. New Administrative Regulation Supersedes Previous Administrative Regulation**

This administrative regulation supersedes all previous policies and administrative regulations of the council relating to a determination of residency status of students for tuition assessment purposes. (17 Ky.R. 2557; eff. 4-5-91; Am. 22 Ky.R. 1656; 1988; eff. 5-16-96.)

### **ADMISSION Application and Fee**

Students seeking a graduate degree must obtain Application for Admission (Form A ) from the Office of Graduate Studies. The completed form, along with a \$20.00 (non-refundable) application fee, must be returned to the Graduate Studies Office.

### **Transcript Record**

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.

### **Standardized Examination Scores**

All degree-seeking students must submit appropriate standardized test scores regardless of their undergraduate grade point average. With two or three exceptions, all degree programs require the Graduate Record Examination (GRE) General Test. The exceptions are the Master of Business Administration and the Master of Professional Accountancy which require 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 admission. The admission decision will be based upon both the transcript grade point average and the test score.

Registration materials for the GRE and GMAT are available at the Counseling Service Center and the Office of Graduate Studies.

The GRE General Test is in transition from a paper to a computer-based test. The paper-based test is being phased out and is presently available only three times during the year. The computer-based version of the GRE General Test is available at least once per month and is offered through Sylvan Technology Centers in larger cities of the United States and other countries. Response time for receipt of test scores is much shorter for the computer-based test.

The GMAT is presently offered as a paper-based test four times per year. Effective with the October, 1997, test date, the paper-based test will be replaced by a computer-adaptive test.

### **GAP Score**

Admission decisions are based upon both the undergraduate grade point average and the GRE General Test score. The GAP score is the product of the GRE score x the overall undergraduate grade point average. For example, a GRE score of 1200 and a grade average of 2.75/4.0 would produce a GAP score of 3300. Since GAP is a product of both GRE and grade point average, both the GRE and transcript record are essential for making an admission decision.

### **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. For master's programs requiring the GRE, students must have GAP scores of 3100 for admission for the 1997 academic year and 3200 for



## **18 Admission Requirements: Specialist Degree**

admission for the 1998 academic year. The required GAP score will continue to increase by 100 points per year until it reaches 3500.

Students seeking admission to the Master of Arts in Interdisciplinary Administration have two options: (1) submit GRE scores and meet GAP requirements or (2) submit GMAT scores of at least 400 or an overall undergraduate grade point average of 2.75.

Admission to the Master of Professional Accountancy requires a 2.75 overall grade point average and a minimum GMAT score of 450.

Admission to the Master of Business Administration program is based upon the undergraduate grade point average and the GMAT score. (See College of Business Administration.)

### **Admission 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.)
- D. Present to the office of Graduate Studies three letters of recommendation from graduate faculty and professional associates.

### **Transient Students**

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**

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.

### **Applicants From Non-Regionally Accredited Institutions**

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 GAP score of 3500, 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 the 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) GRE General Test Score, (4) evidence of ability to communicate in English (a minimum of 525 on the TOEFL), and (5) evidence of adequate financial resources.

After the international student has submitted these 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.

## 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.

Appeal requests for admission requirements for the specialist degree program should follow the procedure outlined for the master's 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 401G) 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 six 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.
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 be at 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 six-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.

## **20 Independent Study Courses**

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 a part of any graduate program.

### **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 education 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), specialist projects (699) and dissertation (799), a grade of "X" must be reported for each enrollment prior to submission of the approved thesis, specialist project, or dissertation. The grade of "X" may be changed after the written product has been accepted.

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 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 minor (if applicable)
- (4) 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



## **22 Senior Earning Graduate Credit**

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 6 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) meet admission requirements (see required GAP scores for admission to graduate studies and to the program of interest) (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.

### **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 the 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, specialists, or dissertation 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), 700 (project) or 800 (dissertation) 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 matriculation courses does not result in a grade or credit toward any degree or non-degree program.

### **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: communication, economics, English, folk studies, history, humanities, interdisciplinary administration, psychology, and sociology.

**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, En-



glish 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, consumer and family science, theatre, economics, English, folk studies, French, geography, German, government, health, history, 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 Business Administration.** See College of Business Administration.

**Master of Professional Accountancy.** See Department of Accounting.

**Master of Public Administration.** See Department of Government.

**Master of Science in Criminal Justice in Cooperation with Eastern Kentucky University.** See Department of Sociology.

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

**Joint and Cooperative Doctoral Programs.** Western participates in a joint doctoral program in education with the University of Kentucky and in cooperative doctoral programs in education, aquatic biology, and in fossil fuel chemistry with the University of Louisville.

## 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 400G-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 Special-ist 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.

**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 400G-level coursework allowed. All students pursuing this degree must complete EdFnd 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.

## 24 Specialist in Education

**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.

### Criminal Justice 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 18 hours of criminal justice and Western provides 18 hours of supportive coursework. For further information on the criminal justice program see the Department of Sociology.

### Biology and Chemistry Cooperative-Doctoral Program with the University of Louisville

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 the 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 comple-

tion 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.

### **Education Cooperative Doctoral Program With the University of Louisville**

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 of Educational Leadership.

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 in 18 hours of courses from the two Universities within three consecutive semesters. For further information on this cooperative program, refer to program information under Department of Educational Leadership.

### **Education Joint Doctoral Program 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 University. 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. A Kentucky resident who has gained admission into one of these selected out-of-state programs can enroll and pay the respective state's resident tuition. A catalog listing of the programs is available in the Office of Graduate Studies.

**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

Theatre and Dance

**DEGREES OFFERED**

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

**Master of Public Administration**

**Master of Science in Criminal Justice**  
(Cooperative with Eastern Kentucky University)

**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)



**DEPARTMENT OF ART**

**IVAN WILSON CENTER**  
**ROOM 441**  
**(502) 745-3944**  
**FAX (502) 745-5932**  
**E-Mail: [leo.fernandez@wku.edu](mailto:leo.fernandez@wku.edu)**  
**<http://www.wku.edu/art.html>**

*Leo Fernandez, Head*

**Professor:** *L. Fernandez*

**Associate Professor:** *P. Trutty-Coohill*

**Assistant Professor:** *B. Oglesbee*

**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, Psy 511, 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, Psy 511, 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).

## 28 Department of Art

### 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 are 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 judgements about individual works of art. Graduate students will be required to display advanced research skills.

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## DEPARTMENT OF COMMUNICATION AND BROADCASTING

### IVAN WILSON CENTER

ROOM 130

(502) 745-3296

FAX (502) 745-3295

E-Mail: [comm.brdcst@wku.edu](mailto:comm.brdcst@wku.edu)

<http://www.wku.edu/CommBrdcst/>

*Larry Winn, Head*

### Graduate Faculty

**Professors:** *R. Capps, J. Hoover, C. Kell, R. O'Connor, D. Wicklander, L. Winn*

**Associate Professors:** *L. Caillouet, C. Garmon, K. Payne*

**Assistant Professors:** *S.O. Hastings, T. Likes, G. Musambira, S. Ray*

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

### Admission Requirement

Admission to the M.A. Communication requires that the undergraduate GPA times the GRE score must equal a minimum of 3200 points.

### Master of Arts in Communication

This degree prepares students for a variety of careers and pursuits in which advanced communication study is helpful — especially management and personnel relations, group communication situations including decision-making, and other areas requiring specialized communication skills. This degree also helps prepare students for further graduate study and college teaching.

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 communication 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.

During the first semester 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 33 hour program consists of the following:

- (1) Students must maintain a GPA of 3.0 or above.
- (2) 30 credit hours of coursework including :
  - A) SCOM 503 - Foundations of Communication Concepts (Required)
  - B) At least 18 hours at the 500 or above level.
- (3) Three hours in a Research Tool (must earn a "B" or above.)

SCOM 400G Qualitative Research or

SCOM 440G Quantitative Research

A Research Tool is defined as skill or competency in research related to the student's particular field of study. Must be completed prior to enrollment in 21 hours of coursework. The Research Tool not selected may be included in the 30 credit hour portion.

A two year tentative Graduate Course Schedule (day, evening, weekend) is available upon request from the department.

### **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 (SCOM)**

#### **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. (Required)

#### **510 Strategies for Teaching Speech Communication. 1 hour.**

Designed to improve the teaching performance of SCOM 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.

#### **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. Included are (01-Organizational Communication); (02 - Employee Communication); (06 - Training and Development). Different subject areas are occasionally introduced. (SCOM 560) may be repeated for credit under different topics.

## **30** Department of Communication and Broadcasting

### **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.

### **562 Special Topics in Intercultural Communication. 3 hours.**

Provides graduate students an opportunity for an in-depth study of special topics in intercultural communication. One or two topics will be chosen for study during the course. These topics will be selected by the instructor based on special availability of resources, appropriateness for current intercultural conditions, and interest of students.

### **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. (No more than 12 hours of 400G level classes are allowed.)**

### **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 Department 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.**

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**DEPARTMENT OF ENGLISH**

**CHERRY HALL  
ROOM 135**

**(502) 745-3043**

**FAX (502) 745-2533**

**E-Mail: [mary.pitts@wku.edu](mailto:mary.pitts@wku.edu)**

**<http://www.wku.edu/English/>**

*Mary Ellen Pitts, Head*

**Graduate Faculty**

**Professors:** *C. Allmon-Mosby, N. Davis, R. Eckard, J. Flynn, J. Glaser, J. Hagaman, J. Heldman, W. Hellstrom, J. Millichap, M. E. Pitts, J. Spurlock, F. Steele, J. Survant*

**Associate Professors:** *L. Crouther, L. Dill, E. Oakes, N. Roberts, K. Schneider, M. Spears*

**Assistant Professors:** *L. Davies, N. Goldfarb, K. Green, T. Hovet, E. Johnson, D. LeNoir, J. Olmsted, L. Uklenkott*

**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). In addition to Graduate Studies requirements, admission to a concentration in literature include 27 hours of undergraduate English with a GPA of 3.0 or above, 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, 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, up to 9 of the 24 hours may consist of appropriate courses from related fields (foreign language, speech, drama, journalism, reading).

## 32 Department of English

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 I. 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 translation.
- 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. May be repeated once with a different topic.
- 587 Wordsworth and Keats. 3 hours.**  
The major works of these two writers and an evaluation 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.

**594 Contemporary Fiction. 3 hours.**

Selected major figures and their works. Consideration of movements, influences, developments since 1945.

**596 Seminar in American Writers. 3 hours.**

Topics will vary. Selected works or writers. May be repeated once with a different topic.

**597 Special Topics in English. 3 hours.**

Seminar on topics in literature, language, or composition. Course may be repeated with different content.

**598 Advanced Directed Study. 2 or 3 hours.**

Supervised student research on literary or linguistic topics.

**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 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 classical 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. 484G.

**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.

**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 major poems, the styles, and the poetic intent of the most important American poets from Poe to the present.

**494G Kentucky Literature.** 3 hours.  
Survey of literary people and places in Kentucky, including detailed study of several works of Kentucky writers.

**495G Southern Literature.** 3 hours.  
Intensive study of distinctively Southern characteristics as reflected in the works of major writers with strong cultural and psychological ties to the American South. The development of these characteristics will be examined in historical and social contexts.

**496G Women's Poetry.** 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.

**497G Women's Fiction.** 3 hours.  
An examination of the themes, aesthetic importance, and historical context of canonical and non-canonical fiction 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  
E-Mail: john.parker@wku.edu  
http://www.wku.edu/govt.htm**

*John D. Parker, Head*

**Professors:** *C. Chelf, G. Masannat, J. Parker, J. Petersen, J. Uveges*

**Associate Professor:** *C. Hamilton*

**Assistant Professors:** *J.D. Droddy, 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 MPA program serves three primary categories of students: (1) those preparing for careers in the public sector who possess little or no practical experience in governmental employment; (2) those experienced public administrators who seek additional academic and practical knowledge as a means to increase their administrative potential; and (3) members of the U.S. military service who seek a master's degree to enhance their management potential for command officer status and professional 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 441G Public Prsnl Adm

Govt 442G Govt Fincl Adm

Govt 501 Meth of Pol Inq

Govt 538 Ethics and Bureaucracy

Govt 540 Seminar in Pub Sec Org

Govt 545 Seminar in Pub Pol Anlys or Govt 546  
Pub Pol Eval

Govt 598 Internship in Pub Adm., Govt 505 Wash  
Internship, or Govt 597 Prof Sem in Pub Adm  
(selected in consultation with advisor)

Electives (15 hours)

See MPA Advisor for list of approved electives

**Graduate Courses in Government**

**501 Methods of Political Inquiry. 3 hours.**

Analysis and description of the logic and procedures necessary for valid political inquiry.

**505 Washington Internship and Academic Seminars. 3 hours.**

An individualized internship and/or seminar experience in Washington, D.C. tailored to the student's area of interest. Placement is determined by the department academic advisor in collaboration with Washington professionals.

**510 Problems in National Government. 3 hours.**

Research, reports, and discussion of selected aspects of national government.

**511 Seminar in State Government. 3 hours.**

Selected problems of state governments and their subunits.

**538 Ethics and Bureaucracy. 3 hours.**

Examines the ethical side of public decision making and the values or ends the American political system is designed to promote and protect.

**540 Seminar in Public Sector Organizations. 3 hours.**

Analysis of behavior and problems of public organizations in democratic environments. Links societal values to administrative structure and behavior.

**543 Politics and Administration in Rural Communities. 3 hours.**

A study of political and administrative institutions, processes and issues associated with local governments in rural communities.

**545 Seminar in Public Policy Analysis. 3 hours.**

Theoretical approaches to the analysis of public policy, policy-making, and policy implementation and to such topics as health and welfare, poverty, education, and urban affairs.

**546 Public Policy Evaluation. 3 hours.**

Seminar examining the various approaches and techniques for evaluating public programs.

**549 Special Problems in Public Administration. 3 hours.**

Seminar approach to contemporary problems in public organizations reflecting political/managerial developments; topics reflect both student and professional needs.

**580 Directed Study. 3 hours.**

Faculty guidance of student research in one or more selected fields of political science.

**597 Professional Seminar in Public Administration. 3 hours.**

Principles and techniques in the practice of public administration. Case studies and contact with field professionals will be emphasized.

**598 Internship in Public Administration. 3 hours.**

Work experience in a public sector or non-profit agency combined with faculty direction.

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

**403G Field Studies in Politics. 1 to 4 hours.**

Practical problems of political research. Students will be directed through the design and execution of a major field study.

**410G Seminar in National Government. 3 hours.**

Research, reports, and discussion of selected aspects of national government.

**411G Seminar in State Government. 3 hours.**

Research, reports, and discussion of selected aspects of state governments and their subunits.

**412G Kentucky Government and Politics. 3 hours.**

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.

**415G Federalism and Public Policy. 3 hours.**

Study of the nature and impact of American federalism, including historical, fiscal, economic and political significance.

**417G Local and Regional Governments. 3 hours.**

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.

**424G Administrative Law. 3 hours.**

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.

**440G Elements of Public Administration. 3 hours.**

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.

**441G Public Personnel Administration. 3 hours.**

A systematic survey of public personnel administration in 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.

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**DEPARTMENT OF HISTORY**

**CHERRY HALL**

**ROOM 200**

**(502) 745-3842**

**FAX: (502) 745-2950**

**E-Mail: [richard.troutman@wku.edu](mailto:richard.troutman@wku.edu)**

**<http://www.wku.edu/History/>**

*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, J. Thompson*

**Assistant Professors:** *K. Abbott, R. Dietle, P. Minter*

**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 may be 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 Adviser 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) 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.

**505 Cultural Diversity in American History. 3 hours.**

A topical study of cultural diversity in American history and its influence on the society's social, political, and economic institutions. Designed to assist teachers in incorporating into their classes knowledge about cultural diversity.

**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.**

A study of nineteenth century American thought and its relation to our social, economic, and political institutions.

**526 Social and Intellectual History of the U.S.: Twentieth Century. 3 hours.**

A study of twentieth century American thought and its relation to our social, economic, and political institutions.

**527 Social and Intellectual History of Europe: Nineteenth Century. 3 hours.**

An examination of political, social, economic, and religious thought of nineteenth century Europe and its relation to the society of the period.

**535 Historiography. 3 hours.**

A survey of historical writing from ancient times to the present, with emphasis on European and American historians of the nineteenth and twentieth centuries.

**554 Discovery and Interpretation of Local History. 3 hours.**

Materials, methodology and techniques employed in local history research and its integration with other fields.

**569 Cooperative Education in History. 3 hours.**

Practical experience in a supervised work situation with a cooperating library, museum, archives, or other appropriate historical organization.

**590 Advanced Individual Study. 3 hours.**

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.

**599 Thesis Research and Writing. 6 hours.****600 Maintaining Matriculation. 1 to 6 hours.****605 Seminar in Ancient History. 3 hours.**

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.

**606 Seminar in European History. 3 hours.**

Graduate seminar in such diverse areas as the Middle Ages, Renaissance, Reformation, and Nazi Germany. May be repeated once with a different topic.

**615 Seminar in Non-Western History. 3 hours.**

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.

**619 Seminar in United States Diplomatic Relations. 3 hours.**

A study of issues, problems, and accomplishments in American foreign relations during the twentieth century. May be repeated once with a different topic.

**622 Seminar in Western United States History. 3 hours.**

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.

**630 Seminar in United States History. 3 hours.**

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.

**631 Seminar in Kentucky History. 3 hours.**

A study of political, economic, social, and cultural developments in Kentucky from pioneer days to the present.

**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 Ancient Egypt. 3 hours.**

A study of ancient Egyptian civilization with attention to the re-discovery of ancient Egypt by modern scholars and the development of the disciplines of Egyptology.

**419G Tudor-Stuart England. 3 hours.**

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.

**422G The French Revolution and Napoleonic Era. 3 hours.**

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.

**425G Modern Germany. 3 hours.**

A survey of German history from the early nineteenth century to the present.

**426G Hitler and Nazi Germany. 3 hours.**

A detailed study of German history between 1933 and 1945, emphasizing the political, economic, social, diplomatic, and military aspects.

**428G England Since 1914. 3 hours.**

A detailed study of the political, intellectual, cultural, and socio-economic developments that transformed England into a welfare state and her empire into a commonwealth of nations.

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### **440G Colonial History of the United States. 3 hours.**

The founding and development of the colonies, emphasizing political, social, cultural, and economic institutions.

### **441G The Formative Period, 1776-1815. 3 hours.**

A study of the Confederation, the making of the Constitution, and the development of the nation through the War of 1812.

### **442G The Jacksonian Era, 1815-1850. 3 hours.**

A detailed study of social, political, and economic events from the War of 1812 through the War with Mexico.

### **443G Civil War and Reconstruction, 1850 1877. 3 hours.**

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.

### **444G The United States, 1870-1900. 3 hours.**

A study of industrialization, expansion, immigration, urbanization, organized labor movements, and populism in late nineteenth century America.

### **445G American Legal History to 1865. 3 hours.**

A survey of the development of American law and its relationship to political, economic, and social trends in antebellum American society.

### **446G American Legal History Since 1865. 3 hours.**

A survey of the development of American law and its relationship to political, economic, and social trends in modern American society.

### **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.

### **492G The History of Canada. 3 hours.**

A survey of Canada's history and heritage, with special emphasis on Canadian-American relations and interdependency.



**DEPARTMENT OF JOURNALISM**

GORDON WILSON HALL  
 ROOM 300 (502) 745-4143  
 FAX (502) 745-5835  
 E-Mail: [journalism@wku.edu](mailto:journalism@wku.edu)  
<http://www.wku.edu/Journalism/jourhome.htm>

*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  
 E-Mail: [thomas.baldwin@wku.edu](mailto:thomas.baldwin@wku.edu)  
<http://www.wku.edu/MLIS/home.htm>

*Thomas P. Baldwin*, Head

**Graduate Faculty**

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

**Associate Professors:** *E. Brady, C. Collins, K. Egloff, N. Love, R. Padilla, M.A. Williams*

**Assistant Professors:** *G. Briscoe, J.A.K. Njoku, R. Seitz, 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).

A 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 be at 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 Baude-laire 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 languages,) the principles and causative factors involved, and the nature of resulting developments.

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### 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.

### 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.

**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, *Encyclopedie*, 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 French Canadian 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 Survey of the German Lyric. 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 a GPA below 3.0 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.

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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, including Folk Studies 577 and 578 and two folklore electives.

One course from a related discipline may be 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 Public Folklore. 3 hours.**  
History, methods, and issues of public folklore.
- 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 Music. 3 hours.**  
An examination of diverse forms of traditional American musical expression.
- 577 Folklore Theory. 3 hours.**  
Folklore scholarship, its historical development, and its principal bibliographical materials.



**578 Folklore Fieldwork. 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 folk 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 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 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. Crosslisted with Consumer and Family Sciences 446G.

**447G History of Architecture Interiors III. 3 hours.**  
Analysis of styles in architectures 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. Crosslisted with Consumer and Family Sciences 447G.

**462G Folklore and Medicine. 3 hours.**  
Examines the role of traditional culture in shaping attitudes and behavior related to sickness, health, and healing. Institutional, alternative, and informal medical settings are discussed. Crosslisted with Public Health 462G.

**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 and 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.

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.

**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.**  
Includes archaeological survey, site excavation mapping and recording techniques and cataloging procedures. Excavation is usually conducted on prehistoric Indian sites.

**448G Visual Anthropology. 3 hours.**  
This course examines photography and film as tools and products of cross-cultural research with special emphasis on cultural and political biases presented through visual means.

**496G Directed Study. 3 hours.**  
Available to superior students who wish to conduct individual, intensive reading and research in specific areas of anthropology in close cooperation with supervising faculty. Submission of such projects to student sections of regional professional meetings is encouraged.



## DEPARTMENT OF MUSIC

### IVAN WILSON CENTER

ROOM 351

(502) 745-3751

FAX (502) 745-6855

E-Mail: [john.duff@wku.edu](mailto:john.duff@wku.edu)

<http://www.wku.edu/Music/>

*John A. Duff, Head*

### Graduate Faculty

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

**Associate Professors:** *J. Carmichael, M. Kallstrom,  
D. Kelsey, M. Scott*

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

The graduate program in music functions to provide continued development of (1) individual students 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 511.

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, and 407G, each three hours; 402G, 403G, 405G, and 417G, 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.

**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.

**518 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 I. 2 to 3 hours.**

Prerequisite: Theory 201.

A course in sixteenth-century polyphony. A study of the melodic and contrapuntal principles of style and form in sixteenth-century choral music. Students compose two- and three-part compositions with and without text.

**403G Counterpoint II. 2 to 3 hours.**

Prerequisite: Counterpoint I.

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.

**440G Choral Union. 1 hour.**

**441G Choir. 1 hour.**

**444G Orchestra. 1 hour.**

**445G Chamber Singers. 1 hour.**

**448G Band. 1 hour.**

**449G Chamber Music. 1 hour.**

**450G, 451G Applied Music Secondary. 1 hour.**

Applied study intended for beginners and requires no audition.

**453G, 454G Applied Music Principal. 2 hours.**

Applied study assumes graduate-level proficiency.

**471G Jazz Ensemble. 1 hour.**

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**DEPARTMENT OF PHILOSOPHY AND RELIGION**

**CHERRY HALL  
ROOM 300 (502) 745-3136,  
FAX (502) 745-5261  
E-Mail: PhilRel@wku.edu  
<http://www.wku.edu/Philosophy/>**

*Alan B. Anderson, Head*

**Graduate Faculty**

## 46 Department of Philosophy and Religion

**Professors:** *A. Anderson, 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 interdepartmental 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 535, 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.

Options available in the MA in Humanities program include:

(1) A concentration in the history of ideas of a particular cultural epoch. The student electing this option will select one of three periods in the West (Ancient and Medieval, Renaissance through Enlightenment, or Nineteenth and Twentieth Centuries) or an approved period in another culture. The research for the essay or thesis must also be in this period and must demonstrate a knowledge of the unifying relationships which exist among the various disciplines in the humanities.

(2) A concentration in a particular discipline. In the context of the broad background provided by the core, all coursework outside the core must be in one of the following disciplines: English, French, German, history, philosophy, religious studies, or Spanish.

The MA in Humanities program is administered by the Office of the Dean, Potter College of Arts, Humanities and Social Sciences. Inquiries should be addressed to that office.

### Graduate Courses in Philosophy

**500 Humanities Seminar. 3 hours.**  
Problems in and approaches to interdisciplinary study.

**501 Readings in Philosophy. 3 hours.**  
Philosophic classics or readings in a selected area of philosophy.

**502 Seminar in Ancient and Medieval Philosophy. 3 hours.**  
Topics in ancient and medieval philosophy. May be repeated with different topics.

**503 Seminar in Modern Philosophy. 3 hours.**  
Philosophers or topics in modern philosophy. May be repeated with different topics.

**504 Seminar in Contemporary Philosophy. 3 hours.**  
Philosophers or topics in contemporary philosophy. May be repeated with different topics.

**598 Humanities Essay. 3 hours.**

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

**600 Maintaining Matriculation. 1 to 6 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 Existentialism. 3 hours.**  
Readings from both the philosophical and literary sources of existentialism. The works of Kierkegaard, Nietzsche, Sartre, Jaspers, Heidegger, Kafka, Camus, Marcel, and Tillich are included.

**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 Logics. The course will emphasize Computer Assisted Instruction (CAI) 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.

**510 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.

**420G Religious Studies as a Discipline. 3 hours.**

The questions, interpretations, and methods which shape the academic study of religion.

**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 structure 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**

**GRISE HALL 101**

**(502) 745-3759**

**FAX (502) 745-6493**

**E-Mail: paul.wozniak@wku.edu**

**http://www.wku.edu/Sociology/sochome.htm**

**Paul R. Wozniak, Head**

**Graduate Faculty**

**Professors:** *F. Baali, E. Bohlander, T. Dunn, J. Faine, A. Goetting, J. Grimm, K. Kalab, J. Krenzlin, P. Wozniak*

**Associate Professors:** *S. Groce, B. Tuthill*

**Assistant Professors:** *J. Kanan, A. Onyekwuluje, M. Pruitt*

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

Master of Science in Criminal Justice (Cooperative Program with Eastern Kentucky University)



## **48** Department of Sociology

### **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.

Applicants must meet the Graduate Studies GAP score requirement. 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 receive an assistantship, applicants must meet the minimum Graduate Studies GAP score requirement.

Both Plan A (thesis) and Plan B (applied research/examination) 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 400G 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. Socl 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 may be taken at the 400G 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 Socl 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.

### **Master of Science in Criminal Justice (Cooperative program with Eastern Kentucky University)**

Western Kentucky University participates in a cooperative master's program in criminal justice with Eastern Kentucky University. In this joint graduate program, Eastern provides 18 hours of professional criminal justice coursework and Western provides 18 hours of supportive coursework primarily through the Department of Sociology. The entire program can be completed on Western's campus.

The study of criminal justice is viewed as an applied social science education endeavor. At the master's level, the College of Law Enforcement at Eastern Kentucky University aims to prepare personnel for decision-making and policy-making positions in policing, corrections and juvenile services, and loss prevention.

Objectives of the graduate program are based upon the assumption that policy and decision-making in a modern democratic society require a broad academic experience, innovative thinking, including theoretical foundations of the field, appropriate research methods, and principles of administration applicable to the field.

A major focus is to demonstrate that problems of both a public and private nature associated with crime and delinquency must be viewed within the context of a democratic society rather than an isolated system. This includes analyses of major elements within criminal justice - police, courts and corrections - as highly related elements in a total system in which decisions in one



sphere may have consequences in other spheres. It is therefore expected that graduates will be:

1. conversant with the theoretical and legal principles implicit in criminal justice administration;
2. knowledgeable of the essential research contributions in the field;
3. capable of research analysis appropriate to the field; and
4. competent to assume administrative and instructional responsibilities in an area of criminal justice.

### **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.  
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 nonlinear 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 import 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.

## **50** Department of Sociology

### **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 content 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, 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.

**DEPARTMENT OF THEATRE AND DANCE**

IVAN WILSON CENTER

ROOM 114

(502) 745-5845

FAX (502) 745-5879

E-Mail: [william.leonard@wku.edu](mailto:william.leonard@wku.edu)<http://www.wku.edu/Theatre/>*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, evaluation of influences, movements, and productions. Reading and individual study. (See English 553)

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

**The following 400-level Theatre 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.**

**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. (See English 455)

**456G Elizabethan Drama.** **3 hours.**  
Intensive study of the immediate predecessors and contemporaries of Shakespeare. (See English 456)

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

**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 I.** **3 hours.**  
(See English 482)

**491G Puppet Theatre.** **3 hours.**  
Puppets, muppets 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.

# 52 College of Business Administration

## COLLEGE OF BUSINESS ADMINISTRATION

*Robert W. Jefferson, Dean*

### DEPARTMENTS

**Accounting and Finance**

**Economics and Marketing**

**Management and Information Systems**

### DEGREES OFFERED

Master of Business Administration  
Master of Professional Accountancy  
Master of Arts in Economics  
Master of Arts in Education (Economics Major or Minor)

### MASTER OF BUSINESS ADMINISTRATION (MBA)

E-Mail: COBA@wku.edu

### MISSION

The Bowling Green College of Business Administration prepares undergraduate and graduate students with a well-rounded education, including theoretical foundations and concepts with appropriate business application. In fulfilling the mission, the college also seeks to involve and assist regional businesses and organizations through expertise of students, faculty and staff.

#### **COBA programs focus upon:**

- \* **functional interdependence and the global environment of business**
- \* **values conducive to personal and professional career development**
- \* **development of critical-thinking and problem solving skills and knowledge needed for ethical decision-making**
- \* **knowledge and application of information systems and current technology**
- \* **effective listening, speaking and writing**
- \* **lifelong learning and quality improvement**

In fulfilling the college and university missions, a highly qualified faculty emphasize effective teaching and active student learning. Faculty demonstrate competency through continuous intellectual activity in business, applied or instructional research with relevant professional service, activities and involvement with business, industry and government organizations.

The MBA is an interdisciplinary program that provides professional education for successful careers at the higher levels of decision making. The program emphasizes accounting, computer information systems, economics, finance, management, and marketing as the major focus. Students also study contemporary issues in business and are given the opportunity to take elective courses at WKU and through the Statewide MBA program. Coursework includes an integration of communication skills, the management of technology, ethics, international business, and globalization.

The purpose of the MBA is to provide relevant, innovative, dynamic business graduate education to a diverse market including but not limited to individuals with full-time jobs and full-time students representing business and non-business backgrounds. The MBA makes use of current technology both in the delivery of the program and the expectations of the students.

### **Admission Requirements**

Application to the MBA program at Western Kentucky University involves the following steps and requirements:

- A. Completion of graduate application form, a list of three references (one of whom can attest to potential to do graduate work), submission of an official copy of the undergraduate degree transcript and an official copy of a GMAT score taken within the last five years. Students will be restricted to taking foundation courses only until admitted to the program.
- B. Minimum undergraduate overall grade point average of 2.5/4.0, a minimum GMAT score of 400, and minimum score of 1050 based upon the GMAT score plus the product of the overall undergraduate GPA multiplied by 200. Candidates with business and/or other work experience are preferred.
- C. Applicants who have no prior academic background in basic business are required to enroll in one or more foundation courses (BA 500, 501, 503, 505, 507, 509) as specified by the MBA director.
- D. Applicants who fail to meet one of the three admission criteria (B) above may qualify for admission by retaking the GMAT and by earning 1050 points or by taking at least three foundation courses (C above), as specified by the MBA director, and by earning grades of A or B.

These overall minimum requirements establish eligibility only to enter the MBA program. Unique circumstances will determine any exception to the general requirements.



## 54 Program Content

Any request for waiver of MBA requirements must be presented to the Appeal Committee consisting of the Assistant or Associate Dean, one academic Department Head, and one graduate faculty member in the College of Business Administration appointed by the Dean.

### Program Content

Students who pursue the MBA are expected to complete 24 hours of core courses including: BA 510 Organizational Theory, BA 511 Applied Microeconomic Theory, BA 512 Problem Solving, Data Modeling, and Managerial Decisions, BA 513 Information Technology and Strategy, BA 515 Managerial Accounting, BA 517 Advanced Marketing, BA 519 Advanced Managerial Finance, BA 580 Contemporary Issues in Business, and BA 590 Strategic Business Concepts & Applications. Students may choose 6 semester hours of electives from the various functional areas of business. Electives may also be taken outside the College of Business Administration with approval of the MBA Director.

**Note:** No more than 6 semester hours may be selected from 400G courses; No more than 6 semester hours of transfer work may be applied toward this program.

### Graduate Courses in Business Administration (BA)

#### 500 Management Dynamics. 3 hours.

Crosslisted: MGT 513

An introduction to organizational analysis and to the understanding and management of behavior in organizations.

#### 501 Survey of Economic Theory. 3 hours.

See ECON 501.

#### 503 Information Systems and Decision Science.

3 hours.

A survey of management information systems concepts and decision science theory. Emphasis on using information systems and decision support models to enhance managerial decision making.

#### 505 Survey of Accounting Principles. 3 hours.

Concepts and principles governing financial and managerial accounting. Emphasis on issues associated with the preparation and interpretation of information presented in external financial statements. Includes an introduction to management's use of internally generated accounting information.

#### 507 Marketing Management. 3 hours.

Concepts, terms, and functions important to marketing, consumer behavior, product planning, pricing, and public policy implications of marketing strategies.

#### 509 Managerial Finance. 3 hours.

Nature and scope; topics in financial structure and the cost of capital.

#### 510 Organizational Theory. 3 hours.

Prerequisite: BA 500 or the equivalent.

Contemporary theory and research on organizational structure and design that has relevance for practical problems of designing and managing organizations.

#### 511 Applied Microeconomic Theory. 3 hours.

See ECON 502.

#### 512 Problem Solving, Data Modeling, and Managerial Decisions. 1.5 hours.

An applications-oriented course designed to help students envision, design, conduct, interpret, and report statistically oriented analyses applicable to managerial decision making. Topics such as the design of data generation, modeling, regression, process control and evaluation, and survey errors will be covered.

#### 513 Information Technology and Strategy. 3 hours.

Prerequisite: BA 503 or the equivalent.

A critical examination of the strategic uses of information systems technology; the resources (computers, networks, software, data, and people); and alternative approaches to managing them effectively.

#### 515 Managerial Accounting Concepts & Applications. 3 hours.

Prerequisite: BA 500 or the equivalent.

A review of the managerial accounting concepts and techniques used by managers in planning, performance evaluation, and decision making. Emphasis on the application of concepts and techniques in the analysis of cases.

#### 517 Advanced Marketing. 3 hours.

Prerequisite: BA 507 or the equivalent.

Marketing principles, policies, and operations; quantitative and behavioral sciences as related to the theory, philosophy, and operation of integrated marketing systems.

#### 519 Advanced Managerial Finance. 3 hours.

Prerequisite: BA 509 or the 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.

#### 533 Managing Database Applications. 3 hours.

Prerequisite: BA 503 or the equivalent.

Theories and concepts employed in database management systems and the efficiencies and economics of such systems. Topics include the design and building of relational databases, information storage and retrieval, structured query language (SQL), and the development of database queries.

#### 534 Electronic Commerce. 3 hours.

Prerequisite: BA 503 or the equivalent.

Focuses on the current issues of performing business electronically. Topics include web page development, the Internet as an infrastructure, electronic payments and funds transfer, on-line advertising, mobile computing and security issues.

#### 540 Statistical Research Methods. 3 hours.

See ECON 506.

- 541 Survey of Public Finance.** **3 hours.**  
See ECON 581.
- 542 International Economics.** **3 hours.**  
See ECON 591.
- 543 Forecasting.** **3 hours.**  
See ECON 594.
- 544 Labor and Human Resource Economics.** **3 hours.**  
See ECON 595.
- 550 Bank Management.** **3 hours.**  
Prerequisite: Admission to the MBA Program and completion or waiver of BA 509.  
A comprehensive analysis of issues involving the financial management of financial institutions. Emphasis on financial decision making focusing on such issues as asset/liability management, balance sheet management, and the management of risk/return tradeoffs in financial intermediaries, especially commercial banks.
- 551 Investments and Portfolio Management.** **3 hours.**  
Prerequisite: Admission to the MBA Program and completion or waiver of BA 509 and completion of or currently enrolled in BA 519.  
A comprehensive examination of investment opportunities with emphasis on the risk-return relationships, economic and market forces affecting financial markets, security valuation and analysis, and portfolio formation and management.
- 560 Contemporary Human Resource Management.** **3 hours.**  
Prerequisite: Graduate standing.  
An advance course focusing on the current critical issues of human resource management. Includes discussions on recruitment and selection techniques, performance appraisals, training and development, compensation, labor relations, occupational safety, and employee rights.
- 571 Services Marketing.** **3 hours.**  
Prerequisite: BA 507 or the equivalent.  
Focuses on the marketing of intangible products by discussing strategic implications for marketing mixes (product, price, place, and promotion) and consumer perceptions and expectations.
- 572 Consumer Behavior.** **3 hours.**  
Prerequisite: BA 507 or the equivalent.  
Examines theories and concepts associated with consumer decision making for products and services. Emphasis placed on the development of marketing strategies which will satisfy consumer wants and needs.
- 580 Contemporary Issues in Business.** **1.5 hours.**  
Emphasizes issues pertinent to an understanding of today's business environment. Topics embrace the cross-functional, global, and technical aspects of business. May be repeated for credit.

**590 Strategic Business Concepts & Applications.** **1.5 hours.**

Concepts and business strategies focusing on viewing the organization as an integrated whole. Use of Integrated Management Exercises (IMEs) involving student teams working on a business simulation or actual business project aimed at challenges and opportunities facing a business.

**DEPARTMENT OF ACCOUNTING AND FINANCE**

**GRISE HALL**

**Room 500**

**(502) 745-3895**

**FAX: (502) 745-5953**

**E-Mail: ACCT@wku.edu**

**<http://www.wku.edu/Accounting/welcome.htm>**

*Jack Hall, Head*

**Graduate Faculty**

**Professors:** *C. Aldridge, J. Colbert, J. Hall, C. Hays, J. Philhours*

**Associate Professors:** *I. Chhachhi, N. Magner, H. Manakyan, S. Thapa, S. White*

**Assistant Professors:** *M. Lee, M. Ross*

**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

## 56 Department of Accounting and Finance

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 Requirements:

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 will be necessary before the individual can 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)

##### 500 Advanced Financial Accounting Theory and Practice

##### 510 Advanced Accounting Information Systems and Controls

##### 520 Seminar in Advanced Managerial Accounting\*

##### 530 Seminar in Tax Research and Planning

##### 540 Advanced Auditing Standards and Applications

##### 550 Seminar in Accounting for Nonprofit Organizations\*

\* Select a minimum of one of these courses.

**Non-accounting 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.**

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.

Philosophy and development of auditing; audit efficiency; risk assessment; sampling; and analytical procedures; the ethical and legal environment of auditing; organizing and managing the audit firm under differing management styles; internal auditing; and careers in education.

**550 Seminar in Accounting for Nonprofit Organizations. 3 hours.**

Prerequisite: Admission to MPA program.

Examines accounting concepts and techniques which aid nonprofit organizations in financial reporting, planning, and control.

**598 Independent Study in Accounting. 3 hours.**

Prerequisite: Admission to MPA program.

Directed study and research in selected topics in accounting. Prerequisites are determined by the faculty member directing the study.

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**DEPARTMENT OF ECONOMICS AND MARKETING**

**GRISE HALL  
ROOM 431**

**(502) 745-2249**

**FAX: (502) 745-3190**

**E-Mail: ECON@wku.edu**

**<http://www.wku.edu/Economics/econdept.htm>**

*John Wassom, Head*

**Graduate Faculty**

**Professors:** *M. Borland, D. Fugate, B. Goff, R. Howsen, Y. Kim, S. Lile, R. Milliman, R. Pulsinelli, J. Ramsey, J. Wassom, T. Wisley*

**Associate Professors:** *W. Davis, J. Gotlieb, D. Myers, T. Noser, C. Roberts, L. Turley, M. Valinezhad*

**Assistant Professors:** *M. Carey, F. Lassk*

**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 Microeconomic 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 coursework 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.**

Crosslisted BA 501.

An overview of basic concepts in micro and macroeconomics. 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.



## 58 Department of Economics and Marketing

### 502 Applied Microeconomic Theory. 3 hours.

Crosslisted BA 511.

Prerequisite: BA 501 or the equivalent.

Fundamental concepts useful for analysis of firm, public policy, and individual decisions. Topics include demand and supply, revenue and costs, pricing, and information and 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.

Crosslisted BA 540.

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.

Crosslisted BA 541.

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 Microeconomic 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.

Crosslisted BA 542.

Survey of trade theory and evidence, status and effects of tariffs and other trade restrictions, and balance of payment issues.

### 594 Forecasting. 3 hours.

Crosslisted BA 543.

Prerequisites: BA 511, BA 540, and ECON 503

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.

Crosslisted BA 544.

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.

### 434G The Economics of Poverty and Discrimination. 3 hours.

Study of the economic nature, origins, and public policy aimed at addressing poverty and discrimination in the economy. Topics include social security, food stamps, and equal employment opportunity.

### 440G American Industry: Structure, Performance, and Policy. 3 hours.

Applications of microeconomics to the structure, behavior, and performance of American industry in view of public and private social goals. Coverage includes public policy toward monopoly.

### 464G Introduction to Mathematical Economics. 3 hours.

The application of mathematics to economic analysis covering functions, optimization techniques, differential and difference matrix algebra, and game theory.

### 465G Regression and Econometric Analysis. 3 hours.

Presents the use of statistical methods in measuring and testing economic relationships. Emphasizes the use of ordinary least squares in estimating single equation models. Topics included are dummy variables, lagged variables, and classic regression problems.

### 475G Urban and Regional Economics. 3 hours.

Considers the economic relationships within a between economic and political units in the U.S. Emphasis is on applied analysis dealing with characteristics of a region, the urban center, and employment.



**491G History of Economic Thought. 3 hours.**

The origin and development of economic thought with emphasis on the contribution of political economy to the behavioral sciences.

**496G International Monetary Economics. 3 hours.**

A systematic analysis of monetary aspects of international trade and finance.

**Graduate Courses in Marketing**

**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.

**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.

**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 MANAGEMENT AND INFORMATION SYSTEMS**

**GRISE HALL  
ROOM 200**

**(502) 745-5408**

**FAX: (502) 745-6376**

**E-Mail: MGT@wku.edu**

**<http://www.wku.edu/management/welcome.htm>**

**Graduate Faculty**

**Professors:** *G. Post, A. Rahim, R. Reber, J. Stallard*

**Associate Professors:** *G. Buntzman, L. Johnson, Z. Mohamed, B. Sullivan, R. Wolfe*

**Assistant Professors:** *T. Dillon, C. Graham*

**Graduate Courses in Management**

**513 Management Dynamics. 3 hours.**

See BA 500

**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: 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.

# **60 College of Education and Behavioral Sciences**

## **COLLEGE OF EDUCATION AND BEHAVIORAL SCIENCES**

*Carl Martray*, Dean

### **DEPARTMENTS**

Consumer and Family Sciences

Educational Leadership

Physical Education and Recreation

Psychology

School of Integrative Studies in  
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 II--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  
FAX (502) 745-2084  
E-Mail: CFS@wku.edu  
http://www.wku.edu/CFS/**

*Carl Hall, Head*

**Graduate Faculty**

**Professors:** *L. Fong, M. Jenkins*

**Associate Professor:** *M. Casto*

**Graduate Degrees**

Courses in Consumer and Family Sciences (formerly home economics) may constitute a minor in the Master of Arts in Education (Secondary) or an area of emphasis in the Master of Arts in Education (General.)

**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 evaluating 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 economic 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 evaluation 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 evaluation 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 evaluation.

**575 Individual Study in Home Economics and Family Living. 3-6 hours.**

Evaluation of home economics investigations. Includes planning and completing 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 Evaluations 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 evaluation of personnel programs in food systems; training applicants for optimum utilization of human resources.

## 62 Department of Consumer and Family Science

### 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)

### 598 Special Topics in Home Economics and Family Living. 1 to 6 hours.

Prerequisite: Consent of instructor.

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

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

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## DEPARTMENT OF EDUCATIONAL LEADERSHIP

TATE C. PAGE HALL  
ROOM 403

Telephone: (502) 745-4997

E-Mail: [ed.leadership@wku.edu](mailto:ed.leadership@wku.edu)

<http://www.wku.edu/EdLead/aweb3.htm>

*Stephen B. Schnacke*, Head

### Graduate Faculty

**Professors:** *R. Adams, D. Cline, D. Hayden, T. Meredith, S. Schnacke, V. Sheeley, F. Stickle, W. Traugott, J. Wilder*

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

**Assistant Professors:** *J. Fiene, D. Nims, M. O'Phelan, 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 application materials to the program at which time the counseling faculty evaluates the applicant's potential for developing effective relationships with clients. Acceptance through 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. This degree program is not intended for individuals working in Kentucky public schools, and cannot lead to a recommendation for Rank II pay status.

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) may be 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.

**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\*,  
EI Ed 503\*\*, Psy 510, or Psy 511.  
**\*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- Introduction to 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- Introduction to Counseling  
Cns 551--Classroom Guidance  
Cns 552--Testing and Assessment  
Cns 554--Group Counseling  
Cns 558--Counseling Theories  
Cns 562--Counseling Adolescents  
Cns 566--Sec. 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 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- Introduction to 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--Technology in Student Affairs  
Cns 590--Practicum  
Cns 595--Internship (6 hours)



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**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 Counseling)**

Applicants to this 60-hour program must first meet Graduate Studies GAP score (GPA x GRE) requirements for admission. In addition, the student must have either a score of 1350 on the Graduate Record Examination, **OR** a minimum grade point average of 2.9 on the last 30 hours of coursework in the undergraduate degree program. If neither of these requirements is met, the student may submit, in writing, a waiver petition and then meet in person with the counseling faculty. Courses in options listed below may not be altered without permission of the student's advisor and the counseling faculty.

Course requirements are:

#### **A. Counseling Core:**

Ed Fn 500— Research  
Psy 512— Seminar in Exp. Design  
Cns 550— Introduction To Counseling  
Cns 555—Testing Assessment in Counseling  
Cns 554—Group Counseling  
Cns 555—Social and Cult. Diversity  
Cns 556—Developmental Career Counseling  
Cns 557—Human & Family Development  
Cns 558—Theories of Counseling  
Cns 559—Techniques of Counseling  
Cns 560—Prof. Studies in Counseling and Marriage and Family Therapy  
Cns 567—Mental Health Counseling  
Cns 590—Practicum\*  
Cns 595—Internship (6 hours)\*\*

**\*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 must 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 - Professional Counseling:**

One of the following:  
Cns 561—Counseling Children  
Cns 562—Counseling Adolescents

Cns 563—Counseling Adults  
Cns 564—Counseling the Elderly

One of the following:  
Cns 553—Community Resources in Counseling  
Cns 651—Readings in Contemporary Cns  
Cns 652—Research in Counseling

**Electives:** 12 hours taken from Cns, Psy, Soc, & other Behavioral Science courses approved by advisor

##### **Option II - Marriage and Family Therapy:**

Cns 580--Family Life Studies  
Cns 582--Sex Therapy  
Cns 583—Marriage Therapy  
Cns 584—Counseling Violent & Dsy. 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 Introduction to Counseling. 3 hours.**

The history and overview of the counseling profession, current trends and settings for counselors. Professional roles and functions, including school counselors, professional counselors, and marriage and family therapists. Introduction to professional organizations, legal and ethical issues, and certification and licensure issues.

#### **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 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 Developmental Career Counseling. 3 hours.**

Integrates the career counseling process into the life span from early childhood through older adulthood. Career development theories; career assessment instruments; educational resources; placement; follow up and evaluation. Interrelationships among work, marital, family, and other life roles including multicultural and gender issues.

**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. 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.

**560 Professional Studies in Counseling and Marriage and Family Therapy. 3 hours.**

Historical, philosophical, and societal dimensions of professional counseling and marriage and family therapists in relationship to life style diversity. Legal and ethical issues in professional counseling and marriage and family therapy.

**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 Across the Life Span. 3 hours.**

Prerequisite: Cns 558.

The identification, treatment plans and referral procedures for emotional concerns across the life span in the mental health counseling field. Principles of etiology, diagnosis, treatment planning and prevention of mental and emotional disorders and dysfunctional behavior.

**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 "nontraditional" 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.

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### **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 Sex Therapy. 3 hours.**

Counseling skills and intervention techniques for counselors in training who will be working with couples and individuals with a broad range of sexual concerns.

### **583 Marriage Therapy. 3 hours.**

Prerequisite: 12 hours of counseling courses including Cns 580. Knowledge, skills, and techniques of couples therapy including premarriage, marriage and divorce.

### **\*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.**

Changing roles and responsibilities of parents, child-rearing practices, diverse parenting situations and decision making about parenthood. Changing family system and effects of family sys-

tem on parenting. Provide skills in working with parents and parenting issues for both educators and counselors.

(\*These courses may be 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. Students 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.**

### **651 Readings in Contemporary Counseling. 3 hours.**

Significant books and research articles related to counseling theory, theory application, and innovative techniques.

### **652 Research in Counseling. 1 to 3 hours.**

Research problems relating to the organization and administration of counseling 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 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 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.**

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 the coordinator of the doctoral program 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 an admission recommendation based upon the submitted material and a personal interview with the candidate.

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 18 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-12 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 elementary, 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 may be 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 an appropriate 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 Edu-

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cation. 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.

#### **612 Seminar in Community College Teaching. 3 hours.**

Prerequisite: PSY 611 or permission of instructor.

Study of issues and topics critical to the teaching success of potential community college faculty.

#### **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 Administration**

#### **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.**

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.

**694 Seminar in Educational Administration. 3 hours.**

Emphasis on current practices in administering special programs.

**695 School Surveys. 3 hours.**

Gathering and interpreting data; evaluating educational programs and facilities; predicting future enrollment; and presenting results to school authorities.

**696 Advanced Theory in Education Administration. 3 hours.**

Prerequisite: Permission of instructor. Theoretical approaches to the study of education administration and leadership.

**697 Research in Administration and Supervision. 1 to 3 hours.**

Special projects in administration and supervision.

**699 Specialist Project. 6 hours.**

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

**798 Internship in Administration and Supervision. 1 to 6 hours.**

Prerequisite: Permission of Advisor. Internship or other directed field experiences in administration or supervision.

**799 Dissertation Research. 1 to 8 hours.**

Prerequisites: Admission to candidacy in Cooperative Doctoral Program in Educational Administration. Research undertaken to complete requirements for Doctor of Education in Educational Administration.

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### DEPARTMENT OF PHYSICAL EDUCATION AND RECREATION

ACADEMIC-ATHLETIC BUILDING #2

ROOM 316

(502) 745-3347

FAX (502) 745-6043

E-Mail: [pe.rec@wku.edu](mailto:pe.rec@wku.edu)

<http://www.wku.edu/PERec/>

Burch Oglesby, Head

#### Graduate Faculty

**Professors:** *T. Crews, C. Daniel, W. Kummer, A. Little, B. Oglesby*

**Associate Professor:** *S. Spencer*

**Assistant Professors:** *J. Askins, J. Cole, R. Deere, F. Wyatt*

**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 minoring 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: REC 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.**

Application of physiological principles of motor activity. Emphasis on improving instructional practices.

##### 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.**
- 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.



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### **411G Therapeutic Recreation for the Physically Disabled. 3 hours.**

Prerequisites: Rec 410 or instructor's permission.  
Acquaint the student with the characteristics of the physically disabled. To develop insight into their recreational needs and the programs to meet these needs.

### **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.

### **450G Introduction to Commercial Recreation and Tourism. 3 hours.**

Prerequisites: Rec 200, 300, 302, and 306.  
Commercial recreation and tourism, including the establishment, supervision, and operation of areas and facilities.

### **451G 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.**

A course designed to cover the use of micro computer software with emphasis on recreation related applications.

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## **DEPARTMENT OF PSYCHOLOGY**

### **TATE C. PAGE HALL**

**ROOM 276 (502) 745-2695**

**FAX (502) 745-6934**

**<http://www.wku.edu/psychology/>**

*John O'Connor, Head*

### **Graduate Faculty**

**Professors:** *J. Cangemi, L. Clark, J. Craig, R. Greer, C. Layne, L. Layne, C. Martray, S. McFarland, R. Mendel, L. Metze, R. Miller, J. O'Connor, W. Pfohl, R. Poe, D. Roenker, E. Shoenfelt*

**Associate Professors:** *J. Bilotta, J. Bruni, C. Eison, E. Jones, S. Kuhlenschmidt, E. Lemerise, S. Mutter, J. Wilder*

**Assistant Professors:** *D. Frieske, C. Myers, A. Norman, F. 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 competi-

tive. 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  
 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

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to pursue doctoral studies in specialties not included 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 511 Psychology of Learning 3 hours
- Psy 521 Advanced Child Psychology 3 hours
- Psy 552 Advanced Social Psychology 3 hours
- Psy 580 Advanced Physiological Psychology 3 hours

#### Educational Foundations (9 hours)

- EI Ed 503 Organization of the Elementary School Curriculum or
- EI ED 603 Advanced Seminar Elementary

Curriculum 3 hours

Rd Ed 519 Foundations of Reading Instruction 3 hours

Psy 540 Behavior Problems of Children and Adolescents 3 hours

#### 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

##### 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

#### 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

Psy 592 Psychology Internship 6 hours

Psy 699 Specialist Project (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.**

Prerequisites: Three hours of undergraduate statistics and graduate standing or permission of instructor.

Develops proficiency in use of statistical software for mainframe and personal computers. Emphasis on SPSS. Data base management for the PC also addressed. (fall and summer 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. Understanding the principles of experimental design and the application 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 analysis of variance, the analysis of covariance, and non-parametric statistics.
- 514 Program Evaluation. 3 hours.**  
Prerequisite: Psy 512 or equivalent.  
Examination of program accountability. Emphasizes all phases of evaluation. Also covers decision making processes.
- 515 Program Evaluation Laboratory. 1 hour.**  
Corequisite: Psy 514.  
Student will conduct a program evaluation as a part of an evaluation 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 emphasis 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 problem encounter measures.
- 520 Psychology of Individual Differences. 3 hours.**  
Research and theory in developmental aspects of behavior from the prenatal 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 major theories and research techniques in the area.
- 540 Behavior Problems of Childhood and Adolescence. 3 hours.**  
The major forms of psychopathology in children and adolescents, 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 Introduction to Professional Psychology. 3 hours.**  
Roles and responsibilities of professional psychologists emphasizing 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 desiring to work with mental health problems in children and adolescents.
- 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. Topics 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 WISC, WAIS and other individually administered tests used as basic tools in education, occupational 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 interpretation 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 techniques, construction and psychological measurement instruments.
- 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 content areas of this concentration.
- 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.



## 78 Department of Psychology

### **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.**

### **611 Adult Development and Learning. 3 hours.**

Psychological factors affecting adult development, learning, and motivation. Emphasis on how diverse academic/career/experiential backgrounds and objectives affect classroom environments, teaching strategies, and testing and evaluation.

### **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.**

Designed to provide theory and practice to mental health professionals. Theories and methods of mental health consultation in depth.

### **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: 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: 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: 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.**

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.**

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.**

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.**

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.**

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.**

Identification of gifted children and adults with emphasis on educational programs for the maximum development of giftedness.

**440G Abnormal Psychology. 3 hours.**

Prerequisite: 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 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: 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 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: 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.

**455G Introduction to the Clinical Practice of Psychology. 3 hours**

Prerequisites: PSY 440 or 450 (both recommended.)  
Survey of theories, models, and techniques in clinical, counseling, and school psychology. Includes emphasis on professional ethics for psychologist. Field experiences in appropriate off-campus settings may be required. Students are responsible for arranging their own transportation to designated or assigned sites.

**460G Methods and Research in Social Psychology. 3 hours.**

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: Psyc 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.**

Faculty directed research and/or readings in psychology.

**495G History and Systems of Psychology. 3 hours.**

Prerequisite: 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.**

Major concepts and issues in psychology. Directed reading, guest lectures, field trips, and/or oral reports by students are utilized.

**SCHOOL OF INTEGRATIVE STUDIES  
IN TEACHER EDUCATION**

All graduate programs in Teacher Education are currently being revised. Students enrolling at Western in Fall 1997 or after should discuss program changes with an advisor from the appropriate program.

**TATE C. PAGE HALL  
ROOM 328  
(502) 745-5414  
FAX: (502) 745-6474  
E-Mail: siste@wku.edu  
<http://www.wku.edu/SISTE/>**

**James Becker, Director  
Vicki Stayton, Assistant Director and Head,  
Division of Instruction**

**Graduate Faculty**

**Professors:** *J. Becker, B. Burch, S. Cooke, E. Counts, S. Evans, F. Kersting, J. Koper, R. McKenzie, R. Otto, R. Pankratz, J. Pierce, J. Roberts, R. Roberts, A. Ruff, H. Simmons, R. Smith, V. Stayton, J. Vokurka, M. Wallace.*

**Associate Professors:** *T. Daniel, J. Ferguson, C. Foley, B. Kacer, N. Minix, B. Stallion, T. Wilson.*

**Assistant Professors:** *J. Benton, B. Boulware, D. Collins, B. Erdman, J. Etienne, L. Flynn, K. Matthew, J. Moore, J. Schliefer, K. Terry, P. Wilson.*

**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 programs of study 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, 519 or 540.
  - (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, 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 (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 School of Integrative Studies in 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.

The performance-based program of study requires 36 semester hours of coursework and 240 clock hours of

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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.

In addition to Graduate Studies admission requirements, 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.

By the final semester of coursework, the candidates must pass the national exam in speech-language pathology. Currently, a score of 600 is a passing score. Candidates who do not earn a score of 600 must successfully complete a written exam administered by the program area faculty.

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 meet Graduate Studies Admission requirements and 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 3.0 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.

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 may be 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 School of Integrative Studies in 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 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 under graduate 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. All professional education courses must be at the graduate level.
6. Coursework taken by correspondence is not accepted.

**Note:** With prior advisor approval, a maximum of 12 hours of professional development credit may be applied to the program requirement.

### **Rank II (Elementary Education: K-4, 5-8, 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)



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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: SEC 444G, SEC/LME 445G, SEC 484G, SEC 528-542 SEC 545, SEC 570, RDG 524, RDG 519, EDAD 585, EDAD 598, CNS 551, CNS 566, GTE 536, GTE 537, MGE 421G, PSY 422G, PSY 421G, LME 448G, EDFN 667, EXC 516, MGE 571.  
(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 offers Rank I Programs in Elementary, Secondary, and Interdisciplinary Early Childhood Education which lead to the Rank I salary classification.

#### General Guidelines:

1. Rank I classification shall require the completion of a minimum 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 Program

#### Rank I (Elementary Education)

The following courses and their distribution will 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 the advisor.)

- A. Select three to six hours from the following courses in consultation with the advisor: SEC 444G, SEC 528, SEC 544, SEC 598, 570W, SEC 580, GTE 536, PSY 519.
- B. Select additional courses from either Section A or B in consultation with advisor: SEC/LME 445G, GTE 537, CNS 551, CNS 566, EDAD 585, EDAD 598, EDAD 677, EDFN 500, EDFN 576, EDFN 577, RDG 519, RDG 524, MGE 571, 421G, PSY 590, PSY 421G, 422G, LME 488G.
- 3. Related Non-Professional Education Courses - 12 to 18 hours required: Select courses in consultation with advisor.

**Rank I (Interdisciplinary Early Childhood Education)**

The program is designed to prepare 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 to P). This certification qualifies individuals to work with children from birth to entry into the primary program. This includes teaching children in kindergarten or other programs for five-year-olds if those programs are operated separately from the primary program. 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 admissions requirements, applicants must complete the IECE application process through the School of Integrative Studies in 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 or their equivalent prior to entering the Rank I program or complete them as program deficiencies.

The performance-based program of study requires 33 semester hours of coursework and 240 clock hours of field experiences. Approximately one-half of the field experience hours are completed as a part of ongoing coursework. The culminating experience of the program is a summer internship. Program requirements are as follows:

**Rank I**

Interdisciplinary Early Childhood Education, Birth through Kindergarten

- A. Professional Education (21 semester hours)  
EXC 521, EXC 522, EXC 523, EXC 524, EXC 481G, EXC 486G, EL ED 509
- B. Content Area Courses (12 semester hours)  
EXC 520, CFS 577, SOC WK 436G, PSY 645
- C. Prerequisites  
ELED 360 or EXC 331, and EXC 330 or EXC 516

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 may be 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 as independent study or workshop. (May be repeated by Business Education Majors.)

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### **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 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.**

### **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.

Corequisites: EXC 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.**

Prerequisite: 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.**

Prerequisite: 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.**

Prerequisite: 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 (re) habilitation. (spring)

**516 The Child with Exceptionalities: 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 Interdisciplinary Early Childhood Education. 3 hours.**

Prerequisites: CFS 577, EXC 481G or with instructors permission.

Rationale for IECE (B-5), service delivery options, teaming issues, and atypical development specific to sensory, physical, and cognitive disabilities. Thirty clock hours field experiences required.

**521 Assessment in Interdisciplinary Early Childhood Education. 3 hours.**

Prerequisites: CFS 577, EXC 481G, EXC 520.

Assessment process specific to children B-5, both with and without disabilities, and their families. Thirty clock hours field experiences required.



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### **522 Family-Centered 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-centered services. Thirty hours of field experiences are required.

### **523 Curriculum/Methods in Early Childhood Special Education. 3 hours.**

Prerequisites: EXC 521, 522, ELED 509.

Selection/development of curricula materials for and planning, implementation, and evaluation of intervention with children B-5 who have disabilities.

### **524 Internship in Interdisciplinary Early Childhood Education. 3 hours (Repeatable for a total of 6 semester hours credit.)**

Prerequisites: EL ED 509, EXC 486G, EXC 523. With the advisor's permission EL ED 509, EXC 486G or EXC 523 may be taken concurrently.

Supervised work with children B-5, both with and without disabilities, 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 individuals with disabilities 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 children with disabilities, parents, and teachers - an independent research project is required.

### **535 Seminar: Curricular Options for Individuals With Moderate and Severe Disabilities. 3 hours.**

Curricula and programs for individuals with moderate and severe disabilities are examined. The course focuses on a philosophy of providing a continuum of services.

### **580 Diagnostic Procedures in Speech Disorders. 1 hour.**

Prerequisite: 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.**

Prerequisite: 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.

**The following 400-level EXC 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 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)



**417G Assessment and Curriculum I for Students With Moderate/Severe Disabilities. 3 hours.**

Prerequisite: EXC 516.

Characteristics, problems, and needs of individuals with moderate to severe disabilities. Curriculum and assessment models are evaluated; intervention strategies for both cognitive and social skills are designed. Field experiences in public schools and/or other appropriate settings are required in this course. Students are responsible for arranging their own transportation to designated sites.

**418G Assessment and Curriculum II for Students With Moderate/Severe Disabilities. 3 hours.**

Prerequisites: EXC 516, 417G.

This course builds upon EXC 417G. Topics include routine/emergency medical procedures, physical management/handling, postural/motor dysfunction, recreation, life skills, transition programming, and modifications for individuals with language/vision/hearing impairments. 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.

**421G Special Education and the Law: Interpretation and Application. 3 hours.**

Prerequisite: EXC 516.

Focus is on laws and regulations and the education of children and youth with disabilities. Laws and regulations, the developments that led to them, and their implications for schools, students, and parents are discussed, analyzed, and applied to practical situations.

**422G Collaboration and Inclusion in School and Community Settings. 3 hours.**

Prerequisite: EXC 516.

The intent of the course is to create a dialogue regarding the inclusion of students with moderate to severe disabilities in regular classroom settings. Emphasis will be placed on the development of concepts and the acquisition of knowledge relating to issues, processes and procedures which facilitate collaboration across disciplines and enhance opportunities for inclusion. Field based experiences are required.

**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 individuals with disabilities. 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.

**480G American Sign Language. 3 hours.**

Prerequisites: EXC 330, EXC 516, EXC 418G.

Principles, methods and techniques for communicating with individuals who sign. Includes development of expressive and receptive sign skills, manual alphabet, numbers, and sign vo-

cabulary. An overview of syntax, grammar and culture is provided. Field experiences in appropriate settings away from campus are required in this course. Students are responsible for arranging their own transportation to designated or assigned sites.

**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, pragmatics, 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 Diagnostic Procedures for 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 Communication Systems. 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.

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### **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 Media 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 multimedia 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 filing rules. Laboratory sessions in all areas covered.

#### **407G Literature for Young Adults. 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.

**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. Crosslisted 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. Crosslisted 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. Crosslisted 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. Crosslisted 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.

**570 Workshop in Middle School Education. 3 hours.**

Activity-centered on a relevant area of study.

**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 School. 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 Middle Grades. 3 hours.**

Crosslisted with SEC 444G.

**445G Introduction to Educational Technology. 3 hours.**

Crosslisted 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.

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### **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 type-writing, 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.  
Crosslisted 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.  
Crosslisted 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 education 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.  
Crosslisted 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.  
Crosslisted 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.**

Crosslisted 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 in the Secondary School. 3 hours.**

Principles of psychology and methodologies for teaching both the general and specialized reading skills in the secondary grades.

**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.  
Crosslisted with LME 445G.

**470G 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.



# **94 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**

**Physics** (minor only)

**DEPARTMENT OF AGRICULTURE****ENVIRONMENTAL SCIENCE AND  
TECHNOLOGY BUILDING****ROOM 269****(502) 745-3151****FAX (502) 745-5972****E-Mail: [gordon.jones@wku.edu](mailto:gordon.jones@wku.edu)****<http://www.wku.edu/Agriculture/>*****Gordon F. Jones, Interim Head*****Graduate Faculty****Professors:** *D. Coffey, E. Gray, L. Hughes,  
R. Johnson, G. Jones, J. Martin, J. Worthington***Associate Professors:** *A. Bedel, L. Brown,  
J. Rudolph, D. Stiles***Assistant Professor:** *N. Speer***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**

In addition to meeting Graduate Studies admission requirements, 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.

Required Core for the Master of Science in Agriculture:

AGRI 491G	3 hours
AGRI 528	3 hours
AGEC 561*	3 hours
AGRI 590	3 hours
AGRI 598	<u>3 hours</u>
	15 hours

\*Not required for thesis students

**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.

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The remaining hours, in both cases, will be taken in professional 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 mammaryogenesis, 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 intake, 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.**  
Selected problems in planting, management, production, and varieties of deciduous fruits and nuts.
- 413G Plant Propagation. 3 hours.**  
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.**  
Production and utilization of vegetable crops with emphasis on environmental factors influencing growth and handling of vegetables.
- 421G Forage Crops. 3 hours.**  
Prerequisite: Ag 350.  
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.**  
Prerequisite: Agro 350, or permission of instructor.  
Distribution, improvement, morphology, culture, harvesting, and utilization of field crops.
- 443G Physiology of Reproduction in Domestic Animals. 3 hours.**  
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.**  
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.**  
Prerequisite: AnSc 448.  
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.
- 453G Soil Formation, Classification and Mapping. 3 hours.**  
Prerequisite: Agro 350.  
Soil origin; methods of soil survey; classification schemes; profile description, mapping and interpretation information, with emphasis on Kentucky soils.
- 454G Land-Use Conservation. 3 hours.**  
Prerequisite: AgEc 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.
- 460G Agricultural Policy. 3 hours.**  
Prerequisite: AgEc 360.  
The place of agriculture in the national economy; objectives of agricultural policy; appraisal and proposed agricultural programs; legislation for economics action.
- 461G Advanced Farm Management. 3 hours.**  
Prerequisite: AgEc 361, or permission of instructor.  
Identification, analysis, and solution of problems of farm organization and operation. Case studies and field trips to situation farms in South Central Kentucky. Lecture, 3 hours.
- 463G Agricultural Finance. 3 hours.**  
Prerequisite: AgEc 361, or permission of instructor.  
Farm finance problems including capital requirements, investment decisions, budgeting techniques, etc. Lending agencies and alternative means of acquiring capital.
- 468G World Food Development. 3 hours.**  
Problems and opportunities in feeding an ever-increasing population. Assessment of world food production, poverty, businesses and cultures; ways of increasing production.
- 470G Agricultural Materials Handling. 3 hours.**  
Prerequisite: AgMc 170, or permission of instructor.  
Basic principles, design options, and economic considerations for hay and grain handling systems and for silage and manure systems. Field trips as needed.
- 471G Organization and Planning in Agricultural Education. 4 hours.**  
Organization and program planning for classes in post-high school vocational agriculture and technical programs for young and adult farmers.

## 98 Department of Agriculture

### 473G Interactions in the Cave and Karst Environment. 3 hours.

Prerequisites: BIOL 120, 121 or equivalent.  
Discussion of biological diversity, groundwater and humanity's role in utilizing and conserving the unique features of karst areas and use of these areas in teaching.

### 475G Selected Topics in Agriculture. 1 to 3 hours.

Prerequisite: Permission of instructor.  
Special topics on significant problems and scientific developments of current interest in agriculture. Lecture and assignments are variable with credit. May be repeated with change in content.

### 482G Development of Agricultural Resources for Rural Recreation. 3 hours.

Developing facilities for recreational enterprises. Topics include enterprise selection, program planning, site selection, financing, and construction.

### 491G Data Analysis and Interpretation. 3 hours.

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.

### 493G Sustainable Agriculture. 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.

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## DEPARTMENT OF ALLIED HEALTH AND HUMAN SERVICES

### ACADEMIC COMPLEX

Office 207

(502) 745-2427

FAX: (502) 745-6869

E-Mail: [ruby.meador@wku.edu](mailto:ruby.meador@wku.edu)

<http://www.wku.edu/AHHS/>

*Ruby F. Meador, Head*

Assistant Professor: *JD May*

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.

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## DEPARTMENT OF BIOLOGY

### THOMPSON COMPLEX-NORTH WING

ROOM 201

(502) 745-3696

FAX: (502) 745-6856

E-Mail: [ferrebr@wku.edu](mailto:ferrebr@wku.edu)

<http://www.wku.edu/Biology/>

*Blaine R. Ferrell, Head*

### Graduate Faculty

**Professors:** *G. Dillard, L. Elliott, B. Ferrell, M. Houston, R. Hoyt, R. Prins*

**Associate Professors:** *K. Balak, C. Rinehart*

**Assistant Professors:** *K. Crawford, C. Davis, K. Doerner, J. Jack, S. Jacobshagen, D. McElroy, Z. Murrell, M. Stokes*

**Degrees Offered:** Master of Science in Biology, Master of Arts in Education (Biology major or minor). 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.

### 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 core courses are as follows:**

### Non-Thesis Option

BIOL 483G-Multivariate Methods in Biology  
BIOL 501-Biological Perspectives  
BIOL 502-Biological Instrumentation  
BIOL 503-Contemporary Research in Biology  
BIOL 516-Investigations in Biology  
BIOL 598-Graduate Seminar



**Thesis Option**

BIOL 483G-Multivariate Methods in Biology  
 BIOL 501-Biological Perspectives  
 BIOL 502-Biological Instrumentation  
 BIOL 503-Contemporary Research in Biology  
 BIOL 598-Graduate Seminar  
 BIOL 599-Thesis Research and Writing

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 402G Evolutionary History of Plants, 408G Invertebrate Zoology, 430G Evolution: Theory and Process, 456G Ichthyology, 459G Mammalogy, 460G Parasitology, 464G Endocrinology, 470G Pathogenic Microbiology, 472G Applied and Environmental Microbiology, 483G Multivariate Methods in Biology, 485G Field Biology, 515 Ecological Concepts, 530 Animal Behavior, and 591 Aquatic Biology

**Cell/Molecular Biology:**

BIOL 400G Plant Physiology, 404G Techniques and Theory of Electron Microscopy, 407G Virology, 411G Cell Biology, 412G Cell Biology Lab, 446G Biochemistry, 447G Biochemistry Lab, 450G Recombinant Gene Technology, 467G Biochemistry II, 495G Molecular Genetics, 540 Developmental Genetics, 560 Advanced Topics in Cell Biology, 562 Advanced Topics in Biochemistry, 563 Enzymology, 564 Enzymology Lab, 570 Comparative Immunology, 588 Nucleic Acids.

The degree requires a thesis based upon original research conducted under the direction of a departmental graduate faculty member. A non-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.

**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. Stu-

dents following this option must have all Biology courses approved by the appropriate advisor in the Department of Biology.

**Doctor of Philosophy**

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.

**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. (fall)

**502 Biological Instrumentation and Techniques. 3 hours.**

Theory and application of modern, currently used instrumentation and techniques. Lecture, two hours, lab, 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. (spring, summer and fall)

**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 Developmental Biology. Recent review and research articles will be assigned for lecture and discussion. Lecture. (fall, even years)

## 100 Department of Biology

### 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. (spring, summer and fall)

### 591 Aquatic Biology. 4 hours.

Physical, chemical, and biological aspects of bodies of freshwater, with emphasis on water as a biological environment. Lecture, two hours; and laboratory, four hours. (summer, odd years)

### 598 Graduate Seminar. 1 hour.

Oral presentation on selected 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. (spring, summer and fall)

### 675 Advanced Topics in Biology. 1 to 3 hours.

Selected topics in Biology. (On Demand)

**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)

### 402G Evolutionary History of Plants. 4 hours.

Prerequisites: BIOL 222, 223.

An examination of our current understanding of the evolutionary relationships of plants, based upon morphological, molecular, and anatomical evidence. Emphasis will be placed upon how the hypotheses of relationships effect our understanding of plant form and function. Lecture three hours; laboratory, two hours. (spring, 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, even 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, odd years)

### 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)

### 415G Ecological Methods. 2 Lecture, 8 Laboratory every 2 weeks.

Prerequisite: BIOL 315, or permission of instructor.

A course emphasizing the collection, manipulation and analysis of ecological data using a variety of techniques in aquatic and terrestrial habits. Lecture, one hour; laboratory, four hours. (fall, odd)

**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)

**459G Mammalogy. 3 hours.**

Prerequisites: BIOL 120, 121.  
Taxonomy, life history and ecology of the mammals. Laboratory work includes field studies and collection and study of specimens in the laboratory. Lecture two hours; laboratory two hours. (fall of even-numbered 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.  
A study of the 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 study of 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)

**473G Interactions in the Cave and Karst Environment. 3 hours.**

Prerequisites: BIOL 120, 121 or equivalent.  
Discussion of biological diversity, groundwater and humanity's role in utilizing and conserving the unique features of karst areas and use of these areas in teaching. Course does not count toward the M.S. Options. (summer)

**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. (spring)

**485G Field Biology. 3 hours.**

An intensive field experience on a specific biological topic, preceded and followed by introductory and evaluative sessions. (summer)

**495G Molecular Genetics. 3 hours.**

Prerequisite 450G.  
A study of the molecular basis of genetics and heredity of prokaryotic and eukaryotic organisms. Lecture. (fall)

**DEPARTMENT OF CHEMISTRY****THOMPSON COMPLEX-CENTRAL WING  
ROOM 444**

**(502) 745-3457**

**FAX: (502) 745-5361**

**E-Mail: [lowell.shank@wku.edu](mailto:lowell.shank@wku.edu)**

**<http://www.wku.edu/Chemistry/index.html>**

**L. W. Shank, Head**

**Graduate Faculty**

**Professors:** *T. Green, D. Hartman, C. Henrickson, W. Pan, E. Pearson, J. Reasoner, J. Riley, L. Shank, D. Slocum, C. Wilkins*

**Associate Professors:** *D. Dahl, R. Holman*

**Assistant Professors:** *E. Conte, M. Kubasik, L. Pesterfield*

## 102 Department of Chemistry

**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

In addition to Graduate Studies admission requirements, candidates for admission to this program must submit evidence of satisfactory completion of undergraduate curricula 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, Biochemistry and Teacher.

**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 coursework 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 coursework 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 425G or Chem 541  
Chem 452G or Chem 550

Students who have completed 3 core courses at the 500 level with a B average may elect to take Chem 516 as part of the 24 semester hour coursework 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

### Teacher Option

Students must complete at least one course in four of the six areas of chemistry offered by the Department and at least two of the four courses must be at the 500 level. The core courses that may be used to satisfy this requirement are as follows:

Analytical 435G, 531  
Biochemistry 446G, 447G  
Coal Chemistry 590, 591  
Inorganic 420G, 520  
Organic 425G, 541  
Physical 452G, 550

No more than 12 of the required 30 hours of graduate work in chemistry can be at the 400G level. Other chemistry courses which can be taken include:

Analytical 430G  
Biochemistry 467G  
Physical 450G  
Other: 475G History of Chemistry, and 516 Investigations in Chemistry - maximum of 3 hours credit.

**Other requirements for the Teacher Option are as follows:**

- \* Each student must complete at least 7 courses in the above lists.
- \* All students must complete 3 hours of CHEM 580 (which counts for the research tool and does not count toward the 30 hours requirement), 2 hours of CHEM 598, and 6 hours of CHEM 599 or 596.

In the investigation course, Chem 580, the student must review the current chemical literature, prepare a written report, and prepare a laboratory research proposal appropriate for a M.S. degree in chemistry. The student must then present a well documented plan of laboratory research that could be used to gather the data needed to support hypotheses offered in his/her research proposal. The student must also defend this plan in a formal meeting of his/her M.S. Committee.

Chemistry 598 requirements are to be satisfied according to the current departmental policy.

Chemistry 599 requirements are to be satisfied by preparing two comprehensive literature reviews on topics chosen by the three (or more) members of the student's graduate committee. Each of these comprehensive literature reviews should be the equivalent of at least the introduction to an M.S. thesis. At least one of the reviews must be appropriate for publication in a major journal in one of the six areas of chemistry offered by the Department.



ment. Both reviews must be written in the style and format (ACS Style Guide) required by the department's and university's graduate study committees.

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.

Elective coursework may be selected from among the core courses or other appropriate chemistry courses.

### **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.

**531 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. May be used to satisfy the research tool requirement.

**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.

## 104 Department of Chemistry

### 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 hour.

Required each semester for all MS Chemistry 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 coursework 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 hours per week. (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.

### 425G Polymer Chemistry. 4 hours.

Prerequisites: CHEM 342-343 and CHEM 330 with grade of C or better.  
The principles of polymer chemistry. Lecture topics include molecular weights, morphology, mechanisms, kinetics, characterization, and uses of polymers by free radical and ionic methods in their characterization by thermal analysis, spectroscopy, viscometry, and chromatography.

### 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)

### 435G Analytical Chemistry. 4 hours.

Prerequisites: Chem 452-453.  
Modern instrumental methods of analysis including spectroscopic, electroanalytical and chromatographic techniques.

### 446G Biochemistry. 3 hours.

See Biochemistry.

### 447G Biochemistry Laboratory. 2 hours.

See Biochemistry.

### 450G Physical Chemistry I. 3 hours.

A study of theoretical chemistry, including such as gaseous state, solid state, liquid state, thermodynamics, thermochemistry and phase and chemical equilibria.

### 451G Physical Chemistry Laboratory. 2 hours.

A laboratory to accompany Chem 450G and includes experiments on state of matter, surface phenomena, macromolecules, thermochemistry, thermodynamics and equilibria. Pre-lab lecture and laboratory meets four and one-half hours per week.

### 452G Physical Chemistry II. 3 hours.

A continuation of Chem 450G including studies of kinetics, atomic and molecular structure, theory of chemical bonding, electro-motive force and selected topics.

### 453G Physical Chemistry Laboratory. 2 hours.

A laboratory to accompany Chem 452G and includes experiments on chemical kinetics, spectroscopy, molecular structure, electrochemistry and mass spectroscopy. Pre-lab lecture and laboratory meets four and one-half hours per week.

### 462G Bioinorganic Chemistry. 3 hours.

See Biochemistry.

### 467G Biochemistry II. 3 hours.

See Biochemistry.

### 470G Chemistry for the "Middle School." 4 hours.

Prerequisite: Chem 108, or 123, or permission of instructor.  
Chemical theories and principles in the middle school science curricula. (Elective credit only)

**475G Advanced Topics in Chemistry. 1 to 3 hours.**

Topics in analytical, biochemical, coal, inorganic, organic, physical and polymer chemistry. May be repeated with different topic.

**476G Advanced Laboratory Investigations in Chemistry. 2 hours.**

Prerequisite: Chem 314, or 343.

A course for advanced students involving assigned laboratory work in the field of inorganic chemistry. Typical procedures and experiments are those involving the synthesis, characterization, and identification of various chemical compounds, using a variety of handling techniques, and the application of various physical methods. (Not applicable to M.S. degree.)

**BIOCHEMISTRY**

Room 444 Central Wing  
Thompson Complex  
(502) 745-3457

E-Mail: david.hartman@wku.edu

**Graduate Faculty**

**Professors:** *D. Hartman, M. Houston*

**Assistant Professor:** *S. Jacobshagen*

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. 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.**

Prerequisite or corequisite: 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 coursework 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.

**447G Biochemistry Laboratory. 2 hours.**

Prerequisite or corequisite: Biochem 446.

Selected experiments which illustrate biochemical principles. Six hours per week.

**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 energetics of metabolism. Lecture. (spring)

**DEPARTMENT OF COMPUTER SCIENCE**

THOMPSON COMPLEX-CENTRAL WING  
ROOM 137-A

(502) 745-4642

FAX (502) 745-6449

e-mail shindhelm@wku.edu

<http://www.wku.edu/CS/index.html>

*Art Shindhelm, Head*

**GRADUATE FACULTY**

**Professors:** *G. Baur, R. Crawford, J. Crenshaw, D. Pigford, A. Shindhelm*

**Associate Professors:** *S. Pulliam, U. Ziegler*

**Assistant Professor:** *T. Crews, Jr.*

## 106 Department of Computer Science

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 GAP score of 3800. 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 six 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)

#### 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)

#### 567 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 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 Numerical Analysis I. 3 hours.

Prerequisites: Math 327, CS 245, Fortran.  
Crosslisted with Math 405G. (fall)

#### 406G Numerical Analysis II. 3 hours.

Prerequisites: CS 405, Math 331.  
Crosslisted 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)

**DEPARTMENT OF  
ENGINEERING TECHNOLOGY**

**ENVIRONMENTAL SCIENCE AND  
TECHNOLOGY BUILDING  
ROOM 200**

**(502) 745-2461**

**FAX (502) 745-5856**

**E-Mail: john.russell@wku.edu**

**<http://www.wku.edu/ETech/ethome.htm>**

*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.  
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. (fall)

**DEPARTMENT OF GEOGRAPHY  
AND GEOLOGY**

**ENVIRONMENTAL SCIENCE AND  
TECHNOLOGY BUILDING**

**ROOM 305**

**(502) 745-4555**

**FAX (502) 745-6410**

**E-Mail: wayne.hoffman@wku.edu**

**<http://www.wku.edu/Geo/>**

**Wayne L. Hoffman, Head**

**Graduate Faculty**

**Professors:** *R. Ahsan, N. Crawford, W. Hoffman, K. Kuehn, M. Lowry, C. Moore, A. Petersen, L. Trapasso*

**Associate Professors:** *S. Foster, D. Kuehn*

**Assistant Professors:** *C. Groves, D. Keeling, E. McClellan, M. May*

**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 GAP score of 3300.

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 520. 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**

**500 Introduction to Geographic Research. 3 hours.**

Development of geographic research skills with emphasis on posing of research problems, documentation, organization, and presentation.

**501 Geography, Science, Civilization. 3 hours.**

Topical seminar examining current issues and trends of the discipline and related fields, recent research, and the role of science in society, technology and culture.

**502 Geographic Techniques for Field Investigations. 3 hours.**

An introduction to field techniques and methodology. Surveying, sampling, and water testing are emphasized.

**504 Historical and Philosophical Bases of Geography. 3 hours.**

The evolution of geography as a distinct discipline through study of the writings of outstanding scholars.

**505 Biogeography. 3 hours.**

Prerequisites: Introductory courses in geography and/or biology, and permission of the instructor. The evolutionary, geographical, ecological, pedological, and edaphic factors involved in the naturalization, acclimatization, and distribution of plant and animal life.

**510 Selected Topics in Geography. 3 hours.**

Topics will vary with student needs.

**520 Multivariate Data Analysis and Modeling. 3 hours.**

Prerequisites: Geog 491 or equivalent. Multivariate statistical methods for analyzing and modeling spatial data and processes. Regression methods, including spatial autoregressive and spatial varying parameter models. Principal components, cluster analysis and other Multivariate methods. Applications in an interactive computer-based environment.

**521 Advanced Studies in Geomorphology. 3 hours.**

Prerequisites: Geomorphology 420, or equivalent, and 3 hours in upper level physical geography or geology. A review of topics in advanced geomorphology, field and laboratory procedures, and an introduction to research in landform analysis. Research in instructor approved geomorphic topics.

**522 Advanced Studies in Climatology. 3 hours.**

Prerequisites: Geog 422 and permission of instructor.  
The effects of climatic controls on micro climates and climatic anomalies. The application of climate to daily life. Detailed use of climatological characteristics.

**524 Meteorology for Science Teachers. 3 hours.**

Basic weather course with emphasis on new developments and applications in the classroom.

**525 Advanced Political Geography. 3 hours.**

A study of the world's geopolitical relationships.

**530 Selected Problems in Cultural Geography. 3 hours.**

Prerequisite: Geog 430, or permission of instructor.  
Seminar-field experience. Covers cultural origins and dispersals, environmental perception and behavior, and resulting consequence upon the geographic landscape.

**532 Studies in Geographic Exploration. 3 hours.**

18th, 19th, and 20th century scientific exploration of the "terrae incognitae" through examination of firsthand accounts.

**534 Historic Preservation Planning: Application. 3 hours.**

Prerequisite: Geog 434G.  
Field application of historic preservation method and techniques.

**540 Advanced Regional Geography. 3 hours.**

Prerequisites: Two courses in regional geography and consent of instructor.  
The regional method as a basic approach to geographic research via one or more major regional units.

**541 Seminar in Tropical Geography. 3 hours.**

Prerequisites: Geog 210, 422, 430, and permission of instructor.  
Specific problems of the man environment relationships of the American, African, and Asian Tropics.

**550 Advanced Studies in Economic Geography. 3 hours.**

Prerequisites: Geog 350, 478 or 479, and permission of instructor.  
An examination of the major theories in economic geography.

**560 Settlement Geography. 3 hours.**

Prerequisite: Geog 430, or consent of instructor.  
Sources and philosophies of settlement studies. Investigations of selected settlement patterns with emphasis on rural and rural non-farm settlement; farmstead, hamlet, village and town, and functionally related features, architectural style, and functional rationale.

**571 Quality of Life, Environmental Problems and Ecological Solutions. 3 hours.**

Seminar approach to developing critical ecological sensitivity through analysis of past and present environmental problems, implemented and alternative solutions.

**580 Problems in Urban Geography. 3 hours.**

Analysis of problems of American cities.

**584 Advanced Planning. 3 hours.**

Prerequisite: Geog 484.  
Analysis of advanced topics and results of recent research in city and regional planning.

**585 Advanced Studies in Population Geography. 3 hours.**

Prerequisite: Permission of instructor.  
**Seminar approach to regional and world problems in human population.**

**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.**

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, scribing 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)

## **110** Department of Geography and Geology

- 420G Geomorphology. 4 hours.**  
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; channel form; hillslope characteristics; drainage pattern evolution, etc. (alternate springs)
- 422G Climatology. 4 hours.**  
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.**  
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.**  
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.
- 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 Middle America. 3 hours.**  
A regional analysis of Mexico, Central America, and the West Indies.
- 462G Geography of South America. 3 hours.**  
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.**  
A geographical analysis of Europe.
- 465G Geography of Asia. 3 hours.**  
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.**  
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 occupation of Southwestern Asia and surrounding regions mentioned in the Bible.
- 473G Interactions in the Cave and Karst Environment. 3 hours.**  
Discussion of biological diversity, groundwater and humanity's role in utilizing and conserving the unique features of karst areas and use of these areas in teaching.
- 474G Environmental Planning. 3 hours.**  
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 ecological problems in the rural setting.

**491G Data Analysis and Interpretation. 3 hours.**

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.

**497G Spatial Decision Support Systems. 3 hours.**

Prerequisite: Geog 350.  
Theory of locational decision making. Application of locational models in an interactive computer-based environment.

The following graduate course, specially designed for teachers of natural and earth science, is offered in Geology:

**511 The Dynamic Earth. 3 hours.**

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.**

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.**

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.**

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.**

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.**

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.



**DEPARTMENT OF INDUSTRIAL TECHNOLOGY**

**ENVIRONMENTAL SCIENCE AND TECHNOLOGY BUILDING**

**ROOM 205**

**(502) 745-3251**

**FAX: (502) 745-5946**

**<http://www.wku.edu/ltech/>**

***T. N. Tomazic, Head***

**Graduate Faculty**

**Professors:** *F. Conley, G. Roberts*

**Associate Professor:** *T. N. Tomazic*

**Assistant Professor:** *D. Jackson*

**Degrees Offered:** Master of Arts in Education (Industrial Education minor)

**Graduate Courses in Industrial Education**

**510 Investigations in Industrial Education. 3 hours.**

Individual research under the direction of a graduate faculty member.

**520 Philosophy of Industrial Education. 3 hours.**

The development of industrial education in Europe and America. Emphasis on influences, experiments, and trends leading to modern practices in industrial, vocational, and technical education.

**525 Industrial Education Curriculum. 3 hours.**

Curriculum practices, concepts, and trends in curriculum development and improvement of programs.

The following courses are for students pursuing specific areas.

**530 Advanced Drafting. 3 hours.**

An exploration of Computer Aided Drafting, including Coordinate Systems, 3D Entities, Meshes, Attributes, Shapes, Scripts, Import and Export files suffixes, and simple AutoLisp Programming.

**532 Industrial Design. 3 hours.**

Students will use scientific methods to develop design ideas for assigned technical problems. Students will evaluate designs using established criteria and will propose innovative solutions for assigned problems. The preparation of a design presentation for "management" review will serve as a culminating activity for the course.

**542 Industrial Electricity and Electronics. 3 hours.**

Students will study electrical circuit design, integrated circuits, digital technology, PLC programming, robotics programming, 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.

**548 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 coursework. The emphasis will be on quality and innovative design and/or applications.

**568 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 exploration of manufacturing or construction systems using equipment and materials found in the typical "general technology exploration" 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.**

**452G Industrial Wood Processing II. 3 hours.**

Prerequisite: MT 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.**

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.

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**DEPARTMENT OF MATHEMATICS**

**THOMPSON COMPLEX-CENTRAL WING  
ROOM 357**

**(502) 745-3651**

**FAX (502) 745-5385**

**E-Mail: jim.porter@wku.edu**

**<http://www.wku.edu/Mathematics/>**

**James R. Porter, Head**

**Graduate Faculty**

**Professors:** *J. Barksdale, J. Porter, G. Powers, T. Richmond, J. Stokes, C. Wells*

**Associate Professors:** *D. Biles, B. Brunson, C. Ernst, N. Iraniparast, D. Neal, B. Richmond, M. Robinson, J. Spraker, W. Weidemann*

**Assistant Professors:** *L. Miller, D. Mooney, R. Swit*

**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,
  3. Applied Mathematics: 435G-535, 470G-570, 529-530
  4. Topology-Geometry: 439G-539, 423G-523, 439G-523
  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 se-

## 114 Department of Mathematics

quences 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 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; isometrics; similarities; inversion; applications.

#### **529 Mathematical Statistics I. 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 Liapunov's 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 functionals; 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 of 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.

**406G Numerical Analysis II (CS 406). 3 hours.**

Prerequisites: Math 307, 331, and 405.

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.

**409G 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.

**411G 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 problem solving strategies and models and to create related problems of their own.

**413G 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.)

**415G 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.

**417G Algebraic Systems. 3 hours.**

Prerequisite: Math 317.

Theory of groups.

**423G Geometry II. 3 hours.**

Prerequisite: Math 323.

An axiomatic development of plane hyperbolic geometry which presupposes a development of absolute geometry.

**429G Probability and Statistics II. 3 hours.**

Prerequisite: Math 327, 329

Multivariate probability distributions; sampling distributions, statistical inference; point and interval estimation, properties of estimators; hypothesis testing; regression and correlation; analysis of variance; non-parametric methods.



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### 431G 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.

### 432G Intermediate Analysis II. 3 hours.

Prerequisite: Math 431.

Continuation of Math 431.

### 435G Partial Differential Equations. 3 hours.

Prerequisites: Math 307, 327, and 331.

Equations of first and second order; elliptic, hyperbolic and parabolic equations of mathematical physics using separation of variables and Fourier series.

### 439G Topology. 3 hours.

Prerequisite: Math 317 or permission of instructor.

Topological spaces; mappings; separation of axioms; compactness; connectedness; arcwise connectedness; metric spaces.

### 450G Complex Variables. 3 hours.

Prerequisite: Math 327.

Complex number plane; analytic functions of a complex variable; integration; power series; calculus of residues; conformal representation; applications of analytic function theory.

### 470G Introduction to Operations Research. 3 hours.

Prerequisite: Math 307 and 327 or permission of instructor.

Principles and techniques of operations research including linear programming, integer programming, quality theory, sensitivity analysis, and dynamic programming. (on demand)

### 475G Selected Topics in Mathematics. 1 to 3 hours.

Prerequisite: Permission of instructor.

Significant problems and developments of current interest.

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**DEPARTMENT OF NURSING**  
**ACADEMIC COMPLEX, E.H. Canon Wing**  
**Office 111**  
**(502)745-3391**  
**FAX: (502) 745-3392**  
**E-Mail: [kay.carr@wku.edu](mailto:kay.carr@wku.edu)**  
**<http://www.wku.edu/Nursing/>**

**Kay Carr, Interim Head**

**Graduate Faculty**

**Professors: K. Carr, M. Hazzard**

**Associate Professors: P. Bailey, D. Blackburn, S. Bryant**

**Degree Offered: Master of Science in Nursing**

The MS in nursing builds on the first professional degree, the baccalaureate of science in nursing. The purpose of the program is to develop expertise in advanced nursing practice that demands increased accountability, proficiency, and leadership.

Applicants for the masters in nursing program must be either a licensed registered nurse or a registered nurse applicant and must meet the following requirements:

1. Be a graduate of a NLN accredited program. Graduates of non-accredited programs are considered on an individual basis.
2. Provide evidence of prior education in health assessment and nursing research.
3. Have an overall GPA of 2.75.
4. Provide official transcripts of all higher education coursework.
5. Obtain a minimal GAP score of 3700.
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, 502, 504, 510, 508, EdFnd 501

#### 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, 550, 552, 554,

#### 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, 516, 518, 520, and 522, or 530.



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

### 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.

### 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.

### 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.

### 508 Advanced Issues in Professional Nursing. 3 hours.

Prerequisites: Nurs 502, 510.

This course is designed to focus attention on the political, legal, socioeconomic, and technological aspects of nursing care.

### 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.

### 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, cultural influences, and selected health care problems. Two hours seminar and six contact hours per week.

### 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.

### 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.

## 118 Department of Nursing

### 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.

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## DEPARTMENT OF PHYSICS AND ASTRONOMY

THOMPSON COMPLEX-CENTRAL WING  
ROOM 246  
(502) 745-4357  
[http://www.wku.edu/PhyAst/p0\\_.htm](http://www.wku.edu/PhyAst/p0_.htm)

*Charles McGruder, Head*

### Graduate Faculty

**Professors:** *C. McGruder, R. Scott, G. Vourvopoulos*

**Associate Professors:** *D. Harper, W. Van Der Meer*

**Assistant Professor:** *R. Gelderman*

**Degrees Offered:** Master of Arts in Education (Physics minor).

### 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.

Physics 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 electromagnetics.

### 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.

### 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.

### 406G Experimental Physics 5. Solid State. 1 hour.

Corequisite: Phys 460G.

Includes solid state experimental techniques and demonstrations from lecture material.

### 407G Experimental Physics 6. Nuclear. 1 hour.

Prerequisite: Phys 302.

Corequisite: Phys 470G.

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.

Laboratory techniques in experimental research, includes drawing and fabrication of apparatus, technical photography, and statistical treatment of data.

### 414G Introductory Astrophysics. 4 hours.

Prerequisites: Two years of college physics and permission of the instructor.

Topics in solar system and stellar astrophysics. 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.**

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 hours lecture; 2 hours 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 406G.

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 semi-conductors, 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 and 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.**

Prerequisite: Phys 320.

Corequisite: Phys 407G.

Properties of the nucleus including nuclear forces, alpha emission, radioactivity, 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 Schroedinger wave equation.

**DEPARTMENT OF PUBLIC HEALTH****SCIENCE AND TECHNOLOGY HALL****ROOM 412****(502) 745-4797****FAX: (502) 745-4437****E-Mail: [public.health@wku.edu](mailto:public.health@wku.edu)****<http://www.wku.edu/PubHealth/>****J. David Dunn, Head****Graduate Faculty****Professors:** *R. Baum, R. Biggerstaff, D. Dunn, C. Higgins, G. Lohr, T. Nicholson, J. Price, R. Wilson***Assistant Professors:** *P. Minors, C. Schuster, J. White***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 567 and Community Health 587. Six to nine additional hours of health must be chosen with approval of the student's graduate minor advisor.

**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 educa-

## 120 Department of Public Health

tors, nurses, environmentalists, health care administrators, industrial health personnel, nutritionists, dental hygienists, physicians, 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 481G, 520, 582, 583, and 599 (thesis) or 546 (internship); the research tool, Community Health 501; and a minimum of 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, and possess basic computer skills. 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.

##### 546 Graduate Internship. 1 to 6 hours.

Supervised, full-time, 12 week field experience planned with various agencies, organizations, facilities, industries, and businesses with health related missions or programs, and approved by the Department of Public Health. Off campus travel required. A maximum of six hours may be earned. (Every semester)

##### 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 diseases. Emphasizes problem solving and interpretation.

##### 583 Public Health Administration. 3 hours.

Advanced concepts of organization, administration and management of public health agencies and programs.

##### 585 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.

##### 586 Violence Prevention: A Public Health Approach. 3 hours.

Prerequisites: Graduate Standing. HE 260, 381, or permission of the instructor.

An examination of the nature and extent of family, school and community violence, the psychosocial and biological roots, past efforts to prevent and control violence, and principals of violence prevention.

##### 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.**

##### 466G 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.

**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 in 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 of the Comprehensive School Health Program. 3 hours.**

Management and coordination of policies, procedures, activities and resources designed to promote and protect the health and well being of students and staff. Includes administration of family resource and youth service centers, and coordination of school health education, healthful environment, and health services.

**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.**

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. Visitation in public schools.



## **122** Department of Public Health

### **462G Folk Medicine. 3 hours.**

Crosslisted FLK 462G  
Historical circumstances, associations, and logic of traditional non-scientific medical practices.

### **463G Consumer Health. 3 hours.**

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.**

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.**

Emphasis in this course is on planning, implementation and evaluation of school and community sexuality education programs. Health and policy issues which effect 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 or 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

Wetherby Administration Building  
Room 209  
(502) 745-2446  
FAX: (502) 745-6950  
E-Mail: [graduate.studies@wku.edu](mailto:graduate.studies@wku.edu)  
<http://www.wku.edu/Dept/Academic/Graduate/>

**ELMER GRAY, DEAN**

### PROGRAMS OFFERED

#### Master of Arts in Interdisciplinary Administration

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 program is offered in Russellville, Kentucky. Also, the individual courses are offered on campus in the traditional format.

Students seeking admission to the Master of Arts in Interdisciplinary Administration have two options: (1) submit GRE scores and meet GAP requirements or, (2) submit GMAT scores of at least 400 or an overall undergraduate grade point average of 2.75/4.0.

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 461G 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 Seminar in Organizational Communication - Multinational Business

CCOM 586 Processes of Group Communication  
or  
COM 560 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

#### Certificate Program in Community College Faculty Preparation

The Community College Faculty Preparation (CCFP) program combines critical components to prepare students to enter community college teaching. These components include: a master's degree in a teaching discipline, a three hour graduate course in teaching/learning psychology, a three hour seminar on community college topics, and a three hour teaching experience at a community college. Successful completion of these requirements will be evidenced by the awarding of a Certificate by the University. The CCFP program will empower Certificate holders to be more competitive for community college faculty positions and to advance more rapidly in fulfilling the new faculty role.

Faculty and administrators from several community colleges have contributed to the development of the CCFP program. Their continued involvement will provide a range of opportunities for teaching interns.

Participation in the CCFP program is optional to all graduate programs in the University. Graduate students may take the courses as they approach the end of their master's degree or following completion of the master's degree. Application to the CCFP program is made in the Office of Graduate Studies.

The Certificate Program includes nine hours of required courses:

#### Psychology 611

##### Adult Development and Learning.

Prerequisite: Admission to CCFP program or permission of instructor.

#### Educational Foundations 612

##### Seminar in Community College Teaching.

Prerequisite: PSY 611 or permission of instructor.

#### Academic Discipline 589

##### Internship in Community College Teaching.

Prerequisite: EDFN 612 or permission of instructor.

For more information, contact Office of Graduate Studies and Research.

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Glaser, Joseph A.	Ph.D., University of Texas, Professor
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# 126 Graduate Faculty

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<b>Askins, Jeanette C.</b>	Ph.D., Florida State University, Assistant Professor
<b>Cole, Joseph</b>	Ph.D., Florida State University, Assistant Professor
<b>Crews, Thaddeus, R.</b>	Ph.D., University of Missouri, Professor
<b>Daniel, Charles V.</b>	Ed.D., Vanderbilt University, Professor
<b>Deere, Randall E.</b>	D.A., Middle Tennessee State University, Assistant Professor
<b>Kummer, William G.</b>	Ph.D., University of Utah, Professor
<b>Little, Alton D.</b>	Ed.D., University of Georgia, Professor
<b>Oglesby, Burch</b>	Ph.D., Ohio University, Professor
<b>Spencer, Steven</b>	Ed.D., University of Arkansas, Associate Professor
<b>Wyatt, Frank</b>	Ed.D., University of Northern Colorado, Assistant Professor

**PSYCHOLOGY**

<b>Bilotta, Joseph</b>	Ph.D., University of New York, Associate Professor
<b>Bruni, John</b>	Ph.D., Texas Christian University, Associate Professor
<b>Cangemi, Joseph P.</b>	Ed.D., Indiana University, Professor
<b>Clark, Lynn Fred</b>	Ph.D., University of Kansas, Professor
<b>Craig, James R.</b>	Ph.D., Iowa State University, Professor
<b>Eison, Charles L.</b>	Ed.D., University of Kentucky, Associate Professor
<b>Frieske, David</b>	Ph.D., University of Georgia, Assistant Professor
<b>Greer, Richard M.</b>	Ph.D., University of Missouri-Columbia, Professor
<b>Jones, Elizabeth</b>	Ph.D., University of Georgia, Associate Professor
<b>Kuhlenschmidt, Sally</b>	Ph.D., Purdue University, Associate Professor
<b>Lemerise, Elizabeth</b>	Ph.D., New School for Social Research, Associate Professor
<b>Layne, C. Clinton</b>	Ph.D., Southern Illinois University, Professor
<b>Layne, Lois E.</b>	Ph.D., Southern Illinois University, Professor
<b>Martray, Carl R.</b>	Ph.D., University of Alabama, Professor
<b>McFarland, Sam G.</b>	Ph.D., Vanderbilt University, Professor
<b>Mendel, Raymond M.</b>	Ph.D., Iowa State University, Professor
<b>Metze, Leroy P.</b>	Ph.D., University of Houston, Professor

## 128 Graduate Faculty

**Miller, Richard L.** Ph.D., University of Houston, Professor  
**Mutter, Sharon** Ph.D., George Washington University, Associate Professor  
**Myers, Carl** Ph.D., Iowa State University, Assistant Professor  
**Norman, Antony D.** Ph.D., University of Virginia, Assistant Professor  
**Norman, James** Ph.D., Vanderbilt University, Assistant Professor  
**O'Connor, John** Ph.D., George Peabody College, Professor  
**Pfohl, William .** Psy.D., Rutgers University, Professor  
**Poe, Retta E.** Ph.D., University of Missouri-Columbia, Professor  
**Pope-Tarrance, Jacqueline** Ph.D., University of Louisville, Assistant Professor  
**Ramsay, Shula** Ph.D., University of Virginia, Assistant Professor  
**Roenker, Daniel L.** Ph.D., Kansas State University, Professor  
**Shoenfelt, Elizabeth** Ph.D., Louisiana State University, Professor  
**Wilder, Joyce** Ed.D., Peabody College of Vanderbilt University, Associate Professor

### SCHOOL OF INTEGRATIVE STUDIES IN TEACHER EDUCATION

**Becker, James P.** Ph.D., Florida State University, Professor  
**Benton, Janet E.** Ph.D., University of Georgia, Assistant Professor  
**Boulware, Beverly** Ed.D., Ball State University, Assistant Professor  
**Burch, Barbara G.** Ed.D., Indiana University-Bloomington, Professor  
**Collins, Donald W.** Ed.D., University of Houston, Assistant Professor  
**Counts, Edward L.** Ed.D., East Texas State University, Professor  
**Cooke, Stanley S.** Ed.D., University of Virginia, Professor  
**Daniel, Tabitha** Ed.D., George Peabody University, Associate Professor  
**Erdman, Barbara** Ph.D., University of Wisconsin - Madison, Assistant Professor  
**Etienne, Joseph** Ph.D., Southern Illinois University, Assistant Professor  
**Evans, Charles S.** Ph.D., University of Missouri - Columbia, Professor  
**Ferguson, Janice L.** Ph.D., University of Oklahoma, Associate Professor  
**Flynn, Linda** Ph.D., University of Illinois, Assistant Professor  
**Foley, Christy L.** Ph.D., University of Arizona, Associate Professor  
**Kacer, Barbara** Ph.D., University of Iowa, Associate Professor  
**Kersting, Frank** Ed.D., Vanderbilt University, Professor  
**Koper, James A.** Ed.D., University of Missouri, Professor  
**Matthew, Kathleen** Ed.D., University of South Dakota, Assistant Professor  
**McKenzie, Robert G.** Ph.D., University of Iowa, Professor  
**Minix, Nancy A.** Ed.D., Vanderbilt University, Associate Professor

**Moore, John A.** Ed.D., University of Kentucky, Assistant Professor  
**Otto, Robert A.** Ph.D., University of Iowa, Professor  
**Pankratz, Roger** Ph.D., Ohio State University, Professor  
**Pierce, Judy** Ed.D., Southern Illinois University, Professor  
**Roberts, Julia L** Ed.D., Oklahoma State University, Professor  
**Roberts, Richard** Ed.D., Oklahoma State University, Professor  
**Ruff, Ann C.** Ed.D., Indiana University, Professor  
**Schliefer, Jacqueline** Ed.D., University of Nebraska-Lincoln, Assistant Professor  
**Simmons, Herbert N.** Ed.D., University of Kansas, Professor  
**Smith, Robert C.** Ph.D., Louisiana State University, Professor  
**Stallion, Brenda** Ph.D., Ohio State University, Associate Professor  
**Stayton, Vicki** Ph.D., University of Illinois, Urbana Champaign, Associate Professor  
**Terry, Kay** Ed.D., Northwestern State University of Louisiana, Assistant Professor  
**Vokurka, John F.** Ed.D., Indiana University, Professor  
**Wallace, Mildred** Ph.D., Vanderbilt University, Professor  
**Wilson, Phillip** Ph.D., University of Illinois, Assistant Professor  
**Wilson, Terry** Ph.D., Ohio State University, Associate Professor

### OGDEN COLLEGE OF SCIENCE, TECHNOLOGY, AND HEALTH

#### AGRICULTURE

**Bedel, Al** Ph.D., University of Tennessee, Associate Professor  
**Brown, Linda** Ph.D., University of Georgia, Associate Professor  
**Coffey, David** Ed.D., Virginia Polytechnic Institute and State University, Professor  
**Gray, Elmer** Ph.D., Cornell University, Professor  
**Hughes, Luther** Ph.D., Purdue University, Professor  
**Johnson, Ray** Ph.D., North Carolina State University, Professor  
**Jones, Gordon F.** Ph.D., University of Tennessee, Professor  
**Martin, James M.** Ph.D., Ohio State University Professor  
**Rudolph, Jack L.** Ph.D., Pennsylvania State University Associate Professor  
**Speer, Nevil** Ph.D., Colorado State University, Assistant Professor  
**Stiles, David A.** Ph.D., Southern Illinois University, Associate Professor  
**Worthington, James P.** Ph.D., Ohio State University, Professor

#### ALLIED HEALTH AND HUMAN SERVICES

**May, J. Dean** Ed.D., Memphis State University, Assistant Professor

**BIOLOGY**

**Balak, Kenneth** Ph.D., University of South Carolina, Associate Professor  
**Crawford, Kenneth** Ph.D., University of Michigan, Assistant Professor  
**Davis, Cheryl** Ph.D., Wake Forest University, Assistant Professor  
**Dillard, Gary E.** Ph.D., North Carolina State University, Professor  
**Doerner, Kinchel** Ph.D., University of Illinois, Assistant Professor  
**Elliott, Larry P.** Ph.D., University of Wisconsin, Professor  
**Ferrell, Blaine** Ph.D., Louisiana State University, Professor  
**Houston, Martin R.** Ph.D., Vanderbilt University, Professor  
**Hoyt, Robert D** Ph.D., University of Louisville, Professor  
**Jack, Jeffrey** Ph.D., Dartmouth, Assistant Professor  
**Jacobshagen, Sigrid** Ph.D., Free University of Berlin, Assistant Professor  
**McElroy, Douglas M.** Ph.D., University of Maine, Assistant Professor  
**Murrell, Zack E.** Ph.D., Duke University, Assistant Professor  
**Prins, Rudolph** Ph.D., University of Louisville, Professor  
**Rinehart, Claire** Ph.D., University of Georgia, Associate Professor  
**Stokes, Michael** Ph.D., University of Kansas, Assistant Professor

**CHEMISTRY**

**Conte, Eric D.** Ph.D., University of Massachusetts - Lowell, Assistant Professor  
**Dahl, Darwin B.** Ph.D., University of Missouri-Kansas City, Associate Professor  
**Green, Thomas K.** Ph.D., University of Tennessee, Professor  
**Hartman, David R.** Ph.D., Virginia Polytechnic Institute, Professor  
**Henrickson, Charles H.** Ph.D., State University of Iowa, Professor  
**Holman, Robert W.** Ph.D., University of Nebraska - Lincoln, Associate Professor  
**Kubasik, Matthew** Ph.D., Cornell University, Assistant Professor  
**Pan, Wei-Ping** Ph.D., Michigan Technical University, Professor  
**Pearson, Earl F.** Ph.D., Vanderbilt University, Professor  
**Pesterfield, Lester** Ph.D., University of Tennessee, Assistant Professor  
**Reasoner, John W.** Ph.D., State University of Iowa, Professor  
**Riley, John T.** Ph.D., University of Kentucky, Professor  
**Shank, Lowell, W.** Ph.D., Ohio State University, Professor  
**Slocum, D. W.** Ph.D., New York University, Professor  
**Wilkins, Curtis** Ph.D., Michigan State University, Professor

**COMPUTER SCIENCE**

**Baur, Gregory** Ed.D., Indiana University, Professor  
**Crawford, Robert R.** Ph.D., Indiana University, Professor  
**Crenshaw, John H.** Ph.D., Iowa State University, Professor  
**Crews, Thaddeus** Ph.D., Vanderbilt University, Assistant Professor  
**Pigford, Darleen** Ph.D., University of Florida, Professor  
**Pulliam, Sylvia Clark** Ed.D., Vanderbilt University, Associate Professor  
**Shindhelm, Arthur D.** Ph.D., Syracuse University, Professor  
**Ziegler, Uta** Ph.D., Florida State University, Associate Professor

**ENGINEERING TECHNOLOGY**

**George, Dennis** Ph.D. University North Carolina - Chapel Hill, Assistant Professor  
**Russell, John P.** Ph.D., University of Florida, Professor

**GEOGRAPHY AND GEOLOGY**

**Ahsan, Syed Reza** Ph.D., University of Florida, Professor  
**Crawford, Nicholas C.** Ph.D., Clark University, Professor  
**Foster, Stuart** Ph.D., Ohio State, Associate Professor  
**Groves, Christopher G.** Ph.D., University of Virginia, Assistant Professor  
**Hoffman, Wayne L.** Ph.D., University of Florida, Professor  
**Keeling, David J.** Ph.D., University of Oregon, Assistant Professor  
**Kuehn, Deborah W.** Ph.D., Pennsylvania State University, Associate Professor  
**Kuehn, Kenneth W.** Ph.D., Pennsylvania State University, Professor  
**Lowry, Mark, III** Ph.D., Syracuse University, Professor  
**May, Michael T.** Ph.D., Indiana University, Assistant Professor  
**McClellan, Elizabeth A.** Ph.D., University Tennessee, Knoxville Assistant Professor  
**Moore, Conrad T.** Ph.D., U.C.L.A., Professor  
**Petersen, Albert, Jr.** Ph.D., Louisiana State University, Professor  
**Trapasso, L. Michael** Ph.D., Indiana State University, Professor

**INDUSTRIAL TECHNOLOGY**

**Conley, Franklin** Ed.D., University of Missouri, Professor  
**Jackson, Daniel** Ph.D., Iowa State University, Assistant Professor  
**Roberts, George** Ed.D., University of Missouri - Columbia, Professor  
**Tomazic, T. Norman** Ph.D., Ohio State University, Associate Professor

# 130 Graduate Faculty

## MATHEMATICS

<b>Barksdale, James B. Jr.</b>	Ph.D., University of Arkansas, Professor
<b>Biles, Daniel</b>	Ph.D., Vanderbilt University, Associate Professor
<b>Brunson, Barry W.</b>	Ph.D., Indiana University, Associate Professor
<b>Ernst, Claus</b>	Ph.D., Florida State University, Associate Professor
<b>Iraniparast, Nezam</b>	Ph.D., University of California-Davis, Associate Professor
<b>Miller, J. Lyn</b>	Ph.D., University of Maryland, Assistant Professor
<b>Mooney, Douglas</b>	Ph.D., University of Kansas, Assistant Professor
<b>Neal, David</b>	Ph.D., University of Florida, Associate Professor
<b>Porter, James</b>	Ph.D., Syracuse University, Professor
<b>Powers, R. Glenn</b>	Ph.D., Memphis State University, Professor
<b>Richmond, Bettina</b>	Ph.D., Florida State University, Associate Professor
<b>Richmond, Thomas A.</b>	Ph.D., Washington State University, Professor
<b>Robinson, Mark</b>	Ph.D., University of Kentucky, Associate Professor
<b>Spraker, John S.</b>	Ph.D., Indiana University, Associate Professor
<b>Stokes, Joseph, F.</b>	Ph.D., George Peabody College, Professor
<b>Swift, Randall</b>	Ph.D., University of California Riverside, Assistant Professor
<b>Weidemann, Wanda</b>	Ed.D., Vanderbilt University, Associate Professor
<b>Wells, Carroll G.</b>	Ph.D., Vanderbilt University, Professor

## NURSING

<b>Bailey, Patricia</b>	Ph.D., University of Texas - Austin, Associate Professor
<b>Blackburn, Donna</b>	MSN, Vanderbilt University, Associate Professor
<b>Bryant, Celia Sue</b>	Ph.D., University of Virginia, Associate Professor
<b>Carr, Kay</b>	Ed.D., George Peabody - Vanderbilt University, Professor
<b>Hazzard, Mary E.</b>	Ph.D., New York University, Professor

## PHYSICS AND ASTRONOMY

<b>Gelderman, Richard</b>	Ph.D., University of Virginia, Assistant Professor
<b>Harper, Douglas L.</b>	Ph.D., Vanderbilt University, Associate Professor
<b>McGruder, Charles III</b>	Ph.D., University of Heidelberg, Professor
<b>Scott, Roger</b>	Ph.D., University of Florida, Professor
<b>Van Der Meer, Wieb</b>	Ph.D., University of Groninger, Associate Professor
<b>Vourvopoulos, George</b>	Ph.D., Florida State University, Professor

## PUBLIC HEALTH

<b>Baum, Robert</b>	H.S.D., Indiana University, Professor
<b>Biggerstaff, Ray, Jr.</b>	Ed.D., Indiana University, Professor
<b>Dunn, J. David</b>	D.Sc., Tulane University, Professor
<b>Higgins, C. Wayne</b>	Ph.D., University of Texas Medical Branch, Professor
<b>Lohr, J. Glenn</b>	H.S.D., Indiana University, Professor
<b>Minors, Susan P.</b>	Ph.D., Georgia State University, Assistant Professor
<b>Nicholson, Thomas</b>	Ph.D., Southern Illinois University - Carbondale, Professor
<b>Price, Jimmie O.</b>	Ed.D., University of Alabama, Professor
<b>Schuster, Catherine</b>	Ph.D., The Ohio State University, Assistant Professor
<b>White, John</b>	Ph.D., University of Alabama - Birmingham, Assistant Professor
<b>Wilson, Richard W.</b>	D.H.S., Loma Linda University, Professor



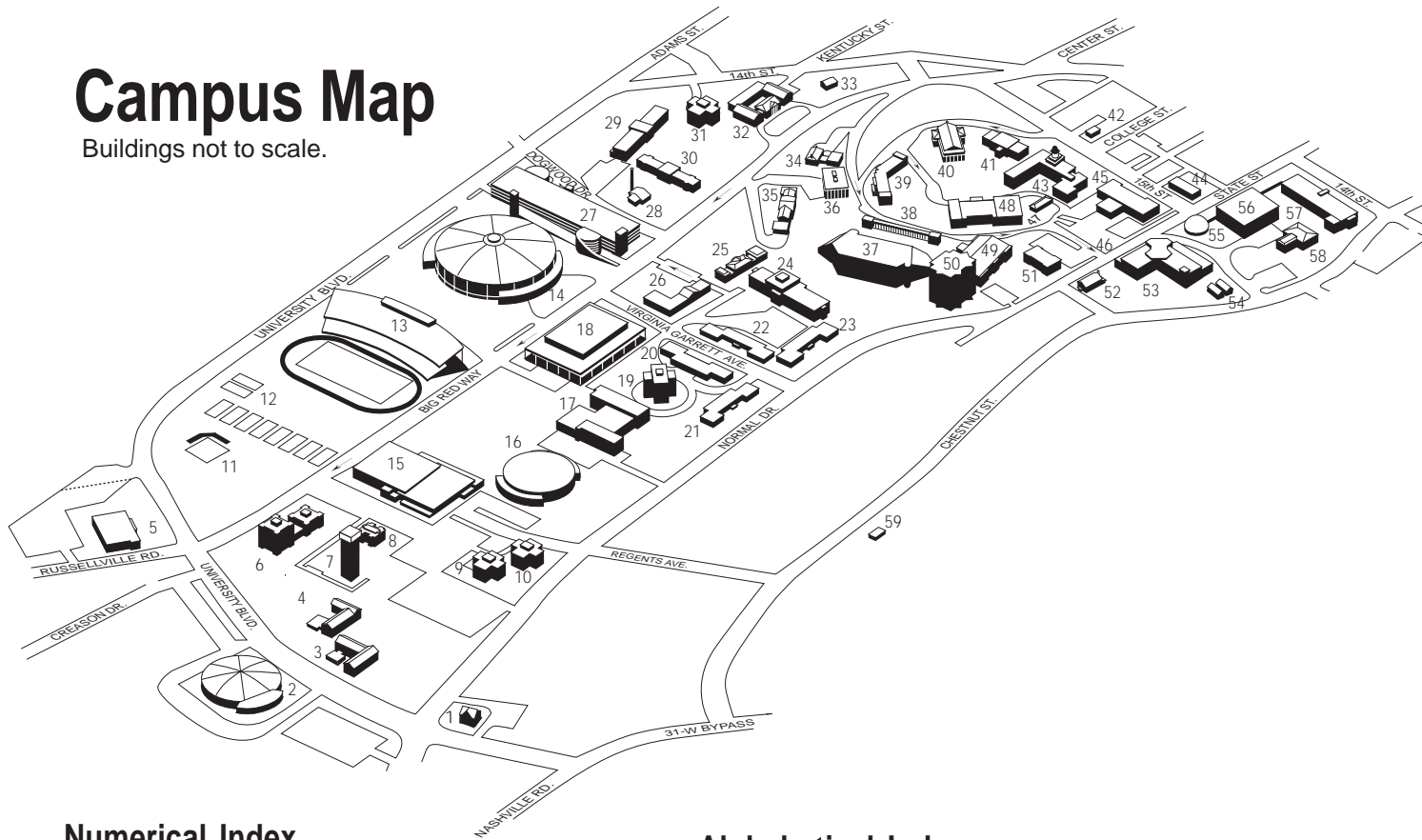
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