
College Of Arts and Sciences

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Departments within the College of Arts and Sciences offer programs leading to the following degrees: Master of Arts; Master of Fine Arts; Master of Science; Master of Music; Master of Public Administration; and Specialist in Psychology.

The Master of Arts is offered by the departments of English and Theatre, Government, and History. The Master of Fine Arts is offered by the department of English and Theatre. The Master of Science is offered by the departments of Biological Sciences; Computer Science; Chemistry; Mathematics and Statistics; and Psychology. The Master of Arts degree offered by Government is in Political Science. The Master of Science offered by Computer Science is in Computer Science and Applied Computing; that offered by Mathematics and Statistics is in Mathematical Science; and those offered by Psychology are in Clinical Psychology and Industrial/Organizational Psychology. Clinical psychology students may elect to complete a program for "Providing Services to the Deaf/Hard-of-Hearing" in cooperation with the Department of Special Education. Additionally, the Department of Psychology offers the Specialist in Psychology degree in school psychology and a certification-only program in school psychology for students with related master's degrees. Students in the Master of Public Administration degree program offered by the Department of Government may select the general field of public administration or options in community development or community health administration.

The Master of Arts in Education with options in specific areas is offered in the College of Education with the cooperation of the appropriate departments in the College of Arts and Sciences. The program requirements for these may be found in the College of Education section of this *Catalog*.

Graduate Course Credit

All 700 level courses have 500 level undergraduate counterparts bearing the same last two digits. The 700 level courses are offered only for graduate level credit and require additional appropriate experiences for all students enrolled. Students who have previously taken the undergraduate counterpart of these courses at the 500 level will not be permitted to enroll for graduate level credit in the 700 level counterpart. Credit will not be awarded for both the 700 and 500 level of the same course.

Cross Listed Courses

Some courses are offered under different prefixes with the same course content. Students will not be awarded credit in any course for which they have previously received credit under a cross listed prefix.

Gulf Coast Research Laboratory Courses

EKU is affiliated with Gulf Coast Research Laboratory, Ocean Springs, Mississippi. This affiliation provides undergraduate and graduate students with the opportunity to take courses and conduct research in marine sciences at an established, well-equipped laboratory located on the Gulf of Mexico. Students electing to study at Gulf Coast Research Laboratory do not pay out-of-state tuition.

The Marine Science graduate level courses listed in Section Six of this *Catalog* are taught only at Gulf Coast Research Laboratory, Ocean Springs, Mississippi, during the summer. The laboratory furnishes the staff for course work and research. Applications for the program and additional information are available in the departments of Biological Sciences, Chemistry, and Geography and Geology and in the Division of Natural Areas.

DEPARTMENT OF ANTHROPOLOGY, SOCIOLOGY, AND SOCIAL WORK

Dr. Elizabeth Throop, Chair
www.anthropology.eku.edu
(859) 622-1644

The Department of Anthropology, Sociology, and Social Work offers graduate level courses in support of the Community Development Option of the Master of Public Administration Program offered by the Department of Government.

DEPARTMENT OF ART AND DESIGN

Mr. Herb Goodman, Chair
www.art.eku.edu
(859) 622-1629

The Master of Arts in Education degree and the Master of Arts Teaching degree with an option in art are offered in the College of Education with the cooperation of the Department of Art. The regulations for the degrees may be found in the College of Education section of this *Catalog*.

DEPARTMENT OF BIOLOGICAL SCIENCES

Dr. Bob Frederick, Chair
Dr. Gary Ritchison, Graduate Coordinator/Advisor
www.biology.eku.edu
(859) 622-1531

I. GENERAL INFORMATION

The Department of Biological Sciences provides opportunities for graduate studies leading to the Master of Science degree in Biology that may include an option in Applied Ecology. Under the general program, both thesis and non-thesis plans are available. The Applied Ecology Option requires a thesis. A planned program of study, based on individual needs is selected by each student in consultation with the student's graduate committee. Students engaged in thesis work may conduct research in such areas as aquatic biology and toxicology, animal behavior and ecology, plant systematics and ecology, wildlife and conservation biology, physiological ecology, structural biology, cellular and molecular biology and microbiology.

The Master of Arts in Education degree with an option in Biology is offered by the College of Education in cooperation with the Department of Biological Sciences. Requirements for the degree are found in the College of Education section of this *Catalog*.

The Department of Biological Sciences cooperates with other natural science departments in the College of Arts and Sciences and the College of Education in offering the Master of Arts in Education with an option in Biology. This option is primarily for non-specialized science teachers and is described in the College of Education section of this *Catalog*.

MASTER OF SCIENCE Biology

II. ADMISSION REQUIREMENTS

All applicants must meet the general requirements established by the Office of Graduate Education and Research for clear admission. Final acceptance of an applicant is determined by the Graduate Affairs Committee of the Department of Biological Sciences.

All applications to the Graduate School must include: (1) three letters of recommendation, (2) scores on the verbal, quantitative, and analytical writing portions of the Graduate Record Examination, (3) a statement by the applicant defining career interests and reasons for pursuing graduate studies, and

(4) official copies of transcripts. All applicants must meet the general requirements established by the Graduate School for clear admission. In addition, applicants must have minimum scores of 350 on both the Verbal and Quantitative portions and a minimum score of 2.5 on the Analytical Writing portion of the Graduate Record Exam. Applicants should have an undergraduate major in an area of the biological sciences, including courses in general biology (equivalent to general botany and general zoology), genetics, physiology, and a field-oriented biology course. Supporting courses in chemistry, physics, and mathematics are recommended. Any deficiencies in a successful applicant's undergraduate training will be specified by the Department's Graduate Affairs Committee at the time of admission, and must be satisfied early in the graduate program.

Core Requirements — Graduate students must complete a minimum of 30-36 graduate semester hours for the Master of Science degree, depending on whether a thesis or non-thesis program is followed. At least 50 percent of the course work hours (excluding thesis hours) must be at the 800 level. The planned program of study must consist of: (1) at least 21-27 semester hours of biology including Biostatistics (BIO 710; 3 hours) or Applied Statistical Inference (STA 700; 3 hours), Scientific Literature and Writing in Biology (BIO 801; 2 hours), Graduate Seminar (BIO 890; 1 hour), and (2) nine semester hours of additional electives in biology or other courses in the natural and mathematical sciences.

A grade point average of 3.0 must be maintained; a maximum of six semester hours of course work with a grade of "C" may be applied toward degree requirements.

III. PROGRAM REQUIREMENTS

Curriculum for the Biology Thesis Program

Biology Core	6 hours
BIO 710 or STA 700, BIO 801, 890.	
Electives	18 hours
Thesis	6 hours
BIO 891 (credit will not be given for BIO 880 or BIO 881 in this program).	
Total Curriculum Requirements	30 hours

Curriculum for the Biology Non-Thesis Program

Biology Core	6 hours
BIO 710 or STA 700, BIO 801, 890.	
Electives	27 hours
Current Review in Biology	3 hours
BIO 880 (credit will not be given for BIO 891 in this option)	
Total Curriculum Requirements	36 hours*

Applied Ecology Option

Biology Core	6 hours
BIO 710 or STA 700, BIO 801, 890.	
Thesis	6 hours
BIO 891.	
Applied Ecology	11 hours
BIO 848, 849, 850; One course from BIO 714, 718, 721, 722, 724, 725, 742, 753, 754, 756, 757, 758, 761, 802, 806, 816, 845, 846, GEO 755, 756.	
Electives	7 hours
Total Curriculum Requirements	30 hours

Bioinformatics Option**Biology Core**6 hours

BIO 710 or STA 700, BIO 801, 890.

Bioinformatics*27 hours

BIO 711, CSC 730, 740 or 745, 815, 831, 834.

At the University of Louisville: CECS 660.

6 hours of applied research at the University of Louisville or the University of Kentucky.

Total Curriculum Requirements33 hours

*Courses equivalent to BIO 121, 315, 348, CSC 190, 191, 195 may be required as prerequisites.

III. EXIT REQUIREMENTS

All students must demonstrate their knowledge of biology by successfully passing at least three written comprehensive examinations and by passing an oral examination.

Thesis — Six semester hours of Thesis Research (BIO 891) are required in the 30-hour thesis program. A thesis based on the student's research must be submitted. Eighteen hours of electives will complete the requirements for the degree. The Applied Ecology Option will require completion of the thesis. Credit will not be given for BIO 880 (Current Review of Biology) or BIO 881 (Independent Study) in this program.

Non-Thesis — Three semester hours of BIO 880 (Current Review of Biology) are required in the 36-hour non-thesis program. Twenty-seven hours of electives will complete the requirements for the degree. The Applied Ecology Option cannot be completed under this plan. Credit will not be given for BIO 891 (Thesis Research) in this program.

DEPARTMENT OF CHEMISTRY

Dr. Alan Schick, Chair

Dr. Susan Godbey, Graduate Coordinator/Advisor

www.chemistry.uky.edu

(859) 622-1456

I. GENERAL REQUIREMENTS

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

The Department of Chemistry cooperates with the other natural science departments and the College of Education in offering the degree of Master of Arts in Education with an option in Physical Science. The program is primarily for non-specialized science teachers and is described more thoroughly in the College of Education section of this *Catalog*.

**MASTER OF SCIENCE
Chemistry****II. ADMISSION REQUIREMENTS**

Applicants should provide evidence of ability to pursue graduate study, and meet the general requirements for admission to the Graduate School.

Prerequisites — The following requirements must be completed prior to clear admission to graduate study: one year each of introductory chemistry, organic chemistry including laboratory and physical chemistry; one semester of analytical chemistry. Other courses normally included in the Bachelor of Science curriculum as described by the American Chemical Society may be assigned as required courses beyond the minimum 30 hours if it is ascertained that a deficiency exists. Enrollment in graduate courses will be restricted until these prerequisites have been completed.

III. PROGRAM REQUIREMENTS**Curriculum for the Chemistry Program**

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

Chemistry Core15 hours

CHE 760, 772, 822, 850, 880, 890.

Electives9 hours

800-level Chemistry, including selected topics

courses6 hours

Any graduate level course in the sciences

or mathematics3 hours

Thesis6 hours

CHE 895.....6 hours

Non-thesis Option6 hours

CHE 892.....3 hours

Three additional hours of graduate course work3 hours

Total Curriculum Requirements30 hours**IV. EXIT REQUIREMENTS**

Thesis Option — A thesis based upon the original research in the area of the student's research emphasis must be submitted. A final comprehensive oral examination in defense of the thesis and related course work is required.

Non-thesis Option — A detailed written report on a current topic in chemistry is required. A final comprehensive oral examination on the report and related course work is required.

DEPARTMENT OF COMPUTER SCIENCE

Dr. Ka Wing-Wong, Acting Chair
 Dr. Chongkye Rhee, Graduate Coordinator/Advisor
www.cs.eku.edu
 (859) 622-2398

Arts and Sciences

I. GENERAL INFORMATION

The Department of Computer Science offers the Master of Science degree in Applied Computing with options in Software Engineering, Business Computing, Bioinformatics, Industrial Computing, and Statistical Computing.

Program Objectives

The objectives of the Master of Science in Applied Computing program are:

1. To provide an advanced degree accessible to computing professionals (offered evenings and weekends).
2. To improve the technical skills of computing professionals.
3. To improve the business skills of computing professionals, especially those in contracting positions.
4. To teach the analysis and design skills needed to make wise technical choices.
5. To provide in-depth studies in specific areas of computing.
6. To provide capable computing consultants.
7. To provide teachers for community colleges and technical schools.
8. To teach legal, social, and ethical issues related to computer professionals. The legal issues include obligations and liabilities.

MASTER OF SCIENCE Applied Computing

II. ADMISSION REQUIREMENTS

To be eligible for a clear admission to graduate standing applicants must have (1) a baccalaureate degree from an accredited institution with minimum grade point average (GPA) of 2.75 overall, or 3.0 on the last 60 semester hours of the baccalaureate program, and (2) satisfactory scores on GRE or GMAT. The minimum satisfactory scores are: 1000 points of the sum of Verbal Quantitative with 600 points of Quantitative on GRE, or 500 points of Overall with 27 points of Quantitative on GMAT.

III. PROGRAM REQUIREMENTS

Curriculum for the Applied Computing Program

Core Requirements12 hours
 CSC 730, 815, 831, 834.
Option in Software Engineering12 hours
 CSC 825, 835; two of CSC 720, 745, 746, and 750.
Electives6 hours
Total Curriculum Requirements30 hours

Option in Business Computing12 hours
 CIS 850, 3 courses selected from ACC 820, ACC 850, CIS 860, FIN 824, FIN 850, CCT 850 and QMB 850.
Electives6 hours
Total Curriculum Requirements30 hours

Option in Industrial Computing12 hours
 INT 730, 801, 804, 805.
Electives6 hours
Total Curriculum Requirements30 hours

Option in Bioinformatics*24 hours
 CSC 745, BIO 710 or STA 700, BIO 711, 801, 890, CECS 660 (Introduction to Bioinformatics at U of L), plus nine (9) credit hours at 800 level Bioinformatics research at U of L.
Total Curriculum Requirements36 hours

*Courses equivalent to BIO 121, 315, 348, CSC 190, 191, 195 may be required as prerequisites.

Option in Statistical Computing12 hours
 STA 700, 701 or 785, 775, 880.
Electives6 hours
Total Curriculum Requirements30 hours

ELECTIVES

Select 6 hours of electives from the following: ACC 820, 850, BIO 710, 711, 801, 890, CCT 850, CIS 850, 870, CSC 720, 735, 740, 745, 746, 750, 812, 825, 833, 835, 842, 860, 890, 895, ECO 854, INT 706, 730, 801, 804, 805, FIN 824, 850, MAT 706, 755, 806, 871, 872, MGT 850, QMB 850, STA 700, 701, 720, 721, 775, 785, 880, TEC 830, 867. Credit in a student's declared option does not apply toward the elective requirements. At least half of the elective hours must be from 800 level courses. Also at least half of the elective hours must be CSC courses.

IV. EXIT REQUIREMENTS

Comprehensive Examination — Each candidate, near the end of the Master's program, must pass a two-hour written or oral examination designed to test the student's general knowledge of his/her program of study. The student has the option of selecting the written or oral examination.

DEPARTMENT OF ECONOMICS

Dr. Fred Ruppel, Acting Chair
www.economics.eku.edu
 (859) 622-1769

The Department of Economics provides graduate level courses as support for graduate programs in related disciplines.

DEPARTMENT OF ENGLISH AND THEATRE

Dr. James Keller, Chair
 Dr. James R. Moreton, Theatre Coordinator
 Dr. Susan Kroeg, MA Program Coordinator/Advisor
 Dr. Young Smith, MFA Program Coordinator/Advisor
 www.english.eku.edu
 (859) 622-5861

MASTER OF ARTS and MASTER OF FINE ARTS English

I. GENERAL INFORMATION

The Department of English offers a 30 hour program of study leading to the Master of Arts degree in English. The Department of English also offers a 48-hour program of study leading to the Master of Fine Arts in Creative Writing (MFA-CW) degree.

The Master of Arts in Education degree with an option in English is offered in the College of Education with the cooperation of the Department of English. The Master of Arts in Teaching degree with an option in English is also offered in the College of Education. The regulations for these degrees may be found in the College of Education section of this *Catalog*.

Graduate students in English may: prepare for careers of teaching on the college and pre-college levels; engage in literary research and composition on advanced levels; prepare for further advanced study and degrees; or pursue other pre-professional goals.

The graduate program in English is designed to train students in various areas of the discipline and provide them with both breadth and depth appropriate to the advanced level. Areas of the discipline are categorized below.

MASTER OF ARTS English

II. ADMISSION REQUIREMENTS

Applicants must meet the general requirements of the Graduate School. They must have achieved satisfactory scores on the Graduate Record Examination with at least a 400 on the verbal section and a 3.0 or better on the analytic section. For students who took the GRE before October 2002, a composite score of 1200 and a verbal score of 400 are required. They also should have completed at least an undergraduate minor in English and/or be prepared to do additional hours to remove any deficiency in their undergraduate preparations. Ordinarily a 3.0 standing must have been achieved in upper division English courses.

III. PROGRAM REQUIREMENTS

Students must complete the 9 hours of the core curriculum as outlined below, choose one area of emphasis, and earn 9 to 15 hours in the selected area. ENG 809 and 812 may be applied to either the core requirement or the Composition/Rhetorical Studies area; however, the credit earned cannot be simultaneously applied to both. Additionally, all students must complete one literature course and one course from the Language Studies/ESL area of

emphasis. Students in the American Literature emphasis must complete one non-American literature course, and students in the British Literature emphasis must complete one non-British literature course. Conferences between students and the program coordinator will ensure that elective hours are used to meet the program needs of the individual. Normally, students will not be permitted to count toward degree requirements more than 15 hours in any one area of emphasis. Also, at least half of the course work (i.e., 12 credit hours in the thesis options and 15 credit hours in the non-thesis option), excluding thesis, practicum, or internship credit, must be in courses open only to graduate students.

Core Courses9 hours
 ENG 808; 809 or 812; and 833.

Areas of Emphasis.....9-15 hours

British Literature

Choose from: ENG 730*, 750*, 825, 830*, 870, 873, 876, 878, 880.

American Literature

Choose from: ENG 730*, 750*, 830*, 850, 853, 854.

Composition/Rhetorical Studies

Choose from: ENG 700, 800, 805, 806, 809, 812, 827.

Language Studies/English as a Second Language

Choose from: ENG 710, 715, 720, 807, 810, 825, EMS 775.

Creative Writing

Choose from: ENG 700, 702, 703, 704, 803, 804.

Electives in English6-12 hours

Total Requirements30 hours

NOTE: ENG 839, 890, 898, and 899 may be counted as determined by specific subject matter and with the approval of the program coordinator, in any of the above categories.

***Because topics in ENG 730, 750, and 830 vary, the student should consult with the program coordinator to determine if a course will count toward either the British or the American literature emphasis.**

IV. EXIT REQUIREMENTS

Comprehensive Examinations — All students are required to pass a written comprehensive examination. Students seeking to complete a thesis are required to pass an oral defense of their thesis, during which they may be examined orally on related course work. Comprehensive and oral examinations will be scheduled approximately one month before the end of the student's final enrollment period in graduate work for the degree. Non-thesis students are required to complete a mentored scholarly paper which must be evaluated and approved by the departmental Graduate Studies Committee.

Thesis — The thesis is optional in this program for all emphases except Creative Writing. Students electing the thesis option will receive a maximum of six hours for ENG 898 and 899. A student wishing to write a thesis must prepare a prospectus and have it approved by the thesis committee before registering for thesis hours. The thesis must be prepared in conformity with the regulations approved by the Graduate Council and the Department of English and Theatre. Detailed information concerning the preparation and submission of the thesis may be obtained from the program coordinator.

MASTER OF FINE ARTS Creative Writing

I. GENERAL INFORMATION

This graduate program in English is designed to train students in various areas of the creative writing discipline and provide them with both depth and breadth appropriate to the advanced level. As this degree is considered terminal in the field of creative writing, students are trained to be able to teach at the college level as well as to develop their own writing talent.

Graduate students in the MFA-CW program may prepare for careers of teaching on the college and pre-college level; engage in creative writing at a PhD level; or pursue other pre-professional or personal goals.

II. ADMISSION REQUIREMENTS

Applicants are required to submit a portfolio of work in their desired concentration (poetry, fiction, or creative nonfiction) to the Department's MFA committee and have the work approved. The writing sample will consist of 15 pages of poetry or 20 pages of prose. The portfolio will also include a two-page statement of purpose that addresses the applicant's reasons for applying. Applicants should also have completed an undergraduate bachelor's degree, with at least a minor in English and/or be prepared to complete additional hours to remove any deficiency in their undergraduate preparations. Ordinarily, a 3.0 standing must have been achieved in upper-division English courses. Applicants must meet the general requirements of the Graduate School, and achieve satisfactory scores on the Graduate Record Examination. The committee reserves the right to waive certain departmental requirements in the event that a writing sample is exceptional.

III. PROGRAM REQUIREMENTS

Students must complete 48 hours in the program plus a comprehensive presentation. Each year in the program is comprised of two ten-day residencies (during which students and faculty meet in person) and 18 credit hours of online classes under the direction of our faculty of practicing writers.

Normally, mentors will be assigned during the residency, and students will be allowed to choose mentors whenever possible. Once a mentor-student relationship has been established, the pair will draw up a fourteen-week course of study that allows the student to develop his/her writing skills. Similar to an independent study, students will work on their own (reading, writing, revising) sending in work to their mentor (amount to be determined by mentor) every three weeks.

Courses.....	48 hours
ENW 800.....	3 hours
(repeatable up to 12 hours with different topics)	
ENW 810.....	3 hours
(repeatable up to 12 hours with different topics)	
ENW 820.....	6 hours
(repeatable up to 24 hours with different topics)	

IV. EXIT REQUIREMENTS

Thesis — By the time the students have taken ENW 820 Low-Residency Mentoring (6 credits) the required four times, they should have produced a book-length work of publishable quality.

Comprehensive Presentation — During the student's final residency, he/she will be required to give a researched presentation on a published writer, an element of craft, an aspect of the writing process, or other topic as approved by the Creative Writing faculty.

DEPARTMENT OF FOREIGN LANGUAGES AND HUMANITIES

Dr. Ezra Engling, Chair
www.foreignlanguages.eku.edu
(859) 622-2996

The Department of Foreign Languages and Humanities cooperates with the College of Education in offering the Master of Arts in Teaching with the option in Spanish. The program is described in the College of Education section of this *Catalog*.

DEPARTMENT OF GEOGRAPHY AND GEOLOGY

Dr. John White, Chair
Dr. Melissa Dieckmann, Graduate Coordinator/Advisor
www.geoscience.eku.edu
(859) 622-1273

I. GENERAL INFORMATION

The Department of Geography and Geology offers the Master of Science degree in Geosciences. The M.S. degree program is designed to provide students with a broad background in geology and geography (geotechniques), plus more in-depth knowledge of at least one sub-discipline of geoscience through concentrated thesis research or literature review. Students may be advised by graduate faculty members with Geography or Geology backgrounds. The program emphasizes solution of geoscience problems through combined library research, field studies, and laboratory applications.

The Department of Geography and Geology cooperates with the other natural science departments and the College of Education in offering the Master of Arts in Education with an option in Earth Science. Regulations for this degree can be found in the College of Education section of this *Catalog*.

MASTER OF SCIENCE Geosciences

II. ADMISSION REQUIREMENTS

The Department of Geography and Geology adheres to the requirements for general admission to graduate degree study as described in the General Academic Information Section of this *Catalog*. Minimum GRE score: for tests taken before October 1, 2002: combined verbal and quantitative and analytical total score of 1000; for tests taken after October 1, 2002: combined verbal and quantitative total score of 670. Prospective graduate assistants should forward three letters of recommendation directly to the Department of Geography and Geology.

Prerequisites — Applicants who have an adequate undergraduate background in geosciences (earth materials, earth processes,

and geotechniques) qualify for clear admission into the M.S. degree program. Applicants are considered to have an adequate background in earth materials if they have successfully completed an upper-division undergraduate class in petrology; otherwise, the student will be required to enroll in GLY 703 in addition to program requirements. Applicants are considered to have an adequate background in earth processes if they have successfully completed an upper-division undergraduate class in one of several earth processes (e.g., stratigraphy and sedimentation, structural geology and tectonics, geomorphology, hydrology, biogeography, or meteorology and climatology); otherwise, the student will be required to enroll in GLY 704 or an appropriate upper-division undergraduate class in addition to program requirements. Applicants are considered to have an adequate background in geotechniques if they have successfully completed an upper-division undergraduate class in Geographic Information Systems (GIS); otherwise, the student will be required to enroll in GEO 353 in addition to program requirements. They may also be required to remediate designated deficiencies in undergraduate support areas: at least one semester of introductory bioscience, one semester of introductory chemistry or geochemistry, one semester of trigonometry or higher, and one semester of “conceptual physics” or higher. It is expected that the applicant will have had at least some intensive field experience, which can be demonstrated by either successful completion of 6 credit hours of undergraduate field experience (e.g., Field Methods, Geology Field Camp) or appropriate work experience. Students that lack this background will be required to enroll in at least one 3 credit-hour graduate-level field course approved by the Graduate Program Committee as part of their program, *plus* one 3 credit-hour undergraduate-level field methods course in addition to program requirements. If the student lacks 6 credit hours of intensive field class but has had 3 credit hours of a field experience course equivalent to GLY 351, they will be expected to enroll in at least one 3 credit-hour graduate-level field course as part of their program.

III. PROGRAM REQUIREMENTS

Curriculum for the Geosciences Program

Required Core	9 hours
GLY 802, 803, 804 and GEO 753 or 756 or equivalent.	
Electives	15 hours
Graduate-level GLY and GEO courses selected with prior approval of student’s advisor; may include relevant offerings of other departments.	
Thesis.....	6 hours
GLY 899 (credit will not be given for GLY 890 in this option)	
Non Thesis.....	48 hours
GLY 890 (credit will not be given for GLY 899 in this option)	
Nine additional elective hours of graduate course work	
Total Curriculum Requirements	30-36 hours

IV. EXIT REQUIREMENTS

Thesis and Non-Thesis Options — Students in the M.S. degree program must either complete a research thesis or a comprehensive literature review of a current problem in geosciences. The student chooses the topic of the thesis or of the literature review in consultation with his/her permanent committee.

Comprehensive Examination — An oral examination in defense of the thesis or of the literature review, together with related course work, is required.

DEPARTMENT OF GOVERNMENT

Dr. Sara Zeigler, Chair
Dr. JoAnn Ewalt, Program Coordinator
www.government.eku.edu
McCreary 113
(859) 622-5931

The Department of Government offers work leading toward a Master of Public Administration.

MASTER OF PUBLIC ADMINISTRATION Public Administration

I. GENERAL INFORMATION

First of its kind in Kentucky when created in 1968, the Master of Public Administration program prepares qualified individuals, both entry level and mid career, for advanced professional positions in the administration of public and non-profit programs. The program also may be appropriate for individuals in the private sector who have responsibility for public sector contracts, regulatory compliance, or other liaison and oversight activities.

Special emphasis is placed on regional and local government. In addition to a general option, specialized programs of study are offered in community development administration, community health administration, and environmental health administration.

The MPA program is accredited by the National Association of Schools of Public Affairs and Administration.

II. ADMISSION REQUIREMENTS

For admission to the program, students must meet both the general requirements of the Graduate School and the requirements of the MPA program. Students in the MPA program come from a variety of undergraduate degree programs, and admission decisions are based on an overall assessment of a student’s application and ability to meet admission criteria of the program.

The following criteria are set for an admission: (1) a complete application; (2) students must take and submit scores for the Graduate Record Examination; (3) students granted a clear admission to the program must achieve a “Cumulative Value Index: (Undergraduate Grade Point Average times 15) plus (the sum of the percentile scores on the verbal and quantitative portions of the GRE General Exam times 0.20) equals the Cumulative Value Index; (4) letters of reference from two persons qualified to evaluate potential for successful performance in a program of graduate study in public administration must be provided to the department.

Students who meet the Graduate School minimums but do not have a Cumulative Value Index score of at least 50.0 may be granted a probationary admission. The minimum condition for transfer from probationary admission status to clear admission status is the successful completion of at least nine hours of graduate course work with a grade point average of at least 3.0 (on a 4.0 scale) and with no more than one grade, regardless of the

number of course credit hours, of “C” or lower. Students must be removed from probationary admission prior to registering in any course work beyond an initial 12 hours. At least six hours of the first 12 hours must be in the common MPA core.

III. PROGRAM REQUIREMENTS

The MPA Degree program requires satisfactory completion of a minimum of 39 credit hours. All students take a common program core of 21 credit hours. The program core consists of courses in:

- Administration, Ethics and Public Policy
- Administrative Law
- Research Methods
- Public Sector Organizations and Management
- Public Human Resources Management
- Public Finance Administration
- Policy Analysis and Program Evaluation.

In addition to these program core courses all students will enroll in and execute a “Field Study in Public Administration” for six credit hours.

While observing the above requirements, students may choose to complete the general degree program or may choose from three options within the program. Curriculum requirements for the general program and options are as follows:

General Degree Program

MPA Core.....	21 hours
POL 765, 800, 801, 875, 876, 877, and 879.	
Field Study in Public Administration	6 hours
POL 871.	
Electives	12 hours
Must have approval of advisor to count for degree.	
Total Requirements.....	39 hours

Community Health Administration Option

MPA Core.....	21 hours
POL 765, 800, 801,875,876, 877, and 879.	
Community Health Core	12 hours
All students in this option will take HEA 898 and with their advisor’s prior approval select nine hours from the following: HEA 780, 791, 798, 816, 855, 875, and 880.	
Field Study in Public Administration	6 hours
POL 871.	
Total Requirements	39 hours

Community Development Option

MPA Core.....	21 hours
POL 765, 800, 801, 875, 876, 877, and 879.	
Community Development Core	12 hours
All students in this option will take POL 845 and with their advisor’s prior approval select nine hours from the following: POL 733, 835, GEO 701, 725, ECO 780, 790, LAS 735.	
Field Study in Public Administration	6 hours
POL 871.	
Total Requirements.....	39 hours

Environmental Health Option

MPA Core.....	21 hours
POL 765, 800, 801, 875, 876, 877, and 879.	
Environmental Health Core	12 hours
All students in this option will take EHS 850, and with their advisor’s prior approval select nine hours from the following: EHS 825, 845, 855, 870, 880.	
Field Study in Public Administration.....	6 hours
Total Requirements	39 hours

Program Plan — During the first term, graduate students must meet with their advisor to develop a planned program. Students for whom program plans have not been appropriately filed will not be eligible for a second registration.

IV. EXIT REQUIREMENTS

Comprehensive Examinations — Comprehensive oral examinations are held after application for a degree has been filed and evidence exists indicating that a student should complete all degree requirements including the supervised field study.

DEPARTMENT OF HISTORY

Dr. David Coleman, Chair
Dr. Todd Hartch, Graduate Coordinator
www.history.eku.edu
 (859) 622-1287

The Department of History offers the Master of Arts in history through both thesis and non-thesis program plans. Both program plans provide courses in American and non-American history. The College of Education offers the Master of Arts in Education degree in secondary education with an option in history, and regulations for that degree may be found in the College of Education section of this *Catalog*.

MASTER OF ARTS History

I. GENERAL INFORMATION

The department strongly recommends that students who plan to seek a doctoral degree not choose the non-thesis plan. At least one-half of the course work leading to the degree must be in 800-level courses.

II. ADMISSION REQUIREMENTS

Admission is determined by the Department of History in cooperation with the Office of Graduate Education and Research. The following is required of each candidate:

Satisfactory performance on the Graduate Record Examination before or during the first summer or regular academic semester the student is enrolled.

An overall undergraduate grade point average of 2.5 or of 2.75 (on a 4.0 scale) on the last 60 semester hours of the baccalaureate program.

Completion of at least a satisfactory undergraduate minor in history or the equivalent.

Applicants must arrange for submission of three letters of recommendation directly to the department.

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

III. PROGRAM REQUIREMENTS

Thesis Plan

Foundation Course	3 hours
HIS 800: Historiography and Criticism.	
American History	9 hours*
Choose from HIS 716, 860, and/or, if topic is appropriate, 849, 864, or 865.	
European History	6 hours*
Choose from HIS 861, and/or, if topic is appropriate, 849, 864, or 865.	
Asian, African or Latin American History	3 hours*
Choose from HIS 862, 863, or, if topic is appropriate, 849, 864, or 865.	
Thesis	6 hours
HIS 899.	
History Electives	3 hours
(Choose from graduate courses in U.S., European, Asia/Africa or Latin American history.)	
Total Requirements	30 hours

*The department requires that at least one of the courses used to satisfy the eighteen credit hours represented by these three requirements cover in a substantial way a period before the year 1800.

Language — Though the department no longer maintains a language requirement, it strongly recommends that students who plan to seek a doctoral degree should acquire foreign language proficiency while completing the masters degree.

Non-Thesis Plan

Foundation Course	3 hours
HIS 800: Historiography and Criticism.	
American History	9 hours*
Choose from HIS 716, 860, and/or, if topic is appropriate, 849, 864, or 865.	
European History	6 hours*
Choose from HIS 861, and/or, if topic is appropriate, 849, 864, or 865.	
Asian, African or Latin American History	6 hours*
Choose from HIS 862, 863, and/or, if topic is appropriate, 849, 864, or 865.	
History Electives	6 hours
Choose from graduate courses in U.S., European, Asia/Africa or Latin American history.	
Total Requirements	30 hours

*The department requires at least two of the courses used to satisfy the twenty-one credit hours represented by these three requirements cover in a substantial way a period before the year 1800.

IV. EXIT REQUIREMENTS

Thesis (*Thesis Plan only*) — Each candidate must submit a thesis which demonstrates an appropriate level of skill in historical research and writing. Should the thesis topic selected require additional research skills (i.e. foreign language, statistics, or other), the candidate may be required by the graduate committee to acquire, through additional course work, the necessary skills. The student must complete six hours of thesis credit (HIS 899) and may, if extra time is needed to complete the project, register for six additional hours of thesis credit, although this extra six hours does not count as part of the thirty total credit hours needed for completion of the History M.A. program. The thesis shall be submitted to the student's major professor at least 30 days in advance of graduation. Acceptance of the thesis shall be decided by a special reading committee. This committee shall be composed of the major professor and two other faculty members recommended by the chair of the major department and appointed by the Dean of Graduate Education and Research. The committee shall complete its review of the thesis at least one week prior to the final oral examination. Two unbound copies of the accepted thesis, signed by the committee, must be deposited with the Dean of the Graduate Education and Research at least two weeks before summer commencement and three weeks prior to the end of either the fall or spring semesters.

Comprehensive Examination (*Thesis Plan*) — The program will culminate in a written comprehensive examination designed to test the student's general knowledge of history and an oral defense of the thesis.

Comprehensive Examination (*Non-Thesis Plan*) — Upon completion of course work, the student's knowledge of history will be tested by a comprehensive written examination. The program will culminate in an oral examination designed to test the student's mastery of graduate course work.

DEPARTMENT OF MATHEMATICS AND STATISTICS

Dr. Dirk Schlingmann, Chair
Dr. Matthew Cropper, Coordinator
www.math.eku.edu
(859) 622-5942

The Department of Mathematics and Statistics offers the Master of Science degree in the Mathematical Sciences. The student may elect courses from mathematics or statistics to fulfill the degree requirements.

The Master of Arts in Education degree options in Mathematics is offered in the College of Education with the cooperation of the Department of Mathematics and Statistics. The requirements for the degree may be found in the College of Education section of this *Catalog*.

MASTER OF SCIENCE Mathematical Sciences

I. GENERAL INFORMATION

Program Objectives

The objectives of the graduate Mathematical Sciences program are:

1. To provide a graduate program in the mathematical sciences leading to a degree which prepares students for careers in government or industry; for teaching at the college, junior college, or pre-college level; or for graduate study towards the Ph.D. degree in a mathematically-related field.
2. To include in this program courses in the areas of mathematics and statistics and courses demonstrating the relationships among these fields.
3. To guide students in tailoring a program of study ideally suited to their undergraduate background, aptitude, and career interests.

II. ADMISSION REQUIREMENTS

Clear admission to graduate standing will be granted to those students who have acceptable scores on the GRE, an acceptable undergraduate grade point average, and whose preparation contains the prerequisites for the core courses in mathematics. (For example, nine hours of calculus and courses in linear algebra, modern algebra and real analysis would be sufficient.) Applicants who do not have this preparation may be granted admission without required prerequisites and be required to take the undergraduate courses needed to strengthen their backgrounds. Students must also meet the general requirements of the Graduate School.

III. PROGRAM REQUIREMENTS

Mathematical Sciences Program

Curriculum for the General Program

Core Requirements15 hours
MAT 809, 810, 815, 850, and one of MAT 720, 755, 760, STA 720, 785.

Electives**15 hours
Total Curriculum Requirements30 hours

Option in Mathematics

Core Requirements15 hours
MAT 809, 810, 815, 850, and one of MAT 720, 755, 760, STA 720, 785.

Option Requirements6-12 hours
Complete at least 21 hours of courses with a MAT prefix including MAT 760, 809, 810, 815, and 750 or 850.
Only 3 hours of MAT 880 may count toward fulfilling the option requirements.

Electives**3-9 hours
Total Curriculum Requirements30 hours

Option in Computer Science

Core Requirements15 hours
MAT 809, 810, 815, 850, and one of MAT 720, 755, 760, STA 720, 785.

Option Requirements.....12 hours
CSC 730 and 831 and 6 hours from CSC 745, 746, 833, 834, 842, 880. Only 3 hours of CSC 880 may count toward fulfilling the option requirements.

Electives**3-6 hours
Total Curriculum Requirements30 hours

Option in Statistics

Core Requirements15 hours
MAT 809, 810, 815, 850, and one of MAT 755, 760, STA 720, 785.

Option Requirements9-12 hours
STA 720, 721 and 6 hours from STA 701, 775, 785, 880.
Only 3 hours of STA 880 may count toward fulfilling the option requirement.

Electives**3-6 hours
Total Curriculum Requirements30 hours

**No student can apply more than 12 hours of CSC or 12 hours of STA credits toward the M.S. degree. Each student must apply 15 hours of MAT credits, at least 12 of which are from 800 level courses, toward the M.S. degree. Electives for the general program and for the options in mathematics and statistics may include thesis, MAT 899, 3-6 hours. Those students who elect to submit a thesis for partial fulfillment of the requirements of the Master of Science in Mathematical Sciences must prepare it according to the regulations of the Office of Graduate Education and Research and the Department of Mathematics and Statistics.

IV. EXIT REQUIREMENTS

Comprehensive Examination — Each candidate, near the end of the Master's program, must pass a written examination covering the various components of the candidate's program.

DEPARTMENT OF MUSIC

Mr. Rob R. James, Chair
Dr. Karin Sehmman, Coordinator
www.music.eku.edu
(859) 622-3266

I. GENERAL INFORMATION

The Department of Music offers the Master of Music degree with options in Performance, Theory/Composition, Choral Conducting, Instrumental Conducting, and Music Education.

MASTER OF MUSIC Music — All Options

II. ADMISSION REQUIREMENTS

Applicants for admission to the Master of Music program must:

1. Meet all admission requirements of the Graduate School;
2. Hold a bachelor's degree in music or certification in music from an accredited institution;
3. Have a 2.7 overall undergraduate GPA;
4. Submit 3 letters of recommendation;
5. Must demonstrate competent applied music skills through a performance audition for either applied study or for admission to music ensembles.
6. GRE: combined score of 600-700 on the two multiple choice sections, sliding scale depending on the score on the writing section.

Admission Requirements for Individual Options

Performance Option

Candidates must audition before a committee of music faculty (taped auditions may be allowed); and must possess an undergraduate degree in music from an accredited institution.

NOTE: Voice candidates in their audition must include works in French, Italian, and German and must have either a demonstrated competency or at least two semesters of undergraduate course work in any one language—French, Italian, or German.

Choral Conducting Option

Candidates must conduct before a committee of music faculty (videotaped auditions are allowed); and must possess either an undergraduate degree in music from an accredited institution or equivalent course work.

NOTE: Before being admitted to Candidacy, students must earn an "A" in Advanced Choral Conducting.

Theory Composition Option

Candidates must submit examples of compositions and/or analytical papers for review by music faculty; and must possess either an undergraduate degree in music theory/composition from an accredited institution or course work equivalent to Eastern Kentucky University's undergraduate theory/composition requirements.

Instrumental Conducting Option

Candidates must conduct before a committee of music faculty (videotaped auditions may be allowed); and must possess either an undergraduate degree in music from an accredited institution or equivalent course work.

NOTE: Before being admitted to candidacy, students must earn an "A" in Instrumental Conducting.

Music Education Option

Candidates must either have passed the Praxis II specialty area exam in music or must submit either undergraduate papers in music or an undergraduate music portfolio. Candidates must possess either an undergraduate degree in music from an accredited institution or equivalent course work.

III. PROGRAM REQUIREMENTS

The general format of the program appears below:

Core Courses	12 hours
MUS 755 or 756 (Music Literature)*	3 hours
MUS 872 (Music History)	3 hours
MUS 884 or 887 (Music Theory)	3 hours
MUS 896, 897, or 899 (Project, Recital, or Thesis)...	3 hours

Options	10-11 hours
Options are available in performance, theory/composition, choral conducting, instrumental conducting and music education.	
Electives	9-10 hours
Total Requirements.....	32 hours

*Students who have completed MUS 555 or 556 or an equivalent course as part of their undergraduate degree program should substitute three additional hours of MUS 872.

Option in Performance

Core Courses	12 hours
Option	10 hours
Applied Music Courses	
Electives	10 hours
Total Requirements.....	32 hours

Option in Theory/Composition

Core Courses	12 hours
Option	10 hours
MUS 886 (Counterpoint)	3 hours
MUS 888 (Analytical Techniques II)	3 hours
MUS 889 (Advanced Composition)	2 hours
MUS 788 (Pedagogy of Theory).....	2 hours
Electives	10 hours
Total Requirements.....	32 hours

Option in Choral Conducting

Core Courses	12 hours
Choral Conducting option must elect MUS 756.	
Option	11 hours
MUS 765 (Advanced Choral Conducting)	2 hours
MUS 880 (Advanced Choral Procedures)	2 hours
MUS 883 (Seminar in Choral /Instrumental Conducting).....	2 hours
MUS 825 or 826 (Choir or University Singers).....	1 hour
MUS 898 (Research in Music and Music Education).....	3 hours
Applied Music.....	1 hour
Electives	9 hours
Total Requirements.....	32 hours

Option in Instrumental Conducting

Core Courses	12 hours
Instrumental Conducting option must elect MUS 755 and MUS 896.	
Option	11 hours
MUS 764 (Advanced Instrumental Conducting)	2 hours
MUS 883 (Seminar in Choral/Instrumental Conducting).....	2 hours
MUS 751 (Performance Literature) or MUS 754 (Band Lit.)	2 hours
MUS 835 or 855 (Orchestra or Band)	1 hour
Applied Music.....	1 hour
MUS 898 (Research in Music and Music Education)	3 hours
Electives	9 hours
Total Requirements.....	32 hours

Option in Music Education

Core Courses	12 hours
Option	10 hours
MUS 878 (Foundations of Music)	3 hours
MUS 885 (Psychology of Music)	3 hours
MUS 712 or 750 (Piano or Teaching Tech)	1 hour
MUS 898 (Research in Music and Music Education)	3 hours
Electives	10 hours
Total Requirements	32 hours

IV. EXIT REQUIREMENTS

Comprehensive Examination — The program will be culminated by a written or oral comprehensive examination testing the candidate's general knowledge of music. Performance majors must have their recital hearing forms complete at the time the comprehensive exam is scheduled.

Thesis — The thesis is optional in this program.

**DEPARTMENT OF PHILOSOPHY
AND RELIGION**

Dr. Steven Parchment, Chair
www.philosophy.eku.edu
(859) 622-1400

The Department of Philosophy and Religion provides graduate level courses as support for graduate programs in related disciplines.

**DEPARTMENT OF PHYSICS AND
ASTRONOMY**

Dr. Tom Otieno, Acting Chair
www.physics.eku.edu
(859) 622-1521

The Department of Physics and Astronomy cooperates with the other natural science departments and the College of Education in offering the Master of Arts in Education with option in Physical Science. The program is primarily for non-specialized science teachers and is described in the College of Education section of this *Catalog*.

DEPARTMENT OF PSYCHOLOGY

Dr. Robert Brubaker, Chair
Dr. Donald Beal, Coordinator, Clinical Psychology
Dr. Andrea Hale, Coordinator, School Psychology
Dr. Robert Mitchell, Coordinator, General Psychology
Dr. Jerry Palmer, Coordinator, I/O Psychology
www.psychology.eku.edu
(859) 622-1105

I. GENERAL INFORMATION

The Department of Psychology offers the Master of Science degree in Clinical Psychology and Industrial and Organizational Psychology, General Psychology, and the Specialist in Psychology (Psy.S.) degree in School Psychology. Clinical psychology students may elect to complete a program for "Providing Services to the Deaf/Hard-of-Hearing" in cooperation with the Department of Special Education. The department also cooperates with the College of Education in offering course work for the Master of Arts in Education with an option in psychology. Requirements for this degree may be found in the College of Education section of this *Catalog*.

**MASTER OF SCIENCE and
SPECIALIST IN PSYCHOLOGY****II. ADMISSION REQUIREMENTS**

Candidates must satisfy the following special requirements.

A minimum of five undergraduate courses in psychology: general psychology, statistics, and experimental psychology are required, as well as two other courses acceptable to the departmental admissions committee. An undergraduate course in industrial and organizational psychology or related course is required for the industrial and organizational psychology program. A minimum overall undergraduate grade point average of 2.5, or 2.75 for the last 60 hours, is a Graduate School requirement. Satisfactory performance on the general sections of the Graduate Record Examination is required prior to admission. A minimum combined score of 750 (Verbal and Quantitative) on the GRE is required for full consideration to all graduate programs in the Department of Psychology. Admission is competitive and limited to available space. Meeting the minimum requirements, therefore, does not guarantee admission. Candidates must arrange for submission of three letters of recommendation directly to the department, two related to the undergraduate major, with at least one from psychology faculty.

Applications should be received by March 15. Notification regarding admission normally will be made in April. Students applying later may be accepted as space is available.

III. PROGRAM REQUIREMENTS**Clinical Psychology Program**

Requirements for the degree are a minimum of 60 graduate hours including six credit hours for the 16 week internship. Advanced practicum and internship placements should reflect the selected clinical emphasis.

Research Courses	9 hours
PSY 820, 846, and (888 or 890 or approved elective).	
Theory Courses	16 hours
PSY 826, 837, 840, 841, 847, 853.	
Techniques Courses	19 hours
PSY 824, 825, 827, 850, 857, 860, 871.	
Experiential Course	16 hours
PSY 843 (10 hours), 899.	
Total Requirements	60 hours

Clinical psychology students may elect to complete a program for “Providing Services to the Deaf/Hard-of-Hearing” in cooperation with the Department of Special Education. This is designed to meet the needs of individuals trained as clinical psychologists who seek to provide a range of psychological services, including assessment and psychotherapy, to deaf or hard-of-hearing children and adults. The program provides an introduction to deaf culture and the development of communication skills through the following course work cluster:

Prerequisite Courses**	15 hours
SED 101, 102, 115, 201, 202.	
** These courses or the equivalent of these courses demonstrated through proficiency in American Sign Language and an equivalent orientation to deafness.	
Required Courses	9 hours
SED 830, PSY 845, and an additional requirement that three hours of PSY 843 must be earned in a practicum setting serving deaf or hard-of-hearing clients.	

General Psychology

A total of 33 credit hours is required for candidates for the Master of Science in General Psychology. In addition to 18 credit hours of required courses, 9 credit hours of electives approved by the student’s graduate advisor are required. A total of 6 credit hours of master’s thesis is required (students enrolled in the Specialist in School Psychology may substitute 6 credit hours of electives approved by the coordinator of the School Psychology program).

Psychological Foundations	18 hours
PSY 820, 837, 840, 847, 853, 862.	
Electives	9 hours
Thesis (or additional electives for School Psychology students)	
.....	
Total Requirements	33 hours

Industrial and Organizational Psychology

A total of 49 credit hours is required of candidates for the Master of Science in Industrial and Organizational Psychology. In addition to 34 hours of required courses, 3 credit hours of either thesis, master’s research project, or an approved elective and 6 credit hours of practica are required. Another 6 credit hours of electives are chosen after consultation with the program coordinator in light of the student’s academic and professional goals.

Psychological Foundations	19 hours
PSY 790, 820, 826, 837, 862, 868, and 888 or 890 or approved elective.	
Industrial and Organizational Psychology Core	18 hours
PSY 844, 870, 872, 873, 874, 875.	
Practicum	6 hours
PSY 843.	
Electives**	6 hours
Total Requirements	49 hours

**Courses from other disciplines such as general business, economics, management, marketing, political science, health education, and loss prevention and safety may be suitable as electives. Electives must be approved by the program coordinator, the student’s graduate committee, and the relevant department before the courses are taken.