

Curriculum Change Form
(Present only one proposed curriculum change per form)
(Complete only the section(s) applicable.)

Part I

<input type="checkbox"/> (Check one) New Course (Parts II, IV)	Department Name Earth Sciences																						
<input type="checkbox"/> Course Revision (Parts II, IV)	College Arts & Sciences																						
<input type="checkbox"/> Course Dropped (Part II)	*Course Prefix & Number																						
<input type="checkbox"/> New Program (Part III)	*Course Title (30 characters)																						
<input checked="" type="checkbox"/> Program Revision (Part III)	*Program Title Geology (M.S.)																						
<input type="checkbox"/> Program Suspended (Part III)	*Provide only the information relevant to the proposal. (Major <input checked="" type="checkbox"/> , Option <input type="checkbox"/> ; Minor <input type="checkbox"/> ; or Certificate <input 1"="" style="width: 100%; border-collapse: collapse;" type="checkbox/>)</td> </tr> </table>
 <table border="/> <tr> <td style="width: 30%;">Proposal Approved by:</td> <td style="width: 30%; text-align: center;"><u>Date</u></td> <td style="width: 40%;"></td> </tr> <tr> <td>Departmental Committee</td> <td style="text-align: center;">09/12/05</td> <td>Graduate Council* <u>Date</u> 11/9/05</td> </tr> <tr> <td style="text-align: center;"><i>Is this a SACS Substantive Change?</i></td> <td style="text-align: center;">Yes*** <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td>Council on Academic Affairs</td> </tr> <tr> <td>College Curriculum Committee</td> <td style="text-align: center;">10/17/05</td> <td>Approved <input type="checkbox"/> Disapproved <input type="checkbox"/></td> </tr> <tr> <td>General Education Committee*</td> <td style="text-align: center;">NA</td> <td>Faculty Senate**</td> </tr> <tr> <td>Teacher Education Committee*</td> <td style="text-align: center;">NA</td> <td>Board of Regents**</td> </tr> <tr> <td></td> <td></td> <td>Council on Postsecondary Edu.*** NA</td> </tr>		Proposal Approved by:	<u>Date</u>		Departmental Committee	09/12/05	Graduate Council* <u>Date</u> 11/9/05	<i>Is this a SACS Substantive Change?</i>	Yes*** <input type="checkbox"/> No <input checked="" type="checkbox"/>	Council on Academic Affairs	College Curriculum Committee	10/17/05	Approved <input type="checkbox"/> Disapproved <input type="checkbox"/>	General Education Committee*	NA	Faculty Senate**	Teacher Education Committee*	NA	Board of Regents**			Council on Postsecondary Edu.*** NA
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*If Applicable (Type NA if not applicable.)
**Approval needed for new, revised, or suspended programs
***Approval/Posting needed for new degree program or certificate program
****If "yes", SACS must be notified before implementation. Please contact EKU's Office of Institutional Effectiveness.

Completion of A, B, and C is required: (Please be specific, but concise.)

A. 1. Specific action requested: (Example: To increase the number of credit hours for ABC 100 from 1 to 2.)
To rename the Geology (M.S.) program the Geosciences (M.S.) program to more accurately reflect the interdisciplinary scope of the revised program, and to revise the curriculum to allow a greater (and equal) role for faculty from the Department of Geography to participate.

A. 2. Effective date: (Example: Fall 2001)
Fall 2006

A. 3. Effective date of suspended programs for currently enrolled students: (if applicable)

B. The justification for this action:
The M.S. program is being revised to become more interdisciplinary, involving faculty from both the Departments of Earth Sciences and Geography. The core is being revised to include advanced geotechniques. Graduate-level geography classes will be offered as electives. It is anticipated that this will allow and encourage more students to enroll in our program, and will provide all students with a strong background in geotechnical skills.

C. The projected cost (or savings) of this proposal is as follows:

Personnel Impact:
none

Operating Expenses Impact:
none

Equipment/Physical Facility Needs:
none

Library Resources:
none

Part III. Recording Data for New, Revised, or Suspended Program

1. For a new program, provide the catalog description as being proposed.
2. For a revised program, provide the current program requirements using ~~strike through~~ for deletions and underlines for additions.
3. For a suspended program, provide the current program requirements as shown in catalog. List any options and/or minors affected by the program's suspension.

New or Revised* Program Text

The Department of Earth Sciences and the Department of Geography jointly offer the Master of Science degree in Geology 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 geology geoscience through concentrated thesis research or literature review. Students may be advised by graduate faculty from either the Department of Earth Sciences or the Department of Geography. ~~Sub-disciplines of geology recommended for thesis research or literature review include~~ geochemistry, surficial geology, geomorphology, hydrogeology, paleontology, petrology, sedimentology, stratigraphy, structural geology, and tectonics. The program emphasizes solution of geologic geoscience problems through combined library research, field studies and laboratory applications. The Department of Earth Sciences 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

Geology Geosciences

Admission – The Department of Earth Sciences and Department of Geography 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 test taken before October 1, 2002: combined verbal and quantitative, and analytical test score of 1000: for test 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 Earth Sciences.

Prerequisites – ~~Applicants who have completed an undergraduate major in geology equivalent to the Bachelor of Science degree in Geology at Eastern Kentucky University have an adequate undergraduate background in geosciences (earth materials, earth processes, and geotechniques) and supporting sciences qualify for clear admission into the M.S. degree program. Applicants who have completed an undergraduate major in another science or mathematics can qualify for admission but they may be required to complete GLY 703 and/or GLY 704 in addition to program requirements, and GLY 750 as part of their 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. All students must successfully complete an approved geology field camp, either with their undergraduate program or before completing the M.S. degree in Geology. Other field experience may qualify as a substitute for the geology field camp requirement. 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, then they will be expected to enroll in at least one 3 credit-hour graduate-level field course as part of their program.~~

CAS-98

Candidacy – In order to qualify for admission to candidacy for the M.S. degree program, the student must have: (1) achieved clear admission; (2) completed all deficiencies as designated; (3) achieved a 3.0 grade point average for all graduate course work.

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 geology. The student chooses the topic of the thesis or of the literature

Geology Geosciences Program

Required Core..... **6 9 hours**
GLY 802, 803, 804, and GEO 753 or 756 or equivalent.

Distribution Electives..... **9 hours**

Must take three hours from three of the following four broad subject areas.

1. Earth Materials: GLY 712, 822, 823; and GLY 780 & 880, if so designated.*
2. Earth Processes: GLY 805, 821, 860; and GLY 780 and 880, if so designated.*
3. Historical and Regional Geology: GLY 750; and GLY 780 and 880, if so designated.*
4. Applied Geology: GLY 735, 740, 836, 837, 838; and GLY 780 & 880, if so designated.*

***GLY 780 & 880 are variable topic courses, dependent on student interest and available resources; designation to one of the above subject areas is at the discretion of the Department Graduate Committee.**

Other Electives..... **9 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..... **12 hours**

GLY 890 (credit will not be given for GLY 899 in this option)..... 3 hours

Nine additional elective hours of graduate course work..... 9 hours

Total Curriculum Requirements..... **30-36 hours**

~~*Students with a baccalaureate degree other than in geology may be required to complete GLY 703 and/or GLY 704 in addition to the above prior to candidacy and GLY 750.~~