

Curricular Action Workflow



Missouri State / Computer Services - MIS / Curricular Action Workflow / **CAW - New Program Proposal Form**

New Program Proposal Form

Submitted on 05/06/2020 by Kevin Mickus (Kevinmickus@missouristate.edu).

This form is to be used for internal Missouri State approval of any proposal for a new program involving two or more courses, including any new graduate program, new undergraduate major (whether comprehensive or non-comprehensive), new option within an existing program (whether graduate or undergraduate), new minor, new certificate, or new certification program.

New graduate programs, new undergraduate majors, and certificate programs involving more than 18 credit hours require approval by the CBHE as well as approval through the Missouri State curricular process. CBHE applications for such programs are processed through the Office of Institutional Research. All proposals for new programs requiring CBHE approval should progress through the Missouri State curricular process accompanied by a draft of the required CBHE documentation.

Department:

Geography, Geology, & Planning

Proposed Program Title:

Geoarchaeology

Choose One:

- | | |
|---|--|
| <input type="radio"/> Non-Comprehensive Undergraduate Major | <input type="radio"/> Option |
| <input type="radio"/> Comprehensive Undergraduate Major | <input type="radio"/> Minor |
| <input type="radio"/> Graduate Program | <input checked="" type="radio"/> Certificate |

(Note: If the option you need is not listed above contact curriculum@missouristate.edu)

Does this program include any new courses?

No Yes (A corresponding new course form must be submitted to create each new course.)

Select Degree Type (or Select Graduate Certificate or Undergraduate Certificate):

UGCT - Undergraduate Certificate

General Education Courses Required:

GLG 110

Total Hours: 4

General Education Courses Recommended:

none

Total Hours: 0

Requirements (including Admission) and Limitations for Specific Degree/Program:

Must take GLG 110 and ANT 305, then one more elective class in GGP, and one more elective in ANT. The certificate is open to all students. The students must have an average cumulative grade point average of 2.50 or better in these courses to receive the certificate. Students must satisfy all prerequisites for any courses they take in the program or they must obtain instructor approval to waive any prerequisites.

Total Hours: 13

Courses Required in Department:

GLG 110

Total Hours: 4

Courses Required in Other Departments:

ANT 305

Total Hours: 3

Prerequisites for Required Courses:

none

Recommended Electives in Department:

GLG 314- Historical Geology; GLG 590-Applied Geophysics; GRY 348-Geomorphology

Total Hours: 3

Recommended Electives in Other Departments:

ANT 340-Complex Societies; ANT 345-Historical Archaeology; ANT 351-Field Archaeology; ANT 355-Environmental Archaeology; ANT 360-North American Archaeology; ANT 545-Cultural Resource Management; ANT 550-Advanced Methods in Archaeology

Total Hours: 3

Limitations on Electives:

There are no limitations on electives. For GLG 590, the Physics and Math requirements may be waived.

Please attach the following documents: (only one file may be attached for each requirement; accepts file types of PDF, DOC or DOCX)

1. Statement of Rationale: *Attached* [View Attachment](#)
2. Estimated costs for first five years: *Attached* [View Attachment](#)
3. Complete catalog description (including new courses and course changes pending approval): *Attached* [View Attachment](#)
4. If proposal is for a new degree program, you must submit an application to the Missouri Department of Higher Education (MDHE).
 - A. Use the templates below to create your application.
[New Undergraduate Major \(or certificate with more than 18 hours\)](#) | [New Graduate Program \(or certificate with more than 18 hours\)](#)
 - B. Upload and attach the completed MDHE application. *Not Attached*

*If you require assistance to complete the application, contact Julie Masterson, Graduate College, 836-5335.

What is the date that this new program was approved by departmental or program faculty? (MM/DD/YYYY)

05/08/2020

Current Status:

College Council Review

Proposal Progress:

05/08/2020 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

05/08/2020 - Department Head Review - Toby Dogwiler - Approved by vote of GGP Faculty

No review notes have been added.

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Last Updated: 08/24/2020 07:34 [Contact Information](#)

Undergraduate Certificate-Geoarchaeology

Geography, Geology and Planning Geophysics, and Sociology and Anthropology Certificate

13 credits

Take these two classes

4 cr- GLG 110 Principles of Geology

3 cr- ANT 305 Introduction to Archaeology

3 cr- Take one of the following classes in Geology or Geography

GLG 314- Historical Geology; GLG 590-Applied Geophysics; GRY 348-Geomorphology

3 cr- Take one of the following classes in Anthropology

ANT 340-Complex Societies; ANT 345-Historical Archaeology; ANT 351-Field Archaeology; ANT 355-Environmental Archaeology; ANT 360-North American Archaeology; ANT 545-Cultural Resource Management; ANT 550-Advanced Methods in Archaeology

1. Rational-Geoarchaeology uses a wide variety of geology, geophysics, geographical and archaeological methods to investigate archaeological sites. The above courses will be taken by our students to broaden their educational and employment opportunities and to increase their knowledge of using geological and archaeological methods in their jobs.

2. The courses required and recommended for the Geoarchaeology certificate are already offered by the GGP, Sociology and Anthropology Departments. There are no new costs for this certificate. The archaeological portion of the certificate has been approved by Dr. Elizabeth Sobel and Scott Worman from Sociology and Anthropology.

3. Catalog Description

This certificate is offered by the Geography, Geology and Planning Department. The certificate provides the coursework to broaden the student's background of both the geological and archaeological methods of geoarchaeology. The courses provide the student with the background to apply the methods to investigate archaeological sites and to obtain the background to pursue geoarchaeology at the undergraduate and/or graduate level.

4. Admission Criteria

The Geoarchaeology Certificate program is open to all interested persons.

5. Completion Requirements

Students must take a minimum of four courses, two which are required and two from the elective list, with one class from GGP and the other class from Sociology and Anthropology. The

students must have an average cumulative grade point average of 2.50 or better in these courses to receive the certificate. Students must satisfy all prerequisites for any courses they take in the program or they must obtain instructor approval to waive any prerequisites.

Undergraduate Certificate-Geoarchaeology

Geography, Geology and Planning Geophysics, and Sociology and Anthropology Certificate

13 credits

There are no new courses being proposed by this certificate. All the courses are regularly taught courses in both GGP and Sociology and Anthropology. There are no other extra costs associated with this certificate.

Undergraduate Certificate-Geoarchaeology

Geography, Geology and Planning Geophysics, and Sociology and Anthropology Certificate

13 credits

Take these two classes

4 cr- GLG 110 Principles of Geology

3 cr- ANT 305 Introduction to Archaeology

3 cr- Take one of the following classes in Geology or Geography

GLG 314- Historical Geology; GLG 590-Applied Geophysics; GRY 348-Geomorphology

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ANT 355-Environmental Archaeology; ANT 360-North American Archaeology; ANT 545-
Cultural Resource Management; ANT 550-Advanced Methods in Archaeology

3. Catalog Description

This certificate is offered by the Geography, Geology and Planning Department. The certificate provides the coursework to broaden the student's background of both the geological and archaeological methods of geoarchaeology. The courses provide the student with the background to apply the methods to investigate archaeological sites and to obtain the background to pursue geoarchaeology at the undergraduate and/or graduate level.

Curricular Action Workflow



Missouri State / Computer Services - MIS / Curricular Action Workflow / **CAW - New Program Proposal Form**

New Program Proposal Form

Submitted on 08/26/2020 by Kevin Mickus (Kevinmickus@missouristate.edu).

This form is to be used for internal Missouri State approval of any proposal for a new program involving two or more courses, including any new graduate program, new undergraduate major (whether comprehensive or non-comprehensive), new option within an existing program (whether graduate or undergraduate), new minor, new certificate, or new certification program.

New graduate programs, new undergraduate majors, and certificate programs involving more than 18 credit hours require approval by the CBHE as well as approval through the Missouri State curricular process. CBHE applications for such programs are processed through the Office of Institutional Research. All proposals for new programs requiring CBHE approval should progress through the Missouri State curricular process accompanied by a draft of the required CBHE documentation.

Department:

Geography, Geology, & Planning

Proposed Program Title:

Graduate-Applied Geophysics

Choose One:

- | | |
|---|--|
| <input type="radio"/> Non-Comprehensive Undergraduate Major | <input type="radio"/> Option |
| <input type="radio"/> Comprehensive Undergraduate Major | <input type="radio"/> Minor |
| <input type="radio"/> Graduate Program | <input checked="" type="radio"/> Certificate |

(Note: If the option you need is not listed above contact curriculum@missouristate.edu)

Does this program include any new courses?

No Yes (A corresponding new course form must be submitted to create each new course.)

Select Degree Type (or Select Graduate Certificate or Undergraduate Certificate):

GRCT - Graduate Certificate

General Education Courses Required:

none

Total Hours: 0

General Education Courses Recommended:

none

Total Hours: 0

Requirements (including Admission) and Limitations for Specific Degree/Program:

Must take GLG 691 and GLG 690 and take two of the following: GLG 674; GLG 673; GLG 794; MTH 607; MTH 648; PHY 692; MAT 792. Admission is open to all with a Bachelor's degree from a college or university accredited by agencies recognized by Missouri State University

Total Hours: 12

Courses Required in Department:

GLG 690 and GLG 691

Total Hours: 6

Courses Required in Other Departments:

None

Total Hours: 0

Prerequisites for Required Courses:

GLG 340; and either PHY 124 or PHY 204; and either MTH 280 or MTH 288, or permission of instructor

Recommended Electives in Department:

GLG 794; GLG 674; GLG 673

Total Hours: 7

Recommended Electives in Other Departments:

MTH 607; MTH 648; PHY 692; MAT 792

Total Hours: 6

Limitations on Electives:

None

Please attach the following documents: (only one file may be attached for each requirement; accepts file types of PDF, DOC or DOCX)

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2. Estimated costs for first five years: *Attached* [View Attachment](#)
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 - B. Upload and attach the completed MDHE application. *Not Attached*

*If you require assistance to complete the application, contact Julie Masterson, Graduate College, 836-5335.

What is the date that this new program was approved by departmental or program faculty? (MM/DD/YYYY)

05/08/2020

Current Status:

Grad Council Review

Proposal Progress:

08/27/2020 - Submitted by Department Head (Toby Dogwiler)

08/28/2020 - Reviewed by Dean (Tamera Jahnke)

Review Comments:

08/27/2020 - Department Head Review - Toby Dogwiler - This is a resubmit to address issues brought up the Graduate Faculty Screening Committee at their meeting on 8/26/2020.

No review notes have been added.

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Graduate Certificate-Applied Geophysics

Geography, Geology and Planning Geophysics Certificate

12 cr

Take these two classes

3 cr- GLG 690 Applied Geophysics

3 cr- GLG 691 Seismic Data Processing

6 cr- Take two of the following classes

GLG 674- Petroleum Geology; GLG 673-Engineering Geology; GLG 794-Global Tectonics

MTH 607-Introduction to Partial Differential Equations; MTH 648-Applied Time Series Analysis

PHY 692-Computational Methods and Data Analysis in Physical Sciences; MAT 792-Introduction to Computational Material Sciences

1. Rational-Geophysics is one of most commonly used methods in applied Earth Sciences in studying the Interior of the Earth. Seismic, electrical, gravity and magnetic methods are used in petroleum, mining, water and environmental exploration studies. The above courses will be taken by our students to broaden their educational and employment opportunities and by local environmental company personnel to increase their knowledge of using geophysical methods in their jobs.

2. The courses required and recommended for the Applied Geophysics certificate are already offered by the GGP, Physics and Math Departments. There are no new costs for this certificate.

3. Catalog Description

This certificate is offered by the Geography, Geology and Planning Department. The certificate provides the coursework to broaden the student's background of geophysics both the applied and theoretical portions of geophysics. The courses provide the student with the background to apply geophysics to petroleum, mining, and environmental problems and to obtain the background to pursue advance geophysics at the graduate level.

4. Admission Criteria

Graduate Applied Geophysics Certificate program is open to all with a Bachelor's degree from a college or university accredited by agencies recognized by Missouri State University

5. Completion Requirements

Students must take a minimum of four courses, two which are required and two from the elective list. The students must have an average cumulative grade point average of 3.00 or better in these courses to receive the certificate. Students must satisfy all prerequisites for any courses they take in the program or they must obtain instructor approval to waive any prerequisites.

Graduate Certificate-Applied Geophysics

The courses required and recommended for the Graduate Applied Geophysics certificate are already offered by the GGP, Physics, Astronomy and Material Sciences, and Math Departments. There are no new costs for this certificate.

Graduate Certificate-Applied Geophysics- Catalog Description

The courses required and recommended for the Graduate Applied Geophysics certificate are already offered by the GGP, Physics, Astronomy and Material Sciences, and Math Departments. There are no new costs for this certificate.

Graduate-Applied Geophysics

This certificate provides a program for students and professionals who desire knowledge of the methods and theories of applying geophysical techniques to the study of Earth systems.

Program requirements (12 hours)

- A. **GLG 690(3), 691(3)**
- B. Select two of the following: **GLG 673(3), 674(3); GLG 794(4); MTH 607(3), 648(3); PHY 692(3), MAT 792(3)**
- C. All candidates must satisfy the **General University Certificate Requirements**.

Note: Students completing a major other than Geology may request a waiver of the GLG 340 prerequisite requirement for GLG 690 and GLG 691