

New Course Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

- New COURSE
- New REGULAR PERMANENT SECTION of an existing variable content course. If a new regular section of an existing variable topics course, enter the existing course number below

Course Code:

Course Number: ([Check Availability](#))

Course Title:

Will this course become part of a program? No Yes (A corresponding program change form must be submitted)

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Prerequisite/Co-requisite or enter 'None':

Catalog Course Description: (Include any Pass/Not Pass grading restrictions, repeatable limits, limitation on course applicability, UG/GR parallel course, etc.)

The story of Earth's history and how our planet functions is recorded in the planet's rocks and sediments. This course will introduce students to the geologic principles that have been used by geologists to decipher that rock record and unlock our understanding of the dynamic Earth. The interior structure and composition of the Earth are explored and students learn how those characteristics drive plate tectonic process. In turn, plate tectonic processes cause earthquakes, volcanoes, rock formation, and mountain building and allow geologists to predict where geologic hazards and mineral resources will occur. An emphasis will also be placed on the surface processes that shape the human and natural environment, including stream, groundwater, glaciers, wind, marine, and shoreline processes. Students wishing to fulfill the General Education laboratory requirement should also take GLG 116. Cannot be taken Pass/Not Pass.

929/30000 character limit.

Credit Hours: Lecture Contact Hours: Lab Contact Hours:

Note: If variable credit, enter the highest number and add to end of course description. (e.g. "Variable credit, may be taken 1-3 hours.")

Periodicity. Check all that apply.

- Fall Fall (even-numbered years only) Fall (odd-numbered years only)
- Spring Spring (even-numbered years only) Spring (odd-numbered years only)
- Summer On Demand only

Complete Catalog Description:

GLG 113 Earth: The Instruction Manual

Prerequisite: None

The story of Earth's history and how our planet functions is recorded in the planet's rocks and sediments. This course will introduce students to the geologic principles that have been used by geologists to decipher that rock record and unlock our understanding of the dynamic Earth. The interior structure and composition of the Earth are explored and students learn how those characteristics drive plate tectonic process. In turn, plate tectonic processes cause earthquakes, volcanoes, rock formation, and mountain building and allow geologists to predict where geologic hazards and mineral resources will occur. An emphasis will also be placed on the surface processes that shape the human and natural environment, including stream, groundwater, glaciers, wind, marine, and shoreline processes. Students wishing to fulfill the General Education laboratory requirement should also take GLG 116. Cannot be taken Pass/Not Pass.

Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0

Typically offered: Fall, Spring

Include sample syllabus (list topics, course goals.) Use text box OR upload only file types of DOC or DOCX.

0/30000 character limit.

Attached [View Attachment](#)

Purpose of Course

An introductory-level, physical science general education course covering the principles of geology with a theme of "how the Earth works". This course will replace the current GLG 110 Principles of Geology. We are splitting the lab and lecture into separate courses. that is GLG 110 will be replaced by GLG 113 (lecture) and GLG 116 (lab). Students will be able to choose whether or not to take the lab with GLG 113 (similar to CHM 160 and 161 and BIO 101 and 111). Note: the current GLG 172 Physical Geology Laboratory course will be renumbered and renamed to become GLG 116.

583/30000 character limit.

Relationship to Other Departments

GLG 113 is replacing the lecture portion of the current GLG 110 course, which is used as a prerequisite, requirement, or elective in many courses and programs across campus. The Academic Unit Leader of each department that lists GLG 110 in there requirements have been notified and advised of the changes (including the separation of the lab portion of the course into GLG 116) and requested to make the necessary curricular changes to reflect the deletion of GLG 110 and the addition of GLG 113 (and renaming of GLG 172 to GLG 116).

537/30000 character limit.

Is there a graduate/undergraduate parallel course to this one? No Yes

Enter parallel course number

Input field containing "nullnull null"

How do these classes differ?

Large empty text area for describing differences between classes.

0/30000 character limit.

New Course Resource Information

Anticipated Average Enrollment per section:	<input type="text" value="45"/>	Maximum Enrollment Limit per section:	<input type="text" value="120"/>
Anticipated Average Enrollment per semester:	<input type="text" value="225"/>	Maximum Enrollment Limit per semester:	<input type="text" value="300"/>
Anticipated Average Enrollment per year:	<input type="text" value="450"/>	Maximum Enrollment Limit per year:	<input type="text" value="600"/>
Faculty Load Assignment (equated hours):	<input type="text" value="3"/>		

Is another course being deleted? No Yes

Select course number and title being deleted.

GLG110 Principles of Geology

What will this course require in the way of:

Additional library Holdings

None

4/30000 character limit.

Additional computer resources

None

4/30000 character limit.

Additional or remodeled facilities

None

4/30000 character limit.

Additional equipment or supplies

None

4/30000 character limit.

Additional travel funds

None

4/30000 character limit.

Additional faculty; general vs specialized

None

4/30000 character limit.

Additional faculty; regular vs per-course

None

4/30000 character limit.

Other additional expenses

None

4/30000 character limit.

If additional faculty are not required, how will faculty be made available to teach this course?

N/A

3/30000 character limit.

List names of current faculty qualified and available to teach this course

Any of the Geology faculty in SEES (Bassett, Evans, Dogwiler, Gouzie, Gutierrez, McKay, Michelfelder, Mickus, Rovey)

116/30000 character limit.

What is the anticipated source of students for this course?

A student seeking general education credits in the physical sciences and students seeking to major, minor, or complete a certificate in geology (and some other SEES programs).

175/30000 character limit.

If from within the department, will students be taking this course in addition to or in place of other courses?

Students who would have formerly taken GLG 110 will now take GLG 113 and GLG 116

80/30000 character limit.

If from outside the department, which courses in other departments would most likely be affected?)

None. If a course currently has a prerequisite of GLG 110, then the department offering that course will choose whether to revise that prerequisite to GLG 113 or GLG 113 and GLG 116

182/30000 character limit.

Other comments:

The proposal of GLG 113 as a new course is part of a group of related curricular changes being submitted simultaneously by SEES regarding our introductory-level general education geology courses. The proposed curricular changes serve several purposes. Firstly we are renaming the courses to move away from traditional names that have increasingly little relevance to students. For example, “GLG 110 Principles of Geology” does a poor job communicating what the course is about to the average student. Many students have had limited exposure to Geology and few truly understand the motivating questions that drive the science. Most hear the term “Geology” and think about oil or “digs” (which is really an archaeology thing, not geology). The new names are meant to be intriguing and to cause a student to stop for a second and think “what do they mean by that”. The proposed names better evoke the goals and themes that drive those who practice the discipline: “how does the Earth work?” and “how do humans interact with, effect, and adapt to the environments in which we live?” Our most popular general education geology course (GLG 115) already has a name that clearly expresses the theme of the course. The proposed names for the other courses are meant to emulate that approach.

Secondly, the proposed changes separate the lab from the current GLG 110 lecture course and turns the existing GLG 172 lab course into the “add on” laboratory option for students that wish to satisfy their general education lab requirement. Current MSU General Education courses, such as CHM 160 and 161, have already instituted this type of lecture and laboratory separation. This provides flexibility to students allowing them more course options relative to their preferences and scheduling restraints (i.e., if the GLG 110 lecture doesn’t fit into their schedule they could take GLG 171 instead and add the lab to either, if needed). The separate lecture and laboratory model also works better with MOTR 42. Different community colleges vary in whether they offer a lab with these courses so the proposed model will streamline transfers.

It is worth noting that GLG 115 is a life science course and we are proposing that it could be combined with the physical science lab (GLG 116). We don’t see this as an issue in either the MSU General Education or in MOTR 42. A student would still have to take both a life science and a physical science lecture course to fulfill their general education requirements. Both general education programs allow students to choose either a life science or a physical science lab. The GLG 116 laboratory contains hands-on content that is directly relevant to all three of the lecture courses, including GLG 115. Thus, the life science concepts focused upon in GLG 115 are well complemented by the physical science laboratory in GLG 116. While GLG 115 discusses life science concepts about ancient ecosystem organisms, and their taxonomy, the GLG 116 lab helps students understand the characteristics of the rocks and the stratigraphy from which the evidence for these fossil organism and ancient environments come.

Lastly, the proposed changes include re-numbering the courses into a sequence that clarifies their relationship to one another. We believe it would be confusing to expect that students and advisors from other programs would understand that the GLG 172 lab pairs with GLG 115 or GLG 171. The revised sequential course order should be more intuitive because it follows existing analogs such as CHM 160 and CHM 161 or CHM 170 and CHM 171.

3592/30000 character limit.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

Table of Contents

Section 1, pg. 2-5:

GLG 113 Syllabus

Section 2, pg. 6-8:

Overview of simultaneously submitted curricular change proposals related to this proposal

Course Syllabus and Policy Statement

GLG 113: Earth: The Instruction Manual

INSTRUCTOR CONTACT INFORMATION:

Instructor Name:

Email:

Office Hours:

Office Location:

Course Description: The story of Earth's history and how our planet functions is recorded in the planet's rocks and sediments. This course will introduce you to the geologic principles that have been used by geologists to decipher that rock record and unlock our understanding of the dynamic Earth. The interior structure and composition of the Earth are explored and students learn how those characteristics drive plate tectonic process. In turn, plate tectonic processes cause earthquakes, volcanoes, rock formation, and mountain building and allow geologists to predict where geologic hazards and mineral resources will occur. An emphasis will also be placed on the surface processes that shape the human and natural environment, including stream, groundwater, glaciers, wind, marine, and shoreline processes. Students wishing to fulfill the General Education laboratory requirement should also take GLG 116. Cannot be taken Pass/Not Pass.

Prerequisites: None

GENERAL EDUCATION LEARNING OUTCOMES:

GLG 113 address General Goal 11 of the MSU General Education program: **Students will understand and actively explore fundamental principles in physical sciences and methods of developing and testing hypotheses used in the analysis of the physical universe.** (See www.missouristate.edu/GeneralEducation/Goals_GenEd.htm)

-
1. Demonstrate knowledge of the physical universe and planet earth, including its origin and physical processes.
 - a. *GLG 113 briefly explores the formation of the universe and solar system and then provides in-depth focus on the how the Earth formed and the processes that shape our planet.*
 2. Understand and use the processes by which knowledge of the physical world is generated.
 - a. *GLG 113 leads students to an understanding of the observations and evidence made by geologists that led to the Theory of Plate Tectonics.*
 3. Develop knowledge and principles of the physical world through hypothesis testing and gain the ability to draw defensible conclusions regarding the physical world.
 - a. *Students will use their understanding of Plate Tectonics and related geological processes to predict the occurrence and location of natural resources, geologic hazards, etc. as well as how to use the rock record to test hypotheses about changes to the planet over the course of Earth's history.*
 4. Make logical connections between key concepts in the physical sciences and describe the interaction between human lives and the physical world

- a. *Through an understanding of geologic principles, plate tectonic theory, and related paradigms students will make connections between seemingly unrelated processes. For example, they will understand the interplay and connection between interior Earth processes, tectonic interactions along plate boundaries, and the cause and occurrence of natural hazards ranging from volcanism, earthquakes, mass extinctions, and global warming.*
5. Understand the ways the environment impacts humanity and how human actions affect the environment.
 - a. Students in GLG 113 will develop an understanding of the natural resources on Earth, how they formed, how they are used by humans, and the positive (e.g., conservation) and negative (e.g., contamination) impacts humans have on those resources.

REQUIRED COURSE MATERIALS:

REQUIRED ONLINE RESOURCE: *Mastering in Geology, Pearson.* This online material can be purchased via MSU store or directly from Pearson via the course LMS. The accompanying book “Essentials of Geology”, by Lutgens and Tarbuck, Pearson, Prentice Hall, 13e. is recommended but not required. You can buy the book as an e-book or printed copy.

Technology:

The use of technology is a part of our everyday lives at the university and there is important information you should know about your own computer’s capabilities, Internet access, Brightspace, and other technology tools whether you are participating in a classroom on campus or taking an online class.

Computer Requirements:

For information on the basic computer requirements to be successful in class visit the [Knowledge Base for Computer Requirements](#) on the Missouri State University website.

Brightspace:

Brightspace, will be used for our course. I will use the announcements tool to post information about the course as the semester progresses. All course assessments will be submitted through Blackboard (this includes any written assignments, quizzes, tests, etc.). You will also have access to view your grades through the My Grades link so you can stay up to date on how you are doing in the course.

Assessment and Grades:

100 pts **Quizzes:** Quizzes/assignments through Blackboard/Brightspace will count for 100 total points.

500 pts **Exams:** 4 regular exams and 1 final exam.

Attendance: Your attendance percentage may be used to replace the lowest score from the 4 regular exams. See below.

GRADING POLICY: Lecture scores will be 67% of your final grade and laboratory scores will be 33%.

The “plus/minus” grading scale will be used in this course, as listed below:

A = 100% - 92.50%	A- = 92.50% - 90.00%	B+ = 89.99% - 87.50%
B = 87.50% - 82.50%	B- = 82.50% - 80.00%	C+ = 79.99% - 77.50%
C = 77.50% - 72.50%	C- = 72.50% - 70.00%	D+ = 69.99% - 67.50%
D = 67.50% - 60.00%	F = 59.99% or less	

COURSE SPECIFIC POLICIES:

Participation/Attendance:

In this class, attendance is not a direct part of your grade. Daily attendance will be recorded and will be an opportunity to improve your final grade. Missing part of the class (either tardiness or leaving early) will count as an absence. At the end of the course, your attendance percentage may be substituted for your lowest exam grade (out of exams 1-4), provided your other three exam grades were each at least 45% and *IF THIS IMPROVES YOUR GRADE*. If you know you will be absent ahead of time, please inform me. You are responsible for the material, even if you are absent. Check Brightspace for materials and assignments and ask your classmates for the notes that you missed.

Missing Class If You Are Sick:

While missing class is usually not advisable, it is important to stay home when sick to avoid the spread of communicable illness. If you are sick or not feeling well, please do not come to class but rather seek medical attention from your doctor or at Magers Health and Wellness Center. They can provide you a medical excuse and advise you when it is safe to return to class. Contact your instructor to let them know that you are sick and will not be in class. By working with your instructor, you will be able to keep up with readings and assignments through Brightspace.

Examinations: Exams in GLG 113 are designed to evaluate your progress and ensure you are regularly reviewing the course material while putting forth the effort to understand the course material. All test material will come directly from the readings and lecture material. Use of cell phones, similar communication devices, or any unauthorized electronic data storage device during exams will be considered a violation of academic integrity (other than to receive University emergency notifications). All violations of academic integrity will be addressed via the [Student Academic Integrity Policies and Procedures](#) and will result in appropriate sanctions that can range from grade reduction up to failure of the whole course, depending on the nature and severity of the violation. .

Exams 1 through 4 will not directly be comprehensive, but keep in mind that the earth science concepts covered in this course build upon themselves. If you do not understand earlier concepts, you may miss questions further along the course. Exam grades will be scaled such that the *median* grade is no lower than 70%.

The Final Exam is comprehensive, however, **key concepts** will repeatedly show up in different chapters.

Attendance WILL NOT replace this score. All grades will be posted to Brightspace.

Potential exam questions will be presented during each lecture. Be sure to write these down! Powerpoints *may not* be posted to Brightspace and *do not* contain all of the material for which you are responsible.

Make-up Examinations: At the discretion of the instructor, makeup exams may be given for excused absences. Please notify me well-ahead of time regarding foreseeable absences on exam days. Unforeseen emergencies are extremely rare and you will be expected to notify me of the circumstances as soon as possible and follow-up with appropriate evidentiary documentation. Please note: weddings, vacations, work, and other similar activities are not considered excused absences.

FIELD TRIP: An optional field trip(s) may be offered for bonus points. .

UNIVERSITY POLICIES:

Additional university-wide policies are posted on Brightspace and the Provost's website: [University Syllabus Policy Statements](#). These policies are meant to support teaching and learning on the Missouri State campus. The established policies are in place to ensure that students, faculty, and staff may pursue academic endeavors with as few obstacles as possible. As a student at Missouri State University, you are a part of the university community therefore, you are responsible for familiarizing yourself with the [University Syllabus Policy Statements](#). These policies cover topics such as nondiscrimination, disability accommodation, academic integrity, among many others.

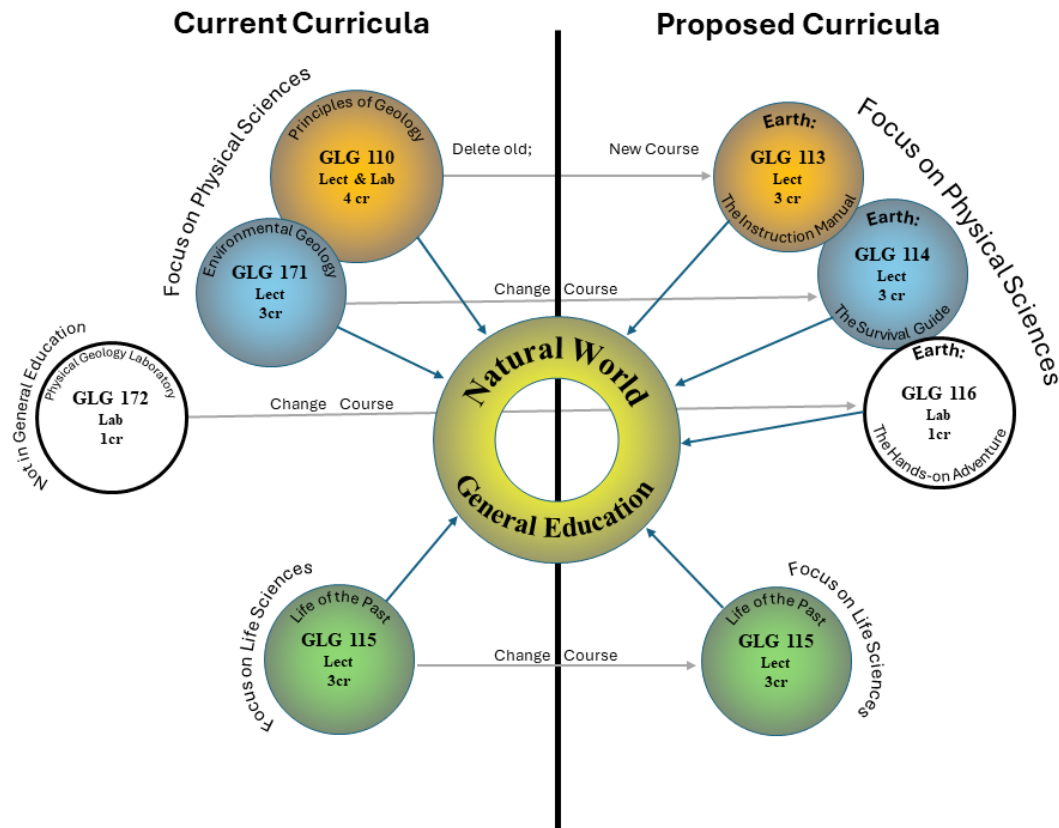
Course Outline

(#) = textbook chapter

M	W	F
Week 1 Introduction (1)	The Universe (1)	Tectonics (2)
Week 2 Minerals (3)	Minerals (3)	Igneous Rocks (4)
Week 3 Labor Day	Igneous Rocks (4)	EXAM I (1-4)
Week 4 Volcanoes (5)	Volcanoes (5)	Volcanoes (5)
Week 5 Erosion (6)	Sedimentary Rocks and Erosion (6, 7)	Sedimentary Rocks (7)
Week 6 Sedimentary Rocks (7)	Metamorphic Rocks (8)	Metamorphic Rocks (8)
Week 7 Geologic time (18)	Geologic time (18)	EXAM III (5-8, 18)
Week 8 Deformation (11)	Deformation (11)	Fall break
Week 9 Earthquakes (9)	The Ocean (10)	The Ocean (10)
Week 10 Geologic hazards (12)	Geologic hazards (12)	EXAM III (9-12)
Week 11 Running water (13)	Running water (13)	Groundwater (14)
Week 12 Groundwater (14)	Glaciers (15)	Glaciers (15)
Week 13 Deserts (16)	Deserts (16)	EXAM IV (13-16)
Week 14 Shorelines(17)	29 Shorelines (17)	Shorelines (17)
Week 15 Climate change (20)	Climate change (20)	REVIEW
Week 16 FINAL EXAM		

A guide to the proposed Geology introductory general education Change Course / New Course proposals.

SEES is proposing to restructure our current introductory level general education offerings. Accomplishing this restructuring requires initiating a complicated set of curricular revisions through the CAW. Although each proposed revision technically stands alone they are in fact a cohesive package that must be carefully coordinated. We have consulted with the Registrar’s Office (Katrina Chavez) to determine the best way to propose and implement these curricular revisions. This document is meant to summarize and explain the “whole package” of curricular revisions necessary to accomplish our introductory course restructuring goal.



Current Geology Introductory Course

- ¹GLG 110 Principles of Geology (4cr) →New Course→
- ²GLG 171 Environmental Geology (3cr) →Change Course→
- ³GLG 115 Life of the Past (3cr) →Change Course→
- ⁴GLG 172 Physical Geology Laboratory (1cr) →Change Course→

Proposed Course Equivalents

- ²GLG 113 Earth: The Instruction Manual (3cr)
- ²GLG 114 Earth: The Survival Guide (3cr)
- ³GLG 115 Life of the Past (3cr)
- ¹GLG 116 Earth: The Hands-on Adventure (1cr)

General Education Classification

- ¹Focus on Physical Science - Lab
- ²Focus on Physical Science - Non-lab
- ³Focus on Life Science – Non-Lab
- ⁴Not currently in general education

This proposal – GLG 113—is highlighted above

(cont)

Summary

The proposed curricular changes serve several purposes. Firstly, we are renaming the courses to move away from traditional names that have increasingly little relevance to students. For example, “Principles of Geology” does a poor job communicating what the course is about to the average student. Many students have had limited exposure to Geology and few truly understand the motivating questions that drive the science. Most hear the term “Geology” and think about oil or “digs” (which is really an archaeology thing, not geology). The new names are meant to be intriguing and to cause a student to stop for a second and think “what do they mean by that”. The proposed names better evoke the goals and themes that drive those who practice the discipline: “how does the Earth work?” and “how do humans interact with, effect, and adapt to the environments in which we live?” Our most popular general education geology course (GLG 115) already has a name that clearly expresses the theme of the course. The proposed names for the other courses are meant to emulate that approach.

Secondly, the proposed changes separate the lab from the current GLG 110 lecture course and turns the existing GLG 172 lab course into the “add on” laboratory option for students that wish to satisfy their general education lab requirement. Current MSU General Education courses, such as CHM 160 and 161. have already instituted this type of lecture and laboratory separation. This provides flexibility to students allowing them more course options relative to their preferences and scheduling restraints (i.e., if the GLG 110 lecture doesn’t fit into their schedule they could take GLG 171 instead and add the lab to either, if needed). The separate lecture and laboratory model also works better with MOTR 42. Different community colleges vary in whether they offer a lab with these courses so the proposed model will streamline transfers.

It is worth noting that GLG 115 is a life science course and we are proposing that it could be combined with the physical science lab (GLG 116). We don’t see this as an issue in either the MSU General Education or in MOTR 42. A student would still have to take both a life science and a physical science lecture course to fulfill their general education requirements. Both general education programs allow students to choose either a life science or a physical science lab. The GLG 116 laboratory contains hands-on content that is directly relevant to all three of the lecture courses, including GLG 115. Thus, the life science concepts focused upon in GLG 115 are well complemented by the physical science laboratory in GLG 116. While GLG 115 discusses life science concepts about ancient ecosystems, organisms, and their taxonomy, the GLG 116 lab helps students understand the characteristics of the rocks and the stratigraphy from which the evidence for these fossil organism and ancient environments come.

Lastly, the proposed changes include re-numbering the courses into a sequence that clarifies their relationship to one another. We believe it would be confusing to expect that students and advisors from other programs would understand that the GLG 172 lab pairs with GLG 115 or GLG 171. The revised sequential course order should be more intuitive because it follows existing analogs such as CHM 160 and CHM 161 or CHM 170 and CHM 171.

(cont.)

Summary of Related Proposals

New Course Proposal

GLG 113 Earth: The Instruction Manual

- 3 credits, Focus on Physical Science, non-laboratory
- Will be proposed to CGEIP and MOTR 42 for inclusion in the general education program
- Replaces the lecture portion of the current GLG 110 (which is Focus on Physical Science lecture and laboratory)
- Although we could do this as a *Change Course* proposal, consultation with the Registrar's Office indicates that *New Course* proposal will be a better approach. A *Change Course* proposal would leave open the scenario where a student who fails GLG 110 before the change and then retakes the course after the change could get laboratory general education credit without passing a laboratory. This is because there is no way to enforce that the student retaking the course would also take the subsequently separated laboratory course (GLG 116). Rather, students wanting to replace a failing grade in GLG 110 *after* the changes take effect would have to take GLG 113 and GLG 116 and then solicit the department head's endorsement on the Registrar's Office's *Repeat a Course Exception* Form. We anticipate a small number of these types of re-takes and will work with students to manage the process smoothly.

Change Course Proposals

GLG 114 Earth: The Survival Guide

- Formerly, GLG 171 Environmental Geology
- 3 credits, physical science, non-laboratory (no change from current GLG 171)
- **Changes:** new course number, new name, and add a statement about the relationship to the GLG 116 laboratory course to the course description (i.e., "Students wishing to fulfill the General Education laboratory requirement should also take GLG 116")

GLG 115 Life of the Past

- 3 credits, life science, non-laboratory (no change from current)
- **Changes:** update the course description to add a statement about the relationship to the GLG 116 laboratory course (i.e., "Students wishing to fulfill the General Education laboratory requirement should also take GLG 116")

GLG 116 Earth: The Hands-on Adventure

- Formerly, GLG 172 Physical Geology Laboratory
 - GLG 172 is not in general education although it is the laboratory portion of GLG 110 (i.e., a student taking GLG 172 is literally attending a lab section of GLG 110). The purpose of GLG 172 was to provide the GLG 110 laboratory to students intending to major or minor in Geology that took a non-lab equivalent to GLG 110 or GLG 171 prior to transferring or declaring their major.
- 1 credit, physical science laboratory
- **Changes:** new course number, new name, adding to Focus on Physical Science laboratory general education

New Course Proposal Form

Submitted on 01/07/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

- New COURSE
- New REGULAR PERMANENT SECTION of an existing variable content course. If a new regular section of an existing variable topics course, enter the existing course number below

Course Code:

GRY

Course Number: ([Check Availability](#))

137

Course Title:

Meteorology: Understanding Weather and Climate

Will this course become part of a program? No Yes (A corresponding program change form must be submitted)

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Prerequisite/Co-requisite or enter 'None':

None

Catalog Course Description: (Include any Pass/Not Pass grading restrictions, repeatable limits, limitation on course applicability, UG/GR parallel course, etc.)

An exploration of Earth's atmosphere, weather phenomena, and changes in climate. This course will introduce students to various aspects of weather and climate, including the mechanisms that cause the weather and how and why climate changes. Topics will include atmospheric structure and circulation, evolution of storm systems, precipitation processes, cloud formation, weather hazards, and mechanisms of climate change. Students wishing to fulfill the General Education laboratory requirement should also take GRY 138.

520/30000 character limit.

Credit Hours:

Lecture Contact Hours:

Lab Contact Hours:

Note: If variable credit, enter the highest number and add to end of course description. (e.g. "Variable credit, may be taken 1-3 hours.")

Periodicity. Check all that apply.

- Fall Fall (even-numbered years only) Fall (odd-numbered years only)
- Spring Spring (even-numbered years only) Spring (odd-numbered years only)
- Summer On Demand only

Complete Catalog Description:

GRY 137 Meteorology: Understanding Weather and Climate

Prerequisite: None

An exploration of Earth’s atmosphere, weather phenomena, and changes in climate. This course will introduce students to various aspects of weather and climate, including the mechanisms that cause the weather and how and why climate changes. Topics will include atmospheric structure and circulation, evolution of storm systems, precipitation processes, cloud formation, weather hazards, and mechanisms of climate change. Students wishing to fulfill the General Education laboratory requirement should also take GRY 138.

Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0

Typically offered: Fall, Spring, Summer

Include sample syllabus (list topics, course goals.) Use text box OR upload only file types of DOC or DOCX.

0/30000 character limit.

Attached [View Attachment](#)

Purpose of Course

This course is designed to provide students with a fundamental understanding of the Earth’s atmosphere, weather phenomenon, and changes in climate. Students will learn about global air circulation, cloud formation, precipitation processes, atmospheric stability, large-scale wind circulations, storm formation, and why and how the climate is changing.

At the end of this students will have a deeper understanding of the fundamentals of meteorology and climate change and will be savvy consumers of weather forecasts and climate change information. Students will also understand how weather and climate affect human societies, policy making, and decisions.

660/30000 character limit.

Relationship to Other Departments

This course will replace the lecture portion of the current GRY 135 Principles of Weather and Climate course (the laboratory portion of GRY 135 will be replaced with another new course 'GRY 138'). A handful of other programs on campus currently include GRY 135 in their program requirements or course prerequisites. These programs have been notified and requested to submit curricular revisions to replace instances of GRY 135 with GRY 137, and if appropriate, GRY 138.

471/30000 character limit.

Is there a graduate/undergraduate parallel course to this one? No Yes

Enter parallel course number

nullnull null

How do these classes differ?

0/30000 character limit.

New Course Resource Information

Anticipated Average Enrollment per section: 45

Maximum Enrollment Limit per section: 65

Anticipated Average Enrollment per semester: 45

Maximum Enrollment Limit per semester: 65

Anticipated Average Enrollment per year: 130

Maximum Enrollment Limit per year: 195

Faculty Load Assignment (equated hours): 3

Is another course being deleted? No Yes

Select course number and title being deleted.

GRY135 Principles of Weather and Climate

What will this course require in the way of:

Additional library Holdings

None

4/30000 character limit.

Additional computer resources

None

4/30000 character limit.

Additional or remodeled facilities

None

4/30000 character limit.

Additional equipment or supplies

None

4/30000 character limit.

Additional travel funds

None

4/30000 character limit.

Additional faculty; general vs specialized

None

4/30000 character limit.

Additional faculty; regular vs per-course

None

4/30000 character limit.

Other additional expenses

None

4/30000 character limit.

If additional faculty are not required, how will faculty be made available to teach this course?

Faculty in SEES that are currently assigned to teach GRY 135 will teach GRY 137 instead.

88/30000 character limit.

List names of current faculty qualified and available to teach this course

Asif Ishtiaque, Toby Dogwiler, Ted Keller (per course)

54/30000 character limit.

What is the anticipated source of students for this course?

General education students, including those who would currently take GRY 135.

77/30000 character limit.

If from within the department, will students be taking this course in addition to or in place of other courses?

This course will replace GRY 135, which is being deleted and split into GRY 137 (lecture; this proposal) and GRY 138 (lab; separate new course proposal).

153/30000 character limit.

If from outside the department, which courses in other departments would most likely be affected?)

N/A

3/30000 character limit.

Other comments:

The purpose of this curricular change is to split the current GRY 135 Principles of Weather and Climate course (4 cr, lecture + lab) into separate standalone lecture (GRY 137) and laboratory (GRY 138) courses. This is similar to the standalone lecture and lab model used for other natural world general education courses such as CHM 160 & 161 and BIO 101 & 111.

GRY 135 --> GRY 137 Lecture + GRY 138 Lab.

Splitting the lecture and laboratory into separate courses has several advantages: 1) it streamlines transfer of analogous courses from other institutions. Some institutions only offer a lecture equivalent and some offer standalone lecture and lab courses. This will make aligning these courses with our curriculum and general education requirements more straightforward for students and advisors. 2) MSU students will have the option to take only the lecture or the lecture and the laboratory based on their interests and their needs in terms of filling general education requirements. For example, we occasionally hear from students that they "love meteorology" but choose not to take it because they are required to take a different lab course for their major or already have their laboratory requirement filled. 3) our school's programs will benefit because students who take the lecture and discover an interest in one of our programs can easily take the laboratory in a later semester. Some students are reticent to take combined lecture+lab courses if they only need a lecture for general education or if the lab does not fit their schedule. This prevents some students from exposure to our intro courses and potential recruitment into our programs (which is where many of our majors discover their interest).

1734/30000 character limit.

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

10/27/2023

Current Status:

College Council Review

Proposal Progress:

01/07/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

GRY 137 Meteorology: Understanding Weather and Climate

Class and Instructor Information

Instructor:

Email:

Class time:

Class location:

Office location:

Catalog Description

GRY 137 Meteorology: Understanding Weather and Climate

An exploration of Earth's atmosphere, weather phenomena, and changes in climate. This course will introduce students to various aspects of weather and climate, including the mechanisms that cause the weather and how and why climate changes. Topics will include atmospheric structure and circulation, evolution of storm systems, precipitation processes, cloud formation, weather hazards, and mechanisms of climate change. Students wishing to fulfill the General Education laboratory requirement should also take GRY 138.

Required Textbook

The Atmosphere: An Introduction to Meteorology (14th Edition, 2019) by Lutgens, Tarbuck, Herman, and Tasa.

Course Objectives:

Welcome to Principles of Weather and Climate! Have you ever wondered why season changes, what makes the clouds form, why rainfall happens, how Hurricanes form, or what 'climate change' is all about? If you were ever curious about any of these phenomena this class is for you.

This course is designed to provide you with a fundamental understanding of the Earth's atmosphere, weather phenomenon, and changes in climate. You will learn about global air circulation, cloud formation, precipitation processes, atmospheric stability, large-scale wind circulations, storm formation, and why and how the climate is changing.

At the end of this course you will have a deeper understanding of the fundamentals of meteorology and climate change and you will be a more savvy consumer of weather forecasts and climate change information.

Assessment and Grading

- Attendance: 15%
- Quizzes: 25%
- Exams: 60%

Grading Scale:

93.00% or higher = A; 90.00% to 92.99% = A-; 87.00% to 89.99% = B+; 83.00% to 86.99% = B; 80.00% to 82.99% = B-; 77.00% to 79.99% = C+; 73.00% to 76.99% = C; 70.00% to 72.99% = C-; 67.00% to 69.99% = D+; 60.00% to 66.99% = D; 59.99% or lower = F.

Attendance

Good attendance correlates strongly with good grades! To incentivize you to come to class attendance is worth 1.5 letter grades (15%). Attendance will be taken promptly at the start of each class meeting. Coming to class late will result in a partial deduction of that day's attendance points (approximately proportional to how late you arrive). With the exception of medical emergencies, all absences must be approved by the instructor in advance for it to be considered excused. Documentation will be required to support excused absences. Please note: work, vacations, weddings, leaving early for break, etc. will not be considered excused. Valid excuses include required field trips, participation in scheduled athletic events as a member of the team, documented illness, etc. By working with the instructor well in advance we can determine what is valid and the documentation that will be required.

If you are ill, please do not come to class. You get two free "sick days" that you can use for minor illnesses that do not require documentation from a medical professional. You must email me prior to class to notify me you are using a free sick day. Use these sick days wisely. Any additional absences due to illness will require documentation.

Quizzes

There will be out-of-class quizzes and in-class quizzes. They will be administered frequently (during most class meetings) as a mechanism to enforce reading assignments, further incentivize attendance, and as a method for the instructor to gauge your comprehension of the material. In class quizzes will not be announced in advance (i.e., they are pop quizzes). Missed quizzes cannot be made up. You will be given a 7.5% bonus to your quiz score for the semester. If you miss a quiz for an unexcused absence the lost points will be accounted for by that bonus. If your absences amount to more than 7.5% of the total quiz points, then you will have lost those additional points. If you have 100% attendance and earn 100% on all your quizzes you will end up with 107.5% for your quiz average. If you miss an in-class quiz during an excused absence those missed quiz points will neither count for nor against you.

Exams

There will be four regular exams and one final exam. The regular exams will not be comprehensive, although the material in this course builds on previously learned concepts. In other words, although you won't be directly tested on material covered on previous exams, understanding the material for the current exam will require having mastered that earlier material.

The final exam will be 67% from the last section of material covered in the course (i.e., since the 4th exam) and 33% comprehensive.

No make-up exams will be offered. If you miss an exam(s) for an excused absence then your grade on the comprehensive portion of the final exam will count for the missed exam(s).

Course Outline (and approximate timing)

Note: The schedule may vary somewhat on what topic is covered when. Exam Dates will be set at the first class meeting and posted on Brightspace. Exam dates will not change.

Week	Topic	Sub-Topic
1-3	Earth and Atmosphere	Syllabus review; Introduction to the Atmosphere
		Composition of the Atmosphere
		Structure of the Atmosphere
		Energy transfer in the Atmosphere
		Earth-Sun Relationship and Seasons
		Air Temperature
		Atmospheric Humidity
		Exam 1
4-6	Wind and Cloud Processes	Condensation- Fog
		Condensation- Cloud
		Atmospheric Stability
		Air Pressure
		Wind
		Cloud development
		Precipitation
		Small-scale winds
		Exam 2
		7-9
Air Masses		
Air Fronts		
Mid-Latitude Cyclones		
Exam 3		
10-12	Atmospheric Hazards	Hurricanes
		Hurricanes
		Thunderstorms
		Thunderstorms
		Tornadoes
		Jet Streams, El-Nino, La-Nina
		Review class (Test 03)
Exam 4		
13-14	Climate Change	Global Climate Zones
		Global Climate Zones
		Earth's Changing Climate
		Final Exam

University Policies

Please refer to the links below for a comprehensive list of up-to-date university policies:

<https://www.missouristate.edu/provost/bbsyllabus.htm>. These policies are also linked directly in the course LMS. As a student at Missouri State University, it is important to familiarize yourself with these syllabus policy statements that apply to all courses.

General Education Learning Goals

GRY 137 is a General Education course within the Breadth of Knowledge - Natural World area with a focus on Physical Sciences. This course is designed to introduce students to the diverse physical mechanisms that are operating in the atmosphere to cause the phenomena we describe as “the weather”. These phenomena condition the human environment in terms of everyday weather conditions as well as longer term averages

that are perceived as climate. The course is designed to increase student understanding of how the scientific method is used to observe and understand atmospheric processes over various time scales. Students will gain a better understanding of the mechanisms of meteorology and climate, better appreciate the sources and degree of uncertainty in weather and climate forecasts, and develop a well-informed, open-minded critical approach on matters relevant to weather and climate processes.

GRY137 Meteorology: Understanding Weather and Climate course content, learning experiences, and assessments contribute to CGEIP General Education Goals and Specific Learning Outcomes (SLO) as follows:

Knowledge of the Natural World- Physical Sciences

General Education Goal (11): Students will understand and actively explore fundamental principles in physical sciences and methods of developing and testing hypotheses used in the analysis of the physical universe.

SLO11.1 *Demonstrate knowledge of the physical universe and planet Earth, including its origin and physical processes.*

GRY 137 examines various processes governing weather and climate on planet Earth. This includes: development of the early atmosphere (outgassing processes and changes affecting atmospheric chemistry through time), physics of the atmosphere (including radiative and non-radiative processes), temperature variability, stability and cloud development, precipitation mechanisms, global wind systems, air masses and fronts, synoptic weather, severe weather, and global climate change.

SLO11.3 *Develop knowledge and principles of the physical world through hypothesis testing and gain the ability to draw defensible conclusions regarding the physical world.*

GRY 137 introduces students to the quantitative methods used by meteorologists and climatologists to explore and model the phenomena they observe (e.g., climograph, radiative budget, climatic trend analysis, aridity index, etc.). Students are challenged to use atmospheric observations to forecast (i.e., hypothesize) weather and climate phenomena. This empowers students to make their own defensible conclusions about future weather and climate.

SLO11.5 Understand the ways the environment impacts humanity and how human actions affect the environment

GRY 137 explores the concept of global climate change by looking at processes that shape the physical environment, both natural and human induced. Specific issues such as changes in atmospheric chemistry, global warming, and deforestation are discussed. Consequences on radiative and non-radiative processes affecting planet Earth (and human communities) are analyzed. Other issues such as climate change, drought, extreme and severe weather, hurricane landfall, and climatic anomalies are discussed, including environmental impacts on human communities.

New Course Proposal Form

Submitted on 01/07/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

- New COURSE
- New REGULAR PERMANENT SECTION of an existing variable content course. If a new regular section of an existing variable topics course, enter the existing course number below

Course Code:

GRY

Course Number: ([Check Availability](#))

138

Course Title:

Meteorology: Weather and Climate Laboratory

Will this course become part of a program? No Yes (A corresponding program change form must be submitted)

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Prerequisite/Co-requisite or enter 'None':

GRY 137 or concurrent enrollment

Catalog Course Description: (Include any Pass/Not Pass grading restrictions, repeatable limits, limitation on course applicability, UG/GR parallel course, etc.)

A hands-on exploration of Earth's atmosphere, weather phenomena, and changes in climate. This course includes a series of practical activities that involve analyzing atmospheric data to test hypotheses, often in the form of weather or climate forecasts. Topics include atmospheric structure and circulation, evolution of storm systems, precipitation processes, cloud formation, weather hazards, and mechanisms of climate change.

430/30000 character limit.

Credit Hours:

1 ▾

Lecture Contact Hours:

0 ▾

Lab Contact Hours:

2 ▾

Note: If variable credit, enter the highest number and add to end of course description. (e.g. "Variable credit, may be taken 1-3 hours.")

Periodicity. Check all that apply.

- Fall Fall (even-numbered years only) Fall (odd-numbered years only)
- Spring Spring (even-numbered years only) Spring (odd-numbered years only)
- Summer On Demand only

Complete Catalog Description:

GRY 138 Meteorology: Weather and Climate Laboratory

Prerequisite: GRY 137 or concurrent enrollment

A hands-on exploration of Earth’s atmosphere, weather phenomena, and changes in climate. This course includes a series of practical activities that involve analyzing atmospheric data to test hypotheses, often in the form of weather or climate forecasts. Topics include atmospheric structure and circulation, evolution of storm systems, precipitation processes, cloud formation, weather hazards, and mechanisms of climate change.

Credit hours: 1 Lecture contact hours: 0 Lab contact hours: 2

Typically offered: Fall, Spring

Include sample syllabus (list topics, course goals.) Use text box OR upload only file types of DOC or DOCX.

[Empty text box for syllabus]

0/30000 character limit.

Attached [View Attachment](#)

Purpose of Course

It is a standalone physical science laboratory course designed to complement GRY 137 Meteorology: Understanding Weather and Climate.

This course will teach students to analyze weather and climate data and make predictions in the form of forecasts (i.e., hypotheses). These skills will enable students to be savvy consumers of meteorological forecasts and to draw their own data-driven, critical conclusions about global climate change. The laboratory assignments completed in this course will also provide an opportunity to consider how the weather and climate phenomena explored affect human societies, policy making, and decisions.

638/30000 character limit.

Relationship to Other Departments

This course will replace the laboratory portion of the current GRY 135 Principles of Weather and Climate course (the lecture portion of GRY 135 will be replaced with another new course 'GRY 137'). A handful of other programs on campus currently include GRY 135 in their program requirements or course prerequisites. These programs have been notified and requested to submit curricular revisions to replace instances of GRY 135 with GRY 137, and if appropriate, GRY 138.

471/30000 character limit.

Is there a graduate/undergraduate parallel course to this one? No Yes

Enter parallel course number

nullnull null

How do these classes differ?

0/30000 character limit.

New Course Resource Information

Anticipated Average Enrollment per section:

Maximum Enrollment Limit per section:

Anticipated Average Enrollment per semester:

Maximum Enrollment Limit per semester:

Anticipated Average Enrollment per year:

Maximum Enrollment Limit per year:

Faculty Load Assignment (equated hours):

Is another course being deleted? No Yes

Select course number and title being deleted.

GRY135 Principles of Weather and Climate

What will this course require in the way of:

Additional library Holdings

None

4/30000 character limit.

Additional computer resources

None

4/30000 character limit.

Additional or remodeled facilities

None

4/30000 character limit.

Additional equipment or supplies

None

4/30000 character limit.

Additional travel funds

None

4/30000 character limit.

Additional faculty; general vs specialized

None

4/30000 character limit.

Additional faculty; regular vs per-course

None

4/30000 character limit.

Other additional expenses

None

4/30000 character limit.

If additional faculty are not required, how will faculty be made available to teach this course?

Teaching Assistants in SEES that are currently assigned to teach GRY 135 labs will teach GRY 137 instead.

105/30000 character limit.

List names of current faculty qualified and available to teach this course

Asif Ishtiaque, Toby Dogwiler, Ted Keller (per course), and graduate teaching assistants from SEES. GRY 135 labs are taught by Graduate Teaching Assistants. These TAs will be shifted to GRY 138.

195/30000 character limit.

What is the anticipated source of students for this course?

General education students, including those who would currently take GRY 135.

77/30000 character limit.

If from within the department, will students be taking this course in addition to or in place of other courses?

This course will replace GRY 135, which is being deleted and split into GRY 137 (lecture; separate new course proposal) and GRY 138 (lab; this new course proposal).

164/30000 character limit.

If from outside the department, which courses in other departments would most likely be affected?)

None

4/30000 character limit.

Other comments:

The purpose of this curricular change is to split the current GRY 135 Principles of Weather and Climate course (4 cr, lecture + lab) into separate standalone lecture (GRY 137) and laboratory (GRY 138) courses. This is similar to the standalone lecture and lab model used for other natural world general education courses such as CHM 160 & 161 and BIO 101 & 111.

GRY 135 --> GRY 137 Lecture + GRY 138 Lab.

Splitting the lecture and laboratory into separate courses has several advantages: 1) it streamlines transfer of analogous courses from other institutions. Some institutions only offer a lecture equivalent and some offer standalone lecture and lab courses. This will make aligning these courses with our curriculum and general education requirements more straightforward for students and advisors. 2) MSU students will have the option to take only the lecture or the lecture and the laboratory based on their interests and their needs in terms of filling general education requirements. For example, we occasionally hear from students that they "love meteorology" but choose not to take it because they are required to take a different lab course for their major or already have their laboratory requirement filled. 3) our school's programs will benefit because students who take the lecture and discover an interest in one of our programs can easily take the laboratory in a later semester. Some students are reticent to take combined lecture+lab courses if they only need a lecture for general education or if the lab does not fit their schedule. This prevents some students from exposure to our intro courses and potential recruitment into our programs (which is where many of our majors discover their interest).

1733/30000 character limit.

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

10/27/2023

Current Status:

College Council Review

Proposal Progress:

01/07/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

GRY 138 Meteorology: Weather and Climate Laboratory

Class and Instructor Information

Instructor:

Email:

Class time:

Class location:

Office location:

Catalog Description

GRY 138 Meteorology: Weather and Climate Laboratory

Prerequisite: GRY 137 or concurrent enrollment.

A hands-on exploration of Earth's atmosphere, weather phenomena, and changes in climate. This course includes a series of practical activities that involve analyzing atmospheric data to test hypotheses, often in the form of weather or climate forecasts. Topics include atmospheric structure and circulation, evolution of storm systems, precipitation processes, cloud formation, weather hazards, and mechanisms of climate change.

Required Textbook

Exercises for Weather & Climate (9th Edition, 2016) by Carbone.

Course Goals

Weather and climate affect our everyday lives and experience. This includes relatively minor decisions such as what to wear today all the way up to life and death decisions regarding natural disasters (e.g., hurricanes, tornadoes). Governments and corporations include weather and climate considerations into public policy and corporate strategies. For example, the US federal government uses climate information to establish flood zones and set rates for flood insurance. Companies such as Amazon, FedEx, and Airlines monitor and forecast weather to ensure the stability of their supply chains and everyday business operations.

This course will teach you to analyze weather and climate data and make predictions, which in science are more generally referred to as *hypotheses*, and in weather and climate often called *forecasts*. These skills will enable you to be a savvy consumer of meteorological forecasts and to draw your own data-driven, critical conclusions about global climate change. The laboratory assignments completed in this course will also provide an opportunity to consider how the weather and climate phenomena we will explore affect human societies, policy making, and decisions.

Assessment and Grading

- Attendance: 20%
- Quizzes: 30%
- Lab Assignments: 50%

Grading Scale:

93.00% or higher = A; 90.00% to 92.99% = A-; 87.00% to 89.99% = B+; 83.00% to 86.99% = B; 80.00% to 82.99% = B-; 77.00% to 79.99% = C+; 73.00% to 76.99% = C; 70.00% to 72.99% = C-; 67.00% to 69.99% = D+; 60.00% to 66.99% = D; 59.99% or lower = F.

Attendance

Good attendance correlates strongly with good grades! To incentivize you to come to class attendance is worth 2 letter grades (20%). Attendance will be taken promptly at the start of each laboratory meeting. Coming to class late will result in a partial deduction of that day's attendance points (approximately proportional to how late you arrive). With the exception of medical emergencies, all absences must be approved by the instructor in advance for it to be considered excused. Documentation will be required to support excused absences. Please note: work, vacations, weddings, leaving early for break, etc. will not be considered excused. Valid excuses include required field trips, participation in scheduled athletic events as a member of the team, documented illness, etc. By working with the instructor well in advance we can determine what is valid and the documentation that will be required.

If you are ill, please do not come to class. You get one free "sick day" that you can use for minor illnesses that do not require documentation from a medical professional. You must email me prior to class to notify me you are using a free sick day. Use these sick days wisely. Any additional absences due to illness will require documentation.

Missed labs will need to be promptly made-up during office hours, in the SEES Success Center, or at the end (if time remains) of the next laboratory meeting. Generally, labs must be made up within one week, unless the instructor pre-approves a different due date. Students will be allowed to earn points for labs made up on time.

More than three unexcused absences or unsubmitted laboratory assignments will result in failure of the course. General education laboratory credit will not be earned if you do not participate in the laboratory course! Furthermore, providing make-up opportunities for laboratory assignments is time consuming and it is easier for everyone if you attend every laboratory meeting.

Quizzes

There will be out-of-class quizzes and in-class quizzes. They will be administered (out-of-class via Brightspace) as a mechanism to enforce pre-laboratory reading assignments and (in-class) to assess your comprehension of the material involved in the laboratory assignments. The quiz schedule will be posted on Brightspace at the start of the semester. Missed quizzes cannot be made up. You will be given a 10% bonus to your quiz score for the semester. If you miss a quiz for an unexcused absence the lost points will be accounted for by that bonus. If your absences amount to more than 10% of the total quiz points, then you will have lost those additional points. If you have 100% attendance and earn 100% on all your quizzes you will end up with 110% for your quiz average. If you miss an in-class quiz for an excused absence those missed quiz points will neither count for nor against you.

Lab Assignments

There will be one laboratory assignment per week. All lab assignments will be weighted equally and your Assignments average will be a simple average of all you lab assignment grades. Pre-laboratory reading assignments and quizzes will be posted ahead of time (the schedule and due dates will be posted at the start of the semester on Brightspace). The laboratory assignments and associated datasets will be available prior to the laboratory meeting on Brightspace. The laboratory assignments are typically due by the end of class meeting and will be submitted via Blackboard.

The policy for making up laboratory assignments is covered above in the **Attendance** section.

Course Outline and Schedule

See Brightspace for specific dates and a schedule of pre-laboratory assignment due dates and quizzes dates.

Labortory Assignment	Topic
1:	Vertical structure of the atmosphere
2:	Earth-sun geometry
3:	The global energy budget
4:	Weather forecasting
5:	Atmospheric moisture
7:	Saturation and atmospheric stability
8:	Cloud droplets and raindrops
9:	Atmospheric motion
10:	Climate controls
11:	Climate variability
12:	Hurricanes
13:	Thunderstorms and tornadoes
15:	Climate classification

University Policies

Please refer to the links below for a comprehensive list of up-to-date university policies:

<https://www.missouristate.edu/provost/bbsyllabus.htm>. These policies are also linked directly in the course LMS. As a student at Missouri State University, it is important to familiarize yourself with these syllabus policy statements that apply to all courses.

General Education Learning Goals

GRY 138 is a General Education course within the Breadth of Knowledge - Natural World area with a focus on Physical Sciences. This course is designed to introduce students to the diverse physical mechanisms that are operating in the atmosphere to cause the phenomena we describe as “the weather”. These phenomena condition the human environment in terms of everyday weather conditions as well as longer term averages that are perceived as climate. The course is designed to increase student understanding of how the scientific method is used to observe and understand atmospheric processes over various time scales. Students will gain a better understanding of the mechanisms of meteorology and climate, better appreciate the sources and

degree of uncertainty in weather and climate forecasts, and develop a well-informed, open-minded critical approach on matters relevant to weather and climate processes.

GRY138 Meteorology: Understanding Weather and Climate course content, learning experiences, and assessments contribute to CGEIP General Education Goals and Specific Learning Outcomes (SLO) as follows:

Knowledge of the Natural World- Physical Sciences

General Education Goal (11): Students will understand and actively explore fundamental principles in physical sciences and methods of developing and testing hypotheses used in the analysis of the physical universe.

SLO11.1 *Demonstrate knowledge of the physical universe and planet Earth, including its origin and physical processes.*

GRY 138 examines various processes governing weather and climate on planet Earth. This includes: atmospheric structure, physics of the atmosphere (including radiative and non-radiative processes), temperature variability, stability and cloud development, precipitation mechanisms, global wind systems, air masses and fronts, synoptic weather, severe weather, and global climate change.

SLO11.3 *Develop knowledge and principles of the physical world through hypothesis testing and gain the ability to draw defensible conclusions regarding the physical world.*

GRY 138 students use data and quantitative analysis to learn the methods used by meteorologists and climatologists to explore and model atmospheric phenomena (e.g., climograph, radiative budget, climatic trend analysis, aridity index, etc.). Students are challenged to use atmospheric observations to forecast and understand weather and climate phenomena. This empowers students to make their own defensible conclusions about future weather and climate.

SLO11.5 Understand the ways the environment impacts humanity and how human actions affect the environment

GRY 138 explores the concept of global climate change by looking at processes that shape the physical environment, both natural and human induced. Specific issues such as changes in atmospheric chemistry, global warming, and deforestation are discussed. Consequences on radiative and non-radiative processes affecting planet Earth (and human communities) are analyzed. Other issues such as climate change, drought, extreme and severe weather, hurricane landfall, and climatic anomalies are discussed, including environmental impacts on human communities.

Change Course Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG115 Life of the Past

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GLG 115 Life of the Past

General Education Course (Focus on Life Sciences). Addresses the origin, evolution, and extinction of life forms within the 3.5 billion year history of life on earth. Topics of discussion will include the basic principles of evolution, stratigraphy, and plate tectonics. Optional fossil collecting field trip. 3(3-0) F,S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GLG 115 Life of the Past

General Education Course (Focus on Life Sciences). Addresses the origin, evolution, and extinction of life forms within the 3.5 billion year history of life on earth. Topics of discussion will include the basic principles of evolution, stratigraphy, and plate tectonics. Optional fossil collecting field trip. **Students wishing to fulfill the General Education laboratory requirement should also take GLG 116.** 3(3-0) F,S

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- Course Code
 Course Number (Check Availability)
 Title
 Prerequisite
- Credit Hours/Contact Hours
 Periodicity
 Description

Reason for proposed change

The only change is to notify students that they may take GLG 116 Earth: The Hands-on Adventure if they wish to earn laboratory credit toward the General Education Natural World science requirements.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
 Faculty
 Student Input
- Accreditation/certification compliance
 Review of catalog information
- Other (be specific):

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG171 Environmental Geology

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GLG 171 Environmental Geology

General Education Course (Focus on Physical Sciences). MOTR number GEOL 100 - Geology. Treats those aspects of geology that interface directly with humanity. Key concepts of Earth processes and how they relate to geologic hazards, mineral and energy resources, and sustainability. Human dependence on geologic resources is examined and related to issues confronting society. Optional field trips. 3(3-0) F,S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GLG 171 Environmental Geology **GLG 114 Earth: The Survival Guide**

General Education Course (Focus on Physical Sciences). MOTR number GEOL 100 - Geology. ~~Treats those aspects of geology that interface directly with humanity. Key concepts of Earth processes and how they relate to geologic hazards, mineral and energy resources, and sustainability. Human dependence on geologic resources is examined and related to issues confronting society.~~ **Human societies depend on sustainable interactions with our physical environment. For humans to thrive and survive we must understand how the Earth works so that we can sustainably extract needed natural resources and build resiliency against the various geologic hazards that threaten our communities. This course emphasizes the aspects of geology that interface directly with humanity, including concepts such as plate tectonics, earthquakes, volcanoes, mineral resources, water resources, shoreline processes, and climate change. Human dependence on geologic resources is examined and related to issues confronting society.** Optional field trips. **Students wishing to fulfill the General Education laboratory requirement should also take GLG 116.** 3(3-0) F,S

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- | | | | |
|---|--|---|---------------------------------------|
| <input type="checkbox"/> Course Code | <input checked="" type="checkbox"/> Course Number (Check Availability) | <input checked="" type="checkbox"/> Title | <input type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity | <input checked="" type="checkbox"/> Description | |

Reason for proposed change

The proposed changes to GLG 171 Environmental Geology are part of a broader set of curricular change proposals for all our introductory-level general education geology courses. The courses are being re-titled to emphasize the theme of understanding how the Earth works, which has always been the overarching goal of geology. Our goal is to better communicate this theme to students and make the relevancy of the content to their everyday lives more explicit. The proposed new course title for GLG 171 is "Earth: The Survival Guide". This name highlights the reality that human societies depend on sustainably extracting natural resources from our physical environment and building resilience to natural hazards, including earthquakes, volcanoes, sea level change, and global warming. These relationships between humans and our geologic environment have always been the primary focus of this course.

As part of the proposed changes, the courses will be renumbered to GLG 113, 114 (this proposal), and 115. The lab component of the current GLG 110 Principles of Geology will be separated and replaced by the standalone GLG 116 Earth: The Hands-on Adventure. The GLG 116 lab can be taken along with GLG 113, 114, or 115 to earn laboratory science credit toward General Education or MOTR requirements. These changes are part of an effort to make the intro course numbering more logical and intuitive for students and advisors.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information

Other (be specific):

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR MENT.

Change Course Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG172 Physical Geology Laboratory

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GLG 172 Physical Geology Laboratory

Prerequisite: permission. Laboratory instruction in identification and classification of common minerals and rocks; introduction to the identification of landforms as interpreted from topographic maps. This course number allows students who have already had GLG 171 to take a laboratory section of GLG 110 as a stand-alone one credit course. GLG 171 plus GLG 172 will substitute for GLG 110 in the requirements for all geology programs and in the prerequisites for all upper division geology courses. 1(0-2) F,S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

~~GLG 172 Physical Geology Laboratory~~ **GLG 116 Earth: The Hands-on Adventure**

~~Prerequisite: permission~~ **GLG 113, 114, 115, or concurrent enrollment. Hands-on experiential exploration of principles and techniques that relate to material presented in GLG 113, 114, and 115, including rock and mineral identification and classification, map interpretation and analysis, and surficial processes. Students will use geologic methodologies, including virtual reality technologies, to analyze and solve geologic questions. Optional field trips.** ~~Laboratory instruction in identification and classification of common minerals and rocks; introduction to the identification of landforms as interpreted from topographic maps. This course number allows students who have already had GLG 171 to take a laboratory section of GLG 110 as a stand-alone one credit course. GLG 171 plus GLG 172 will substitute for GLG 110 in the requirements for all geology programs and in the prerequisites for all upper division geology courses.~~ 1(0-2) F,S

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- Course Code
- Course Number ([Check Availability](#))
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

The proposed changes to GLG 172 Physical Geology Laboratory are part of a broader set of curricular change proposals for all our introductory-level general education geology courses. The courses are being re-titled to emphasize the theme of understanding how the Earth works, which has always been the overarching goal of geology. Our goal is to better communicate this theme to students and make the relevancy of the content to their everyday lives more explicit. The proposed new course title for GLG 172 is "GLG 116 Earth: The Hands-on Adventure". This name highlights that laboratory courses are active hands-on learning experiences for students where they learn scientific methodologies and use the scientific methodology to develop answers to relevant geologic questions.

The current course, GLG 172, is a standalone lab that is not part of General Education or MOTR. GLG 172 is used for geology majors transferring to MSU with a geology lecture, but no accompanying laboratory credit. The changed course, GLG 116, will continue to be a standalone laboratory course and could be paired with any of our three general education geology lecture courses: GLG 113 (the lecture portion of the current GLG 110 Principles of Physical Geology), GLG 114 (currently GLG 171 Environmental Geology), and GLG 115 Life of the Past. Pending CGEIP and MOTR approval the GLG 116 laboratory course would fulfill the General Education or MOTR laboratory requirement.

Moving to the model of standalone laboratory course (analogous to CHM 161 and BIO 111) streamlines the pathway into the geology major, minor, and certificate programs for students who have lecture credit, but lack the laboratory required for the major. It also provides flexibility for students who initially take a lecture-only geology course for their General Education or MOTR requirements and then discover an interest in filling their laboratory requirement with a geology course (for example, there is no current mechanism for students in the GLG 115 or GLG 171 to subsequently take a geology lab course for their General Education or MOTR requirement).

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

This proposal will be accompanied by parallel proposals to include GLG 116 in MOTR and the MSU General Education Natural World area as a laboratory course. The current GLG 172 version of the course is not in the General Education program and as such does not have stated learning outcomes that are formally assessed related to GG 11.

However, in reality, students taking the current GLG 172 are actually earning the credit by being placed in a laboratory section of GLG 110, which is a General Education and MOTR laboratory physical science course. Therefore, the proposals to include GLG 116 in MOTR and General Education will simply adopt the current learning goals and assessment strategies employed in the laboratory portion of GLG 110.

How did you determine the need for this change? Check all boxes that apply or specify other.

Routine or annual review/assessment of curriculum Faculty Input Student Input

Accreditation/certification compliance Review of catalog information

Other (be specific):

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

Change Course Proposal Form

Submitted on 01/06/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG314 Historical Geology

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GLG 314 Historical Geology

Prerequisite: GLG 110 or both GLG 171 and GLG 172. Geological history of the earth with emphasis on North America; origin and evolution of animal and plant life on earth. One Saturday field trip required. 3(2-2) F

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GLG 314 Historical Geology

Prerequisite: **GLG 113 or GLG 114 or GLG 115; GLG 116** ~~GLG 110 or both GLG 171 and GLG 172.~~
 Geological history of the earth with emphasis on North America; origin and evolution of animal and plant life on earth. One Saturday field trip required. 3(2-2) F

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- Course Code
 Course Number (Check Availability)
 Title
 Prerequisite
- Credit Hours/Contact Hours
 Periodicity
 Description

Reason for proposed change

The geology program is changing the names and numbers of our introductory courses. The prerequisites for this course are being updated to reflect the new course names and numbers:

GLG 110(4) --> GLG 113(3) (lecture+lab to lecture only)
 GLG 171(3) --> GLG 114(3)
 GLG 115(3) --> no change to name or number
 GLG 172(1) --> GLG 116(1)

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
 Faculty Input
 Student Input
- Accreditation/certification compliance
 Review of catalog information

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made to the introductory geology courses.
This results in no change to the number of credits or courses required for the major.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/06/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 01/06/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG318 Physical Oceanography

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GLG 318 Physical Oceanography

Prerequisite: GLG 110 or both GLG 171 and GLG 172. A comprehensive study of the physical ocean; including the origin and nature of tides, waves, and ocean currents; marine geology, resources and pollution. 3(3-0) S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* 🔗

GLG 318 Physical Oceanography

Prerequisite: **GLG 113 or GLG 114 or GLG 115; GLG 116** ~~GLG 110 or both GLG 171 and GLG 172~~. A comprehensive study of the physical ocean; including the origin and nature of tides, waves, and ocean currents; marine geology, resources and pollution. 3(3-0) S

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

The geology program is changing the names and numbers of our introductory courses. The prerequisites for this course are being updated to reflect the new course names and numbers:

- GLG 110(4) --> GLG 113(3) (lecture+lab to lecture only)
- GLG 171(3) --> GLG 114(3)
- GLG 115(3) --> no change to name or number
- GLG 172(1) --> GLG 116(1)

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made to the introductory geology courses.

This results in no change to the number of credits or courses required for the major.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/06/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 01/06/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG332 Mineralogy

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GLG 332 Mineralogy

Prerequisite: GLG 110 or both GLG 171 and GLG 172; and CHM 160; and MTH 136 or higher. Origin, classification, description, and identification of ore minerals and rock-forming minerals. 3(2-2) F

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GLG 332 Mineralogy

Prerequisite: **GLG 113 or GLG 114 or GLG 115; GLG 116** ~~GLG 110 or both GLG 171 and GLG 172~~; and CHM 160; and MTH 136 or higher. Origin, classification, description, and identification of ore minerals and rock-forming minerals. 3(2-2) F

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

The geology program is changing the names and numbers of our introductory courses. The prerequisites for this course are being updated to reflect the new course names and numbers:

- GLG 110(4) --> GLG 113(3) (lecture+lab to lecture only)
- GLG 171(3) --> GLG 114(3)
- GLG 115(3) --> no change to name or number
- GLG 172(1) --> GLG 116(1)

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made to the introductory geology courses.

This results in no change to the number of credits or courses required for the major.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/06/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 01/06/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG350 Speleology

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GLG 350 Speleology

Prerequisite: GLG 110 or GLG 171. Caves, karst and cavernous terrain, their origin, geologic environment and evolution. Field trips and field research required. 3(2-2) F

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GLG 350 Speleology

Prerequisite: **GLG 113 or GLG 114 or GLG 115** ~~GLG 110 or GLG 171~~. Caves, karst and cavernous terrain, their origin, geologic environment and evolution. Field trips and field research required. 3(2-2) F

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- | | | | |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code | <input type="checkbox"/> Course Number (<u>Check Availability</u>) | <input type="checkbox"/> Title | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity | <input type="checkbox"/> Description | |

Reason for proposed change

The geology program is changing the names and numbers of our introductory courses. The prerequisites for this course are being updated to reflect the new course names and numbers:

GLG 110(4) --> GLG 113(3) (lecture+lab to lecture only)
 GLG 171(3) --> GLG 114(3)
 GLG 115(3) --> no change to name or number

Also, in alignment with our decision to allow GLG 115 to count as an intro course to the major, we are including that course in the prerequisites. We are not requiring the lab as a prerequisite (i.e., GLG 116) since previously students could take this course with the non-lab GLG 171.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- | | | |
|--|---|--|
| <input type="checkbox"/> Routine or annual review/assessment of curriculum | <input type="checkbox"/> Faculty Input | <input type="checkbox"/> Student Input |
| <input type="checkbox"/> Accreditation/certification compliance | <input checked="" type="checkbox"/> Review of catalog information | |

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made to the introductory geology courses.

This results in no change to the number of credits or courses required for the major.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/06/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 01/06/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG355 Volcanology

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GLG 355 Volcanology

Prerequisite: GLG 110 or GLG 171 and GLG 172. Systematic discussion of volcanic phenomena, including types of eruptions, generation and emplacement of magmas, products of volcanism, volcanic impact on humans, and the monitoring and forecasting of volcanic events. Case studies of individual volcanoes illustrate principles of volcanology, with a particular emphasis on Hawaiian, Andean, Icelandic and Cascade volcanism. 3(2-2) SO

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GLG 355 Volcanology

Prerequisite: **GLG 113 or GLG 114 or GLG 115; GLG 116** ~~GLG 110 or GLG 171 and GLG 172~~. Systematic discussion of volcanic phenomena, including types of eruptions, generation and emplacement of magmas, products of volcanism, volcanic impact on humans, and the monitoring and forecasting of volcanic events. Case studies of individual volcanoes illustrate principles of volcanology, with a particular emphasis on Hawaiian, Andean, Icelandic and Cascade volcanism. 3(2-2) SO

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- Course Code
 Course Number (Check Availability)
 Title
 Prerequisite
- Credit Hours/Contact Hours
 Periodicity
 Description

Reason for proposed change

The geology program is changing the names and numbers of our introductory courses. The prerequisites for this course are being updated to reflect the new course names and numbers:

GLG 110(4) --> GLG 113(3) (lecture+lab to lecture only)
 GLG 171(3) --> GLG 114(3)
 GLG 115(3) --> no change to name or number
 GLG 172(1) --> GLG 116(1)

Also, in alignment with our decision to allow GLG 115 to count as an intro course to the major, we are including that course in the prerequisites.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
 Faculty Input
 Student Input
- Accreditation/certification compliance
 Review of catalog information

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made to the introductory geology courses.

This results in no change to the number of credits or courses required for the major.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/06/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 01/06/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG360 Directed Field Trips

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GLG 360 Directed Field Trips

Prerequisite: GLG 110 or both GLG 171 and GLG 172; and GLG 314; and permission. Geologic field trips to areas of special interest. Variable content course. Because credit hours and destinations vary, the course may be repeated to a maximum of eight hours. However, no more than four hours may count toward any Geology major. Graded Pass/Not Pass only. 1-3 D

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶	↷	B	<i>I</i>	⌘

GLG 360 Directed Field Trips

Prerequisite: **GLG 113 or GLG 114 or GLG 115; GLG 116** ~~GLG 110 or both GLG 171 and GLG 172~~; and GLG 314; and permission. Geologic field trips to areas of special interest. Variable content course. Because credit hours and destinations vary, the course may be repeated to a maximum of eight hours. However, no more than four hours may count toward any Geology major. Graded Pass/Not Pass only. 1-3 D

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- | | | | |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code | <input type="checkbox"/> Course Number (<u>Check Availability</u>) | <input type="checkbox"/> Title | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity | <input type="checkbox"/> Description | |

Reason for proposed change

The geology program is changing the names and numbers of our introductory courses. The prerequisites for this course are being updated to reflect the new course names and numbers:

GLG 110(4) --> GLG 113(3) (lecture+lab to lecture only)
 GLG 171(3) --> GLG 114(3)
 GLG 115(3) --> no change to name or number
 GLG 172(1) --> GLG 116(1)

Also, in alignment with our decision to allow GLG 115 to count as an intro course to the major, we are including that course in the prerequisites.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- | | | |
|--|---|--|
| <input type="checkbox"/> Routine or annual review/assessment of curriculum | <input type="checkbox"/> Faculty Input | <input type="checkbox"/> Student Input |
| <input type="checkbox"/> Accreditation/certification compliance | <input checked="" type="checkbox"/> Review of catalog information | |

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made to the introductory geology courses.

This results in no change to the number of credits or courses required for the major.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/06/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 01/06/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG547 Water Resources

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Enter parallel course number

GLG647 Water Resources

How do these classes differ?

The graduate level version of the course has additional expectations (assignments, exam questions, etc.) beyond those required in undergraduate version.

Current online catalog description:

GLG 547 Water Resources

Prerequisite: BIO 122 or GLG 110 or GLG 171 or GRY 142. An interdisciplinary study of freshwater resource development, including environmental impacts of humans on hydrology and water quality, conflicts among users, and politics at local and global scales. Identical with BIO 547. Cannot receive credit for both GLG 547 and BIO 547. May be taught concurrently with GLG 647. Cannot receive credit for both GLG 547 and GLG 647. 3(3-0) S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

← → **B** *I* ~~S~~

GLG 547 Water Resources

Prerequisite: BIO 122 or **GLG 113 or GLG 114 or GLG 115 or GRY 145** ~~GLG 110 or GLG 171 or GRY 142~~. An interdisciplinary study of freshwater resource development, including environmental impacts of humans on hydrology and water quality, conflicts among users, and politics at local and global scales. Identical with BIO 547. Cannot receive credit for both GLG 547 and BIO 547. May be taught concurrently with GLG 647. Cannot receive credit for both GLG 547 and GLG 647. 3(3-0) S

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- Course Code
- Course Number ([Check Availability](#))
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

The geology and geography programs are changing the names and numbers of our introductory courses. The prerequisites for this course are being updated to reflect the new course names and numbers:

GLG 110(4) --> GLG 113(3) (lecture+lab to lecture only)
 GLG 171(3) --> GLG 114(3)
 GLG 115(3) --> no change to name or number
 GRY 142(4) --> GRY 145(3) (lecture+lab to lecture only)

Also, in alignment with our decision to allow GLG 115 to count as an intro course to the major, we are including that course in the prerequisites. We are not requiring the lab as a prerequisite (i.e., GLG 116) since previously students could take this course with the non-lab GLG 171.

We have requested that the Biology Department make analogous changes to BIO 547 and 647.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

Routine or annual review/assessment of curriculum Faculty Input Student Input

Accreditation/certification compliance Review of catalog information

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made to the introductory geology courses.

This results in no change to the number of credits or courses required for the major.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/06/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

Change Course Proposal Form

Submitted on 01/06/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GRY240 Earth Science for Teachers

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GRY 240 Earth Science for Teachers

Prerequisite: 30 hours; open only to Early Childhood, Elementary, and Middle School majors. MOTR number PHYS 110LT - Essentials in Physical Sciences with Lab. A course designed to give students an understanding of the processes of science and the basic concepts of earth science using the inquiry approach in hands-on laboratory activities. Content includes maps, earth in space, weather and climate, soils and vegetation, rocks and minerals, landforms, processes of landform development, water resources, environmental relationship to the physical setting. Does not apply toward the major in Secondary Education. Students who take GRY 240 and GRY 142 may receive credit for only one of these courses. 4(2-4) F,S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)



GRY 240 Earth Science for Teachers

Prerequisite: 30 hours; open only to Early Childhood, Elementary, and Middle School majors. MOTR number PHYS 110LT - Essentials in Physical Sciences with Lab. A course designed to give students an understanding of the processes of science and the basic concepts of earth science using the inquiry approach in hands-on laboratory activities. Content includes maps, earth in space, weather and climate, soils and vegetation, rocks and minerals, landforms, processes of landform development, water resources, environmental relationship to the physical setting. Does not apply toward the major in Secondary Education. Students who take GRY 240 and **GRY 145** ~~GRY 142~~ may receive credit for only one of these courses. 4(2-4) F,S

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- Course Code
- Course Number ([Check Availability](#))
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

GRY 142 Introductory Physical Geography is being re-named and re-numbered to GRY 145 Earth's Natural Environment. We are updating this course description, which mentions GRY 142, to reflect the updated course number.

Note: part of the change to GRY 142 (currently a 4 cr lab + lecture course) is to separate it into a lecture (GRY 145) and a standalone lab (GRY 146). We do not feel it is necessary to include mention of the GRY 146 lab here, which would generally be taken with GRY 145. The purpose of this statement is to prevent students from taking both GRY 240 and GRY 145 which significantly overlap in lecture content. The GRY 240 and GRY 146 labs are less similar, including that the GRY 146 lab does not include coverage of pedagogical strategies, which are a primary focus of the GRY 240 labs. As such, if a student did for some reason take the GRY 146 lab and earned credit for it in addition to GRY 240 credit, this is not a concern in terms of overlapping experience.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input

Accreditation/certification compliance Review of catalog information

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made by the geography program.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/06/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GRY348 Geomorphology

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GRY 348 Geomorphology

Prerequisite: GRY 142 or GLG 110 or both GLG 171 and GLG 172. Geomorphology is the study of the origin, composition, and spatial distribution of surface landforms and their formative processes such as tectonic forces, chemical and physical weathering, and erosion and deposition of by water, wind, and ice. Emphasis is on geomorphic processes and landform development, methods of landform analysis, and environmental management. Case study approach is used to apply geomorphic concepts to understanding environmental hazards and sustainability and the role of humans as geomorphic agents. Field trips required. 3(2-2) F

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* 

GRY 348 Geomorphology

Prerequisite: **GRY 145 and GRY 146** ~~GRY 142~~; or **GLG 113 or GLG 114 and GLG 116** ~~GLG 110 or both GLG 171 and GLG 172~~. Geomorphology is the study of the origin, composition, and spatial distribution of surface landforms and their formative processes such as tectonic forces, chemical and physical weathering, and erosion and deposition of by water, wind, and ice. Emphasis is on geomorphic processes and landform development, methods of landform analysis, and environmental management. Case study approach is used to apply geomorphic concepts to understanding environmental hazards and sustainability and the role of humans as geomorphic agents. Field trips required. 3(2-2) F

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- Course Code
 Course Number ([Check Availability](#))
 Title
 Prerequisite
- Credit Hours/Contact Hours
 Periodicity
 Description

Reason for proposed change

The geology and geography programs are changing the names and numbers of their introductory courses (including splitting 4 credit courses into separate 3 credit lectures and 1 credit standalone labs).

We are reflecting these changes by updating places in the curriculum where these changed courses appear as pre-requisites.

Old Course --> New Course

GLG 110(4) --> GLG 113(3)

GLG 171(3) --> GLG 114(3)

GLG 172(1) --> GLG 116(1)

GRY 142(4) --> GRY 145(3)

GRY 143(1) --> GRY 146(1)

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made by the geology and geography programs.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR COURSE CHANGE STATEMENT

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 11/14/2023 by Asif Ishtiaque (AsifIshtiaque@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GRY351 Conservation of Natural Resources

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Current online catalog description:

GRY 351 Conservation of Natural Resources

Prerequisite: 30 hours. An examination of the dynamic interplay between physical, economic, social, and political factors affecting the major natural resource issues facing the world today. A presentation of the laws of the natural environment followed by an analysis of conservation issues and problems that occur in response to human use of the natural environment. 3(3-0) F,S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GRY 351 ~~Conservation~~ **Sustainable Management** of Natural Resources

Prerequisite: 30 hours. **A comprehensive examination of Earth's natural resources and their sustainable management approaches. Emphasizes exploration of challenges and opportunities of natural resource management practices considering diverse ecosystems, societal needs, and environmental changes. Focuses on analyzing natural resource systems, applying interdisciplinary approaches, and developing policy insights to foster sustainable management of natural resources.** ~~An examination of the dynamic interplay between physical, economic, social, and political factors affecting the major natural resource issues facing the world today. A presentation of the laws of the natural environment followed by an analysis of conservation issues and problems that occur in response to human use of the natural environment.~~ 3(3-0)-F,S

POWERED BY TINYMCE 

What is changing? Check all boxes that apply.

- | | | | |
|---|--|---|---------------------------------------|
| <input type="checkbox"/> Course Code | <input type="checkbox"/> Course Number (<u>Check Availability</u>) | <input checked="" type="checkbox"/> Title | <input type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input checked="" type="checkbox"/> Periodicity | <input checked="" type="checkbox"/> Description | |

Reason for proposed change

We are changing the title and description to emphasize the themes of sustainability that are typically covered and aligning the title and description with the new name of the major and the school.

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Routine or annual review/assessment of curriculum | <input checked="" type="checkbox"/> Faculty Input | <input type="checkbox"/> Student Input |
| <input type="checkbox"/> Accreditation/certification compliance | <input type="checkbox"/> Review of catalog information | |

Other (be specific):

Check if this is a non-substantive change.

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

05/12/2023

Current Status:

College Council Review

Proposal Progress:

11/14/2023 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GRY525 Environmental Hazards

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Enter parallel course number

GRY625 Environmental Hazards

How do these classes differ?

The graduate GRY 625 has additional expectations (assignments, exam questions, etc.) beyond those required in GRY 525.

Current online catalog description:

GRY 525 Environmental Hazards

Prerequisite: GRY 142 or both GRY 135 and GLG 110. Identification, recognition, and impact of hazards. Physical exposure to hazards and human vulnerability in LDCs and MDCs. Disaster trends and patterns. Behavioral and structural paradigms of hazards. EM-DAT: international disaster database. Statistical methods used in risk assessments. Risk perception, communication, and disaster management. Tectonic, mass movement, atmospheric, hydrological, biophysical, and technological hazards: analysis, preparedness, and mitigation. May be taught concurrently with GRY 625. Cannot receive credit for both GRY 525 and GRY 625. 3(3-0) D

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GRY 525 Environmental Hazards

Prerequisite: **GRY 145 and GRY 146** ~~GRY 142~~; or both **GRY 137, GRY 138, and GLG 113 or GLG 114** ~~GRY 135 and GLG 110~~. Identification, recognition, and impact of hazards. Physical exposure to hazards and human vulnerability in LDCs and MDCs. Disaster trends and patterns. Behavioral and structural paradigms of hazards. EM-DAT: international disaster database. Statistical methods used in risk assessments. Risk perception, communication, and disaster management. Tectonic, mass movement, atmospheric, hydrological, biophysical, and technological hazards: analysis, preparedness, and mitigation. May be taught concurrently with GRY 625. Cannot receive credit for both GRY 525 and GRY 625. 3(3-0) D

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- | | | | |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code | <input type="checkbox"/> Course Number (<u>Check Availability</u>) | <input type="checkbox"/> Title | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity | <input type="checkbox"/> Description | |

Reason for proposed change

The geology and geography programs are changing the names of their introductory courses (including splitting 4 credit courses into separate 3 credit lectures and 1 credit standalone labs).

We are reflecting these changes by updating places in the curriculum where these changed courses appear as pre-requisites.

Old Course --> New Course

GLG 110(4) --> GLG 113(3)

GLG 171(3) --> GLG 114(3)

GRY 135(4) --> GRY 137(3) and GRY 138(1)

GRY 142(4) --> GRY 145(3)

GRY 143(1) --> GRY 146(1)

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

[Empty text box for explanation]

How did you determine the need for this change? Check all boxes that apply or specify other.

Routine or annual review/assessment of curriculum Faculty Input Student Input

Accreditation/certification compliance Review of catalog information

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made by the geology and geography programs.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Course Proposal Form

Submitted on 01/06/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GRY535 Global Climate and Weather Cycles

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Enter parallel course number

GRY635 Global Climate and Weather Cycles

How do these classes differ?

The graduate level version of the course has additional expectations (assignments, exam questions, etc.) beyond those required in undergraduate version.

Current online catalog description:

GRY 535 Global Climate and Weather Cycles

Prerequisite: GRY 135; and MTH 340 or AGR 330 or PSY 200 or QBA 237 or REC 328. Energy and mass exchanges. Global atmospheric circulation; surface and upper-air flows. Index cycle: zonal and meridional atmospheric circulations. Teleconnections and atmospheric oscillations: NAO, PNA, PDO, AO, ENSO, and AMO. Interactions between atmospheric oscillations and surface climatic variables in the United States and around the world. Weather cycles, natural climatic variability and climate change. Drought indices. Spatial and temporal statistical domains used in climatic data analysis. May be taught concurrently with GRY 635. Cannot receive credit for both GRY 535 and GRY 635. 3(3-0) D

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GRY 535 Global Climate and Weather Cycles

Prerequisite: **GRY 137 and GRY 138** ~~GRY 135~~; and MTH 340 or AGR 330 or PSY 200 or QBA 237 or REC 328. Energy and mass exchanges. Global atmospheric circulation; surface and upper-air flows. Index cycle: zonal and meridional atmospheric circulations. Teleconnections and atmospheric oscillations: NAO, PNA, PDO, AO, ENSO, and AMO. Interactions between atmospheric oscillations and surface climatic variables in the United States and around the world. Weather cycles, natural climatic variability and climate change. Drought indices. Spatial and temporal statistical domains used in climatic data analysis. May be taught concurrently with GRY 635. Cannot receive credit for both GRY 535 and GRY 635. 3(3-0) D

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- | | | | |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code | <input type="checkbox"/> Course Number (<u>Check Availability</u>) | <input type="checkbox"/> Title | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity | <input type="checkbox"/> Description | |

Reason for proposed change

The geography program is changing the names and numbers of our introductory courses. The prerequisites for this course are being updated to reflect the new course names and numbers:

Old Course --> New Course

GRY 135(4) --> GRY 137(3) and GRY 138(1)

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Change Course Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

***All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GRY549 Sustainable Landform Management

Will this proposal need to be reviewed by CGEIP? No Yes

Will this proposal need to be reviewed by EPPC? No Yes

Is there a graduate/undergraduate parallel course to this one? No Yes

Enter parallel course number

GRY649 Sustainable Landform Management

How do these classes differ?

The graduate level version of the course has additional expectations (assignments, exam questions, etc.) beyond those required in undergraduate version.

Current online catalog description:

GRY 549 Sustainable Landform Management

Recommended Prerequisite: GRY 142 or GLG 110. A study of the earth's landforms focusing on the scientific understanding of the landform development processes integrating management practices and sustainability. Emphasis is placed on the role of humans as a geomorphic agent in the 21st century and the need for a sustainable approach towards landform management. May be taught concurrently with GRY 649. Cannot receive credit for both GRY 549 and GRY 649. 3(3-0) SE

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GRY 549 Sustainable Landform Management

Recommended Prerequisite: **GRY 145 and 146; or GLG 113 or GLG 114 and GLG 116**~~GRY 142 or GLG 110~~. A study of the earth's landforms focusing on the scientific understanding of the landform development processes integrating management practices and sustainability. Emphasis is placed on the role of humans as a geomorphic agent in the 21st century and the need for a sustainable approach towards landform management. May be taught concurrently with GRY 649. Cannot receive credit for both GRY 549 and GRY 649. 3(3-0) SE

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- | | | | |
|---|---|--------------------------------------|--|
| <input type="checkbox"/> Course Code | <input type="checkbox"/> Course Number (Check Availability) | <input type="checkbox"/> Title | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity | <input type="checkbox"/> Description | |

Reason for proposed change

The geology and geography programs are changing the names of their introductory courses (including splitting 4 credit courses into separate 3 credit lectures and 1 credit standalone labs).

We are reflecting these changes by updating places in the curriculum where these changed courses appear as pre-requisites.

Old Course --> New Course

GLG 110(4) --> GLG 113(3)
 GLG 171(3) --> GLG 114(3)
 GLG 172(1) --> GLG 116(1)
 GRY 142(4) --> GRY 145(3)
 GRY 143(1) --> GRY 146(1)

Does this change affect course assessment (e.g. student learning evidence/outcomes)? No Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

Routine or annual review/assessment of curriculum Faculty Input Student Input

Accreditation/certification compliance Review of catalog information

Other (be specific):

As described above we are updating existing pre-requisites with their new names and course numbers to reflect changes being made by the geology and geography programs.

Check if this is a non-substantive change.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

Change Program Proposal Form

Submitted on 12/18/2023 by Krista Evans (KristaEvans@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Small Town Planning and Development-Undergraduate Certificate

Current Catalog Description:

*(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Four courses from: PLN 300(3), 367(3), 370(3), 505(3), 572(4), 573(3), 574(3), 576(4), 597(3), 599(3); GRY 322(3), GRY 325(3), LAW 537(3).
All candidates must satisfy the General University Certificate Requirements.

Not Attached

Complete New Catalog Description:

*(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* 🔗

Four courses from: PLN 300(3), 367(3), 370(3), 505(3), **570 (3)**, 572(4), ~~573(3)~~, ~~574(3)~~, ~~576(4)~~, 597(3), 599(3); GRY 322(3), GRY 325(3), LAW 537(3).
All candidates must satisfy the General University Certificate Requirements.

POWERED BY TINYMCE

*Not Attached*Total Hours: **What is changing? Check all boxes that apply:**

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The proposal will result in the Planning certificate being in compliance with the changes made to the major and implemented last year.

Reason for Proposed Change:

PLN 573 (urban design), 574 (open space planning), and 576 (site planning) have not been offered in years and we do not have a faculty member to teach them at this time. They will be removed as options but remain on the books in case adopted again in the future. PLN 570, Planning Law, which is offered on a regular basis, will be a three credit option for the certificate.

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

College Council Review

Proposal Progress:

01/04/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Change Program Proposal Form

Submitted on 12/18/2023 by Krista Evans (KristaEvans@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Choose All That Apply:

- Bachelor of Arts
- Bachelor of Applied Science
- Bachelor of Fine Arts
- Bachelor of Music Education
- Bachelor of Music
- Bachelor of Science
- Bach of Science in Education
- Bachelor of Science in Nursing
- Bachelor of Social Work

Does this program include any new courses?

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

Title of Program Affected:

Community and Regional Planning

Current Catalog Description: (Either cut and paste present description from online catalog **OR** provide as an attachment below)

Please note: As will be printed in the Spring 2024 catalog, PLN 370 has replaced PLN 371 and PLN 372.
 Community and Regional Planning
 Bachelor of Science
 PLN 367(3), 371(3), 372(3), 571(3).
 PLN 572(4) or 576(4).

Not

Attached

Complete New Catalog Description: (Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)

← → **B** *I* ~~S~~

Please note: As will be printed in the Spring 2024 catalog, PLN 370 has replaced PLN 371 and PLN 372. Community and Regional Planning Bachelor of Science PLN 367(3), 371(3), 372(3), 571(3). PLN 572(4) or ~~576(4)~~ **PLN 505 (3) or PLN 570 (3).**

POWERED BY TINYMCE

Not Attached

Total Hours:

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

This proposal will but the minor in alignment with the changes that were made to the major and adopted last year.

Reason for Proposed Change:

PLN 576 (Site Planning) has not been offered for many years and there is no instructor is available to teach it at this time. It will therefore be removed from the minor as a possibility. It will be replaced with two options that are available at the 500 level, 505 (Social Planning) or 570 (Planning Law)

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

Current Status:

College Council Review

Proposal Progress:

01/04/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Change Program Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Geology-BS (Non-Comprehensive)

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* S

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

To be clear, we have checked the boxes for adding existing and new courses, however, there is no real net change to the major, only some changes in intro course names, numbers, and one additional option for filling the intro requirement. Currently, students take a four-credit intro experience of either GLG 110(4) or GLG 171(3) + GLG 172(3). The proposed change reflects that GLG 110 will be split into a separate lecture (GLG 113) and a standalone lab course (GLG 116) and that students will now also have the option of taking GLG 171 (changing to GLG 114) or GLG 115 for the lecture portion of the intro requirement.

This does NOT result in any change to the number of credits or courses required for the major. There will also be no net change in the number of introductory courses in geology that we offer.

We are deleting GLG 110 in order to separate the lecture and laboratory portions of the course. GLG 110 is being replaced with a lecture only GLG 113 Earth: The Instruction Manual. The existing GLG 172 Physical Geology Laboratory course is being changed to GLG 116 Earth: The Hands-on Adventure. GLG 171 Environmental Geology is being changed to GLG 114 Earth: The Survival Guide and GLG 115 Life of the Past remains the same.

Any of the lecture courses (GLG 113, 114, or 115), in combination with the GLG 116 lab course, will now serve to fulfill the introductory course requirement for the geology major, minor, or certificate programs.

GLG 110 will be deleted after the proposals for GLG 113 (new course), 114 (change course), 115 (change course), and 116 (change course) are approved.

Reason for Proposed Change:

Moving to the model of standalone laboratory course (analogous to CHM 161 and BIO 111) streamlines the pathway into the geology major, minor, and certificate programs for students who have lecture credit, but lack the laboratory required for the major (especially common for students transferring to MSU to major in geology). It also provides flexibility for students who initially take a lecture-only geology course for their General Education or MOTR requirements and then discover an interest in filling their laboratory requirement with a geology course (for example, there is no current mechanism for students in the GLG 115 or GLG 171 to subsequently take a geology lab course for their General Education or MOTR requirement).

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Geology Non-Comprehensive Major - Change Program Proposal

Current Program Requirements:

Geology (Non-Comprehensive)

Bachelor of Science

Major requirements (45-47 hours):

1. [GLG 110](#)(4) or both [GLG 171](#)(3) and [GLG 172](#)(1); [GLG 314](#)(3), [332](#)(3), [333](#)(3), [334](#)(3), [340](#)(4), [358](#)(3).
2. Four hours from [GLG 412](#) or [GLG 413](#) or equivalent pre-approved field geology course transferred from another university.
3. Three hours from GLG courses numbered 318 or higher.
4. Three additional hours from GLG courses numbered 400 or higher.
5. [CHM 160](#)(4), [161](#)(1).
6. [MTH 137](#)(3) or higher.
7. [GEO 363](#)(4).
8. Public Affairs Capstone Experience will be fulfilled by completion of [GLG 358](#)(3).
9. Minor required (or second major). Geology majors wishing to emphasize paleontology should minor in biology.

Geology Non-Comprehensive Major - Change Program Proposal

Revised Program Requirements:

Geology (Non-Comprehensive)

Bachelor of Science

Major requirements (45-47 hours):

1. ~~GLG 110(4)~~ or both ~~GLG 171(3)~~ and ~~GLG 172(1)~~ **GLG 113(3) or GLG 114(3) or GLG 115(3) and GLG 116(1);** [GLG 314\(3\)](#), [332\(3\)](#), [333\(3\)](#), [334\(3\)](#), [340\(4\)](#), [358\(3\)](#).
2. Four hours from [GLG 412](#) or [GLG 413](#) or equivalent pre-approved field geology course transferred from another university.
3. Three hours from GLG courses numbered 318 or higher.
4. Three additional hours from GLG courses numbered 400 or higher.
5. [CHM 160\(4\)](#), [161\(1\)](#).
6. [MTH 137\(3\)](#) or higher.
7. [GEO 363\(4\)](#).
8. Public Affairs Capstone Experience will be fulfilled by completion of [GLG 358\(3\)](#).
9. Minor required (or second major). Geology majors wishing to emphasize paleontology should minor in biology.

Change Program Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Geology-BS (Comprehensive)

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* ~~S~~

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

To be clear, we have checked the boxes for adding existing and new courses, however, there is no real net change to the major, only some changes in intro course names, numbers, and one additional option for filling the intro requirement. Currently, students take a four-credit intro experience of either GLG 110(4) or GLG 171(3) + GLG 172(3). The proposed change reflects that GLG 110 will be split into a separate lecture (GLG 113) and a standalone lab course (GLG 116) and that students will now also have the option of taking GLG 171 (changing to GLG 114) or GLG 115 for the lecture portion of the intro requirement.

This does NOT result in any change to the number of credits or courses required for the major. There will also be no net change in the number of introductory courses in geology that we offer.

We are deleting GLG 110 in order to separate the lecture and laboratory portions of the course. GLG 110 is being replaced with a lecture only GLG 113 Earth: The Instruction Manual. The existing GLG 172 Physical Geology Laboratory course is being changed to GLG 116 Earth: The Hands-on Adventure. GLG 171 Environmental Geology is being changed to GLG 114 Earth: The Survival Guide and GLG 115 Life of the Past remains the same.

Any of the lecture courses (GLG 113, 114, or 115), in combination with the GLG 116 lab course, will now serve to fulfill the introductory course requirement for the geology major, minor, or certificate programs.

GLG 110 will be deleted after the proposals for GLG 113 (new course), 114 (change course), 115 (change course), and 116 (change course) are approved.

Reason for Proposed Change:

Moving to the model of standalone laboratory course (analogous to CHM 161 and BIO 111) streamlines the pathway into the geology major, minor, and certificate programs for students who have lecture credit, but lack the laboratory required for the major (especially common for students transferring to MSU to major in geology). It also provides flexibility for students who initially take a lecture-only geology course for their General Education or MOTR requirements and then discover an interest in filling their laboratory requirement with a geology course (for example, there is no current mechanism for students in the GLG 115 or GLG 171 to subsequently take a geology lab course for their General Education or MOTR requirement).

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Geology Comprehensive Major - Change Program Proposal

Current Program Requirements:

Geology (Comprehensive)

Bachelor of Science

Major requirements (65-71 hours):

This major is designed for those who wish to seek admission to graduate school in geology or related fields.

1. [GLG 110](#)(4) or both [GLG 171](#)(3) and [GLG 172](#)(1); [GLG 314](#)(3), [332](#)(3), [333](#)(3), [334](#)(3), [340](#)(4), [358](#)(3), [570](#)(3).
2. Six hours from [GLG 412](#) or [GLG 413](#) or equivalent pre-approved field geology course transferred from another university.
3. 10 additional hours of GLG courses numbered 318 or higher, with at least six of these hours from GLG courses numbered 400 or higher.
4. [GEO 363](#)(4).
5. [CHM 160](#)(4), [161](#)(1); [PHY 123](#)(4) or [203](#)(5); [MTH 261](#)(5) or [287](#)(3).
6. Seven to 10 hours from two of the following groups:
 - a. [CHM 170](#)(3) and [171](#)(1).
 - b. [PHY 124](#)(4) or [204](#)(5).
 - c. [MTH 280](#)(5) or [288](#)(3).
7. Public Affairs Capstone Experience will be fulfilled by completion of [GLG 358](#)(3).

Geology Comprehensive Major - Change Program Proposal

Revised Program Requirements:

Geology (Comprehensive)

Bachelor of Science

Major requirements (65-71 hours):

This major is designed for those who wish to seek admission to graduate school in geology or related fields.

1. ~~GLG 110(4) or both GLG 171(3) and GLG 172(1)~~ **GLG 113(3) or GLG 114(3) or GLG 115(3) and GLG 116(1);** [GLG 314\(3\)](#), [332\(3\)](#), [333\(3\)](#), [334\(3\)](#), [340\(4\)](#), [358\(3\)](#), [570\(3\)](#).
2. Six hours from [GLG 412](#) or [GLG 413](#) or equivalent pre-approved field geology course transferred from another university.
3. 10 additional hours of GLG courses numbered 318 or higher, with at least six of these hours from GLG courses numbered 400 or higher.
4. [GEO 363\(4\)](#).
5. [CHM 160\(4\)](#), [161\(1\)](#); [PHY 123\(4\)](#) or [203\(5\)](#); [MTH 261\(5\)](#) or [287\(3\)](#).
6. Seven to 10 hours from two of the following groups:
 - a. [CHM 170\(3\)](#) and [171\(1\)](#).
 - b. [PHY 124\(4\)](#) or [204\(5\)](#).
 - c. [MTH 280\(5\)](#) or [288\(3\)](#).
7. Public Affairs Capstone Experience will be fulfilled by completion of [GLG 358\(3\)](#).

Change Program Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Choose All That Apply:

- Bachelor of Arts
- Bachelor of Applied Science
- Bachelor of Fine Arts
- Bachelor of Music Education
- Bachelor of Music
- Bachelor of Science
- Bach of Science in Education
- Bachelor of Science in Nursing
- Bachelor of Social Work

Does this program include any new courses?

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

Title of Program Affected:

Geology

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: (Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)

↶ ↷ **B** *I* ~~S~~

POWERED BY TINYMCE

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements

Other

To be clear, we have checked the boxes for adding existing and new courses, however, there is no real net change to the minor, only some changes in intro course names, numbers, and one additional option for filling the intro requirement. Currently, students take a four-credit intro experience of either GLG 110(4) or GLG 171(3) + GLG 172(3). The proposed change reflects that GLG 110 will be split into a separate lecture (GLG 113) and a standalone lab course (GLG 116) and that students will now also have the option of taking GLG 171 (changing to GLG 114) or GLG 115 for the lecture portion of the intro requirement.

This does NOT result in any change to the number of credits or courses required for the minor. There will also be no net change in the number of introductory courses in geology that we offer.

We are deleting GLG 110 in order to separate the lecture and laboratory portions of the course. GLG 110 is being replaced with a lecture only GLG 113 Earth: The Instruction Manual. The existing GLG 172 Physical Geology Laboratory course is being changed to GLG 116 Earth: The Hands-on Adventure. GLG 171 Environmental Geology is being changed to GLG 114 Earth: The Survival Guide and GLG 115 Life of the Past remains the same.

Any of the lecture courses (GLG 113, 114, or 115), in combination with the GLG 116 lab course, will now serve to fulfill the introductory course requirement for the geology major, minor, or certificate programs.

GLG 110 will be deleted after the proposals for GLG 113 (new course), 114 (change course), 115 (change course), and 116 (change course) are approved.

Reason for Proposed Change:

Moving to the model of standalone laboratory course (analogous to CHM 161 and BIO 111) streamlines the pathway into the geology major, minor, and certificate programs for students who have lecture credit, but lack the laboratory required for these programs (especially common for students transferring to MSU for geology). It also provides flexibility for students who initially take a lecture-only geology course for their General Education or MOTR requirements and then discover an interest in filling their laboratory requirement with a geology course (for example, there is no current mechanism for students in the GLG 115 or GLG 171 to subsequently take a geology lab course for their General Education or MOTR requirement).

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Geology Minor - Change Program Proposal

Current Program Requirements:

Minor(s)

Geology

Bachelor of Arts

1. GLG 110(4) or both GLG 171(3) and 172(1); GLG 314(4).
2. Four hours of GLG 360(1-3) or 412(4).
3. Three additional hours of GLG courses numbered 318 or higher.

Geology

Bachelor of Science

1. GLG 110(4) or both GLG 171(3) and 172(1); GLG 314(4).
2. Four hours of GLG 360(1-3) or 412(4).
3. Six additional hours of GLG courses numbered 318 or higher.

Geology Minor - Change Program Proposal

Revised Program Requirements:

Minor(s)

Geology

Bachelor of Arts

1. ~~GLG 110(4) or both GLG 171(3) and GLG 172(1)~~ **GLG 113(3) or GLG 114(3) or GLG 115(3) and GLG 116(1)**; GLG 314(4).
2. Four hours of GLG 360(1-3) or 412(4).
3. Three additional hours of GLG courses numbered 318 or higher.

Geology

Bachelor of Science

1. ~~GLG 110(4) or both GLG 171(3) and GLG 172(1)~~ **GLG 113(3) or GLG 114(3) or GLG 115(3) and GLG 116(1)**; GLG 314(4).
2. Four hours of GLG 360(1-3) or 412(4).
3. Six additional hours of GLG courses numbered 318 or higher.

Change Program Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Envirn & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Choose All That Apply:

- Bachelor of Arts
- Bachelor of Applied Science
- Bachelor of Fine Arts
- Bachelor of Music Education
- Bachelor of Music
- Bachelor of Science
- Bach of Science in Education
- Bachelor of Science in Nursing
- Bachelor of Social Work

Does this program include any new courses?

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

Title of Program Affected:

Geospatial Sciences

Current Catalog Description:

*(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: (Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)

↶ ↷ **B** *I* ~~S~~

POWERED BY TINYMCE

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geology and geography programs are changing the names of their introductory courses (including splitting 4 credit courses into separate 3 credit lectures and 1 credit standalone labs).

We are reflecting these changes by updating the affected courses in our major requirement (specifically requirement #1) as follows:

Old Course --> New Course

GLG 110(4) --> GLG 113(3)

GLG 171(3) --> GLG 114(3)

GRY 135(4) --> GRY 137(3)

GRY 142(4) --> GRY 145(3)

We are not requiring that students take the associated laboratories that are offered in conjunction with these lectures, since we already allow other non-laboratory course options within the list of allowed courses in requirement #1.

Reason for Proposed Change:

As described above we are changing four courses in the requirement #1 list to reflect changes being made by the geology and geography programs. This results in no change to the number of credits or courses required for the major.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Geospatial Sciences Minor - Change Program Proposal

Current Program Requirements:

Minor(s)

Geospatial Sciences

Bachelor of Science

1. One course from: GEO 200(3), GLG 110(4), GLG 171(3), GRY 1003), GRY 108(3), GRY 135(3), GRY 142(3), PLN 100(3).
2. GEO 360(3), 363(4), 551(3).
3. Three additional hours from GEO courses numbered 300 or higher. Note: Students majoring in geography must complete six hours of GEO courses numbered 300 or higher to avoid overlap with the major degree requirements.

Geospatial Sciences Minor - Change Program Proposal

Revised Program Requirements:

Minor(s)

Geospatial Sciences

Bachelor of Science

1. One course from: GEO 200(3), **GLG 113(3)**, **GLG 114(3)** ~~GLG 110(4)~~, ~~GLG 171(3)~~, GRY 100(3), GRY 108(3), **GRY 137(3)** ~~GRY 135(4)~~, **GRY 145(3)** ~~GRY 142(4)~~, PLN 100(3).
2. GEO 360(3), 363(4), 551(3).
3. Three additional hours from GEO courses numbered 300 or higher. Note: Students majoring in geography must complete six hours of GEO courses numbered 300 or higher to avoid overlap with the major degree requirements.

Change Program Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Geospatial Sciences-BS

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* ~~S~~

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geology and geography programs are changing the names of their introductory courses (including splitting 4 credit courses into separate 3 credit lectures and 1 credit standalone labs).

We are reflecting these changes by updating the affected courses in our major requirement (specifically requirement #1) as follows:

Old Course --> New Course

GLG 110(4) --> GLG 113(3)

GLG 171(3) --> GLG 114(3)

GRY 135(4) --> GRY 137(3)

GRY 142(4) --> GRY 145(3)

We are not requiring that students take the associated laboratories that are offered in conjunction with these lectures, since we already allow other non-laboratory course options within the list of allowed courses in requirement #1.

Reason for Proposed Change:

As described above we are changing four courses in the requirement #1 list to reflect changes being made by the geology and geography programs. This results in no change to the number of credits or courses required for the major.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Geospatial Science Major (Comprehensive)- Change Program Proposal

Current Program Requirements:

Geospatial Sciences (Comprehensive)

Bachelor of Science

Major requirements (52-53 hours):

1. One course from: GEO 200(3), GLG 110(4), GLG 171(3), GRY 100(3), GRY 108(3), GRY 135(3), GRY 142(3), PLN 100(3).
2. Field Experience from: GRY 301(3) or 353(3) or 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience.
3. GEO 360(3), GEO 363(4), PLN 367(3).
4. GEO 551(3), 561(3), 562(3), 566(3), 568(3), 572(3).
5. CSC 130(3).
6. One statistics course from: AGR 330(3), MTH 340(3), PSY 200(3), QBA 237(3), REC 328(3), SOC 220(3).
7. Three additional hours with GEO course code.
8. Nine additional hours from: GEO or GRY courses numbered 275 or higher; TCM 110(3); MTH 136(3) or higher; CSC 131(4), CSC 335(3).
9. Public Affairs Capstone Experience will be fulfilled by completion of the field experience requirement.

Geospatial Science Major (Comprehensive)- Change Program Proposal

Revised Program Requirements:

Geospatial Sciences (Comprehensive)

Bachelor of Science

Major requirements (52-53 hours):

1. One course from: GEO 200(3), **GLG 113(3), GLG 114(3)** ~~GLG 110(4), GLG 171(3)~~, GRY 100(3), GRY 108(3), **GRY 137(3)** ~~GRY 135(3)~~, **GRY 145(3)** ~~GRY 142(3)~~, PLN 100(3).
2. Field Experience from: GRY 301(3) or 353(3) or 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience.
3. GEO 360(3), GEO 363(4), PLN 367(3).
4. GEO 551(3), 561(3), 562(3), 566(3), 568(3), 572(3).
5. CSC 130(3).
6. One statistics course from: AGR 330(3), MTH 340(3), PSY 200(3), QBA 237(3), REC 328(3), SOC 220(3).
7. Three additional hours with GEO course code.
8. Nine additional hours from: GEO or GRY courses numbered 275 or higher; TCM 110(3); MTH 136(3) or higher; CSC 131(4), CSC 335(3).
9. Public Affairs Capstone Experience will be fulfilled by completion of the field experience requirement.

Change Program Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Community and Regional Planning-BS

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* ~~S~~

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geology and geography programs are changing the names of their introductory courses (including splitting 4 credit courses into separate 3 credit lectures and 1 credit standalone labs).

We are reflecting these changes by updating the affected courses in our major requirement (specifically requirement #1) as follows:

Old Course --> New Course

GLG 110(4) --> GLG 113(3)

GLG 171(3) --> GLG 114(3)

GRY 142(4) --> GRY 145(3)

We are not requiring that students take the associated laboratories that are offered in conjunction with these lectures, since we already allow other non-laboratory course options within the list of allowed courses in requirement #1.

Reason for Proposed Change:

As described above we are changing three courses in the requirement #1 list to reflect changes being made by the geology and geography programs. This results in no change to the number of credits or courses required for the major.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Geology Minor - Change Program Proposal

Current Program Requirements:

Minor(s)

Geology

Bachelor of Arts

1. GLG 110(4) or both GLG 171(3) and 172(1); GLG 314(4).
2. Four hours of GLG 360(1-3) or 412(4).
3. Three additional hours of GLG courses numbered 318 or higher.

Geology

Bachelor of Science

1. GLG 110(4) or both GLG 171(3) and 172(1); GLG 314(4).
2. Four hours of GLG 360(1-3) or 412(4).
3. Six additional hours of GLG courses numbered 318 or higher.

Community and Regional Planning Major (Comprehensive)- Change Program Proposal

Revised Program Requirements:

Community and Regional Planning (Comprehensive)

Bachelor of Science

Major requirements (38-39 hours)

1. One course from: PLN 100(3), GRY 100(3), GRY 108(3), **GRY 145(3)** ~~GRY 142(4)~~, **GLG 113(3)**, **GLG 114(3)** ~~GLG 110(4)~~, ~~GLG 171(3)~~.
2. PLN 300(3), 367(3), 370(3); PLN 570(3) or LAW 537(3); PLN 571(3), 572(4), 599(3); PLS 351(3); GEO 363(4); SOC 220(3).
3. Three additional hours from GRY 322(3) or 325(3) or PLN courses numbered above 300.
4. Cannot count both GRY 322(3) and PLN 100(3) toward the major requirements.
5. Public Affairs Capstone Experience will be fulfilled by completion of PLN 572(4).

Change Program Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Engineering Geology-Undergraduate Certificate

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* ~~S~~

Empty text area for content.

POWERED BY TINYMCE

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geology program is changing the names of our introductory courses. We are updating GLG 110(4) to allow either GLG 113+116 or GLG 114+116 in certificate requirement #1 to reflect the equivalent new/changed courses. GLG 110(4) is being changed to GLG 113(3) and GLG 171(3) is being changed to GLG 114(3). GLG 116 is the standalone laboratory course that goes with GLG 113 or 114.

We have also made some textual clarifications to the notes included with the program requirements.

Lastly, since students in the Cooperative Engineering program no longer take GRY 245 Plane Surveying, we are offering to substitute the surveying course they take for their major, similar to how we already substituted for GLG 572.

Reason for Proposed Change:

As described above we are changing the names of two courses in the list from requirement #1 to reflect changes being made to the names and numbers of introductory geology courses. This results in no change to the number of credits or courses required for the program.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Engineering Geology - Certificate - Change Program Proposal

Current Program Requirements:

Program requirements (13 hours)

1. GRY 275(3), GLG 110(4), GLG 573(3).
2. One course from: GLG 572(3), 580(3), 590(3).
3. All candidates must satisfy the General University Certificate Requirements.

Note: The GLG prerequisites for GLG 573, 572, 580 and 590 may be waived for non-geology majors at the discretion of the department head, assuming that student has already completed GLG 110 and any MTH prerequisites for the course.

Note: Students in the cooperative engineering program may contact the School of Earth, Environment and Sustainability director to request a substitution for GLG 572.

Completion requirement

Attain a grade of C or better in all courses used to fulfill the certificate requirements.

Engineering Geology - Certificate - Change Program Proposal

Revised Program Requirements:

Program requirements (13 hours)

1. GRY 275(3), **GLG 113(3) and GLG 116 or 114(3) and GLG 116(1)** ~~GLG 110(4)~~, GLG 573(3).
2. One course from: GLG 572(3), 580(3), 590(3).
3. All candidates must satisfy the General University Certificate Requirements.

Note: The GLG prerequisites for GLG 573, 572, 580 and 590 may be waived for non-geology majors at the discretion of the department head, assuming that **the** student has already completed GLG 110 and any MTH prerequisites for the course.

Note: Students in the cooperative engineering program may contact the School of Earth, Environment and Sustainability director to request substitutions **from their major program requirements** for **GRY 275 and GLG 572**.

Completion requirement

Attain a grade of C or better in all courses used to fulfill the certificate requirements.

Change Program Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Environmental Geoscience-Undergraduate Certificate

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* ~~S~~

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geology and geography programs are changing the names of their introductory courses (including splitting 4 credit lecture / laboratory courses into separate 3 credit lectures and 1 credit standalone labs).

We are reflecting these changes by updating the affected courses in our certificate requirement (specifically requirement #1) as follows:

Old Course --> New Course

GLG 171(3) --> GLG 114(3)

GLG 172(1) --> GLG 116(1)

GRY 135(4) --> GRY 137(3) and GRY 138(1)

Reason for Proposed Change:

As described above we are changing listed courses in the requirements #1 and #2 to reflect changes being made by the geology and geography programs. This results in no change to the number of credits or courses required for the certificate.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Environmental Geoscience Certificate - - Change Program Proposal

Current Program Requirements:

Program requirements (13-14 hours)

1. GRY 135(4) or GRY 351(3).
2. GLG 171(3) and GLG 172(1).
3. GLG 580(3) or CHM 460(3).
4. GRY 108(3) or GLG 547(3).
5. All candidates must satisfy the General University Certificate Requirements.

Note: The GLG 172 requirement will be waived for students who have a grade of C or better in GLG 110.

Note: Students enrolled in sections of BIO 547 cross-listed with GLG 547 may count that course in place of GLG 547.

Completion requirement

Attain a grade of C or better in all courses used to fulfill the certificate requirements.

Environmental Geoscience Certificate - Change Program Proposal

Revised Program Requirements:

Program requirements (13-14 hours)

1. **GRY 137(3) and GRY 138(1)** ~~GRY 135(4)~~ or GRY 351(3).
2. **GLG 114(3)** ~~GLG 171(3)~~ and **GLG 116(1)** ~~GLG 172(1)~~.
3. GLG 580(3) or CHM 460(3).
4. GRY 108(3) or GLG 547(3).
5. All candidates must satisfy the General University Certificate Requirements.

~~Note: The GLG 172 requirement will be waived for students who have a grade of C or better in GLG 110.~~

Note: Students enrolled in sections of BIO 547 cross-listed with GLG 547 may count that course in place of GLG 547.

Completion requirement

Attain a grade of C or better in all courses used to fulfill the certificate requirements.

Change Program Proposal Form

Submitted on 01/05/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Geologic Foundations-Undergraduate Certificate

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* S

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geology program is changing the names of their introductory courses. courses (including splitting 4 credit courses into separate 3 credit lectures and 1 credit standalone labs).

Old Course --> New Course

GLG 110(4) --> GLG 113(3)

GLG 171(3) --> GLG 114(3)

GLG 115(3) --> No change

GRY 172(1) --> GLG 116(1)

In the current requirements GLG 110 is specified. Here we are changing the requirements to allow students to take the GLG 116 lab plus either GLG 113, 114, or 115.

Reason for Proposed Change:

As described above we are updating the program requirements to align with the new names and numbers of the introductory geology courses. This results in no change to the number of credits or courses required for the major.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/05/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR MENT

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Geologic Foundations Certificate - - Change Program Proposal

Current Program Requirements:

Program requirements (13-14 hours)

1. GLG 110(4), 314(3), 332(3).
2. One course from: GLG 333(3), 334(3), 340(3).
3. All candidates must satisfy the General University Certificate Requirements.

Completion requirement

Attain a grade of C or better in all courses used to fulfill the certificate requirements.

Geologic Foundations Certificate - Change Program Proposal

Revised Program Requirements:

Program requirements (13-14 hours)

1. **GLG 113(3) or GLG 114(3) or GLG 115(3), GLG 116(1) ~~GLG 110(4)~~, 314(3), 332(3).**
2. One course from: GLG 333(3), 334(3), 340(3).
3. All candidates must satisfy the General University Certificate Requirements.

Completion requirement

Attain a grade of C or better in all courses used to fulfill the certificate requirements.

Change Program Proposal Form

Submitted on 01/07/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Geography and Sustainability-BS

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* ~~S~~

Empty rectangular box for content.

POWERED BY TINYMCE

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geography program is changing the names and numbers of our introductory courses. GRY 142 Introductory Physical Geography (4 cr. lecture and lab) is being deleted and replaced with separate standalone lecture (GRY 145 Earth's Natural Environment) and standalone lab (GRY 146 Earth's Natural Environment Laboratory) courses.

Old Course --> New Course

GRY 142(4) --> GRY 145(3) (lecture+lab to lecture only)
GRY 143(1) --> GRY 146(1)

Reason for Proposed Change:

We are updating this major program to reflect the course changes described above. Specifically, GRY 142 is being removed and replaced with GRY 145(3) lecture and GRY 146(1) lab.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/07/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Geography BS Non-Comprehensive Major - - Change Program Proposal

Current Program Requirements:

Geography and Sustainability

Major(s)

Geography and Sustainability (Non-Comprehensive) (BS)

Bachelor of Science

Major requirements (38 hours):

1. GRY 100(3), GRY 108(3), GRY 142(4), GEO 363(4), PLN 367(3).
2. One course from: GRY 300(3), 305(3), 316(3), 318(3), 320(3), 321(3), 322(3), 323(3), 325(3).
3. Related requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 220(3).
4. Public Affairs Capstone Experience. Three hours of Experience in Geosustainability course from: GRY 301(3) or 353(3) or 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience. The process for pre-approval by the program coordinator is described on the program website and must be completed in advance of the experience.
5. 12 additional hours with GRY, GEO, or PLN course code.
6. Minor required (or second major).

University level requirements:

1. General Education Program and Requirements
2. General Baccalaureate Degree Requirements

Geography BS Non-Comprehensive Major - Change Program Proposal

Revised Program Requirements:

Geography and Sustainability

Major(s)

Geography and Sustainability (Non-Comprehensive) (BS)

Bachelor of Science

Major requirements (38 hours):

1. GRY 100(3), GRY 108(3), **GRY 145(3), GRY 146(1)** ~~GRY 142(4)~~, GEO 363(4), PLN 367(3).
2. One course from: GRY 300(3), 305(3), 316(3), 318(3), 320(3), 321(3), 322(3), 323(3), 325(3).
3. Related requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 220(3).
4. Public Affairs Capstone Experience. Three hours of Experience in Geosustainability course from: GRY 301(3) or 353(3) or 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience. The process for pre-approval by the program coordinator is described on the program website and must be completed in advance of the experience.
5. 12 additional hours with GRY, GEO, or PLN course code.
6. Minor required (or second major).

University level requirements:

1. General Education Program and Requirements
2. General Baccalaureate Degree Requirements

Change Program Proposal Form

Submitted on 01/07/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Geography and Sustainability/Sustainable Watershed Mgt-BS

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* S

Attached [View Attachment](#)**What is changing? Check all boxes that apply:**

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geography program is changing the names and numbers of our introductory courses. GRY 142 Introductory Physical Geography (4 cr. lecture and lab) is being deleted from the major core and replaced with separate standalone lecture (GRY 145 Earth's Natural Environment) and standalone lab (GRY 146 Earth's Natural Environment Laboratory) courses.

GRY 135 Principles of Weather and Climate is being deleted from requirement #2 in the option requirements and replaced with GRY 137 Meteorology: Understanding Weather and Climate. This replaces the lecture+lab course with the equivalent lecture-only course. We are not specifying that students have to take the GRY 138 Meteorology: Weather and Climate Laboratory because there are other electives in that requirement that do not include laboratories.

Old Course --> New Course

GRY 142(4) --> GRY 145(3) (lecture+lab to lecture only)

GRY 143(1) --> GRY 146(1)

GRY 135(4) --> GRY 137(3) (lecture+lab to lecture only)

Reason for Proposed Change:

We are updating this major program to reflect the course changes described above. Specifically, GRY 142 is being removed from the major core and replaced with GRY 145(3) lecture and GRY 146(1) lab. GRY 135 is being removed from the #2 requirement in the option requirements and replaced with GRY 137.

This change does NOT affect the total number of credits required for the major.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/07/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Geography Comprehensive Major – Sustainable Watershed Management Option - Change Program Proposal

Current Program Requirements:

Geography and Sustainability

Major(s)

Geography and Sustainability (Comprehensive)

Bachelor of Science

Major requirements (57-61 hours):

Major core (33-34 hours):

Note: 13-14 hours may double count toward General Education requirements.

1. BIO 101(3) or BIO 122(4); GEO 363(4); GRY 100(3), GRY 108(3), GRY 109(1), GRY 142(4), GRY 351(3), GRY 508(3), PLN 367(3).
2. No more than seven hours of option requirements may be taken prior to GRY 108(3) and counted toward the major.
3. GRY 508(3) must be taken in the last two semesters prior to completion of the degree program.
4. Related statistics requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 220(3).
5. Experience in Geosustainability from: GRY 301(3), GRY 353(3), GRY 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience. The process for pre-approval by the program coordinator is described on the program website and must be completed in advance of the experience.
6. Public Affairs Capstone Experience will be fulfilled by completion of GRY 508(3).

Sustainable Watershed Management option (24-26 hours):

1. GRY 545(3), GRY 549(3), GRY 550(3); GLG 547(3) or BIO 547(3).
2. Two Water Systems courses from: BIO 485(3), BIO 509(4), BIO 532(3), BIO 533(4), BIO 562(4), GEO 569(3), GLG 350(3), GLG 580(3), GRY 135(4).
3. One Planning Framework course from: ECO 540(3), LAW 537(3), PLN 571(3).
4. One Terrestrial Systems course from: AGN 215(3), AGN 335(3), ANT 355(3), AGP 333(3), GLG 573(3).

Geography Comprehensive Major – Sustainable Watershed Management Option - Change Program Proposal

Revised Program Requirements:

Geography and Sustainability

Major(s)

Geography and Sustainability (Comprehensive)

Bachelor of Science

Major requirements (57-61 hours):

Major core (33-34 hours):

Note: 13-14 hours may double count toward General Education requirements.

1. BIO 101(3) or BIO 122(4); GEO 363(4); GRY 100(3), GRY 108(3), GRY 109(1), **GRY 145(3), GRY 146(1)** ~~GRY 142(4)~~, GRY 351(3), GRY 508(3), PLN 367(3).
2. No more than seven hours of option requirements may be taken prior to GRY 108(3) and counted toward the major.
3. GRY 508(3) must be taken in the last two semesters prior to completion of the degree program.
4. Related statistics requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 220(3).
5. Experience in Geosustainability from: GRY 301(3), GRY 353(3), GRY 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience. The process for pre-approval by the program coordinator is described on the program website and must be completed in advance of the experience.
6. Public Affairs Capstone Experience will be fulfilled by completion of GRY 508(3).

Sustainable Watershed Management option (24-26 hours):

1. GRY 545(3), GRY 549(3), GRY 550(3); GLG 547(3) or BIO 547(3).
2. Two Water Systems courses from: BIO 485(3), BIO 509(4), BIO 532(3), BIO 533(4), BIO 562(4), GEO 569(3), GLG 350(3), GLG 580(3), **GRY 137(3)** ~~GRY 135(4)~~.
3. One Planning Framework course from: ECO 540(3), LAW 537(3), PLN 571(3).
4. One Terrestrial Systems course from: AGN 215(3), AGN 335(3), ANT 355(3), AGP 333(3), GLG 573(3).

Change Program Proposal Form

Submitted on 01/07/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Geography and Sustainability/Geography-BS

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* ~~S~~

Empty rectangular box for content.

POWERED BY TINYMCE

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geography program is changing the names and numbers of our introductory courses. GRY 142 Introductory Physical Geography (4 cr. lecture and lab) is being deleted and replaced with separate standalone lecture (GRY 145 Earth's Natural Environment) and standalone lab (GRY 146 Earth's Natural Environment Laboratory) courses.

Old Course --> New Course

GRY 142(4) --> GRY 145(3) (lecture+lab to lecture only)
 GRY 143(1) --> GRY 146(1)

Reason for Proposed Change:

We are updating this major program to reflect the course changes described above. Specifically, GRY 142 is being removed from the major core and replaced with GRY 145(3) lecture and GRY 146(1) lab.

This change does NOT affect the total number of credits required for the major.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/07/2024 - Submitted by Department Head (Toby Dogwiler)

Geography Comprehensive Major – Geography Option - Change Program Proposal

Current Program Requirements:

Geography and Sustainability

Major(s)

Geography and Sustainability (Comprehensive)

Bachelor of Science

Major requirements (57-61 hours):

Major core (33-34 hours):

Note: 13-14 hours may double count toward General Education requirements.

1. BIO 101(3) or BIO 122(4); GEO 363(4); GRY 100(3), GRY 108(3), GRY 109(1), GRY 142(4), GRY 351(3), GRY 508(3), PLN 367(3).
2. No more than seven hours of option requirements may be taken prior to GRY 108(3) and counted toward the major.
3. GRY 508(3) must be taken in the last two semesters prior to completion of the degree program.
4. Related statistics requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 220(3).
5. Experience in Geosustainability from: GRY 301(3), GRY 353(3), GRY 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience. The process for pre-approval by the program coordinator is described on the program website and must be completed in advance of the experience.
6. Public Affairs Capstone Experience will be fulfilled by completion of GRY 508(3).

Geography option (24 hours):

1. Six hours from: GRY 300(3), 305(3), 316(3), 318(3), 320(3), 321(3), 322(3), 323(3), 325(3).
2. 18 additional hours with any GRY, GEO, or PLN course numbered 300 or above.

Geography Comprehensive Major – Geography Option - Change Program Proposal

Revised Program Requirements:

Geography and Sustainability

Major(s)

Geography and Sustainability (Comprehensive)

Bachelor of Science

Major requirements (57-61 hours):

Major core (33-34 hours):

Note: 13-14 hours may double count toward General Education requirements.

1. BIO 101(3) or BIO 122(4); GEO 363(4); GRY 100(3), GRY 108(3), GRY 109(1), **GRY 145(3), GRY 146(1)** ~~GRY 142(4)~~, GRY 351(3), GRY 508(3), PLN 367(3).
2. No more than seven hours of option requirements may be taken prior to GRY 108(3) and counted toward the major.
3. GRY 508(3) must be taken in the last two semesters prior to completion of the degree program.
4. Related statistics requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 220(3).
5. Experience in Geosustainability from: GRY 301(3), GRY 353(3), GRY 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience. The process for pre-approval by the program coordinator is described on the program website and must be completed in advance of the experience.
6. Public Affairs Capstone Experience will be fulfilled by completion of GRY 508(3).

Geography option (24 hours):

1. Six hours from: GRY 300(3), 305(3), 316(3), 318(3), 320(3), 321(3), 322(3), 323(3), 325(3).
2. 18 additional hours with any GRY, GEO, or PLN course numbered 300 or above.

Change Program Proposal Form

Submitted on 01/07/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Envirn & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Choose All That Apply:

- Bachelor of Arts
- Bachelor of Applied Science
- Bachelor of Fine Arts
- Bachelor of Music Education
- Bachelor of Music
- Bachelor of Science
- Bach of Science in Education
- Bachelor of Science in Nursing
- Bachelor of Social Work

Does this program include any new courses?

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

Title of Program Affected:

Geography

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: (Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)

↶ ↷ **B** *I* ~~S~~

POWERED BY TINYMCE

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geography program is changing the names and numbers of our introductory courses. GRY 142 Introductory Physical Geography (4 cr. lecture and lab) is being deleted and replaced with separate standalone lecture (GRY 145 Earth's Natural Environment) and standalone lab (GRY 146 Earth's Natural Environment Laboratory) courses.

Old Course --> New Course

GRY 142(4) --> GRY 145(3) (lecture+lab to lecture only)

GRY 143(1) --> GRY 146(1)

Reason for Proposed Change:

We are updating this minor program to reflect the course changes described above. Specifically, GRY 142 is being removed and replaced with GRY 145(3) lecture and GRY 146(1) lab.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/07/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Geography Minor - - Change Program Proposal

Current Program Requirements:

Geography

Minor(s)

Geography

Bachelor of Arts

Bachelor of Science

Bachelor of Science in Education (Non-Certifiable)

1. GRY 100(3), GRY 142(4), GEO 363(4).
2. Additional GRY, GEO, or PLN courses numbered 300 or higher to total at least 17 hours.

Geography Minor - - Change Program Proposal

Revised Program Requirements:

Geography

Minor(s)

Geography

Bachelor of Arts

Bachelor of Science

Bachelor of Science in Education (Non-Certifiable)

1. GRY 100(3), **GRY 145(3), GRY 146(1)** ~~GRY 142(4)~~, GEO 363(4).
2. Additional GRY, GEO, or PLN courses numbered 300 or higher to total at least 17 hours.

Change Program Proposal Form

Submitted on 01/07/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Geography and Sustainability/Sustainable Development-BS

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* ~~S~~

Empty text area for content.

POWERED BY TINYMCE

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geography program is changing the names and numbers of our introductory courses. GRY 142 Introductory Physical Geography (4 cr. lecture and lab) is being deleted and replaced with separate standalone lecture (GRY 145 Earth's Natural Environment) and standalone lab (GRY 146 Earth's Natural Environment Laboratory) courses.

Old Course --> New Course

GRY 142(4) --> GRY 145(3) (lecture+lab to lecture only)

GRY 143(1) --> GRY 146(1)

Reason for Proposed Change:

We are updating this major program to reflect the course changes described above. Specifically, GRY 142 is being removed from the major core and replaced with GRY 145(3) lecture and GRY 146(1) lab.

This change does NOT affect the total number of credits required for the major.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/07/2024 - Submitted by Department Head (Toby Dogwiler)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

[Copy As New Proposal](#)

MAKE YOUR MENT.

[Accessibility](#) [Disclaimer](#) [Disclosures](#) [EO/AA/M/F/Veterans/Disability](#)

© 2024 [Board of Governors](#), Missouri State University Maintained by: [Computer Services - MIS](#)

Last Updated: 2023-12-11 16:29:51 [Contact Information](#)

Geography Comprehensive Major – Sustainable Development Option - Change Program Proposal

Current Program Requirements:

Geography and Sustainability

Major(s)

Geography and Sustainability (Comprehensive)

Bachelor of Science

Major requirements (57-61 hours):

Major core (33-34 hours):

Note: 13-14 hours may double count toward General Education requirements.

1. BIO 101(3) or BIO 122(4); GEO 363(4); GRY 100(3), GRY 108(3), GRY 109(1), GRY 142(4), GRY 351(3), GRY 508(3), PLN 367(3).
2. No more than seven hours of option requirements may be taken prior to GRY 108(3) and counted toward the major.
3. GRY 508(3) must be taken in the last two semesters prior to completion of the degree program.
4. Related statistics requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 220(3).
5. Experience in Geosustainability from: GRY 301(3), GRY 353(3), GRY 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience. The process for pre-approval by the program coordinator is described on the program website and must be completed in advance of the experience.
6. Public Affairs Capstone Experience will be fulfilled by completion of GRY 508(3).

Sustainable Development option (27 hours):

1. Applied Sustainability course: GRY 510(3) or REC 302(3).
2. Regional Perspectives:
 - a. One regional perspectives core course from: GRY 300(3), 305(3), 322(3), 325(3),
 - b. Two courses within one of the following regional options:
 - i. Asia: ANT 334(3), ECO 345(3), HST 381(3), HST 571(3), PLS 545(3).
 - ii. Middle East: HST 371(3), PLS 443(3), PLS 569(3).
 - iii. Africa: ANT 332(3), GRY 507(3), HST 323(3), HST 334(3), HST 339(3), PLS 550(3).
 - iv. Latin America: ANT 336(3), HST 362(3), HST 364(3), PLS 548(3).
 - v. Other region subject to advisor approval.
3. One Planning course: PLN 370(3) or PLN 571(3).

4. Two Economics Understanding courses from: ECO 155(3), 346(3), 450(3), 456(3), 565(3); GRY 321(3).
5. Two Policy related courses from: AGN 115(3), ANT 313(3), ANT 314(3), ANT 370(3), AGR 100(3), BIO 502(3), GRY 320(3), LAW 537(3), PLN 505(3), PLS 232(3), PLS 320(3), PLS 546(3), SOC 319(3), SOC 420(3), SOC 430(3), SOC 450(3), SOC 456(3).

Geography Comprehensive Major – Sustainable Development Option - Change Program Proposal

Revised Program Requirements:

Geography and Sustainability

Major(s)

Geography and Sustainability (Comprehensive)

Bachelor of Science

Major requirements (57-61 hours):

Major core (33-34 hours):

Note: 13-14 hours may double count toward General Education requirements.

1. BIO 101(3) or BIO 122(4); GEO 363(4); GRY 100(3), GRY 108(3), GRY 109(1), **GRY 145(3), GRY 146(1)** ~~GRY 142(4)~~, GRY 351(3), GRY 508(3), PLN 367(3).
2. No more than seven hours of option requirements may be taken prior to GRY 108(3) and counted toward the major.
3. GRY 508(3) must be taken in the last two semesters prior to completion of the degree program.
4. Related statistics requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 220(3).
5. Experience in Geosustainability from: GRY 301(3), GRY 353(3), GRY 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience. The process for pre-approval by the program coordinator is described on the program website and must be completed in advance of the experience.
6. Public Affairs Capstone Experience will be fulfilled by completion of GRY 508(3).

Sustainable Development option (27 hours):

1. Applied Sustainability course: GRY 510(3) or REC 302(3).
2. Regional Perspectives:
 - a. One regional perspectives core course from: GRY 300(3), 305(3), 322(3), 325(3),
 - b. Two courses within one of the following regional options:
 - i. Asia: ANT 334(3), ECO 345(3), HST 381(3), HST 571(3), PLS 545(3).
 - ii. Middle East: HST 371(3), PLS 443(3), PLS 569(3).
 - iii. Africa: ANT 332(3), GRY 507(3), HST 323(3), HST 334(3), HST 339(3), PLS 550(3).
 - iv. Latin America: ANT 336(3), HST 362(3), HST 364(3), PLS 548(3).
 - v. Other region subject to advisor approval.
3. One Planning course: PLN 370(3) or PLN 571(3).

4. Two Economics Understanding courses from: ECO 155(3), 346(3), 450(3), 456(3), 565(3); GRY 321(3).
5. Two Policy related courses from: AGN 115(3), ANT 313(3), ANT 314(3), ANT 370(3), AGR 100(3), BIO 502(3), GRY 320(3), LAW 537(3), PLN 505(3), PLS 232(3), PLS 320(3), PLS 546(3), SOC 319(3), SOC 420(3), SOC 430(3), SOC 450(3), SOC 456(3).

Change Program Proposal Form

Submitted on 01/07/2024 by Toby Dogwiler (TDogwiler@MissouriState.edu).

Department:

Earth, Environ & Sustainability

Type of Program

Choose One:

- Non-Comprehensive Undergraduate Major
- Comprehensive Undergraduate Major
- Graduate Program
- Option
- Minor
- Certificate

Does this program include any new courses?

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

Title of Program Affected:

Geography and Sustainability-BA

Current Catalog Description: *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

Attached [View Attachment](#)

Complete New Catalog Description: *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] **OR** provide as an attachment below)*

↶ ↷ **B** *I* ~~S~~

Empty text area for attachments or notes.

POWERED BY TINYMCE

Attached [View Attachment](#)

What is changing? Check all boxes that apply:

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling credits
- Adding newly created course(s) totaling credits

(Note: A new course proposal must be submitted for each new course)

- Deleting courses from the program (major)

(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)

- Changing admission requirements
- Other

The geography program is changing the names and numbers of our introductory courses. GRY 142 Introductory Physical Geography (4 cr. lecture and lab) is being deleted and replaced with separate standalone lecture (GRY 145 Earth's Natural Environment) and standalone lab (GRY 146 Earth's Natural Environment Laboratory) courses.

Old Course --> New Course

GRY 142(4) --> GRY 145(3) (lecture+lab to lecture only)

GRY 143(1) --> GRY 146(1)

Reason for Proposed Change:

We are updating this major program to reflect the course changes described above. Specifically, GRY 142 is being removed and replaced with GRY 145(3) lecture and GRY 146(1) lab.

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

08/18/2023

Current Status:

College Council Review

Proposal Progress:

01/07/2024 - Submitted by Department Head (Toby Dogwiler)

Geography BA Non-Comprehensive Major - - Change Program Proposal

Current Program Requirements:

Geography and Sustainability

Major(s)

Geography and Sustainability (Non-Comprehensive) (BA)

Bachelor of Arts

Major requirements (38 hours):

1. GRY 100(3), GRY 108(3), GRY 142(4), GEO 363(4), PLN 367(3).
2. One course from: GRY 300(3), 305(3).
3. Related requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 220(3).
4. Public Affairs Capstone Experience. Three hours of Experience in Geosustainability course from: GRY 301(3) or 353(3) or 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience. The process for pre-approval by the program coordinator is described on the program website and must be completed in advance of the experience.
5. 12 additional hours with GRY, GEO, or PLN course code.
6. Minor required (or second major).
7. Specific Bachelor of Arts Degree Requirements

University level requirements:

1. General Education Program and Requirements
2. General Baccalaureate Degree Requirements

Geography BA Non-Comprehensive Major - Change Program Proposal

Revised Program Requirements:

Geography and Sustainability

Major(s)

Geography and Sustainability (Non-Comprehensive) (BA)

Bachelor of Arts

Major requirements (38 hours):

1. GRY 100(3), GRY 108(3), **GRY 145(3), GRY 146(1)** ~~GRY 142(4)~~, GEO 363(4), PLN 367(3).
2. One course from: GRY 300(3), 305(3).
3. Related requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 220(3).
4. Public Affairs Capstone Experience. Three hours of Experience in Geosustainability course from: GRY 301(3) or 353(3) or 470(3) or another pre-approved course such as an internship, directed study, or similar field-based experience. The process for pre-approval by the program coordinator is described on the program website and must be completed in advance of the experience.
5. 12 additional hours with GRY, GEO, or PLN course code.
6. Minor required (or second major).
7. Specific Bachelor of Arts Degree Requirements

University level requirements:

1. General Education Program and Requirements
2. General Baccalaureate Degree Requirements