New Course Proposal Form

Submitted on 08/28/2023 by Tasnuba Jerin (TasnubaJerin@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) 145

Course Title: Earth's Natural Environment

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.)

GRY 145 Earth's Natural Environment
A study of the earth's natural systems including weather and climate, rocks and minerals, landforms and processes of landform development, biogeography, water resources and soils. Map fundamentals and the interrelationships of the geographic factors of the natural environment are emphasized. Students who take GRY 240 and GRY 145 may receive credit for only one of these courses. 3(3 -0) F, S

431/30000 character limit.

Credit Hours: 3 Lecture Contact Hours: 3 Lab Contact Hours: 0

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.

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

Complete Catalog Description:
GRY 145 Earth's Natural Environment
Prerequisite: None
GRY 145 Earth's Natural Environment
A study of the earth's natural systems including weather and climate, rocks and minerals, landforms and processes of landform development, biogeography, water resources and soils. Map fundamentals and the interrelationships of the geographic factors of the natural environment are emphasized. Students who take GRY 240 and GRY 145 may receive credit for only one of these courses. 3(3 -0) F, S
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

This course is designed to introduce students to the physical realms of the Earth: atmosphere, hydrosphere, lithosphere and biosphere. It increases the degree of awareness of students to Earth's physical environment, exposes the complex interconnectedness between each physical component governing planet Earth, and allows students to develop a well-informed, open-minded critical approach on matters relevant to physical geography. GRY 145 familiarizes students to the cyclical nature of geosystems and their interpretation. Past environmental changes are explored, and specific contemporary environmental problems are analyzed.

631/30000 character limit.

Relationship to Other Departments

GRY 142 Physical Geography is currently required or elective in a number of major, minor, and certificate programs. We have contacted the relevant departments and will work with them ahead of time so they can decide how to change their requirements accordingly when GRY 142 is deleted and GRY 145 and GRY 146 (the laboratory that complements this course) are implemented in the curriculum.

390/30000 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:	55	Maximum Enrollment Limit per section:	55
Anticipated Average Enrollment per semester:	55	Maximum Enrollment Limit per semester:	110
Anticipated Average Enrollment per year:	110	Maximum Enrollment Limit per year:	220
Faculty Load Assignment (equated hours):	3		

Is another course being deleted? ○ No ◉ Yes

Select course number and title being deleted.

GRY142 Introductory Physical Geography

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?

This course will replace GRY 142, which will be deleted once GRY 145 is implemented in the course catalog

105/30000 character limit.

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

Tasnuba Jerin, David Perkins, Robert Pavlowsky, Toby Dogwiler, Melanie Carden-Jessen

84/30000 character limit.

What is the anticipated source of students for this course?

General education students, geography & sustainability majors, and students from other MSU academic programs that require or allow the course as an elective.

157/30000 character limit.

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

In the Geography and Sustainability program this course, along with GRY 146, will replace the GRY 142 requirement.

116/30000 character limit.

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

None

4/30000 character limit.

Other comments:

Because of the lag time it will take to get the new courses (GRY 145 and GRY 146 lab) approved locally and for Core 42/MOTR we will delay the deletion of GRY 142. We anticipate that GRY will continue to be taught through at least Fall 2024. GRY 142 will be deleted once GRY 145 and 146 begin to be offered.

310/30000 character limit.

What is the date that this new course was approved by departmental or program faculty? (MM/DD/YYYY) 05/12/2023

Current Status:

Dean Review

Proposal Progress:

08/29/2023 - Submitted by Department Head (Toby Dogwiler)

09/05/2023 - Approved by College Council (G Schick)

Review Comments:

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

GRY 145: EARTH'S NATURAL ENVIRONMENT
CREDIT HOURS 3.0

Provisional: The syllabus is subject to change as necessary.

Class Time and Location:
Professor: Dr. Tasnuba Jerin
Office: Blunt Hall 321
Office hours:
Email: TasnubaJerin@missouristate.edu

Course Information

Catalog Description: **GRY 145—Earth's Natural Environment. 3(3-0) F, S.**

A study of the earth's natural systems including weather and climate, rocks and minerals, landforms and processes of landform development, biogeography, water resources and soils. Map fundamentals and the interrelationships of the geographic factors of the natural environment are emphasized. Students who take GRY 240 and GRY 145 may receive credit for only one of these courses.

General Education Learning Goals
GRY 145 is a General Education course sanctioned by the Council on General Education and Intercollegiate Programs (CGEIP). Within the MSU General Education structure, GRY 145 is a ***Breath of Knowledge - Natural World*** course with a focus on ***Physical Sciences***.

This course is designed to introduce students to the physical realms of the Earth: atmosphere, hydrosphere, lithosphere and biosphere. It increases the degree of awareness of students to Earth's physical environment, exposes the complex interconnectedness between each physical component governing planet Earth, and allows students to develop a well-informed, open-minded critical approach on matters relevant to physical geography. GRY 145 familiarizes students to the cyclical nature of geosystems and their interpretation. Past environmental changes are explored, and specific contemporary environmental problems are analyzed.

GRY145 Earth's Natural Environment course content, learning experiences and assessments contribute to CGEIP General Education goals and specific learning outcomes as follows:

Knowledge of the Natural World – Physical Sciences

General 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 145 examines each physical realm of the Earth: atmosphere, hydrosphere, lithosphere and biosphere. This includes: energy-atmosphere system, global temperatures, atmospheric moisture and cloud development, synoptic weather and global climate systems, water resources, fluvial systems, tectonics, earthquakes and volcanism, weathering and mass movement, soils, environmental systems and

biomes. Origin and physical transformations of the Earth through time is explored, and current global environmental changes are discussed.

SLO11.3: *Develop knowledge and principles of the physical world (in this case, Planet Earth) through hypothesis testing and gain the ability to draw defensible conclusions regarding the physical world.*
GRY 145 allows the general education student to learn relevant quantitative methods used by physical geographers to explore and model the phenomena they observe (e.g., climograph, soil water budget, etc…), and expose them to other useful tools used by physical geographers (air photo interpretation, topographic maps, GIS, etc…). To this end, lectures and assignments are aimed at increasing the degree of awareness of students to Earth's physical environment, and allow them to develop a well-informed, open-minded critical approach on matters relevant to physical geography. GRY 145 encourages students to develop their own opinions on global environmental issues based on current accepted theories and issues discussed in class.

SLO11.5: *Understand the ways the environment impacts humanity and how human actions affect the environment.*
GRY 145 explores the concept of global environmental change by looking at processes that shape the physical environment, both natural and human induced. Specific issues such as climate change, deforestation, and sea level rise are analyzed, and consequences on Earth's physical realms (including human communities) are discussed. In the context of natural disasters, GRY 145 explores several major topics (earthquake, volcanism, drought, tsunami, hurricane landfall, climatic anomalies, etc…), and their impacts on human communities and the environment are examined.

Textbook and Course Materials
Required: Access to Modified Mastering Geography with Pearson eText (Bundled Package) —for McKnight's Physical Geography: A Landscape Appreciation 13e textbook content. Below are the details:

- Modified Mastering Geography with Pearson eText -- Standalone Access Card -- for McKnight's Physical Geography: A Landscape Appreciation, 13/e; ISBN: 9780135800065

Technology Requirements and Assistance
This course requires use of Blackboard (you will need your MSU ID to login to the course from the Blackboard homepage) and *Pearson My Lab and Mastering*[i]. You can access Pearson My Lab and Mastering via blackboard (see the left menu on your Blackboard course shell). To be successful in this course, you MUST have reliable computer and Internet access. It is each student's responsibility to have access to a dependable computer and Internet connectivity.

For class attendance and participation, you will need to register to "**Learning Catalytics**" via your Pearson My Lab and Mastering. This will be used throughout the semester to conduct in-class activities and record your participation and attendance.

Technical Assistance
If you need assistance with Blackboard, you can contact the MSU Help Desk in the following ways:

•Phone: 417-836-5891
• Email: HelpDesk@MissouriState.edu
• Visit the Help Desk website for a live chat option

Registering to My Lab and Mastering via Blackboard

- For registration, use the handout uploaded on Blackboard: blackboard.missouristate.edu
- Registration must be completed by September 1, 2023.
- Make sure to use your Missouri state email address for registration.
- If you need any assistance with your registration, please consult this website: https://support.pearson.com/getsupport/s/

Accessing Learning Catalytics (LC) via My Lab and Mastering

Once you have registered to My Lab and Mastering with e-text, you can access Learning Catalytics right away. **Learning Catalytics** is available at the upper right corner of your MyLab and Mastering Course Home.

Strict deadline rule: All assignment, test, and exam deadlines will be strictly enforced. Students are encouraged to work ahead and turn in the assignments before the due date. All Late Work will earn a 0 in this class unless proof of medical or other approved excused absence is presented.

Course Requirements

1. Attendance and participation *(20% of total grade)*

- Regular and consistent attendance is necessary for you to earn a good grade in this course. Exams/tests and quizzes will be taken from both the lectures and the textbook. Reading the textbook is imperative for your success in this course, however, if you do not attend class and only read the textbook, it is likely that you will not pass the course.
- "Learning Catalytics" will be used throughout the semester to conduct in-class activities and record your participation and attendance. There will be pop quizzes and other participatory activities in-class (we will call them **LC Quizzes**) which will be graded to record your attendance and participation. All LC Quizzes will be weighted equally.
- To ensure your attendance and participation, you MUST have reliable computer and Internet access required to gain access to "Learning Catalytics". It is each student's responsibility to have access to a dependable computer and Internet connectivity. Faculty are required to report excessive absences to the university, so please attend the class.
- All LC Quizzes must be completed during class (i.e., in-class). Working on a LC Quiz while being absent in class will be considered as a violation of the academic integrity policy.

2. Reading Quizzes *(20% of total grade)*

- **Reading quizzes** will be available to take online through My Lab and Mastering while the material is being taught in the lecture. The reading quiz of a particular unit will be available throughout the days the unit is being taught. Upon completion of the lectures of a unit, the reading quiz for the corresponding unit will no longer be available. Please refer to the **Course Schedule** below to find the availability and due dates of the reading quizzes.
- All reading quizzes will be weighted equally.
- All reading quizzes are to be completed individually.

3. Tests *(40% of total grade)*

This course has two tests: **Test 1** accounts for 20% of the total grade. **Test 2** accounts for 20% of the total grade as well.

Tests will be given on the days listed in the **Course Schedule** without exception. If you miss a test, you cannot receive a make-up unless a proof of medical or other approved excused absence is presented. Both tests will be held in-class

4. Final Exam *(20% of total grade)*

- The final exam will be cumulative of all the materials learned throughout the course and accounts for 20% of the total grade.
- It will take place completely within the class.
- The final exam will take place on **May 16, from 11:00 am to 1:00 pm** according to the Final Exam Schedule assigned by the Office of Registrar. While this is a 2-hour exam, you MUST begin the final exam no later than 11:15 am (i.e., you are not allowed to sit for the final exam after 11:15 am).
- Regardless of your reason, if you miss the final exam, you cannot receive a make-up. However, if a proof of medical or other approved excused absence is presented, I will allow you to replace your Final Exam score with the average of your two test scores (i.e., the average of Test1 and Test2). Please note that in this case, NO extra credit points will be added to your final exam score (if there is any opportunity for extra credits)

5. Extra Credit

Extra credit opportunities will be announced via blackboard and/or in class whenever relevant. It is each student's responsibility to remain updated on in-class and/or blackboard announcements.

Course Schedule

Please refer to the **Course Schedule** below for the details of activities, reading quizzes and exams. Any and all updates and/or changes will be announced during class and/or via Blackboard.

Grading Policy

Your final grade will be a result of the followings:

Assignment	**Weight**
Reading quizzes	20%
Attendance and Participation: LC Quizzes (via Learning Catalytics)	20%
Test 1	20%
Test 2	20%
Final Exam	20%

Viewing Grades

We will be using both the 'Blackboard Gradebook' and the 'My Lab and Mastering Gradebook' for this course. Your RAW scores for Reading quizzes and LC Quizzes will be available on My Lab and Mastering Gradebook. All other scores will be posted on Blackboard Gradebook in a timely manner.

Grading Scale

The table below describes the relationships between letter grades, percent, and performance. The first column describes the letter grade. The second column describes the percentage associated with that letter grade. The third column describes the performance represented by that letter grade and percentage. Final grade will be rounded such as 89.50% ≥ 90% or 89.49% ≤ 89%.

Grading scale

Letter Grade	***Percentages***	***Performance***
A	93 to 100%	Excellent Work
A-	90 to 92%	Nearly Excellent Work
B+	87 to 89%	Very Good Work
B	83 to 86%	Good Work
B-	80 to 82%	Mostly Good Work
C+	77 to 79%	Above Average Work
C	73 to 76%	Average Work
C-	70 to 72%	Mostly Average Work
D+	67 to 69%	Below Average Work
D	60 to 66%	Poor Work
F	0 to 59%	Failing Work

Course Policies

As a student at Missouri State University, it is important to familiarize yourself with the syllabus policy statements that apply to all courses. Please refer to the link below for a comprehensive list of up-to-date university policies https://www.missouristate.edu/provost/bbsyllabus.htm.

The course specific policies are outlined below:

Classroom arrivals and departures

If you anticipate a need to leave the classroom early, please inform me (preferably in person) prior to class. I also ask that you sit on the end of a row so as not to disrupt other students. I will do my best to end all lectures promptly at the end of class; because of this, I ask that you do not pack your belongings and cause a disturbance in the last minutes of class. If you are in a hurry due to your scheduling, make it a habit to sit on the outside seats of the rows so you can depart quickly without disturbing normal class time. If you arrive late, sit on the most convenient seat available (on the ends of the rows) and do not disrupt other students (this includes test days as well).

Laptop use

Laptops and tablets are a significant tool to take notes and connect with course materials. They are not to be used for personal communications or to work on other classes during our class time.

Testing protocol

During tests and exams all hats must be removed or worn backwards, and all headphones must be removed. Additionally, materials (such as study guides notes, etc.) must be put away and completely out of sight. Keep all answers covered at all times during the tests and exams; instances of exposed answers are tempting to other students and may give the appearance that you are allowing someone to copy your answers. Allowing others to copy answers (in addition to copying answers) constitutes cheating and will result in a zero on the test and an immediate referral to the academic integrity office.

Emails

Communication over email is an important skill to develop for both your professional and personal lives. In this case, we will be communicating over email in a professional manner. In doing so, I ask that you adhere to the following guidelines when corresponding (even if sending from your phone):

- Always send complete emails that include salutation and signature, and contain a completely explained subject or question

- Send emails only after consulting the syllabus
- Proofread your emails before sending
- Check your emails regularly
- Announcements and communication will be sent over email, and you are expected to read these
- Use ONLY your Missouri State email when corresponding. I am not able to correspond with you through any outside email addresses

Commercialized Lecture Notes
Commercialization of lecture notes and university-provided course materials is not permitted in this course. Lecture materials are the intellectual property of the Faculty, the Publisher, and the University.

Code of Behavior
Faculty at MSU are committed to developing and actively protecting a class environment in which respect must be shown to everyone in order to facilitate and encourage the expression, testing, understanding, and creation of a variety of ideas and opinions. During class time, all headphones, EarPods must be removed. Rude, sarcastic, obscene, or disrespectful comments have a negative impact on everyone's learning and will not be tolerated. Any person engaging in disrespectful or disruptive behavior will be subject to the university's misconduct policy outlined in the Code of Student Rights and Responsibilities.

Emergency Storm Shelter and Evacuation Information
In the event of an emergency or incident in the classroom, the faculty member is often the first university representative or authority figure recognized to be in charge until emergency first responders arrive. At the first-class meeting, students should become familiar with a basic emergency response plan through a dialogue with the instructor that includes a review and awareness of exits specific to the classroom and the emergency relocation areas for the building. For your convenience, this information has been provided below by the Office of the Provost and the Office of University Safety. Students with disabilities impacting mobility should discuss with their instructor the approved accommodations for emergency situations and additional options. Faculty must include information related to emergency response in their syllabi (see https://www.missouristate.edu/provost/bbsyllabus.htm). For more information contact University Safety (417-836-5509) or consult the Emergency Quick Reference Guide and Campus Emergency Response Plan.

Tornado Shelter Area Information (in case of severe weather).

Building	Tornado Shelter Area
Cheek Hall	Evacuate floors 1, 2, and 3 using Center, North and West stairs Shelter in basement interior hallway.

Emergency Assembly Point Instructions (in case the building needs to be evacuated for events such as fire, gas leak, etc.)

Building	Emergency Assembly Point
Cheek Hall	West to Siceluff Hall 1st Floor South to Ellis Hall 1st Floor Southwest to Hill Hall 1st Floor

Areas of Rescue (in case you are unable to evacuate to the ground floor, these are areas of temporary safety until rescuers arrive)

Building	Area of Rescue

Cheek Hall	None in this facility

Course Schedule

Unit #	Chapter/s	Date	Due Assignment	Due time
	Course Introduction	08/22	Complete Pre-test	
1	Chapters 1 & 2	08/24	Reading Quiz 1	
		08/29		
		08/31		9: 00 PM
2	Chapter 3	09/05	Reading Quiz 2 (On Chapter 3 only)	
2 & 3	Chapter 3 & 4	09/07		9: 00 PM
3	Chapter 4	09/12	Reading Quiz 3	
		09/14		9:00 PM
		09/19	**Test 1**: Chapters 1, 2, 3, 4	
4	Chapter 5	09/21		
		09/26	Reading Quiz 4	
		09/28		
		10/03		9:00 PM
5	Chapters 6 & 7	10/05	Reading Quiz 5	
		10/10		9:00 PM
		10/12	Fall Break	
6	Chapter 8 (Guided Chapter, Self-study required)	10/17	Reading Quiz 6	
		10/19		9: 00 PM
		10/24	**Test 2: Chapters 6, 7 & 8**	
7	Chapters 13 & 14	10/26	Reading Quiz 7 (Includes Units 7 & 8)	
		10/31		
8	Chapters 12, 15 &17	11/02		
		11/07		
		11/09		9:00 PM
9	Chapters 9 &16	11/14	Reading Quiz 8	
		11/16		9: 00 PM
		11/21	No classes Thanksgiving Holiday	
		11/23		
10	Chapter 19	11/28	Reading Quiz 9	
		11/30		9: 00 PM
		12/05	*Review class & Complete Post-test*	

		12/12	**Final Exam** Comprehensive: Includes everything taught throughout the semester **Time: 11:00 am to 1:00 pm**

[i] ***Pearson My Lab and Mastering*** is an online platform provided by the publishers that will be used to supplement materials in this lecture course.

Change Course Proposal Form

Submitted on 09/05/2023 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:

GRY143 Physical Geography 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:

GRY 143 Physical Geography Laboratory

Laboratory instruction in the earth's natural systems including weather and climate, rocks and minerals, landforms and processes of landform development, biogeography, water resources and soils. Map fundamentals and the interrelationships of the geographic factors of the natural environment are emphasized. This course is open only to transfer students who have already completed a 3-credit course equivalent to the lecture portion of GRY 142. 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.)

~~GRY 143 Physical Geography Laboratory~~ **GRY 146 Earth's Natural Environment Laboratory**

Laboratory instruction in the earth's natural systems including weather and climate, rocks and minerals, landforms and processes of landform development, biogeography, water resources and soils. Map fundamentals and the interrelationships of the geographic factors of the natural environment are emphasized. ~~This course is open only to transfer students who have already completed a 3-credit course equivalent to the lecture portion of GRY 142.~~ 1(0-2) F,S

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What is changing? Check all boxes that apply.

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

Reason for proposed change

Through a series of parallel proposals we are proposing to split the existing GRY 142 Physical Geography course into separate lecture and laboratory sections. Students will be able to take one or both of the courses depending on if they need a Physical Science general education lab and/or lecture. This change is similar to the way other science general education courses, such as CHM 160 and CHM 161, are currently structured.
This course (GRY 143) already existed as a mechanism to allow geography majors transferring a lecture equivalent to GRY 142 but without an accompanying lab section to take the lab necessary for the major. This proposal will change the name of the existing GRY 143 to match the new name for the lecture portion of the course (Earth's Natural Environment). We are also changing the number to GRY 146 to make it one digit greater than the new GRY 145 Earth's Natural Environment lecture course that is being proposed in parallel.
Because of the lag time it will take to get the new courses (GRY 145 and GRY 146) approved locally and for Core 42/MOTR we are also changing the name of the current GRY 142 to take advantage of the perceived benefits of the new name while we await implementation of the new courses. Once the new courses are fully approved in the MSU curriculum, general education program, and Core 42/MOTR, GRY 142 will be deleted and GRY 145 and 146 will begin being offered.

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

Explain.

It does not change the established student learning outcomes for GRY 142, which are being rolled over as is into the GRY 145 and 146. However, in the future we anticipate that GRY 145 and 146 will be assessed separately since they will now be separate courses.

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

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

Input

- [ ] Accreditation/certification compliance
- [ ] Review of catalog information
- [x] Other (be specific):

Among other strategic decisions, such as changing the name to something we perceive to be more relevant to students, the separation of the lecture and lab into separate courses better mirrors how many Core 42 MOTR courses are offered at other institutions in Missouri, especially community colleges. This will streamline the transfer of coursework to MSU. MSU students will also have the option to take GRY 145 (without) GRY 146 if they only need a physical science non-laboratory course.

- [x] 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:
09/05/2023 - Submitted by Department Head (Toby Dogwiler)

Review Comments:
09/05/2023 - Department Head Review - Toby Dogwiler - This proposal was originally submitted by faculty member Dr. Tasnuba Jerin. Department Head Toby Dogwiler is resubmitting with minor non-substantive corrections of errors and typos after initial CNAS College Council review on 9/5/23.

No review notes have been added.

Copy As New Proposal

Change Course Proposal Form

Submitted on 09/13/2023 by Gary Michelfelder (GaryMichelfelder@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:

GLG581 Geochemical Techniques

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

GLG681 Geochemical Techniques

How do these classes differ?

Graduate level course requires a research project collecting independent data using one of the instruments covered in the course.

Current online catalog description:

GLG 581 Geochemical Techniques

Prerequisite: GLG 332. Geochemical techniques and procedures used in ore exploration, point and nonpoint contamination and other environmental studies. Analyses of trace elements in rocks, soils, plants and waters using inductively coupled plasma methods. Also use of GPS to locate sample sites and ArcView to prepare maps. Field trips required. May be taught concurrently with GLG 681. Cannot receive credit for both GLG 681 and GLG 581. 4(2-4) 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.)

Prerequisite: ~~GLG 332. Geochemical techniques and procedures used in ore exploration, point and nonpoint contamination and other environmental studies. Analyses of trace elements in rocks, soils, plants and waters using inductively coupled plasma methods. Also use of GPS to locate sample sites and ArcView to prepare maps.~~
GLG 333. A theoretical and practical overview of a range of geochemical tools used on geologic materials and practical hands-on experience of the procedures required to produce geochemical data. Students will use computer programming and its application to data analysis using geochemical examples. Field trips required. May be taught concurrently with GLG 681. Cannot receive credit for both GLG 681 and GLG 581. ~~4(2-4)~~ **3(2-2)** S

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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

This course is being redesigned as an update to assist with proper user training and operation of the recently acquired Induced Coupled Plasma-Mass Spectrometer and Single Crystal X-Ray Diffractometer that will be used by undergraduate and graduate students for research. Additional instruction on other specialized analytical instruments will be provided along with field trips to gain first-hand experience operating these instruments. The proposed update of this course will be better train geology and physical geography students to enter the workforce in analytically intensive technical positions such as laboratory technicians or laboratory managers.

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.

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

09/08/2023

Current Status:

College Council Review

Proposal Progress:

09/25/2023 - 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