Missouri State

# Curricular Action Workflow



# Change Program Proposal Form

**Submitted on 10/13/2021 by Brian Greene (Briangreene@missouristate.edu).**

**Department:**

Biology

**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:**

Wildlife Conservation and Management-Biology Department-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)*

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*Attached* View Attachment

**What is changing? Check all boxes that apply:**

- [ ] Title change
- [x] Adding option to an existing program (major)
- [x] Deleting option from an existing program (major)
- [ ] Adding existing course(s) totaling 0 credits
- [ ] Adding newly created course(s) totaling 0 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

**Reason for Proposed Change:**

We recently noticed that the agriculture requirements in the Wildlife Conservation and Management degree mandated that biology transfer students take AGR 301 (Agriculture Transfer Student Orientation). We would like t add BIO 302 as a biology alternative. The Biology Department has also deleted senior seminar (BIO 494) from its degree programs and have replaced it with BIO 302. The Wildlife Conservation and Management degree is jointl offered by Agriculture and Biology. Agriculture has been consulted about these changes and will be submitting a parallel change through their College Council.

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

09/24/2021

**Current Status:**

Department Head Review

**Proposal Progress:**

This proposal is waiting for its first review.

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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**Major requirements (65-68):**

1. Specific General Education Requirements: BIO 121(4); GLG 110(4) or GLG 171(3) or GRY 142(4); GRY 100(3) or GRY 108(3); MTH 130(3) or higher numbered mathematics course listed in the General Education Quantitative Literacy requirement.
2. Agriculture requirements:
    a. AGN 115(3) or AGP 103(3); AGN 143(3), 215(3), 335(3); AGP 365(3) or AGP 370(3) or AGN 543(3); AGP 581(3); GEP 101(2) or UHC 110(2) or AGR 301(1).
    b. Two courses from: AGB 354(2), AGN 351(2), AGN 465(3), AGP 583(3), AGP 585(3).
3. Biology requirements:
    a. BIO 121(4)*, 122(4)*, 334(3), 339(2), 367(3), 368(1); BIO 373(3) or BIO 532(3).
    b. Two courses from: BIO 370(4), 573(3), 575(3), 576(3), 577(3).
4. CHM 116(4) and 117(1); or CHM 160(4) and 161(1).
5. 10 additional hours in courses numbered 200 or higher in Agriculture and/or Biology.
6. AGR 490(1) or BIO 302(1) or BIO 494(1); BIO 492(0).
7. Public Affairs Capstone Experience Requirement will be fulfilled by completion of BIO 373(3) or BIO 532(3) and two courses from 3b.

**Major requirements (65-68):**

1. Specific General Education Requirements: BIO 121(4); GLG 110(4) or GLG 171(3) or GRY 142(4); GRY 100(3) or GRY 108(3); MTH 130(3) or higher numbered mathematics course listed in the General Education Quantitative Literacy requirement.
2. Agriculture requirements:
    a. AGN 115(3) or AGP 103(3); AGN 143(3), 215(3), 335(3); AGP 365(3) or AGP 370(3) or AGN 543(3); AGP 581(3); GEP 101(2) or UHC 110(2) or AGR 301(1) **or BIO 302(1).**
    b. Two courses from: AGB 354(2), AGN 351(2), AGN 465(3), AGP 583(3), AGP 585(3).
3. Biology requirements:
    a. BIO 121(4)*, 122(4)*, 334(3), 339(2), 367(3), 368(1); BIO 373(3) or BIO 532(3).
    b. Two courses from: BIO 370(4), 573(3), 575(3), 576(3), 577(3).
4. CHM 116(4) and 117(1); or CHM 160(4) and 161(1).
5. 10 additional hours in courses numbered 200 or higher in Agriculture and/or Biology.
6. AGR 490(1) or BIO 302(1) ~~or BIO 494(1)~~; BIO 492(0).
7. Public Affairs Capstone Experience Requirement will be fulfilled by completion of BIO 373(3) or BIO 532(3) and two courses from 3b.

Missouri State

# Curricular Action Workflow

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# Change Course Proposal Form

**Submitted on 10/14/2021 by Keiichi Yoshimatsu (KYoshimatsu@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:

CHM116 Fundamentals of Chemistry

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:

CHM 116 Fundamentals of Chemistry

Prerequisite: concurrent enrollment in MTH 103 or eligibility for MTH 130 or higher mathematics course. General Education Course (Focus on Physical Sciences). MOTR number CHEM 100 - Essentials in Chemistry. Concurrent enrollment in CHM 117 is highly recommended. Emphasis on chemical fundamentals and applications. Recommended for students needing only one semester of introductory chemistry. Cannot be counted towards a chemistry major or minor. 4(4-0) 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.)

CHM 116 Fundamentals of Chemistry

~~Prerequisite: concurrent enrollment in MTH 103 or eligibility for MTH 130 or higher mathematics course.~~ General Education Course (Focus on Physical Sciences). MOTR number CHEM 100 - Essentials in Chemistry. Concurrent enrollment in CHM 117 is highly recommended. Emphasis on chemical fundamentals and applications. Recommended for students needing only one semester of introductory chemistry. Cannot be counted towards a chemistry major or minor. 4(4-0) F,S

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What is changing? Check all boxes that apply.

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

Reason for proposed change

This change provides more flexibility to students in terms of their timing to enroll in this course.

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
- [x] 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) 10/05/2021

**Current Status:**

College Council Review

**Proposal Progress:**

10/15/2021 - Submitted by Department Head (Adam Wanekaya)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

Missouri State

# Curricular Action Workflow

designed by Computer Ser



# Change Course Proposal Form

**Submitted on 10/14/2021 by Keiichi Yoshimatsu (KYoshimatsu@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:

CHM117 Fundamentals of Chemistry 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:

CHM 117 Fundamentals of Chemistry Laboratory

Prerequisite: "C-" or better in CHM 116 or concurrent enrollment; concurrent enrollment in MTH 103 or eligibility for MTH 130 or higher mathematics course. General Education Course (Focus on Physical Sciences). MOTR number CHEM 100L - Essentials in Chemistry with Lab. Emphasis on experiments and lab skills associated with the lecture material in CHM 116, such as chemical fundamentals and applications. Recommended for students needing only one semester of general chemistry lab. Cannot be counted towards a chemistry major or minor. Cannot be taken Pass/Not Pass. 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.)

CHM 117 Fundamentals of Chemistry Laboratory

Prerequisite: "C-" or better in CHM 116 or concurrent enrollment~~; concurrent enrollment in MTH 103 or eligibility for MTH 130 or higher mathematics course~~. General Education Course (Focus on Physical Sciences). MOTR number CHEM 100L - Essentials in Chemistry with Lab. Emphasis on experiments and lab skills associated with the lecture material in CHM 116, such as chemical fundamentals and applications. Recommended for students needing only one semester of general chemistry lab. Cannot be counted towards a chemistry major or minor. Cannot be taken Pass/Not Pass. 1(0-2) F,S

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What is changing? Check all boxes that apply.

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

Reason for proposed change

This change provides more flexibility to students in terms of their timing to enroll in this course.

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
- [x] 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) 10/05/2021

**Current Status:**

College Council Review

**Proposal Progress:**

10/15/2021 - Submitted by Department Head (Adam Wanekaya)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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# Change Course Proposal Form

**Submitted on 10/14/2021 by Keiichi Yoshimatsu (KYoshimatsu@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:

CHM160 General Chemistry I

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:

CHM 160 General Chemistry I

Prerequisite: eligibility for MTH 136 or higher; concurrent enrollment in CHM 161 is highly recommended. General Education Course (Focus on Physical Sciences). MOTR number CHEM 150 - Chemistry I. Emphasis on fundamental and theoretical concepts of chemistry. Recommended for all science majors, chemistry majors and minors, and most preprofessional students. A grade of "C-" or better is required in this course in order to take CHM 170 or CHM 171. Cannot be taken Pass/Not Pass. 4(4-0) 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.)

CHM 160 General Chemistry I

Prerequisite: **concurrent enrollment in MTH 101 or MTH 103 or** eligibility for MTH 136 or higher; concurrent enrollment in CHM 161 is highly recommended. General Education Course (Focus on Physical Sciences). MOTR number CHEM 150 - Chemistry I. Emphasis on fundamental and theoretical concepts of chemistry. Recommended for all science majors, chemistry majors and minors, and most preprofessional students. A grade of "C-" or better is required in this course in order to take CHM 170 or CHM 171. Cannot be taken Pass/Not Pass. 4(4-0) F,S

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What is changing? Check all boxes that apply.

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

Reason for proposed change

This change provides more flexibility to students in terms of their timing to enroll in this course.

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
- [x] 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) 10/05/2021

**Current Status:**

College Council Review

**Proposal Progress:**

10/15/2021 - Submitted by Department Head (Adam Wanekaya)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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Missouri State / Computer Services - MIS / Curricular Action Workflow / **CAW - Change Course Proposal Form**

# Change Course Proposal Form

**Submitted on 10/14/2021 by Keiichi Yoshimatsu (KYoshimatsu@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:

CHM170 General Chemistry II

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:

CHM 170 General Chemistry II

Prerequisite: "C-" grade or better in CHM 160. Concurrent enrollment in CHM 171 is highly recommended. Emphasis on reaction kinetics, chemical equilibrium, precipitation reactions, acid-base theory and oxidation-reduction reactions. A grade of "C-" or better is required in this course in order to take CHM 342, 352, or 506. Cannot be taken Pass/Not Pass. 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.)

CHM 170 General Chemistry II

Prerequisite: **eligibility for MTH 136 or higher; and** "C-" grade or better in CHM 160. Concurrent enrollment in CHM 171 is highly recommended. Emphasis on reaction kinetics, chemical equilibrium, precipitation reactions, acid-base theory and oxidation-reduction reactions. A grade of "C-" or better is required in this course in order to take CHM 342, 352, or 506. Cannot be taken Pass/Not Pass. 3(3-0) F,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

Currently, all students who enroll in CHM 170 have an "eligibility for MTH 136 or higher", because "eligibility for MTH 136 or higher" has been a Prerequisite for CHM 160. Therefore, this change does not add any extra burden to students.
Meanwhile, we are proposing to make a change on the Prerequisite for CHM 160 (through a separate change course proposal) and the change will allow students who does not have "eligibility for MTH 136 or higher" to enroll in CHM160 as long as the concurrently enroll in MTH 101 or MTH 103.
Consequently, in order to ensure the preparedness of students for this course, we propose to add the "eligibility for MTH 136 or higher" as a Prerequisite for CHM 170.

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
- [x] 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) 10/05/2021

**Current Status:**

College Council Review

**Proposal Progress:**

10/15/2021 - Submitted by Department Head (Adam Wanekaya)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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# Curricular Action Workflow

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# Change Course Proposal Form

**Submitted on 10/22/2021 by Keiichi Yoshimatsu (KYoshimatsu@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:

CHM503 Instrumental Analysis 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

Enter parallel course number

CHM603 Instrumental Analysis Laboratory

How do these classes differ?

CHM 603 is a graduate course that includes the same content from CHM 503 with several additional assignments that are appropriate for graduate students.
CHM 603 is typically taught concurrently with CHM 503.

Current online catalog description:

CHM 503 Instrumental Analysis Laboratory

Prerequisite: "C-" or better in CHM 302; and "C-" or better in CHM 502 or CHM 602 or concurrent enrollment. A laboratory course emphasizing applications of Instrumental methods for the separation and analysis of materials. The course is designed to reflect and supplement the scope of CHM 502. Included are laboratory exercises in potentiometry, spectrophotometry, and chromatography. May be taught concurrently with CHM 603. Cannot receive credit for both CHM 503 and CHM 603. 1(0-3) 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.)

CHM 503 Instrumental Analysis Laboratory

Prerequisite: "C-" or better in CHM 302; and "C-" or better in CHM 502 or CHM 602 or concurrent enrollment. A laboratory course emphasizing applications of Instrumental methods for the separation and analysis of materials. The course is designed to reflect and supplement the scope of CHM 502. Included are laboratory exercises in potentiometry, spectrophotometry, and chromatography. May be taught concurrently with CHM 603. Cannot receive credit for both CHM 503 and CHM 603. ~~1(0-3)~~**2**(**1**-**2**) F

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What is changing? Check all boxes that apply.

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

Reason for proposed change

To provide an improved learning experience for students by increasing the effective 'hands-on' lab hours, at which the individual students can work on instruments, through a format change to offer the course in smaller sections (6 students/section) along with the addition of pre-lab modules.
The pre-lab modules allow for enhancing students' preparation for experimental work and increase their understanding of the data analysis. Since extensive data analysis and detailed reporting is essential for establishing the good understanding of instrumental analysis, addition of 1 cr hr worth of Pre-lab module would be appropriate.

Based on the feedback from exit interviews, students appreciate the hands-on experience that the lab provides. However, a good number of recent graduates expressed their wishes to have more time to work with instruments.

Overall, the credit hour change is necessary in order to respond to the students' inputs and the large benefits for our student justify this proposed change.

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) 10/21/2021

**Current Status:**

College Council Review

**Proposal Progress:**

10/22/2021 - Submitted by Department Head (Adam Wanekaya)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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# Curricular Action Workflow



# Change Program Proposal Form

**Submitted on 10/22/2021 by David Perkins (DavidPerkins@MissouriState.edu).**

**Department:**

Geography, Geology, & Planning

**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-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)*

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*Attached* View Attachment

**What is changing? Check all boxes that apply:**

- [x] Title change
- [ ] Adding option to an existing program (major)
- [ ] Deleting option from an existing program (major)
- [x] Adding existing course(s) totaling 3 credits
- [ ] Adding newly created course(s) totaling 0 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
- [x] Other

Updated the capstone requirement description to clarify how students can gain pre-approval for the option they choose.

**Reason for Proposed Change:**

The Geography program is updating our full curriculum. The changes to the BS major listed here are congruent with the more significant changes being made in the other parts of the GRY curriculum. All the changed programs are being submitted simultaneously.

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

10/20/2021

**Current Status:**

College Council Review

**Proposal Progress:**

10/22/2021 - Submitted by Department Head (Toby Dogwiler)

**Review Comments:**

10/22/2021 - Department Head Review - Toby Dogwiler - The check box for "Course changes of under 18 hours" was checked on Dr. Perkins's original CAW submission but it is not shown above. This seems to be a system error (we verified that it was checked in the submitted form). As such, please note that this proposal adds one course (GRY 108(3)) to the core major requirements. This is also indicated in the revised new catalog description.

No review notes have been added.

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Geography (Non-Comprehensive) (BS)

Bachelor of Science

Major requirements (35 hours):

1. GRY 100(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 302(3).
4. Public Affairs Capstone Experience. One course from: GRY 301(3) or 353(3) or 470(3). Field courses offered by other departments may be substituted with permission of the Department Head and, for some students, a 3-hour Education Abroad experience may be substituted.
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 **and Sustainability** (Non-Comprehensive) (BS)

Bachelor of Science

Major requirements (~~35~~ **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 302(3).
4. ~~4.~~ Public Affairs Capstone Experience. ~~One course from: GRY 301(3) or 353(3) or 470(3). Field courses offered by other departments may be substituted with permission of the Department Head and, for some students, a 3-hour Education Abroad experience may be substituted.~~
5. ~~12 additional hours with GRY, GEO, or PLN course code.~~ **Complete 3 additional hours of *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 web site and must be completed in advance of the experience.**
6. Minor required (or second major).

University level requirements:

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

Missouri State

# Curricular Action Workflow



# Change Program Proposal Form

**Submitted on 10/22/2021 by David Perkins (DavidPerkins@MissouriState.edu).**

**Department:**

Geography, Geology, & Planning

**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-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)*

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- [x] Title change
- [ ] Adding option to an existing program (major)
- [ ] Deleting option from an existing program (major)
- [x] Adding existing course(s) totaling 3 credits
- [ ] Adding newly created course(s) totaling 0 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
- [x] Other

Changed the wording for the capstone requirement and clarifying how students can seek pre-approval for capstone options.

**Reason for Proposed Change:**

The Geography program is updated it full curriculum. The changes to the BA major listed here are congruent with the more significant changes being made in the other parts of the GRY curriculum. All the changed programs are being submitted simultaneously.

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

10/20/2021

**Current Status:**

College Council Review

**Proposal Progress:**

10/22/2021 - Submitted by Department Head (Toby Dogwiler)

**Review Comments:**

10/22/2021 - Department Head Review - Toby Dogwiler - The check box for "Course changes of under 18 hours" was checked on Dr. Perkins's original CAW submission but it is not shown above. This seems to be a system error (we verified that it was checked in the submitted form). As such, please note that this proposal adds one course (GRY 108(3)) to the core major requirements. This is also indicated in the revised new catalog description.

No review notes have been added.

Copy As New Proposal

Geography

Major(s)

Geography (Non-Comprehensive) (BA)

Bachelor of Arts

Major requirements (35 hours):

1. GRY 100(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 302(3).
4. Public Affairs Capstone Experience. One course from: GRY 301(3) or 353(3) or 470(3). Field courses offered by other departments may be substituted with permission of the Department Head and, for some students, a 3-hour Education Abroad experience may be substituted.
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 **and Sustainability**

Major(s)

Geography (Non-Comprehensive) (BA)

Bachelor of Arts

Major requirements (~~35~~ **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 302(3).
4. Public Affairs Capstone Experience. ~~One course from: GRY 301(3) or 353(3) or 470(3). Field courses offered by other departments may be substituted with permission of the Department Head and, for some students, a 3-hour Education Abroad experience may be substituted.~~ **Complete 3 additional hours of *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 web site 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

Missouri State

# Curricular Action Workflow

designed by Computer Ser



# New Program Proposal Form

**Submitted on 10/22/2021 by Toby Dogwiler (TDogwiler@MissouriState.edu).**

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

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

**Department:**

Geography, Geology, & Planning

**Proposed Program Title:**

Geography and Sustainability (Comprehensive) (BS)

**Choose One:**

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

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

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Does this program include any new courses?

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

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

BS - Bachelor of Science

**General Education Courses Required:**

GRY 100(3), GRY 108(3), GRY 142(4), BIO 101(3)

Total Hours: 13

**General Education Courses Recommended:**

None

Total Hours: 0

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

No specific admissions requirements for the major.

The Geography and Sustainability (Comprehensive) major may not be combined with the Sustainability minor.

Core Requirements: 33 - 34 hours (13 hours overlap with general education requirements)

Major Options: 24 - 29 hours as follows
Geography: 24 hours
Sustainable Watershed Management: 27-29 hours
Sustainable Development: 27 hours

Total Major Requirements = 33-34 hours in Core + 24-29 hours in options = 57-63 hours total

Total Hours: 57-63

**Courses Required in Department:**

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GRY 100(3), GRY 108(3), GRY 109(1), GRY 142(4), GRY 508(3), GRY 351(3), GEO 363(4), PLN 367(3), and GRY 301(3) or GRY 353(3) or GRY 470(3)

other GGP courses are included in the option electives, but not specifically required.

Total Hours: 27

**Courses Required in Other Departments:**

BIO 101(3) or BIO 122(4)
and
AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3)

other courses are not specifically required by students must choose from electives offered by other departments.

Total Hours: 6-7

**Prerequisites for Required Courses:**

GRY 508 has prerequisites of GRY 108 and GRY 109 (which are also required courses for the major)

Students choosing to take BIO 122 (rather than BIO 101) need to take BIO 121, ENG 110, and MTH 135 although the Biology Department Head indicated that the BIO 121 prerequisite may be waived upon request.

**Recommended Electives in Department:**

None

Total Hours: 0

**Recommended Electives in Other Departments:**

None

Total Hours: 0

**Limitations on Electives:**

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None

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

1. Statement of Rationale: *Attached* View Attachment

2. Estimated costs for first five years: *Attached* View Attachment

3. Complete catalog description (including new courses and course changes pending approval): *Attached* View Attachment

4. Complete a new program application for the Missouri Department of Higher Education and Workforce Development (MDHEWD).

*(NOTE: New Minors do not require this form. Certificates with 18 hours or less do not require this form. Originators may skip this step entirely for these types of new programs.)*

- A. Use the templates to complete an MDHEWD application.
  New Undergraduate Major (or certificate with more than 18 hours) | New Graduate Program (Master's Specialist, or certificate with more than 18 hours) For new Doctoral Program contact Associate Provost Julie Masterson for MDHEWD forms and process.
- B. Upload and attach the completed MDHEWD application. *Attached* View Attachment

* Contact Associate Provost Julie Masterson for assistance completing MDHEWD forms.
** The Office of Institutional Research (IR) will submit these application forms to the state after the new program has been fully approved through the curricular process.

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

10/20/2021

**Current Status:**
College Council Review

**Proposal Progress:**
10/22/2021 - 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

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MAKE YOUR MENT.



BACK TO TOP

## Statement of Rationale

### Geography and Sustainability Major

The proposed curriculum within the Geography program is designed to formally incorporate a Sustainability major and become the ***Geography and Sustainability*** major. Although other options certainly exist, Geography is a natural home for a sustainability major. The Principles of Sustainability have been included in the scholarly foundations of Geography for many decades, even before they were referred to as "sustainability". Geography is by its nature an interdisciplinary field that spans the humanities, social sciences, and physical sciences. As such, Geography is an ideal framework around which to structure an academic Sustainability program.

We are proposing a *Geography and Sustainability* program that is built around a core of Geography courses. The Geography core will provide students with the interdisciplinary framework that will be required to synthesize advanced principles of sustainability from a broad range of academic fields. *GRY 100 World Regional Geography* introduces students to the diversity Earth's physical features, human cultures, and the way they interact. *GRY 142 Introduction to Physical Geography* provides students with a basis in the workings of Earth's natural systems. GEO 363 Introduction to GIS and PLN 367 Planning Methods will train students in the analysis and presentation of environmental, social, and geographic data as well as key methods in social science.

Finally, the core will be bookended by two courses that will explicitly prepare students to approach their option area coursework through the lens of sustainability. The existing general education *GRY 108 Principles of Sustainability* course will be required early in the major program. This will be complemented near the completion of the major with a new course titled GRY 508 Geosustainability. GRY 508 will serve as a capstone for the major and the course will be designed to drive majors to synthesize their option area coursework into a cohesive interdisciplinary understanding of the Sustainable Development Goals.

The overarching goal of this program design is to ensure that students incorporate a robust interdisciplinary understanding of Sustainability principles within a cohesive scholarly framework—Geography—that ensures they can synthesize ideas from a broad range of disciplines into solutions for the important issues in Geography and Sustainability that they will encounter as both citizens and professionals.

## Estimated Costs for the First Five Years

### Geography and Sustainability Major

We estimated that this new program and the associated program revisions within Geography will have no direct costs for the department, college, or university. GGP hired a new faculty member in 2021 and is coincidentally searching for two new positions in AY22. These positions are to replace retiring faculty and not the direct result of the proposed curricular changes. However, in anticipation of these changes GGP has defined the scope of the positions such that the successful candidates will be able to contribute to and strengthen the proposed programs.

# Geography and Sustainability

## Majors(s)

### Geography and Sustainability (Non-Comprehensive) (BA)

*<a separate program revision proposal has been submitted for this version of the Geography Major>*

### Geography and Sustainability (Non-Comprehensive) (BS)

*<a separate program revision proposal has been submitted for this version of the Geography Major>*

### Geography and Sustainability (Comprehensive) (BS)

**Major requirements (49-58 hours):**

1. Core Requirements: GRY 100(3), GRY 108(3), GRY 109(1), GRY 142(4), GRY 508(3), GRY 351(3), GEO 363(4), PLN 367(3), BIO 101(3) or BIO 122(4)
2. No more than 7 credits 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 requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3).
5. Complete 3 additional hours of *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 web site and must be completed in advance of the experience.

6. Complete one of the following options:
   a. **Geography** (24 hours)
      1. 6 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 code 300 or above.

   b. **Sustainable Watershed Management** (24 hours)
      1. GRY 545(3), GRY 549(3), GRY 550(3), GLG 547(3) or BIO 547(3)
      2. Two Water Systems courses from: GRY 135(4), GLG 350(3), GLG 580(3), GEO 569(3), BIO 485(3), BIO 509(4), BIO 532(3) BIO 533(4), BIO 562(4)
      3. One Planning Framework course from: LAW 537(3), ECO 540(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)

   c. **Sustainable Development** (27 hours)
      1. Applied Sustainability Course: GRY 510(3) or REC 302(3)
      2. Regional Perspectives:
         (a) Complete one regional perspectives core class: GRY 305(3), GRY 322(3), GRY 325(3), GRY 300(3)
         (b) Complete 2 classes within one of the following regional options:
            (i) Asia: ECO 545(3), PLS 545(3), ANT 334(3), HST 571(3), HST 381(3)
            (ii) Middle East: HST 371(3), HST 544(3), PLS 443(3), PLS 569(3)
            (iii) Africa: HST 323(3), HST 334(3), HST 339(3), ANT 332(3), PLS 550(3), GRY 507(3)
            (iv) Latin America: HST 362(3), HST 364(3), PLS 548(3), ANT 336(3)
            (v) Other region subject to advisor approval
      3. Complete one Planning course: PLN 372(3) or PLN 571(3)
      4. Complete two Economics Understanding courses from: ECO 155(3), ECO 346(3), ECO 450(3), ECO 456(3) ECO 565(3), GRY 321(3)

5. Complete two Policy related courses from: AGN 115(3), AGR 100(3), ANT 314(3), ANT 370(3) ANT 514(3), BIO 502(3), GRY 320(3), LAW 537(3), PLN 505(3), PLS 232(3), PLS 535(3), PLS 546(3), SOC 305(3), SOC 420(3), SOC 430(3), SOC 456(3), SOC 319(3),

7. Public Affairs Capstone Experience will be fulfilled by completion of GRY 508(3).

### University level requirements:

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

**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.

**Accelerated graduate program in Geography and Geology**
Eligible Missouri State undergraduate students may apply for admission to the Geography and Geology program and begin taking graduate course work as they complete the work for a bachelor's degree. A maximum of 12 hours of graduate credit may be counted toward both the undergraduate and graduate degree (Mixed Credit). Refer to the Graduate Catalog for specific admission requirements.
Refer to Undergraduate Students Taking Graduate Classes for additional information and procedures for obtaining permission for Mixed Credit.

**Accelerated graduate program in Natural and Applied Science**
Eligible Missouri State undergraduate students may apply for admission to the Master of Natural and Applied Science program and begin taking graduate course work as they complete the work for a bachelor's degree. A maximum of 12 hours of graduate credit may be counted toward both the undergraduate and graduate degree (Mixed Credit). Refer to the Graduate Catalog for specific admission requirements.
Refer to Undergraduate Students Taking Graduate Classes for additional information and procedures for obtaining permission for Mixed Credit.

**Accelerated graduate program in Professional Studies**
Eligible Missouri State undergraduate students may apply for admission to the Master of Professional Studies program and begin taking graduate course work as they complete the work for a bachelor's degree. A maximum of 12 hours of graduate credit may be counted toward both the undergraduate and graduate degree (Mixed Credit). Refer to the Graduate Catalog for specific admission requirements.
Refer to Undergraduate Students Taking Graduate Classes for additional information and procedures for obtaining permission for Mixed Credit.

**Accelerated graduate certificate in Science Content**
Eligible Missouri State undergraduate students may apply for admission to the Science Content certificate program and begin taking graduate course work as they complete the work for a bachelor's degree. A maximum of 12 hours of graduate credit may be counted toward both the undergraduate and graduate certificate (Mixed Credit). Refer to the Graduate Catalog for specific admission requirements.
Refer to Undergraduate Students Taking Graduate Classes for additional information and procedures for obtaining permission for Mixed Credit.

☒**PUBLIC**
☐**INDEPENDENT**

## NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

***When finished, please save and email to: he.academicprogramactions@dhe.mo.gov***

**Sponsoring Institution**: Missouri State University

**Program Title**: Geography and Sustainability (Comprehensive)

**Degree/Certificate**: Choose degree type

**If other, please list**: BS

**Options**: Geography, Sustainable Watershed Management, Sustainable Development

**Delivery Site**: Missouri State University – Springfield Campus

**CIP Classification**: 45.0701

**Implementation Date**: 8/15/2022

**Is this a new off-site location**? ☐ **Yes** ☒ **No**

**If yes, is the new location within your institution's current CBHE-approved service region**? ☐
**If no, public institutions should consult the comprehensive review process*

**Is this a collaborative program?** ☒Yes ☐No
**If yes, please complete the collaborative programs form on last page.*

**CERTIFICATIONS**

☒ The program is within the institution's CBHE approved mission. *(public only)*

☒ The program will be offered within the institution's CBHE approved service region. *(public only)*

☒ The program builds upon existing programs and faculty expertise

☒ The program does not unnecessarily duplicate an existing program in the geographically-applicable area.

☒ The program can be launched with minimal expense and falls within the institution's current operating budget. *(public only)*

**AUTHORIZATION**

| Frank Einhellig, Provost | | |
|---|---|---|
| Name/Title of Institutional Officer | Signature | Date |

## PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below.

Quantification of performance goals should be included wherever possible.

**1. Student Preparation**

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.
  No special preparation is required.

- Characteristics of a specific population to be served, if applicable.
  MSU undergraduate students

**2. Faculty Characteristics**

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.
  Advanced degrees in geography or a closely related discipline

- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.
  >90% full time faculty

- Expectations for professional activities, special student contact, teaching/learning innovation.
  Typical and normal faculty continued professional development, student advising, and course preparation.

**3. Enrollment Projections**

- Student FTE majoring in program by the end of five years.
  50

- Percent of full time and part time enrollment by the end of five years.
  95% Full time / 5% Part Time

**STUDENT ENROLLMENT PROJECTIONS**

| YEAR | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Full Time | 15 | 30 | 40 | 45 | 50 |
| Part Time | 95 | 95 | 95 | 95 | 95 |
| Total | 5 | 5 | 5 | 5 | 5 |

**4. Student and Program Outcomes**

- Number of graduates per annum at three and five years after implementation.
  12-15

- Special skills specific to the program.

The overarching goal of this program is to train students to incorporate a robust interdisciplinary understanding of Sustainability principles within a cohesive scholarly framework—Geography. Graduates of the program will be able to synthesize ideas from a broad range of disciplines into solutions for the important issues in Geography and Sustainability that they will encounter as both citizens and professionals.

- Proportion of students who will achieve licensing, certification, or registration.
  N/A – widely recognized and relevant professional licensing, certification, or registration does not exist.

- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.
  N/A – Geography and Sustainability nationally normed tests are not available.

- Placement rates in related fields, in other fields, unemployed.
  Recent quantified placement rate data is not available. However, a high percentage of graduates go to work in the field directly after graduation or continue to graduate programs. We estimate a placement rate above 85%.

- Transfer rates, continuous study.
  Click here to enter text

**5. Program Accreditation**

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide rationale.
  There is no academic accreditation program available in this field.

**6. Program Structure**

A. Total credits required for graduation: 120

B. Residency requirements, if any:
   None beyond the MSU requirements

C. General education: Total credits:
   45-49

*Courses (specific courses OR distribution area and credits)*

| Distribution Area | Credits | Course Title |
|---|---|---|
| Foundations | 2 | First-Year Seminar |
| | 3 | Written Communication & Info Literacy |
| | 3 | Oral Communication |
| | 3-5 | Quantitative Literacy |
| | 3 | Written Comm. & Integrative & Applied Learning |

| | | |
|---|---|---|
| Natural World | 3-4 | Life Sciences |
| | 3-5 | Physical Sciences |
| Human Cultures | 6 | Social and Behavioral Sciences |
| | 3 | Humanities |
| | 3 | The Arts |
| Public Affairs | 6 | US & MO Constitutions/American History and Institutions |
| | 3 | Cultural Competence |
| | 3 | Public Issues |

D. Major requirements: Total credits: 57-62

| **Course Number** | **Credits** | **Course Title** |
|---|---|---|
| GRY 100 | 3* | World Regional Geography |
| GRY 108 | 3* | Principles of Sustainability |
| GRY 109 | 1 | Principles of Sustainability Discussion |
| GRY 142 | 4* | Principles of Weather and Climate |
| GRY 508 | 3 | Philosophy of Geosustainability |
| GRY 351 | 3 | Conservation of Natural Resources |
| GEO 363 | 4 | Introduction to Geographic Information Science |
| PLN 367 | 3 | Planning Methods |
| BIO 101 or BIO 122 | 3* | Biology in Our World **or** General Biology II |
| Statistics Course | 3 | Several course options |
| GRY 301, GRY 353, or GRY 470 | 3 | Geography of the Ozarks **or** Field Experience in Geography (inside continental USA) **or** Field Experience in Geography (outside continental USA) |
| Core Sub-Total | 33 | |
| | -13 | *General Education Courses. Subtracting so they are not counted twice (o in general education requirements and once in major core) |
| **Core Total** | **20** | |
| | | |
| Geography Option | 24 | See below for course listing |
| | | |
| Sustainable Watershed Management Option | 27 – 29 | See below for course listing |
| | | |
| Sustainable Development Option | 27 | See below for course listing |
| | | |
| **Total Major** | **44 – 49** | **Core + Option (57 – 62 counting the general education overlap)** |

## Geography and Sustainability (Comprehensive) (BS)

### Major requirements (49-58 hours):

1. Core Requirements: GRY 100(3), GRY 108(3), GRY 109(1), GRY 142(4), GRY 508(3), GRY 351(3), GEO 363(4), PLN 367(3), BIO 101(3) or BIO 122(4)
2. No more than 7 credits 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 requirement: AGR 330(3) or MTH 340(3) or PSY 200(3) or QBA 237(3) or REC 328(3) or SOC 302(3).
5. Complete 3 additional hours of *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 web site and must be completed in advance of the experience.

6. Complete one of the following options:
    a. **Geography** (24 hours)
        1. 6 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 code 300 or above.

    b. **Sustainable Watershed Management** (24 hours)
        1. GRY 545(3), GRY 549(3), GRY 550(3), GLG 547(3) or BIO 547(3)
        2. Two Water Systems courses from: GRY 135(4), GLG 350(3), GLG 580(3), GEO 569(3), BIO 485(3), BIO 509(4), BIO 532(3) BIO 533(4), BIO 562(4)
        3. One Planning Framework course from: LAW 537(3), ECO 540(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)

    c. **Sustainable Development** (27 hours)
        1. Applied Sustainability Course: GRY 510(3) or REC 302(3)
        2. Regional Perspectives:
            (a) Complete one regional perspectives core class: GRY 305(3), GRY 322(3), GRY 325(3), GRY 300(3)
            (b) Complete 2 classes within one of the following regional options:
                (i) Asia: ECO 545(3), PLS 545(3), ANT 334(3), HST 571(3), HST 381(3)
                (ii) Middle East: HST 371(3), HST 544(3), PLS 443(3), PLS 569(3)
                (iii) Africa: HST 323(3), HST 334(3), HST 339(3), ANT 332(3), PLS 550(3), GRY 507(3)
                (iv) Latin America: HST 362(3), HST 364(3), PLS 548(3), ANT 336(3)
                (v) Other region subject to advisor approval
        3. Complete one Planning course: PLN 372(3) or PLN 571(3)
        4. Complete two Economics Understanding courses from: ECO 155(3), ECO 346(3), ECO 450(3), ECO 456(3) ECO 565(3), GRY 321(3)
        5. Complete two Policy related courses from: AGN 115(3), AGR 100(3), ANT 314(3), ANT 370(3) ANT 514(3), BIO 502(3), GRY 320(3), LAW 537(3), PLN 505(3), PLS 232(3), PLS 535(3), PLS 546(3), SOC 305(3), SOC 420(3), SOC 430(3), SOC 456(3), SOC 319(3),
7. Public Affairs Capstone Experience will be fulfilled by completion of GRY 508(3).

E. Free elective credits: 22 - 31
*(sum of C, D, and E should equal A)*

F. Requirements for thesis, internship or other capstone experience:
3

G. Any unique features such as interdepartmental cooperation:
None

**7. Need/Demand**

☒Student demand

☒Market demand

☒Societal demand

☒I hereby certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful.

***On July 1, 2011, the Coordinating Board for Higher Education began provisionally approving all new programs with a subsequent review and consideration for full approval after five years.***

## COLLABORATIVE PROGRAMS

- **Sponsoring Institution One:** Choose an institution
- **Sponsoring Institution Two:** Choose an institution
- **Other Collaborative Institutions**: Click here to enter text
- **Length of Agreement:** Click here to enter text
- **Which institution(s) will have degree-granting authority?** Click here to enter text
- **Which institution(s) will have the authority for faculty hiring, course assignment, evaluation and reappointment decisions?** Click here to enter text
- **What agreements exist to ensure that faculty from all participating institutions will be involved in decisions about the curriculum, admissions standards, exit requirements?** Click here to enter text
- **Which institution(s) will be responsible for academic and student-support services, e.g., registration, advising, library, academic assistance, financial aid, etc.?** Click here to enter text
- **What agreements exist to ensure that the academic calendars of the participating institutions have been aligned as needed?** Click here to enter text

***Please save and email this form to*: he.academicprogramactions@dhe.mo.gov**

Missouri State

# Curricular Action Workflow



# New Course Proposal Form

**Submitted on 10/22/2021 by David Perkins (DavidPerkins@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) 109

Course Title: Sustainability Roundtable

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 108

Catalog Course Description: (Include any Pass/Not Pass grading restrictions, repeatable limits, limitation on course applicability,

UG/GR parallel course, etc.)

This discussion-based course engages students in foundational literature within the sustainability discipline. Students participate through discussions and presentations reviewing how sustainability today has origins in key economic, environmental, and social writings. Prerequisite: GRY 108 or concurrent enrollment.

*317/30000 character limit.*

Credit Hours: 1 Lecture Contact Hours: 1 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 109 Sustainability Roundtable
Prerequisite: GRY 108
This discussion-based course engages students in foundational literature within the sustainability discipline. Students participate through discussions and presentations reviewing how sustainability today has origins in key economic, environmental, and social writings. Prerequisite: GRY 108 or concurrent enrollment.
Credit hours: 1 Lecture contact hours: 1 Lab contact hours: 0
Typically offered: Fall, Spring

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

*0/30000 character limit.*
*Attached* View Attachment

Purpose of Course

This course introduces students to a more in-depth look at foundational texts within sustainability. In doing so, class is designed to help the student improve their critical thinking, presentation skills, and topical understanding by engaging with many seminal sustainability-related topics. This course will be a foundational part of the Geography and Sustainability major and prepare students to identify interdisciplinary sustainability connections in upper-level courses.

*476/30000 character limit.*

Relationship to Other Departments

This course is required within the Geography and Sustainability comprehensive BS degree and will not directly impact other departments.

*135/30000 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: | 15 | Maximum Enrollment Limit per section: | 30 |
| Anticipated Average Enrollment per semester: | 15 | Maximum Enrollment Limit per semester: | 30 |
| Anticipated Average Enrollment per year: | 30 | Maximum Enrollment Limit per year: | 60 |
| Faculty Load Assignment (equated hours): | 1 | | |

Is another course being deleted? ◉ No ○ Yes

Select course number and title being deleted.

nullnull null

**What will this course require in the way of:**

Additional library Holdings

N/A

*3/30000 character limit.*

Additional computer resources

N/A

*3/30000 character limit.*

Additional or remodeled facilities

N/A

*3/30000 character limit.*

Additional equipment or supplies

N/A

*3/30000 character limit.*

Additional travel funds

N/A

*3/30000 character limit.*

Additional faculty; general vs specialized

N/A

*3/30000 character limit.*

Additional faculty; regular vs per-course

N/A

*3/30000 character limit.*

Other additional expenses

N/A

*3/30000 character limit.*

---

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

Taught within existing course loads.

*36/30000 character limit.*

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

David R. Perkins

*16/30000 character limit.*

What is the anticipated source of students for this course?

GRY 108 students and undergraduate majors in Geography and Sustainability

*73/30000 character limit.*

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

In addition to GRY 108

*22/30000 character limit.*

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

None

*4/30000 character limit.*

Other comments:

N/A

*3/30000 character limit.*

What is the date that this new course was approved by departmental or program faculty? (MM/DD/YYYY) 10/20/2021

**Current Status:**

College Council Review

**Proposal Progress:**

10/22/2021 - 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 109: Sustainability Roundtable (1)

## Course details:

**PROFESSOR: Dr. David R. Perkins IV**

**OFFICE: Temple 375A**

**OFFICE HOURS: Due to ongoing levels of COVID restrictions, office hours will be by-appointment until further notice. Most requests can be handled over email; however, audio/video or in-person meetings will be made available if necessary.**

**E-MAIL: DavidPerkins@MissouriState.edu**

## Catalog Description: GRY 109 Sustainability Roundtable

This discussion-based course engages students in foundational literature within the sustainability discipline. Students participate through discussions and presentations reviewing how sustainability today has origins in key economic, environmental, and social writings.

## Textbook & Course Materials

- All reading materials will be provided on blackboard
- PackBack (see below)

### Technology Requirements and Assistance

This course requires the use of Blackboard, the MSU course management system and you will need your MSU ID to login to the course from the Blackboard homepage (Blackboard Homepage). 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.

### 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

## Packback Questions

Participation is a requirement for this course, and the Packback Questions platform will be used for online discussion about class topics. Packback Questions is an online community where you can be "fearlessly curious" and ask open-ended questions to build on top of what we are covering in class and relate topics to real-world applications.

## Packback Requirements:

There will be a Wednesday by midnight CST, and Sunday by midnight CST deadline for submissions. In order to receive your points per week, you should submit the following per each deadline period:

- 1 open-ended questions per deadline with a minimum Curiosity Score of 50
- 2 Responses per deadline with a minimum Curiosity Score of 70
- Partial credit will be provided for questions and responses that do not meet the minimum curiosity score.

How to Register on Packback:

You can access Packback directly through Blackboard to allow you to sign in with a single click.

1. Navigate into our class on Blackboard
2. In the navigation bar, you will see a link for Packback Questions. Click it, and you will automatically have an account created
3. Complete checkout (the price should be set to $0), and you will be directed to our course community on Packback where you can begin posting.

### How to Get Help from the Packback Team:

If you have any questions or concerns about Packback throughout the semester, please read their FAQ at help.packback.co. If you need more help, contact their customer support team directly at help@packback.co.

For a brief introduction to Packback Questions and why we are using it in class, watch this video: Welcome to Packback Questions on Vimeo

## Course Goals and Objectives

### General Course Goals

This course introduces students to a more in-depth look at foundational texts within sustainability. In doing so, class is designed to help the student improve their critical thinking, presentation skills, and topical understanding by engaging with many seminal sustainability-related topics.

### Student Learning Objectives

After taking this course you should:

- *Be familiar with key foundational literature concerning sustainability*
- *Understand how sustainability today has built upon many varying disciplines and themes*
- *Identify the interconnectedness between environment, society, culture, and economy*

## Course Requirements

### Presentations

Each student will make two presentations per semester which will cover the assigned material as designated on the course calendar. The presentation requirements can vary by assignment but generally will be **approximately 10 minutes in length** and presented as a narrated PowerPoint. These

presentations will be made during class so all can review. Their purpose is for you to 'teach' the class the topic at hand and provide additional insights and information within and beyond the assigned readings.

### Writing Responses

Every week students are required to write a 500-word 'reflection piece' detailing their understanding of the reading materials and applying it to life today.

### Attendance and Participation

Every week students are expected to attend and contribute to in-class discussions.

### Packback

This online forum will be required for most weeks in the course, exceptions are listed in the course calendar, details of posting regularity and score expectations are noted above

### Extra Credit

No extra credit will be provided in this course

### Course Outline/Schedule

Please refer to the Weekly Course Schedule below for details of week-to-week activities, readings, assignments and exams. Any and all updates will be announced during class.

## Grading Policy

Your final grade will be based on the following:

| | |
|---|---|
| Attendance and Participation | 20% |
| Presentations: | 20% |
| Writing Responses | 50% |
| Packback | 10% |

### Viewing Grades

Grades will be posted on blackboard.

### 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.

| ***Letter Grade*** | ***Percentages*** | ***Performance*** |
|---|---|---|
| A | 93 to 100% | Excellent Work |
| A- | 90 to 92.99% | Nearly Excellent Work |
| B+ | 87 to 89.99% | Very Good Work |

| | | |
|---|---|---|
| B | 83 to 86.99% | Good Work |
| B- | 80 to 82.99% | Mostly Good Work |
| C+ | 77 to 79.99% | Above Average Work |
| C | 73 to 76.99% | Average Work |
| C- | 70 to 72.99% | Mostly Average Work |
| D+ | 67 to 69.99% | Below Average Work |
| D | 60 to 66.99% | Poor Work |
| F | 0 to 59.99% | Failing Work |

*University policy statements can be accessed through the blackboard site under the link "university policies". Alternatively, it can also be found at the following link: University Syllabus Policy Statements - Office of the Provost - Missouri State University*

## Abbreviated course outline

| Week of | Schedule Note | Reading Assignment | Packback? |
|---|---|---|---|
| **23-Aug** | First week of classes | *Setup and preliminary lectures* | **N** |
| **30-Aug** | | Caradonna | Y |
| **6-Sep** | Monday Labor Day | Thoreau | Y |
| **13-Sep** | | Muir | Y |
| **20-Sep** | | Carson | Y |
| **27-Sep** | | Leopold | Y |
| **4-Oct** | Fall Break end of week | Suzuki | **N** |
| **11-Oct** | AASHE Conference 12-14 | Brundtland | Y |
| **18-Oct** | | Koens: Overtourism | Y |
| **25-Oct** | | Gore | Y |
| **1-Nov** | | Thorpe | Y |
| **8-Nov** | | Scruton | Y |
| **15-Nov** | | Hay | Y |
| **22-Nov** | Thanksgiving break | Sustainability Driving Innovation | **N** |
| **29-Nov** | | Business Leaders and Sustainability | Y |
| **6-Dec** | Final week of classes | Business Case for Sustainability | **N** |

Missouri State

# Curricular Action Workflow



# New Course Proposal Form

**Submitted on 10/22/2021 by David Perkins (DavidPerkins@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) 508

Course Title: The Philosophy of Geosustainability

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 108, GRY 109

Catalog Course Description: (Include any Pass/Not Pass grading restrictions, repeatable limits, limitation on course applicability,

UG/GR parallel course, etc.)

This discussion and inquiry-based course provides students increased understanding in the historical and philosophical underpinnings of sustainability. Emphasis is placed evenly on social, economic and environmental factors and how they all contribute to present-day applications of sustainability in varying contexts such as policy, business, and development. Special emphasis is placed on how sustainability intersects with conservation, preservation, economic and social development, and the United Nations Sustainable Development Goals (SDGs). May be taught concurrently with GRY 608. Cannot receive credit for both GRY 508 and GRY 608. Prerequisites: GRY 108 and GRY 109.

*676/30000 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)
- [ ] Spring
- [ ] Spring (even-numbered years only)
- [ ] Spring (odd-numbered years only)
- [ ] Summer
- [ ] On Demand only

**Complete Catalog Description:**
GRY 508 The Philosophy of Geosustainability
Prerequisite: GRY 108, GRY 109
This discussion and inquiry-based course provides students increased understanding in the historical and philosophical underpinnings of sustainability. Emphasis is placed evenly on social, economic and environmental factors and how they all contribute to present-day applications of sustainability in varying contexts such as policy, business, and development. Special emphasis is placed on how sustainability intersects with conservation, preservation, economic and social development, and the United Nations Sustainable Development Goals (SDGs). May be taught concurrently with GRY 608. Cannot receive credit for both GRY 508 and GRY 608. Prerequisites: GRY 108 and GRY 109.
Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0
Typically offered: Fall

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

*0/30000 character limit.*
*Attached* View Attachment

Purpose of Course

The purpose of this course is to provide students the foundation for understanding the breadth of sustainability and its theoretical and historical development to what it is today. Through this review, it is the hope that students will take this knowledge and use it as a foundation for understanding sustainability in a broader realm and in an applied business and international development context. GRY 508 will serve as a capstone for the major and the course will be designed to drive majors to synthesize their option area coursework into a cohesive interdisciplinary understanding of the Sustainable Development Goals

*626/30000 character limit.*

Relationship to Other Departments

This course has wide-ranging and interdisciplinary applicability. The course is primarily aimed at Geography and Sustainability majors but may be of interest to students in other programs desiring an upper-level review of sustainability principles and philosophy.

*263/30000 character limit.*

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

Enter parallel course number

GRY708 The Philosophy of Sustainability

How do these classes differ?

Students in the graduate section are expected to have longer presentations and a different participation style in online discussion forums. Additionally, the grading emphasis in the graduate section stresses a higher emphasis on writing and presentation.

*254/30000 character limit.*

## New Course Resource Information

| | | | |
|---|---|---|---|
| Anticipated Average Enrollment per section: | 15 | Maximum Enrollment Limit per section: | 30 |
| Anticipated Average Enrollment per semester: | 15 | Maximum Enrollment Limit per semester: | 30 |
| Anticipated Average Enrollment per year: | 15 | Maximum Enrollment Limit per year: | 30 |
| Faculty Load Assignment (equated hours): | 3 | | |

Is another course being deleted? ◉ No ○ Yes

Select course number and title being deleted.

nullnull null

**What will this course require in the way of:**

Additional library Holdings

N/A

*3/30000 character limit.*

Additional computer resources

N/A

*3/30000 character limit.*

Additional or remodeled facilities

N/A

*3/30000 character limit.*

Additional equipment or supplies

N/A

*3/30000 character limit.*

Additional travel funds

N/A

*3/30000 character limit.*

Additional faculty; general vs specialized

N/A

*3/30000 character limit.*

Additional faculty; regular vs per-course

N/A

*3/30000 character limit.*

Other additional expenses

N/A

*3/30000 character limit.*

---

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

Taught within existing course loads. This is a parallel course to an existing course taught by a current faculty.

*113/30000 character limit.*

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

David R. Perkins

*16/30000 character limit.*

What is the anticipated source of students for this course?

Students in the geography and sustainability major are required to take this course as their capstone.

*102/30000 character limit.*

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

Capstone requirement, no change to relationship with other courses.

*67/30000 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 concurrent parallel course is currently GRY 708 but we are simultaneously submitting a course proposal to change GRY 708 to GRY 608.

*137/30000 character limit.*

What is the date that this new course was approved by departmental or program faculty? (MM/DD/YYYY) 10/20/2021

**Current Status:**

College Council Review

**Proposal Progress:**

10/22/2021 - 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 508/608: The Philosophy of Geosustainability

## Course details:

**PROFESSOR: Dr. David R. Perkins IV**

**OFFICE: Temple 375A**

**OFFICE HOURS: Due to ongoing levels of COVID restrictions, office hours will be by-appointment until further notice. Most requests can be handled over email; however, audio/video or in-person meetings will be made available if necessary.**

**E-MAIL: DavidPerkins@MissouriState.edu**

## Catalog Description: GRY 508/608 The Philosophy of Sustainability

This discussion and inquiry-based course provides students increased understanding in the historical and philosophical underpinnings of sustainability. Emphasis is placed evenly on social, economic and environmental factors and how they all contribute to present-day applications of sustainability in varying contexts such as policy, business, and development. Special emphasis is placed on how sustainability intersects with conservation, preservation, economic and social development, and the United Nations Sustainable Development Goals (SDGs). *Prerequisites: GRY 108, GRY 109*

## Textbook & Course Materials

- Sustainability: A Bedford Spotlight Reader, Christian R. Weisser (2nd edition)
- PackBack (see below)
- All other reading materials will be provided on blackboard

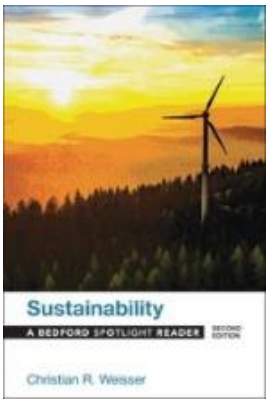


*Figure 1: Picture of textbook cover*

## Technology Requirements and Assistance

This course requires the use of Blackboard, the MSU course management system and you will need your MSU ID to login to the course from the Blackboard homepage (Blackboard Homepage). 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.

### 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

## Packback Questions

Participation is a requirement for this course, and the Packback Questions platform will be used for online discussion about class topics. Packback Questions is an online community where you can be "fearlessly curious" and ask open-ended questions to build on top of what we are covering in class and relate topics to real-world applications.

### Packback Requirements:

There will be a Wednesday by midnight CST, and Sunday by midnight CST deadline for submissions. In order to receive your points per week, you should submit the following per each deadline period:

508 Students:

- 1 open-ended questions per deadline with a minimum Curiosity Score of 50
- 2 Responses per deadline with a minimum Curiosity Score of 70
- Partial credit will be provided for questions and responses that do not meet the minimum curiosity score.

608 Students:

- 3 open-ended questions per deadline with a minimum Curiosity Score of 50
- 1 Response per deadline with a minimum Curiosity Score of 70
- Partial credit will be provided for questions and responses that do not meet the minimum curiosity score.

## How to Register on Packback:

You can access Packback directly through Blackboard to allow you to sign in with a single click.

1. Navigate into our class on Blackboard
2. In the navigation bar, you will see a link for Packback Questions. Click it, and you will automatically have an account created
3. Complete checkout (the price should be set to $0), and you will be directed to our course community on Packback where you can begin posting.

### How to Get Help from the Packback Team:

If you have any questions or concerns about Packback throughout the semester, please read their FAQ at help.packback.co. If you need more help, contact their customer support team directly at help@packback.co.

For a brief introduction to Packback Questions and why we are using it in class, watch this video: Welcome to Packback Questions on Vimeo

## Course Goals and Objectives

### General Course Goals

This course provides students a more comprehensive and in-depth look at the many facets of sustainability. In doing so, this graduate-level class is designed to help the student improve their research, writing, and presentation/teaching skills by engaging topically with many sustainability-related topics. Additionally, emphasis is placed on the understanding of sustainability as a philosophical mindset.

### Student Learning Objectives

After taking this course you should:

- *Be familiar with the literature concerning sustainability*
- *Understand how sustainability is being implemented in the world today*
- *Recognize the importance of sustainability when making policy decisions*
- *Examine issues through a sustainability mindset*
- *Identify the interconnectedness between environment, society, culture, and economy*

## Course Requirements

### SDG Project

This project will be the application of the Sustainable Development goals to in a sustainability assessment for both a domestic and international location. The project description will be advertised after the completion of the SDG lectures and due before the commencement of Fall Break.

### Presentations

Presentations will cover the assigned material as designated on the course calendar. The presentation requirements can vary by assignment but generally will be **approximately 10 minutes in length for 508 students and 15 minutes in length for 608 students** and presented as a narrated PowerPoint. These presentations will be distributed to the class so all can review. Their purpose is for you to 'teach' the class the topic at hand and provide additional insights and information within and beyond the assigned readings.

### Reading assimilation

This project will be a writing assignment regarding what you have learned from the readings in the Weisser text.

### Packback

This online forum will be required for most weeks in the course, exceptions are listed in the course calendar, details of posting regularity and score expectations are noted above

### Conversation Circles (508 students only)

You are required to sign-up and complete one conversation circle. These are offered in the first 3 weeks of the semester. Sign-up days have limited numbers of participants and are based on a first-come, first-served basis: English Language Institute: Global Goals Academy Conversation Circles (signupgenius.com)

### Interview Project

This project will necessitate that you identify and interface with a local company where you will learn about sustainability in practice. More details will be provided later in the semester.

**ALL GRADED MATERIALS ARE OPEN-BOOK AND OPEN-NOTE (ONLY YOUR PERSONAL NOTES) BUT ARE NOT TO BE DONE COLLABORATIVELY. IT IS AN HONOR CODE VIOLATION TO DISCUSS/SHARE/SCREENSHOT ANY TESTING MATERIALS WITH OTHER STUDENTS OR PEOPLE—INCLUDING THOSE NOT ENROLLED IN THE UNIVERSITY. THERE ARE ADVANCED METRICS IN PLACE TO MONITOR ANY COMMUNICATION OR COLLABORATION PATTERNS DURING THE TESTS. IF IT IS DEEMED THAT YOU SOUGHT OUTSIDE ASSISTANCE OR COLLABORATED, YOU WILL BE REFERRED TO THE ACADEMIC INTEGRITY OFFICE AND AN XF GRADE WILL BE THE RECOMMENDED PUNISHMENT.**

### Extra Credit

No extra credit will be provided in this course

### Course Outline/Schedule

Please refer to the Weekly Course Schedule below for details of week-to-week activities, readings, assignments and exams. Any and all updates will be announced during class.

## Grading Policy

Your final grade will be based on the following:

| | **608 Students** | **508 Students** |
|---|---|---|
| Writing assignment: | 20% | 10% |
| Presentations: | 45% | 40% |
| SDG Project: | 15% | 15% |
| Packback: | 5% | 15% |
| Interview project: | 15% | 15% |
| Conversation circles: | Not Required | 5% |

### Viewing Grades

Grades will be posted on blackboard.

## 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.

| ***Letter Grade*** | ***Percentages*** | ***Performance*** |
|---|---|---|
| A | 93 to 100% | Excellent Work |
| A- | 90 to 92.99% | Nearly Excellent Work |
| B+ | 87 to 89.99% | Very Good Work |
| B | 83 to 86.99% | Good Work |
| B- | 80 to 82.99% | Mostly Good Work |
| C+ | 77 to 79.99% | Above Average Work |
| C | 73 to 76.99% | Average Work |
| C- | 70 to 72.99% | Mostly Average Work |
| D+ | 67 to 69.99% | Below Average Work |
| D | 60 to 66.99% | Poor Work |
| F | 0 to 59.99% | Failing Work |

*University policy statements can be accessed through the blackboard site under the link "university policies". Alternatively, it can also be found at the following link: University Syllabus Policy Statements - Office of the Provost - Missouri State University*

## Abbreviated course outline

| Week of | Schedule Note | Event | Tasks | Packback? | Special event | Deliverables |
|---|---|---|---|---|---|---|
| **23-Aug** | First week of classes | *Setup and preliminary lectures* | Review lectures | **N** | MWF Conversation Circles | NONE |
| **30-Aug** | | *SDG Presentation* | Research and complete SDG presentation #1 | Y | | SDG WEEK 1 PRESENTATION |
| **6-Sep** | Monday Labor Day | *Review and application of SDGs* | Review all SDG presentations and finish your SDG presentation #2 | Y | | NONE |
| **13-Sep** | | | | Y | | SDG MOD 2 PRESENTATION |
| **20-Sep** | | *SDG Project Posted (DUE BY FALL BREAK)* | MOD 1 Reading Assignment | Y | | READINGS MODULE 1 PRESENTATION |
| **27-Sep** | | | Review all MOD 1 Reading Assignments | Y | | NONE |
| **4-Oct** | Fall Break end of week | *Interview project posted* | Finalize SDG Project | **N** | | SDG PROJECT DUE BY FALL BREAK |
| **11-Oct** | AASHE Conference 12-14 | | MOD 2 Reading Assignment | Y | | READINGS MODULE 2 PRESENTATION |
| **18-Oct** | | | Review all MOD 2 Reading Assignments | Y | | NONE |
| **25-Oct** | | | MOD 3 Reading Assignment | Y | | READINGS MODULE 3 PRESENTATION |
| **1-Nov** | | | Review all MOD 3 Reading Assignments | Y | | NONE |
| **8-Nov** | | *Reading assimilation writing assignment posted* | Work on writing assignment | Y | | WRITING ASSIGNMENT FROM READINGS |
| **15-Nov** | | | Work on interview project transcript | Y | | INTERVIEW PROJECT: TRANSCRIPT |
| **22-Nov** | Thanksgiving break | | Work on interview project interviews and paper | **N** | | NONE |
| **29-Nov** | | | | Y | | NONE |
| **6-Dec** | Final week of classes | | Finalize interview project | **N** | | FINAL INTERVIEW PROJECT |

Missouri State

# Curricular Action Workflow

designed by Computer Ser



# New Course Proposal Form

**Submitted on 10/20/2021 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) 549

Course Title: Sustainable Landform Management

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.)

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.

*363/30000 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.

| | | |
|---|---|---|
| ☐ 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 549 Sustainable Landform Management
Prerequisite: None
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.
Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0
Typically offered: Spring (even-numbered years only)

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

*0/30000 character limit.*
*Attached* View Attachment

Purpose of Course

This course will enhance the sustainability focus within the Geography program by examining the role that humans play in shaping the Earth and managing our landscape processes. As such, the origin, composition, spatial distribution, and processes of development of landforms integrating management practices and the concept of “sustainability” will be explored in this course. This course will concentrate on the formative processes of landforms, such as weathering, mass movement, erosion and deposition caused by water and ice, of landform development with an emphasis on how this knowledge can be applied to landform management. The role of humans as a geomorphic agent in the 21st century will be emphasized in this course. Further, the need for a sustainable approach towards landform management will be underscored particularly in the Anthropocene when human activities have dominant influence on the climate and environment.

*933/30000 character limit.*

Relationship to Other Departments

This course may appeal to students in other departments, such as Archeology, Agriculture, and Biology. However, we anticipate its primary audience will be geography and geology majors.

*187/30000 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?

This course is being proposed simultaneously with GRY 649.
The assignments are weighted differently, additional questions for graduate students on exams and graduate students are expected to develop a more detailed and longer research paper focusing on a topic.

*261/30000 character limit.*

## New Course Resource Information

| | | | |
|---|---|---|---|
| Anticipated Average Enrollment per section: | 15 | Maximum Enrollment Limit per section: | 20 |
| Anticipated Average Enrollment per semester: | 15 | Maximum Enrollment Limit per semester: | 20 |
| Anticipated Average Enrollment per year: | 15 | Maximum Enrollment Limit per year: | 20 |
| Faculty Load Assignment (equated hours): | 3 | | |

Is another course being deleted? ◉ No ○ Yes

Select course number and title being deleted.

nullnull null

**What will this course require in the way of:**

Additional library Holdings

No

*2/30000 character limit.*

Additional computer resources

No

*2/30000 character limit.*

Additional or remodeled facilities

No

*2/30000 character limit.*

Additional equipment or supplies

No

*2/30000 character limit.*

Additional travel funds

No

*2/30000 character limit.*

Additional faculty; general vs specialized

No

*2/30000 character limit.*

Additional faculty; regular vs per-course

No

*2/30000 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?

The course will be taught by an existing newly hired faculty member.  GRY 348 will be taught less frequently.

*110/30000 character limit.*

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

Tasnuba Jerin
Robert Pavlowsky
Toby Dogwiler

*44/30000 character limit.*

What is the anticipated source of students for this course?

Geography Majors and Geology Majors

*35/30000 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 be an elective within the geography majors. It will be one of several options the students may take.

*118/30000 character limit.*

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

Not applicable

*14/30000 character limit.*

Other comments:

This course proposal is being submitted along with a revision of the geography major curriculum. The new geography curriculum emphasizes sustainability concepts inherent in the scholarly framework of geography. This course is being developed to complement this new focus within our curriculum by taking a traditional geography course topic (i.e., Landscape Processes) and refocusing the topic within the lens of Sustainability by emphasizing both the processes and the concurrent role of humans in landform management.

*521/30000 character limit.*

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

09/17/2021

**Current Status:**

College Council Review

**Proposal Progress:**

10/20/2021 - 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 549/649: SUSTAINABLE LANDFORM MANAGEMENT
SPRING 2022 CREDIT HOURS 3.0

**Provisional:** The policy statement is subject to change as necessary

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Class Time and Location: Mondays and Wednesdays: 1:25 PM – 2:50 PM; Temp 0345
Professor: Dr. Tasnuba Jerin
Office: Temple Hall 321
Office hours: Mondays and Wednesdays 11:30 – 12:30
Email: TasnubaJerin@missouristate.edu

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## Course Information

**Catalog Description**: **GRY 549/649—Sustainable Landform Management. 3(3-0) F, S.**

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.

## Textbook and Readings

No assigned textbook. You can take any 'Landform' related textbook and review other textbooks to help your learning in this course (see examples below). There will be additional and/or optional readings in this course to support lecture topics.

1. Gregory, Kenneth J., and Andrew S. Goudie, eds. The SAGE handbook of geomorphology. Sage Publications, 2011. ISBN:10: 1412929059
2. Goudie, Andrew S., and Heather A. Viles. Geomorphology in the Anthropocene. Cambridge University Press, 2016. ISBN: 9781107139961
3. Huggett, Richard John. Fundamentals of geomorphology. Routledge, 2016. ISBN: 9781315674179
4. Heathcote, Isobel W. Integrated watershed management: principles and practice. John Wiley & Sons, 2009. ISBN: 978-0-470-37625-6

## Course Objectives

The origin, composition, spatial distribution, and processes of development of landforms integrating management practices and the concept of "sustainability" are explored in this course. This course concentrates on the formative processes of landforms, such as weathering, mass movement, erosion and deposition caused by water and ice, of landform development with an emphasis on how this knowledge can be applied to landform management. The role of humans as a geomorphic agent in the 21st century is emphasized in this course. Further, the need for a

*sustainable* approach towards landform management is underscored particularly in the Anthropocene when human activities have dominant influence on the climate and environment.

**Attendance Policy**

Attendance is crucial to be successful in this course. If an absence occurs, it is the student's responsibility to get the class notes from another student. No make-up labs or exams will be given for unexcused absences and a student will receive a grade of "0%" for missed work. Reasonable accommodation will be made for those students whose absence from class resulted from: 1) participation in University-sanctioned activities and programs; 2) personal illness; or 3) family and/or other compelling circumstances.

**Grading Policy**

Your final grade will be a result of the followings:

| **Assignment** | **Weight** (For undergraduate students; GRY 597) | **Weight** (For graduate students; GRY 697) |
|---|---|---|
| In-class assignments/ Lab Exercises | 35% | 25% |
| Test 1 | 15% | 15% |
| Test 2 | 15% | 15% |
| Final Exam -Research Project Presentation | 10% | 10% |
| Field Trip | 5% | 5% |
| Research Project Paper | 20% | 30% |

**Course Requirements/Description of Assignments**

**1. In-class assignments/ Lab exercises**

In-class assignments/lab exercises will be completed during class time, as homework, and based on reading assignments and field trips. Sometimes students will work in groups. It is expected that students have access to and are able to use Excel software to complete spreadsheet calculations, make graphs, and perform simple trend-line analyses.

**2. Tests**

- This course has two tests (Test 1 and Test 2); each accounts for 15% of the total grade.
- Both tests will be held in-class during class period.
- Graduate students will have to answer additional questions for the tests.

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.

**3. Research Project**

The project must involve data collected from the field trip (supporting secondary and geospatial data can be included) and carry out analysis on landform processes and distribution integrating management practices from the perspective of sustainability. The organization of the research report must follow the traditional scientific outline using sub-headings as follows: (1) Title; (2) Abstract; (3) Introduction with purpose and objectives; (4) Previous work; (5) Study area

description with appropriate map; (6) Results with at least 1 table and 2 figures/graphs; (7) Discussion; (8) Conclusions; and (9) Literature cited.

*For the undergraduate students (GRY 597)*: You need to reference at least 5 journal articles that provide background and insight to better understand the importance and conclusions of your study. The report will be typed in 12 font size with 1.5-line spacing and range in length from 8 to10 pages of text. The page limit does not include required tables, figures, maps, and literature cited section.

*For the graduate students (GRY 697):* You need to reference at least 15 journal articles that provide background and insight to better understand the importance and conclusions of your study. The report will be typed in 12 font size with 1.5-line spacing and range in length from 12 to 20 pages of text. The page limit does not include required tables, figures, maps, and literature cited section.

**4. Final Exam**

Group Project and Presentation: Each group will create and present a slide show that describes the application of sustainability concepts to understand and manage landforms in the Springfield, Missouri area. This can be based on a topic supported by the data collected from the field work of this course or based on any topic you select. All presentations will be given during the final exam period of the course.

**Course Schedule**

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

**Viewing Grades**

Grades will be available on Blackboard. All grades will be posted 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%

| ***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**
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. 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.

**Course Schedule**

| Date | | Day | Subject, Activities and Assignments |
|---|---|---|---|
| Jan | 19 | Wednesday | Introduction to the course, Landforms and Sustainability<br>Theories and Concepts |
| Jan | 24 | Monday | Anthropogenic Drivers of Landform Change |
| Jan | 26 | Wednesday | Principles of Sustainability<br>Assignment 1: Paper discussion |
| Feb | 31 | Monday | Watershed I |
| Feb | 2 | Wednesday | Assignment 2: Paper discussion |
| Feb | 7 | Monday | Watershed II |
| Feb | 9 | Wednesday | Assignment 3: Detention Basin Project at MSU |
| Feb | 14 | Monday | River channels and floodplain |
| Feb | 16 | Wednesday | |
| Feb | 21 | Monday | Presidents' Day Holiday (No Classes, Offices Closed) |
| Feb | 23 | Wednesday | River channels and floodplain |
| Feb | 28 | Monday | No Class – Conference |
| Mar | 2 | Wednesday | River channels and floodplain<br>Assignment 4: Flood analysis |
| Mar | 7 | Monday | Test 1 |
| Mar | 9 | Wednesday | Climate Change and Watershed<br>Assignment 5: Paper/Report discussion |
| Mar | 14 | Monday | No Classes |
| Mar | 16 | Wednesday | Spring Break |
| Mar | 21 | Monday | Biogeomorphology |
| Mar | 23 | Wednesday | Assignment 6: Paper discussion |
| Mar | 28 | Monday | Integrated Watershed Management and Sustainability<br>Assignment 7: Paper discussion |
| Mar | 30 | Wednesday | Watershed: Field Data Analysis and discussion |
| Apr | 4 | Monday | Hill slope, Mass wasting and subsidence I |
| Apr | 6 | Wednesday | |
| Apr | 11 | Monday | Hill slope, Mass wasting and subsidence II |
| Apr | 13 | Wednesday | Assignment 8: Angle of Repose Lab |
| Apr | 18 | Monday | Landform and Regolith |
| Apr | 20 | Wednesday | Assignment 9: Paper/Report discussion |
| Apr | 25 | Monday | Coastal |
| Apr | 27 | Wednesday | Assignment 10: Paper discussion |
| May | 2 | Monday | Cryosphere<br>Assignment 11: Paper discussion |
| May | 4 | Wednesday | Test 2 |
| May | 9 | Monday | Work on Research Project |
| May | 11 | Wednesday | No class |
| May | 18 | Wednesday | FINAL EXAM; 11:00 am to 1:00 pm |

Missouri State

# Curricular Action Workflow

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# Change Course Proposal Form

**Submitted on 10/20/2021 by La Toya Kissoon-Charles (LKissoon@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:

BIO629 Phycology

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

BIO530 Phycology

How do these classes differ?

Students enrolled in BIO 629 will be required to complete a literature review to be included in a proposal recommending native aquatic plants for a constructed floating wetland that is intended to reduce nutrient levels and algae growth in an urban pond. Students enrolled in BIO 530 are not required to submit this written proposal.

Current online catalog description:

BIO 629 Phycology

Recommended Prerequisite: ecology course. The structure, function, ecological significance, and diversity of algae. Emphasis will be placed on field studies, isolation and growth, and physiological characteristics. May be taught concurrently with BIO 530. Cannot receive credit for both BIO 530 and BIO 629. 3(2-2) 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.)

BIO 629 ~~Phycology~~ **Aquatic Botany**

Recommended Prerequisite: ~~ecology course~~ **introductory biology sequence**. The structure, function, ecological significance, and diversity of algae **and plants that occur in permanently or seasonally wet environments.** Emphasis will be placed on ~~field studies, isolation and growth, and physiological characteristics~~ **their role in aquatic systems, strategies for coping in their watery environments, physiological characteristics, and control methods.** May be taught concurrently with BIO 530. Cannot receive credit for both BIO 530 and BIO 629. 3(2-2) S

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What is changing? Check all boxes that apply.

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

Reason for proposed change

The proposed change allows the biology department to provide students with an algae and aquatic plants course. I have been teaching an aquatic plants course as a variable content course (BIO 597/697 Introduction to Wetland Plants) with the pre-requisite as BIO 122. This pre-requisite seemed to be sufficient and this is the same prerequisite for some other plant biology courses offered (BIO 334, 339, 534).
Student feedback from the Introduction to Wetland Plants course was positive. Several students indicated that a wetland/aquatic plants course should be offered regularly and this course should include some phycology.
The proposed change will give the course more visibility and allow the department to offer another plant biology option for our biology majors, especially our Wildlife and Fisheries students on a regular basis.

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

Explain.

In addition to algae, students will also learn about aquatic plants. There will be focus on students applying what they learn about the structure and function of these organisms to identify control methods for their growth and to also identify how they can be used to improve the water quality of an urban pond.

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) 09/17/2021

**Current Status:**

Dean Review

**Proposal Progress:**

10/22/2021 - Submitted by Department Head (S Mathis)

**Review Comments:**

10/22/2021 - Department Head Review - S Mathis - The cange to the parallel undergrad class has also been submitted.

No review notes have been added.

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# Curricular Action Workflow

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# Change Course Proposal Form

**Submitted on 10/22/2021 by Keiichi Yoshimatsu (KYoshimatsu@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:

CHM603 Instrumental Analysis 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

Enter parallel course number

CHM503 Instrumental Analysis Laboratory

How do these classes differ?

CHM 503 is an undergraduate course that covers most contents that are taught in CHM 603. Meanwhile, CHM 603 includes several additional assignments that are appropriate for graduate students.
CHM 503 is typically taught concurrently with CHM 603.

Current online catalog description:

CHM 603 Instrumental Analysis Laboratory

Prerequisite: Prerequisite: "C-" or better in CHM 302; and "C-" or better in CHM 502 or CHM 602 or concurrent enrollment. A laboratory course emphasizing applications of instrumental methods for the separation and analysis of materials. The course is designed to reflect and supplement the scope of CHM 602. Included are laboratory exercises in potentiometry, spectrophotometry, and chromatography. May be taught concurrently with CHM 503. Cannot receive credit for both CHM 503 and CHM 603. 1(0-3) 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.)

CHM 603 Instrumental Analysis Laboratory

Prerequisite: Prerequisite: "C-" or better in CHM 302; and "C-" or better in CHM 502 or CHM 602 or concurrent enrollment. A laboratory course emphasizing applications of instrumental methods for the separation and analysis of materials. The course is designed to reflect and supplement the scope of CHM 602. Included are laboratory exercises in potentiometry, spectrophotometry, and chromatography. May be taught concurrently with CHM 503. Cannot receive credit for both CHM 503 and CHM 603. ~~1(0-3)~~**2**(**1**-**2**) F

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What is changing? Check all boxes that apply.

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

Reason for proposed change

To provide an improved learning experience for students by increasing the effective 'hands-on' lab hours, at which the individual students can work on instruments, through a format change to offer the course in smaller sections (6 students/section) along with the addition of pre-lab modules.
The pre-lab modules allow for enhancing students' preparation for experimental work and increase their understanding of the data analysis. Since extensive data analysis and detailed reporting is essential for establishing the good understanding of instrumental analysis, addition of 1 cr hr worth of Pre-lab module would be appropriate.

Based on the feedback from exit interviews, students appreciate the hands-on experience that the lab provides. However, a good number of recent graduates expressed their wishes to have more time to work with instruments.

Overall, the credit hour change is necessary in order to respond to the students' inputs and the large benefits for our student justify this proposed change.

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) 10/21/2021

**Current Status:**

Grad Council Review

**Proposal Progress:**

10/22/2021 - Submitted by Department Head (Adam Wanekaya)

10/22/2021 - Reviewed by Dean (Tamera Jahnke)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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# Curricular Action Workflow



# Change Program Proposal Form

**Submitted on 10/21/2021 by Krista Evans (KristaEvans@MissouriState.edu).**

**Department:**

Geography, Geology, & Planning

**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:**

Planning and Development-Graduate 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)*

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*Attached* View Attachment

**What is changing? Check all boxes that apply:**

- [ ] Title change
- [ ] Adding option to an existing program (major)
- [x] Deleting option from an existing program (major)
- [ ] Adding existing course(s) totaling 0 credits
- [ ] Adding newly created course(s) totaling 0 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

**Reason for Proposed Change:**

PLN 676 will be eliminated from the Planning program at this time due to faculty retirement.

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

09/20/2021

**Current Status:**

Grad Council Review

**Proposal Progress:**

10/21/2021 - Submitted by Department Head (Toby Dogwiler)

10/22/2021 - Reviewed by Dean (Tamera Jahnke)

**Review Comments:**

10/21/2021 - Department Head Review - Toby Dogwiler - Although we are dropping PLN 676 from the requirements for the certificate we are not deleting the course. We will continue to teach the course as an elective within the program as staffing resources allow. However, since we cannot teach PLN 676 regularly we feel removing it from the certificate options will lead to less confusion among students as they plan their programs of study.

No review notes have been added.

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## Program description

This certificate program is designed to provide graduate-level education in Community and Regional. It is anticipated that this program would be attractive to students in other MSU graduate programs in the sciences and social sciences as well as working professionals. Planning concepts and theory are especially useful for students pursuing degrees in Public Administration, Political Science, and Geospatial Sciences. The Community and Regional Planning certificate program emphasizes concepts and theories surrounding land use assessment, urban design, neighborhood planning, transportation planning, and tourism and planning and development.

## Admission criteria

The Community and Regional Planning Certificate program is open to all persons holding a BS, BA, MS, or PhD degree. Students must, of course, satisfy all prerequisites for any courses they take in the program; or they must obtain instructor approval to waive specific prerequisites. Once admitted to the program, the student must take a minimum of four courses as designated and approved by the program coordinator and must have an average cumulative grade point average of 3.00 or better to receive the certificate.

## Completion requirements

Students must have an overall grade point average of 3.00 for completion of the certificate program.

## Required Courses (13 hours)

| Course Code | Course Title | Credit Hours |
|---|---|---|
| PLN 671 | Land Use Planning | 3 hrs |
| PLN 676<br>OR<br>PLN 672 | Site Planning and Design Studio<br>OR<br>Community Planning Practicum | 4 hrs |
| Six hours from PLN courses above 600 or 700 level. | | 6 hrs |

Other courses approved by the program coordinator may be substituted for any of the above listed courses on a case-by-case basis. The certificate program coordinator must approve the substitution prior to enrolling in any course.

## Program description

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| Course Code | Course Title | Credit Hours |
|---|---|---|
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| ~~PLN 676~~<br>~~OR~~<br>PLN 672 | ~~Site Planning and Design Studio~~<br>~~OR~~<br>Community Planning Practicum | 4 hrs |
| Six hours from PLN courses above 600 or 700 level. | | 6 hrs |

Other courses approved by the program coordinator may be substituted for any of the above listed courses on a case-by-case basis. The certificate program coordinator must approve the substitution prior to enrolling in any course.

Missouri State

# Curricular Action Workflow



# Change Program Proposal Form

**Submitted on 10/22/2021 by David Perkins (DavidPerkins@MissouriState.edu).**

**Department:**

Geography, Geology, & Planning

**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:**

Sustainability-Graduate 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)*

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 0 credits
- [ ] Adding newly created course(s) totaling 0 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
- [x] Other

Updating the number and title of GRY 708 Philosophy of Sustainability to its proposed new number and title of GRY 608 Philosophy of Geosustainability

**Reason for Proposed Change:**

GRY 708 is being changed to GRY 608. This is an update to reflect that course change in the certificate

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

10/20/2021

**Current Status:**

Dean Review

**Proposal Progress:**

10/22/2021 - 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

Program description

Sustainability initiatives are becoming ubiquitous in society today for many corporations and government agencies at both national and international scales. The purpose of this graduate-level certificate is to provide an opportunity for either existing professionals or emerging professionals to grasp the multidisciplinary nature of sustainability as both a theoretical and applied field. A single required course, GRY 708 serves as the foundation for philosophical thought and the history of sustainability as it has evolved to what it is in today's world. The equal focus on economics, environment, and society, grounds the student in a balanced analysis and application of the ideas of sustainability across different Missouri State University departments. In total, the student should emerge from the certificate program with a renewed and more complete understanding of sustainability. This should assist them in their future development whether it is moving to further graduate work or giving them the skills they can apply in their existing careers.

Admission requirements

All Missouri State University requirements granting admission to graduate certificate programs.

Certificate course requirements (12 hrs)

| Course Code | Course Title | Credit Hours |
|---|---|---|
| GRY 708 | Philosophy of Sustainability | 3 hrs |
| Select One Course from Economics Pillar | | 3 hrs |
| MGT 747 | International Management | |
| ECO 620 | History of Economic Thought | |
| ECO 640 | Economics of the Environment | |
| GRY 610 | Applications in Sustainable Geo-tourism | |
| Select one course from Environmental Pillar | | 3 hrs |
| GRY 645 | Global Environmental Change | |
| GRY 731 | Environmental Assessment | |
| BIO 602 | Sustainability Research in Practice | |
| Select one course from Society Pillar | | 3 hrs |

ANT 645 Cultural Resource Management

PLN 605 Social Planning

LAW 637 Environmental Regulations

PLS 673 Policy Analysis

PLS 763 The Policy Process

Certificate requirements

Students must have an overall GPA of 3.00 for completion of the program.

Program description

Sustainability initiatives are becoming ubiquitous in society today for many corporations and government agencies at both national and international scales. The purpose of this graduate-level certificate is to provide an opportunity for either existing professionals or emerging professionals to grasp the multidisciplinary nature of sustainability as both a theoretical and applied field. A single required course, GRY ~~708~~ **608** serves as the foundation for philosophical thought and the history of sustainability as it has evolved to what it is in today's world. The equal focus on economics, environment, and society, grounds the student in a balanced analysis and application of the ideas of sustainability across different Missouri State University departments. In total, the student should emerge from the certificate program with a renewed and more complete understanding of sustainability. This should assist them in their future development whether it is moving to further graduate work or giving them the skills they can apply in their existing careers.

Admission requirements

All Missouri State University requirements granting admission to graduate certificate programs.

Certificate course requirements (12 hrs)

| Course Code | Course Title | Credit Hours |
|---|---|---|
| GRY ~~708~~ **608** | Philosophy of **Geosustainability** ~~Sustainability~~ | 3 hrs |

| Select One Course from Economics Pillar | | 3 hrs |
|---|---|---|
| MGT 747 | International Management | |
| ECO 620 | History of Economic Thought | |
| ECO 640 | Economics of the Environment | |
| GRY 610 | Applications in Sustainable Geo-tourism | |

| Select one course from Environmental Pillar | | 3 hrs |
|---|---|---|
| GRY 645 | Global Environmental Change | |
| GRY 731 | Environmental Assessment | |
| BIO 602 | Sustainability Research in Practice | |

Select one course from Society Pillar 3 hrs

| | |
|---|---|
| ANT 645 | Cultural Resource Management |
| PLN 605 | Social Planning |
| LAW 637 | Environmental Regulations |
| PLS 673 | Policy Analysis |
| PLS 763 | The Policy Process |

Certificate requirements

Students must have an overall GPA of 3.00 for completion of the program.

Missouri State

# Curricular Action Workflow

designed by Computer Ser



# Change Course Proposal Form

**Submitted on 10/22/2021 by David Perkins (DavidPerkins@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:

GRY708 The Philosophy of Sustainability

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 708 The Philosophy of Sustainability

This discussion and inquiry-based course provides students increased understanding in the historical and philosophical underpinnings of sustainability. Emphasis is placed evenly on social, economic and environmental factors and how they all contribute to present-day applications of sustainability in varying contexts such as policy, business, and development. Special emphasis is placed on how sustainability intersects with conservation, preservation, economic and social development, and the United Nations Sustainable Development Goals (SDGs). 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.)

GRY ~~708~~ **608** The Philosophy of ~~Sustainability~~ **Geosustainability**

This discussion and inquiry-based course provides students increased understanding in the historical and philosophical underpinnings of sustainability. Emphasis is placed evenly on social, economic and environmental factors and how they all contribute to present-day applications of sustainability in varying contexts such as policy, business, and development. Special emphasis is placed on how sustainability intersects with conservation, preservation, economic and social development, and the United Nations Sustainable Development Goals (SDGs). 3(3-0) 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
- [ ] Description

Reason for proposed change

The course number was changed to allow for cross-listing which will necessitate some slight adaptation of the content to the mixed audience. The reduction in course number will also increase the perception among graduate students from other departments that the course is accessible to them. The course title was changed to clarify its emphasis on both geography and sustainability.

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
- [x] Other (be specific): This change is congruent with the simultaneous program changes submitted for the geography major.
- [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) 10/20/2021

**Current Status:**
Dean Review

**Proposal Progress:**
10/22/2021 - Submitted by Department Head (Toby Dogwiler)

**Review Comments:**
No comments have been added to this proposal.

No review notes have been added.

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Missouri State

# Curricular Action Workflow



# New Course Proposal Form

**Submitted on 10/20/2021 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) 649

Course Title: Sustainable Landform Management

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.)

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.

*363/30000 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.

| | | |
|---|---|---|
| ☐ 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 649 Sustainable Landform Management
Prerequisite: None
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.
Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0
Typically offered: Spring (even-numbered years only)

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

*0/30000 character limit.*
*Attached* View Attachment

Purpose of Course

This course will enhance the sustainability focus within the Geography program by examining the role that humans play in shaping the Earth and managing our landscape processes. As such, the origin, composition, spatial distribution, and processes of development of landforms integrating management practices and the concept of “sustainability” will be explored in this course. This course will concentrate on the formative processes of landforms, such as weathering, mass movement, erosion and deposition caused by water and ice, of landform development with an emphasis on how this knowledge can be applied to landform management. The role of humans as a geomorphic agent in the 21st century will be emphasized in this course. Further, the need for a sustainable approach towards landform management will be underscored particularly in the Anthropocene when human activities have dominant influence on the climate and environment.

*932/30000 character limit.*

Relationship to Other Departments

This course may appeal to students in other departments, such as Archeology, Agriculture, and Biology. However, we anticipate its primary audience will be geography and geology majors.

*187/30000 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: | 15 | Maximum Enrollment Limit per section: | 20 |
| Anticipated Average Enrollment per semester: | 15 | Maximum Enrollment Limit per semester: | 20 |
| Anticipated Average Enrollment per year: | 15 | Maximum Enrollment Limit per year: | 20 |
| Faculty Load Assignment (equated hours): | 3 | | |

Is another course being deleted? ◉ No ○ Yes

Select course number and title being deleted.

nullnull null

**What will this course require in the way of:**

Additional library Holdings

No

*2/30000 character limit.*

Additional computer resources

No

*2/30000 character limit.*

Additional or remodeled facilities

No

*2/30000 character limit.*

Additional equipment or supplies

No

*2/30000 character limit.*

Additional travel funds

No

*2/30000 character limit.*

Additional faculty; general vs specialized

No

*2/30000 character limit.*

Additional faculty; regular vs per-course

No

*2/30000 character limit.*

Other additional expenses

None

*4/30000 character limit.*

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

The course will be taught by an existing newly hired faculty member.  GRY 348 will be taught less frequently.

*109/30000 character limit.*

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

Tasnuba Jerin
Robert Pavlowsky
Toby Dogwiler

*45/30000 character limit.*

What is the anticipated source of students for this course?

Geography Majors and Geology Majors

*35/30000 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 be an elective within the geography majors. It will be one of several options the students may take.

*117/30000 character limit.*

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

Not applicable

*14/30000 character limit.*

Other comments:

This course proposal is being submitted along with a revision of the geography major curriculum. The new geography curriculum emphasizes sustainability concepts inherent in the scholarly framework of geography. This course is being developed to complement this new focus within our curriculum by taking a traditional geography course topic (i.e., Landscape Processes) and refocusing the topic within the lens of Sustainability by emphasizing both the processes and the concurrent role of humans in landform management.

*521/30000 character limit.*

What is the date that this new course was approved by departmental or program faculty? (MM/DD/YYYY) 09/17/2021

**Current Status:**

Grad Council Review

**Proposal Progress:**

10/20/2021 - Submitted by Department Head (Toby Dogwiler)

10/22/2021 - Reviewed by Dean (Tamera Jahnke)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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MAKE YOUR MENT

# GRY 549/649: SUSTAINABLE LANDFORM MANAGEMENT
SPRING 2022 CREDIT HOURS 3.0

**Provisional:** The policy statement is subject to change as necessary

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Class Time and Location: Mondays and Wednesdays: 1:25 PM – 2:50 PM; Temp 0345
Professor: Dr. Tasnuba Jerin
Office: Temple Hall 321
Office hours: Mondays and Wednesdays 11:30 – 12:30
Email: TasnubaJerin@missouristate.edu

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## Course Information

**Catalog Description**: **GRY 549/649—Sustainable Landform Management. 3(3-0) F, S.**

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.

## Textbook and Readings

No assigned textbook. You can take any 'Landform' related textbook and review other textbooks to help your learning in this course (see examples below). There will be additional and/or optional readings in this course to support lecture topics.

1. Gregory, Kenneth J., and Andrew S. Goudie, eds. The SAGE handbook of geomorphology. Sage Publications, 2011. ISBN:10: 1412929059
2. Goudie, Andrew S., and Heather A. Viles. Geomorphology in the Anthropocene. Cambridge University Press, 2016. ISBN: 9781107139961
3. Huggett, Richard John. Fundamentals of geomorphology. Routledge, 2016. ISBN: 9781315674179
4. Heathcote, Isobel W. Integrated watershed management: principles and practice. John Wiley & Sons, 2009. ISBN: 978-0-470-37625-6

## Course Objectives

The origin, composition, spatial distribution, and processes of development of landforms integrating management practices and the concept of "sustainability" are explored in this course. This course concentrates on the formative processes of landforms, such as weathering, mass movement, erosion and deposition caused by water and ice, of landform development with an emphasis on how this knowledge can be applied to landform management. The role of humans as a geomorphic agent in the 21st century is emphasized in this course. Further, the need for a

*sustainable* approach towards landform management is underscored particularly in the Anthropocene when human activities have dominant influence on the climate and environment.

**Attendance Policy**

Attendance is crucial to be successful in this course. If an absence occurs, it is the student's responsibility to get the class notes from another student. No make-up labs or exams will be given for unexcused absences and a student will receive a grade of "0%" for missed work. Reasonable accommodation will be made for those students whose absence from class resulted from: 1) participation in University-sanctioned activities and programs; 2) personal illness; or 3) family and/or other compelling circumstances.

**Grading Policy**

Your final grade will be a result of the followings:

| **Assignment** | **Weight** (For undergraduate students; GRY 597) | **Weight** (For graduate students; GRY 697) |
|---|---|---|
| In-class assignments/ Lab Exercises | 35% | 25% |
| Test 1 | 15% | 15% |
| Test 2 | 15% | 15% |
| Final Exam -Research Project Presentation | 10% | 10% |
| Field Trip | 5% | 5% |
| Research Project Paper | 20% | 30% |

**Course Requirements/Description of Assignments**

**1. In-class assignments/ Lab exercises**

In-class assignments/lab exercises will be completed during class time, as homework, and based on reading assignments and field trips. Sometimes students will work in groups. It is expected that students have access to and are able to use Excel software to complete spreadsheet calculations, make graphs, and perform simple trend-line analyses.

**2. Tests**

- This course has two tests (Test 1 and Test 2); each accounts for 15% of the total grade.
- Both tests will be held in-class during class period.
- Graduate students will have to answer additional questions for the tests.

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.

**3. Research Project**

The project must involve data collected from the field trip (supporting secondary and geospatial data can be included) and carry out analysis on landform processes and distribution integrating management practices from the perspective of sustainability. The organization of the research report must follow the traditional scientific outline using sub-headings as follows: (1) Title; (2) Abstract; (3) Introduction with purpose and objectives; (4) Previous work; (5) Study area

description with appropriate map; (6) Results with at least 1 table and 2 figures/graphs; (7) Discussion; (8) Conclusions; and (9) Literature cited.

*For the undergraduate students (GRY 597)*: You need to reference at least 5 journal articles that provide background and insight to better understand the importance and conclusions of your study. The report will be typed in 12 font size with 1.5-line spacing and range in length from 8 to10 pages of text. The page limit does not include required tables, figures, maps, and literature cited section.

*For the graduate students (GRY 697):* You need to reference at least 15 journal articles that provide background and insight to better understand the importance and conclusions of your study. The report will be typed in 12 font size with 1.5-line spacing and range in length from 12 to 20 pages of text. The page limit does not include required tables, figures, maps, and literature cited section.

**4. Final Exam**

Group Project and Presentation: Each group will create and present a slide show that describes the application of sustainability concepts to understand and manage landforms in the Springfield, Missouri area. This can be based on a topic supported by the data collected from the field work of this course or based on any topic you select. All presentations will be given during the final exam period of the course.

**Course Schedule**

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

**Viewing Grades**

Grades will be available on Blackboard. All grades will be posted 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%

| ***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**
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. 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.

**Course Schedule**

| Date | | Day | Subject, Activities and Assignments |
|---|---|---|---|
| Jan | 19 | Wednesday | Introduction to the course, Landforms and Sustainability<br>Theories and Concepts |
| Jan | 24 | Monday | Anthropogenic Drivers of Landform Change |
| Jan | 26 | Wednesday | Principles of Sustainability<br>Assignment 1: Paper discussion |
| Feb | 31 | Monday | Watershed I |
| Feb | 2 | Wednesday | Assignment 2: Paper discussion |
| Feb | 7 | Monday | Watershed II |
| Feb | 9 | Wednesday | Assignment 3: Detention Basin Project at MSU |
| Feb | 14 | Monday | River channels and floodplain |
| Feb | 16 | Wednesday | |
| Feb | 21 | Monday | Presidents' Day Holiday (No Classes, Offices Closed) |
| Feb | 23 | Wednesday | River channels and floodplain |
| Feb | 28 | Monday | No Class – Conference |
| Mar | 2 | Wednesday | River channels and floodplain<br>Assignment 4: Flood analysis |
| Mar | 7 | Monday | Test 1 |
| Mar | 9 | Wednesday | Climate Change and Watershed<br>Assignment 5: Paper/Report discussion |
| Mar | 14 | Monday | No Classes |
| Mar | 16 | Wednesday | Spring Break |
| Mar | 21 | Monday | Biogeomorphology |
| Mar | 23 | Wednesday | Assignment 6: Paper discussion |
| Mar | 28 | Monday | Integrated Watershed Management and Sustainability<br>Assignment 7: Paper discussion |
| Mar | 30 | Wednesday | Watershed: Field Data Analysis and discussion |
| Apr | 4 | Monday | Hill slope, Mass wasting and subsidence I |
| Apr | 6 | Wednesday | |
| Apr | 11 | Monday | Hill slope, Mass wasting and subsidence II |
| Apr | 13 | Wednesday | Assignment 8: Angle of Repose Lab |
| Apr | 18 | Monday | Landform and Regolith |
| Apr | 20 | Wednesday | Assignment 9: Paper/Report discussion |
| Apr | 25 | Monday | Coastal |
| Apr | 27 | Wednesday | Assignment 10: Paper discussion |
| May | 2 | Monday | Cryosphere<br>Assignment 11: Paper discussion |
| May | 4 | Wednesday | Test 2 |
| May | 9 | Monday | Work on Research Project |
| May | 11 | Wednesday | No class |
| May | 18 | Wednesday | FINAL EXAM; 11:00 am to 1:00 pm |