

CNAS College Council January 2025

Committee College of Natural and Applied Sciences College Council

Notes

Total Proposals 17

BIO - 121 - General Biology I

2025-2026 UG Course Change Form

General Catalog Information

Instructions

Complete Proposal Form

Complete all required fields, marked with an *.

Do not change the academic unit field.

Edit fields that need update by clicking on the text in the field. If a required field does not need to change, no need to update.

Generate the **Impact Report** by clicking *Run Impact Report* at the top of the page, select the UG catalog map, and copy the results into the space provided on the form. **This is required.**

Complete the *Acknowledgement* section.

Launch Proposal

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Academic Unit:*

Department of Biology

Course Code:*

BIO

Course Number: * 121

Course Title: * General Biology I

Prerequisite:

Corequisite:

Recommended Prerequisite:

Credit Hours: * 4

Lecture Contact Hours: 3

Lab Contact Hours: 3

If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.

Type (Lecture/Lab/Other)* Lecture
 Lab
 Both
 Other

Grade Mode* Letter Grades (Standard)
 Pass Not Pass ONLY
 CANNOT Pass Not Pass

Check all periodicity that applies.* Fall
 Fall Even
 Fall Odd
 Spring
 Spring Even
 Spring Odd
 Summer
 Demand

Course Description:* First half of two-semester introductory biology sequence for biology majors and minors. Introduction to the concepts of biological structure and function at the molecular and cellular level, genetics, and evolution. Cannot be taken Pass/Not Pass.

Is there a graduate parallel course to this one? No

Rationale

Why is this course changing?* As a department, we have decided it is best to remove the English pre-requisite for the course as we do not feel it is an indicator of a student's ability to be successful in the course.

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

If yes, explain:

How was the change for this course determined?*

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

Other comments:

What is the date that this course change was approved by departmental or program faculty?* 11/01/2024

Acknowledgements and Attachments

IMPACT REPORT STATEMENT

At the top of the page, click on *Run Impact Report*. Copy the results of the Impact Report and paste them into the space below.

Impact Report Results:*

Impact Report for BIO 121

There are no results for this report.

Acknowledgement Statement* I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 47317

Catalog Status Active-Visible
 Inactive-Hidden

Disposition Information

- Effective Term**
- Fall
 - Spring
 - Summer

Implementation Notes

Degree Audit Notes

- Grade Mode for Catalog**
- Standard
 - Pass/Not Pass

- Schedule Type for Catalog**
- Combination Lecture and Lab
 - Lab
 - Lecture

- Course Type**
- Biology

BIO - 122 - General Biology II

2025-2026 UG Course Change Form

General Catalog Information

Instructions

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Academic Unit:*

Department of Biology

Course Code:*

BIO

Course Number:*

122

Course Title:*

General Biology II

Prerequisite:

Corequisite:

Recommended Prerequisite:

[BIO 121](#)

Credit Hours:*

4

Lecture Contact Hours:

3

Lab Contact Hours:

3

If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.

Type (Lecture/Lab/Other)*

- Lecture
 Lab
 Both
 Other

Grade Mode*

Letter Grades (Standard)

- Pass Not Pass ONLY
- CANNOT Pass Not Pass

Check all periodicity that applies.*

- Fall
- Fall Even
- Fall Odd
- Spring
- Spring Even
- Spring Odd
- Summer
- Demand

Course Description:*

Second half of two-semester introductory biology sequence for biology majors and minors. Introduction to the biology of organisms including evolutionary history, diversity, structure, and function of major taxa; and ecology. Cannot be taken Pass/Not Pass.

Is there a graduate parallel course to this one? NO

Rationale

Why is this course changing?*

As a department, we have decided it is best to remove the English pre-requisite for the course as we do not feel it is an indicator of a student's ability to be successful in the course.

Does this change affect course assessment (e.g. student learning evidence / outcomes)?*

- Yes
- No

If yes, explain:

How was the change for this course determined?*

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

Other comments:

What is the date that this course change was approved by departmental or program faculty?* 11/01/2024

Acknowledgements and Attachments

IMPACT REPORT STATEMENT

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Impact Report Results:*

Impact Report for BIO 122

There are no results for this report.

Acknowledgement Statement*

- I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 47843

Catalog Status

- Active-Visible
- Inactive-Hidden

Disposition Information

Effective Term

- Fall
- Spring
- Summer

Implementation Notes

Degree Audit Notes

Grade Mode for Catalog

- Standard
- Pass/Not Pass

Schedule Type for Catalog

Combination Lecture and Lab Lab Lecture

Course Type

Biology

BIO - 561 - Environmental Issues Education and Interpretation

2025-2026 UG Course Change Form

General Catalog Information

Instructions

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Academic Unit:*

Department of Biology

Course Code:*

BIO

Course Number:*

561

Course Title:*

Environmental Issues Education and Interpretation

Prerequisite:

None.

Corequisite:

Recommended Prerequisite:

Credit Hours:*

2

Lecture Contact Hours:

1

Lab Contact Hours:

2

If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.

Type (Lecture/Lab/Other)*

- Lecture
 Lab
 Both
 Other

Grade Mode*

Letter Grades (Standard)

- Pass Not Pass ONLY
- CANNOT Pass Not Pass

Check all periodicity that applies.*

- Fall
- Fall Even
- Fall Odd
- Spring
- Spring Even
- Spring Odd
- Summer
- Demand

Course Description:*

Discuss environmental issues, practical experiences in teaching environmental concepts, and awareness of environmental resource materials for formal and nonformal educational settings. May be taught concurrently with BIO 661, GRY 572, or GRY 672. Can not receive credit for BIO 561 and BIO 661, GRY 572 or GRY 672. Public Affairs Capstone Experience course.

Is there a graduate parallel course to this one?

BIO 661 and GRY 672

Rationale

Why is this course changing?*

Adding cross-listed undergraduate and graduate courses in Geography. Periodicity is now Fall semester. Instructor permission is no longer required. Increased class size to 15.

New faculty is now teaching the course and is more open to teaching the course more often. Cross-listing course will allow tourism and sustainability majors and minors to include this course in their program.

Does this change affect course assessment (e.g. student learning evidence / outcomes)?*

- Yes
- No

If yes, explain:

How was the change for this course determined?*

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

Other comments:

New faculty is now teaching the course and is more open to teaching the course more often. Cross-listing course will allow tourism and sustainability majors and minors to include this course in their program.

What is the date that this course change was approved by departmental or program faculty?*

11/01/2024

Acknowledgements and Attachments

IMPACT REPORT STATEMENT

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Impact Report Results:*

Source: 2025-2026 Undergraduate Catalog	
Description	BIO 561 - Environmental Issues Education and Interpretation
Programs	Biology (Comprehensive) (BS)
	Biology (Non-Comprehensive) (BA)
	Biology (Non-Comprehensive) (BS)
	Conservation Law Enforcement Certificate
	Environmental Education Certificate
	Museum Studies Minor

Acknowledgement Statement*

- I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 47828

Catalog Status Active-Visible

Inactive-Hidden

Disposition Information

Effective Term Fall
 Spring
 Summer

Implementation Notes

Degree Audit Notes

Grade Mode for Catalog Standard
 Pass/Not Pass

Schedule Type for Catalog Combination Lecture and Lab Lab Lecture

Course Type Biology

CSC - 301 - Introduction to Video Game Design

2025-2026 UG Course Change Form

General Catalog Information

Instructions

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Academic Unit:*

Department of Computer Science

Course Code:*

CSC

Course Number:*

301

Course Title:*

Introduction to Video Game Design

Prerequisite:

30 hours; and eligible for Writing II; and permission of instructor.

Corequisite:

Recommended Prerequisite:

Credit Hours:*

1

Lecture Contact Hours:

1

Lab Contact Hours:

If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.

Type (Lecture/Lab/Other)*

- Lecture
 Lab
 Both
 Other

Grade Mode*

Letter Grades (Standard)

- Pass Not Pass ONLY
- CANNOT Pass Not Pass

Check all periodicity that applies.*

- Fall
- Fall Even
- Fall Odd
- Spring
- Spring Even
- Spring Odd
- Summer
- Demand

Course Description:*

An introduction to the main elements of video game design (including setting, story, goals, narrative, mechanics, and level design) and the structure and responsibilities of a game development team. The emphasis will be on game designs that could be implemented by a small team within one year. Students will design a game and create a design document. Does not count towards a Computer Science major.

Is there a graduate parallel course to this one?

Rationale

Why is this course changing?*

The art and design department is changing ART 301, and removing the attachment of ART with CSC 301.

Does this change affect course assessment (e.g. student learning evidence / outcomes)?*

- Yes
- No

If yes, explain:

How was the change for this course determined?*

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

Other comments:

The art department removed the attachment between ART 301 and CSC 301. Therefore, the course description for CSC 301 needs to be updated to reflect this change.

What is the date that this course change was approved by departmental or program faculty?*

11/05/2024

Acknowledgements and Attachments

IMPACT REPORT STATEMENT

At the top of the page, click on *Run Impact Report*. Copy the results of the Impact Report and paste them into the space below.

Impact Report Results:*

[Close Window](#)

Impact Report for CSC 301

Source: 2025-2026 Undergraduate Catalog	
Prerequisite:	ART 302 - Introductory Video Game Development for Artists and Animators
	CSC 303 - Introductory Video Game Development for Designers and Programmers
Equivalent Courses:	ART 301 - Introduction to Video Game Design
Description	ART 301 - Introduction to Video Game Design
	CSC 301 - Introduction to Video Game Design
Programs	Computer Science Minor
	Esports Studies (Non-Comprehensive) (BS)

Acknowledgement Statement*

- I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 48177

Catalog Status Active_Visible

- Active-Visible
- Inactive-Hidden

Disposition Information

- Effective Term**
- Fall
 - Spring
 - Summer

Implementation Notes

Degree Audit Notes

- Grade Mode for Catalog**
- Standard
 - Pass/Not Pass

Schedule Type for Catalog

Course Type

CSC - 333 - Languages and Machines

2025-2026 UG Course Change Form

General Catalog Information

Instructions

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Academic Unit:*

Department of Computer Science

Course Code:*

CSC

Course Number:*

333

Course Title:*

Languages and Machines

Prerequisite:

C grade or better in [CSC 232](#); and [MTH 314](#) or [MTH 315](#).

Corequisite:

Recommended Prerequisite:

Credit Hours:*

3

Lecture Contact Hours:

3

Lab Contact Hours:

If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.

Type (Lecture/Lab/Other)*

- Lecture
 Lab
 Both
 Other

Grade Mode*

Letter Grades (Standard)

- Pass Not Pass ONLY
- CANNOT Pass Not Pass

Check all periodicity that applies.*

- Fall
- Fall Even
- Fall Odd
- Spring
- Spring Even
- Spring Odd
- Summer
- Demand

Course Description:*

A study of two classes of languages: formal languages (regular, context-free, and computable) and their associated machines (finite automata, pushdown automata, and Turing machines). Other topics include programming languages, focusing on the essential features of imperative, functional, object-oriented, and logic programming languages, together with their design and implementation on modern computers.

Is there a graduate parallel course to this one?

Rationale

Why is this course changing?*

There is more material that needs to be covered in this course than is possible in a 2-credit hours course. The recommendations to change this course to 3-credit hours comes from students, instructors, advisory board members, and in consultation with faculty members in the department.

Does this change affect course assessment (e.g. student learning evidence / outcomes)?*

- Yes
- No

If yes, explain:

How was the change for this course determined?*

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- Student Input
- Accreditation/certification compliance
- Review of catalog information
- Other

Other comments:

What is the date that this course change was approved by departmental or program faculty?*

11/05/2024

Acknowledgements and Attachments

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Impact Report Results:*

Impact Report for CSC 333

Source: 2025-2026 Undergraduate Catalog	
Prerequisite:	CSC 521 - Compiler Construction
Programs	Computer Science (Non-Comprehensive) (BS)

Acknowledgement Statement*

- I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 48193

Catalog Status

- Active-Visible
- Inactive-Hidden

Disposition Information

Effective Term

- Fall
- Spring
- Summer

Implementation Notes

Degree Audit Notes

Grade Mode for Catalog Standard
 Pass/Not Pass

Schedule Type for Catalog

Course Type

CSC - 450 - Introduction to Software Engineering

2025-2026 UG Course Change Form

General Catalog Information

Instructions

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Academic Unit:*

Department of Computer Science

Course Code:*

CSC

Course Number:* 450

Course Title:*

Introduction to Software Engineering

Prerequisite:

[CSC 232](#), and [CSC 335](#).

Corequisite:

Recommended Prerequisite:

Credit Hours:* 3

Lecture Contact Hours: 3

Lab Contact Hours:

If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.

Type (Lecture/Lab/Other)*

- Lecture
 Lab
 Both
 Other

Grade Mode*

Letter Grades (Standard)

- Pass Not Pass ONLY
- CANNOT Pass Not Pass

Check all periodicity that applies.*

- Fall
- Fall Even
- Fall Odd
- Spring
- Spring Even
- Spring Odd
- Summer
- Demand

Course Description:*

This course will cover the fundamentals of software engineering techniques and methodologies used for effective software development. The course topics will include requirements gathering and analysis, software modeling, architectural software design, user interface design, software testing, and software project management. Successful completion of the computer science major field test (MFT) with at least a score of 145 for Computer Science/Computer Science option and 140 for Computer Science/Software Development option is required for passing the course.

Is there a graduate parallel course to this one?

Rationale

Why is this course changing?*

Currently the CSC 450 course is a 4-credit hour course, which incorporates software engineering and capstone project. It has been a challenge for any instructor teaching this course to cover the topics of software engineering along with a semester long capstone project. The recommendation to split this course into two 3-credit hour courses has been demanded for many years by students, course instructors, and advisory board members. Since the CSC department did not have sufficient faculty members in the past, the decision to split the course into two has long been delayed. The recent ABET accreditation visit also strongly suggested this change. The other course will be the new course CSC 460 Senior Capstone Project.

Does this change affect course assessment (e.g. student learning evidence / outcomes)?*

- Yes
- No

If yes, explain:

The capstone project assessment will move into the new course CSC 460 Senior Capstone Project.

How was the change for this course determined?*

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

Other comments:

What is the date that this course change was approved by departmental or program faculty?*

11/05/2024

Acknowledgements and Attachments

IMPACT REPORT STATEMENT

At the top of the page, click on *Run Impact Report*. Copy the results of the Impact Report and paste them into the space below.

Impact Report Results:*

Impact Report for CSC 450

Source: 2025-2026 Undergraduate Catalog	
Programs	Computer Science (Non-Comprehensive) (BS)
	Data Science (Non-Comprehensive) (BS)

Acknowledgement Statement*

- I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 48176

Catalog Status

- Active-Visible
- Inactive-Hidden

Disposition Information

Effective Term Fall
 Spring
 Summer

Implementation Notes

Degree Audit Notes

Grade Mode for Catalog Standard
 Pass/Not Pass

Schedule Type for Catalog

Course Type

CSC - 534 - Big Data Analytics

2025-2026 UG Course Change Form

General Catalog Information

Instructions

Complete Proposal Form

Complete all required fields, marked with an *.

Do not change the academic unit field.

Edit fields that need update by clicking on the text in the field. If a required field does not need to change, no need to update.

Generate the **Impact Report** by clicking *Run Impact Report* at the top of the page, select the UG catalog map, and copy the results into the space provided on the form. **This is required.**

Complete the *Acknowledgement* section.

Launch Proposal

Launch proposal by clicking *Validate and Launch* at the top or bottom of the proposal. If all required fields are completed, the proposal will launch into the workflow approval process. If required fields have not been completed, a list of the missing fields will be provided. Those fields must be completed before the proposal is launched again.

Once the proposal has been launched, originators must follow the steps below to "approve" the proposal.

Approve Proposal

Make a decision (approve) by clicking the *Decisions* tab using the check mark icon in the right-side menu. **The proposal is NOT submitted until the originator approves the proposal first.**

If needed, comment on the proposal by clicking the *Discussion* tab using the chat icon in the right-side menu and clicking the *+ Add Comment* button. Comments can be added to the proposal at any time.

To Review Proposal (After Launch)

View changes to the proposal by clicking the *Discussion* tab using the chat icon in the right-side menu and selecting *"Show current with markup"* on the *User Tracking* dropdown.

View current comments concerning this proposal by clicking the *Discussion* tab using the chat icon in the right-side menu.

View the history of the proposal by clicking the *Workflow Status* tab using the bullet list icon in the right-side menu.

View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

The information imported for the course change is from the most recent catalog.

If changing the course number, originators must check course number availability prior to submission using this resource: [Course Number Availability](#).

Parallel UG/GR courses must match exactly, except for prerequisites.

Identical courses must match exactly, including prerequisites.

Office of the Registrar will add standardized statements to all parallel and identical courses during implementation. Originators do not need to add these statements.

If a course is **not identical or parallel to another**, but students may not earn credit for a different course as well, the *"Cannot receive credit for both XXXxxx and XXXxxx"* must be added to the course description. *Example: LAW 335 and 532.*

Courses listed in prerequisites, corequisites, recommended prerequisites, and descriptions may be catalog links shown in green. Catalog links will be updated by the OOR during implementation.

Course changes that affect program information in the catalog will not be implemented without a corresponding program change form.

For system support, email curriculum@missouristate.edu.

For information regarding Faculty Senate bylaws, email facultysenate@missouristate.edu.

Academic Unit:*

Department of Computer Science

Course Code:*

CSC

Course Number:* 534

Course Title:*

Big Data Analytics

Prerequisite:

[CSC 232](#)

Corequisite:

Recommended Prerequisite:

Credit Hours:* 3

Lecture Contact Hours: 3

Lab Contact Hours:

If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.

Type (Lecture/Lab/Other)*

- Lecture
 Lab
 Both
 Other

Grade Mode*

Letter Grades (Standard)

- Pass Not Pass ONLY
- CANNOT Pass Not Pass

Check all periodicity that applies.*

- Fall
- Fall Even
- Fall Odd
- Spring
- Spring Even
- Spring Odd
- Summer
- Demand

Course Description:*

A study of tools, techniques, and frameworks for extracting useful information from large data. Study of machine learning algorithms for data analytics. Visual display of results.

Is there a graduate parallel course to this one?

Rationale

Why is this course changing?*

We are changing the prerequisites to enable more students to take the course.

Does this change affect course assessment (e.g. student learning evidence / outcomes)?*

- Yes
- No

If yes, explain:

How was the change for this course determined?*

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

Other comments:

What is the date that this course change was approved by departmental or program faculty?*

10/31/2024

Acknowledgements and Attachments

IMPACT REPORT STATEMENT

At the top of the page, click on *Run Impact Report*. Copy the results of the Impact Report and paste them into the space below.

Impact Report Results:*

Impact Report for CSC 534

Source: 2025-2026 Undergraduate Catalog	
Programs	Data Science (Non-Comprehensive) (BS)

Acknowledgement Statement*

- I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 50448

Catalog Status

- Active-Visible
- Inactive-Hidden

Disposition Information

Effective Term

- Fall
- Spring
- Summer

Implementation Notes

Degree Audit Notes

Grade Mode for Catalog Standard

Pass/Not Pass

Schedule Type for Catalog

Course Type

CSC - 537 - Deep Learning

2025-2026 UG Course Change Form

General Catalog Information

Instructions

Complete Proposal Form

Complete all required fields, marked with an *.

Do not change the academic unit field.

Edit fields that need update by clicking on the text in the field. If a required field does not need to change, no need to update.

Generate the **Impact Report** by clicking *Run Impact Report* at the top of the page, select the UG catalog map, and copy the results into the space provided on the form. **This is required.**

Complete the *Acknowledgement* section.

Launch Proposal

Launch proposal by clicking *Validate and Launch* at the top or bottom of the proposal. If all required fields are completed, the proposal will launch into the workflow approval process. If required fields have not been completed, a list of the missing fields will be provided. Those fields must be completed before the proposal is launched again.

Once the proposal has been launched, originators must follow the steps below to "approve" the proposal.

Approve Proposal

Make a decision (approve) by clicking the *Decisions* tab using the check mark icon in the right-side menu. **The proposal is NOT submitted until the originator approves the proposal first.**

If needed, comment on the proposal by clicking the *Discussion* tab using the chat icon in the right-side menu and clicking the *+ Add Comment* button. Comments can be added to the proposal at any time.

To Review Proposal (After Launch)

View changes to the proposal by clicking the *Discussion* tab using the chat icon in the right-side menu and selecting *"Show current with markup"* on the *User Tracking* dropdown.

View current comments concerning this proposal by clicking the *Discussion* tab using the chat icon in the right-side menu.

View the history of the proposal by clicking the *Workflow Status* tab using the bullet list icon in the right-side menu.

View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

The information imported for the course change is from the most recent catalog.

If changing the course number, originators must check course number availability prior to submission using this resource: [Course Number Availability](#).

Parallel UG/GR courses must match exactly, except for prerequisites.

Identical courses must match exactly, including prerequisites.

Office of the Registrar will add standardized statements to all parallel and identical courses during implementation. Originators do not need to add these statements.

If a course is **not identical or parallel to another**, but students may not earn credit for a different course as well, the *"Cannot receive credit for both XXXxxx and XXXxxx"* must be added to the course description. *Example: LAW 335 and 532.*

Courses listed in prerequisites, corequisites, recommended prerequisites, and descriptions may be catalog links shown in green. Catalog links will be updated by the OOR during implementation.

Course changes that affect program information in the catalog will not be implemented without a corresponding program change form.

For system support, email curriculum@missouristate.edu.

For information regarding Faculty Senate bylaws, email facultysenate@missouristate.edu.

Academic Unit:*

Department of Computer Science

Course Code:*

CSC

Course Number:* 537

Course Title:*

Deep Learning

Prerequisite:

[CSC 232](#)

Corequisite:

Recommended Prerequisite:

Credit Hours:* 3

Lecture Contact Hours: 3

Lab Contact Hours:

If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.

Type (Lecture/Lab/Other)*

- Lecture
 Lab
 Both
 Other

Grade Mode*

Letter Grades (Standard)

- Pass Not Pass ONLY
- CANNOT Pass Not Pass

Check all periodicity that applies.*

- Fall
- Fall Even
- Fall Odd
- Spring
- Spring Even
- Spring Odd
- Summer
- Demand

Course Description:*

A study of neural networks, including backpropagation, loss functions, gradient descent, convolutional neural networks, recurrent neural networks, regularization techniques, network architectures, transfer learning, generative models.

Is there a graduate parallel course to this one?

Rationale

Why is this course changing?*

We are changing the prerequisites to enable more students to take the course.

Does this change affect course assessment (e.g. student learning evidence / outcomes)?*

- Yes
- No

If yes, explain:

How was the change for this course determined?*

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

Other comments:

What is the date that this course change was approved by departmental or program faculty?*

10/31/2024

Acknowledgements and Attachments

IMPACT REPORT STATEMENT

At the top of the page, click on *Run Impact Report*. Copy the results of the Impact Report and paste them into the space below.

Impact Report Results:*

Impact Report for CSC 537

Source: 2025-2026 Undergraduate Catalog

Programs Data Science (Non-Comprehensive) (BS)

Acknowledgement Statement*

- I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 50449

Catalog Status

- Active-Visible
- Inactive-Hidden

Disposition Information

Effective Term

- Fall
- Spring
- Summer

Implementation Notes

Degree Audit Notes

Grade Mode for Catalog Standard

Pass/Not Pass

Schedule Type for Catalog

Course Type

Community and Regional Planning (Comprehensive) (BS)

2025-2026 UG Program Change Form

General Catalog Information

Instructions

Complete Proposal Form

Complete all required fields, marked with an *.
Do not change the academic unit field.
Edit fields that need update by clicking on the text in the field. If a required field does not need to change, no need to update.
Complete the *Acknowledgement* section.

Launch Proposal

Launch proposal by clicking *Validate and Launch* at the top or bottom of the proposal. If all required fields are completed, the proposal will launch into the workflow approval process. If required fields have not been completed, a list of the missing fields will be provided. Those fields must be completed before the proposal is launched again.
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Approve Proposal

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If needed, comment on the proposal by clicking the *Discussion* tab using the chat icon in the right-side menu and clicking the + *Add Comment* button. Comments can be added to the proposal at any time.

To Review Proposal (After Launch)

View changes to the proposal by clicking the *Discussion* tab using the chat icon in the right-side menu and selecting "*Show current with markup*" on the *User Tracking* dropdown.
View current comments concerning this proposal by clicking the *Discussion* tab using the chat icon in the right-side menu.
View the history of the proposal by clicking the *Workflow Status* tab using the bullet list icon in the right-side menu.
View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

New courses (currently not in the catalog) must be submitted in Curriculog *before* completing this change program process, if the new courses are to be included in this change program proposal.

Select *Program* below as the *Type of Program* before importing curriculum data. DO NOT select Shared Core.

Type of Program* Program
 Shared Core

Academic Unit* School of Earth, Environment and Sustainability

Choose One:* Comprehensive Undergraduate Major
 Non-Comprehensive Undergraduate Major
 Undergraduate Major (not a BS or BA degree)
 Minor
 Certificate

Does this program have options?* Yes
 No

Program Title* Community and Regional Planning (Comprehensive) (BS)

Degree Type* Bachelor of Science

Additional Catalog Information* none

Rationale

What is the date that this program change was approved by department or program faculty?* 12/06/2024

Why is this program changing?* Adding an additional course requirement to replace a previously deleted requirement (PLN 372).

Catalog Curriculum Information

Follow these steps to update curriculum:

Step 1-Preview Curriculum or View Curriculum Schema

These views will show the current curriculum structure and courses.

Step 2-Remove courses or cores (sections), if needed

A core in Curriculum is defined as a section of the program in the catalog.
Use the "trashcan icons" to delete an entire core/section or to delete existing courses.

Step 3-Change cores (sections), if needed

Expand a core/section to update the title, description, or custom text.
Move or rearrange a core/section by dragging and dropping, using the 4 headed arrow. Moving a core/section under another will produce a "sub-core".

Step 4-Adding Courses

The first step is to bring courses into the proposal to use when building out the desired program requirements and sections.
On the "View Curriculum Courses" tab, there are two options for adding courses: "Add Course" and "Import Course."
For courses already in the catalog, click on "Import Course" and find the courses needed.
For new courses currently going through a Curriculum Approval Process click on "Add Course". A box will open asking you for the Prefix, Course Number and Course Title. Be sure this information matches the new course prefix/number/title exactly.
To remove a course that was added into the proposal but no longer needed, click on the "trashcan icon" to delete.

Step 5-Adding Sections

Click on "View Curriculum Schema" then select "Add Core". When the new core (section) appears, expand and enter a title. Title examples: "Specific General Education Requirements" or "Required Courses", or "Capstone Experience".
Enter a description, if applicable.
Add courses (from the steps above) to the section(s), as needed.
Add custom text, if applicable. Custom text examples: "3 hours from", or "any additional course numbered 300 or above", or adding "or" between a choice of courses.
Move or rearrange a core/section by dragging and dropping, using the 4 headed arrow. Moving a core/section under another will produce a "sub-core".

Step 6-Preview Curriculum

This preview will show the structure of the sections and courses added to this proposal.
This is available at any point during the building of this proposal.

Note: The Office of the Registrar will format this program in the catalog appropriately, as needed.

Major Requirements

GEO 363 Introduction to Geographic Information Science	4
PLN 300 Graphic Communication for Planners	3
PLN 367 Planning Methods	3
PLN 370 Fundamentals of Planning	3
[After]	
PLN 570 Planning Law	3
[After] OR	
LAW 537 Environmental Regulation	3
[After]	
PLN 571 Land Use Planning	3
PLN 572 Community Planning Practicum	4
PLN 578 Transportation Planning	
PLN 599 Internship in Community and Regional Planning	1-3
PLS 351 Municipal Government and Administration	3
SOC 220 Statistics for Social Research	3

One Course From:

PLN 100 Introduction to Urban Studies	3
GRY 100 World Regional Geography	3
GRY 108 Principles of Sustainability	3
GRY 145 Earth's Natural Environment	3
GLG 113 Earth: The Instruction Manual	3
GLG 114 Earth: The Survival Guide	3

Three Additional Hours From

Cannot count both [GRY 322](#) (3) and [PLN 100](#) (3) toward the major requirements

GRY 322 Urban Geography	3
[After] OR	
GRY 325 Rural Geography	3
[After] OR	
[After] PLN courses numbered above 300.	

Public Affairs Capstone Experience will be fulfilled by completion of:

PLN 572 Community Planning Practicum	4
--------------------------------------	---

Total Credit Hours: 38-39 hours

University Level Requirements:

[General Education Program and Requirements](#)

[General Baccalaureate Degree Requirements](#)

Accelerated graduate program in Geography and Geology

Eligible students in this major may apply to the Master of Science in Geography and Geology program. Refer to the Graduate Catalog for more information. Refer to [Undergraduate Students Taking Graduate Classes](#) for additional information and procedures for obtaining permission for Mixed Credit.

Acknowledgements

Acknowledgement Statement* I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 4598

- Catalog Status**
- Active-Visible
 - Active-Hidden
 - Inactive-Hidden

Program Type

Disposition Information

- Effective Term**
- Fall
 - Spring
 - Summer

Implementation Notes

Degree Audit Notes

Computer Science (Non-Comprehensive) (BS)

2025-2026 UG Program Change Form

General Catalog Information

Instructions

Complete Proposal Form

Complete all required fields, marked with an *.

Do not change the academic unit field.

Edit fields that need update by clicking on the text in the field. If a required field does not need to change, no need to update.

Complete the *Acknowledgement* section.

Launch Proposal

Launch proposal by clicking *Validate and Launch* at the top or bottom of the proposal. If all required fields are completed, the proposal will launch into the workflow approval process. If required fields have not been completed, a list of the missing fields will be provided. Those fields must be completed before the proposal is launched again.

Once the proposal has been launched, originators must follow the steps below to "approve" the proposal.

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Make a decision (approve) by clicking the *Decisions* tab using the check mark icon in the right-side menu. **The proposal is NOT submitted until the originator approves the proposal first.**

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View the history of the proposal by clicking the *Workflow Status* tab using the bullet list icon in the right-side menu.

View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

New courses (currently not in the catalog) must be submitted in Curriculog *before* completing this change program process, if the new courses are to be included in this change program proposal.

Select *Program* below as the *Type of Program* before importing curriculum data. DO NOT select Shared Core.

Type of Program* Program
 Shared Core

Academic Unit* Department of Computer Science

Choose One:* Comprehensive Undergraduate Major
 Non-Comprehensive Undergraduate Major
 Undergraduate Major (not a BS or BA degree)
 Minor
 Certificate

Does this program have options?* Yes
 No

Program Title* Computer Science (Non-Comprehensive) (BS)

Degree Type* Bachelor of Science

Additional Catalog Information* none

Rationale

What is the date that this program change was approved by department or program faculty?* 12/06/2024

Why is this program changing?* CSC 450, 4 credit hours course, has been split into two 3 credit hour courses, CSC 450 and CSC 460. We also changed the number of credit hours for CSC 333 from 2 to 3. These changes affect the program. Even with the additional 3 credit hours, the program remains under 120 credit hours.

Catalog Curriculum Information

Follow these steps to update curriculum:

Step 1-Preview Curriculum or View Curriculum Schema

These views will show the current curriculum structure and courses.

Step 2-Remove courses or cores (sections), if needed

A core in Curriculog is defined as a section of the program in the catalog.
Use the "trashcan icons" to delete an entire core/section or to delete existing courses.

Step 3-Change cores (sections), if needed

Expand a core/section to update the title, description, or custom text.
Move or rearrange a core/section by dragging and dropping, using the 4 headed arrow. Moving a core/section under another will produce a "sub-core".

Step 4-Adding Courses

The first step is to bring courses into the proposal to use when building out the desired program requirements and sections.
On the "View Curriculum Courses" tab, there are two options for adding courses: "Add Course" and "Import Course."
For courses already in the catalog, click on "Import Course" and find the courses needed.
For new courses currently going through a Curriculog Approval Process click on "Add Course". A box will open asking you for the Prefix, Course Number and Course Title. Be sure this information matches the new course prefix/number/title exactly.
To remove a course that was added into the proposal but no longer needed, click on the "trashcan icon" to delete.

Step 5-Adding Sections

Click on "View Curriculum Schema" then select "Add Core". When the new core (section) appears, expand and enter a title. Title examples: "Specific General Education Requirements" or "Required Courses", or "Capstone Experience".
Enter a description, if applicable.
Add courses (from the steps above) to the section(s), as needed.
Add custom text, if applicable. Custom text examples: "3 hours from", or "any additional course numbered 300 or above", or adding "or" between a choice of courses.
Move or rearrange a core/section by dragging and dropping, using the 4 headed arrow. Moving a core/section under another will produce a "sub-core".

Step 6-Preview Curriculum

This preview will show the structure of the sections and courses added to this proposal.
This is available at any point during the building of this proposal.

Note: The Office of the Registrar will format this program in the catalog appropriately, as needed.

Major Requirements

Major Core (45 hours):

CSC 450 (4) is split into CSC 450 (3) and CSC 460 (3). So, major core hours change from 43 to 45 hours.

CSC 130 The World of Computer Science	3
CSC 131 Computational Thinking	4
CSC 232 Data Structures	4
CSC 244 Computer Architecture	3
CSC 335 Database System Concepts	3
CSC 360 Operating Systems	3
CSC 365 Internet Programming	3
CSC 388 Introduction to Secure Computing	3
CSC 450 Introduction to Software Engineering	4
CSC 460 Senior Capstone Project	
CSC 482 Seminar in Computer Science	1
CSC 565 Computer Networks	3

Nine Additional Hours From

[CSC 300](#) and eligible CSC courses numbered higher than 303, with no more than three hours in [CSC 399](#) and no more than three hours in [CSC 596](#).
Courses not eligible: [CSC 500](#), [CSC 505](#), and [CSC 510](#).

Public Affairs Capstone Experience will be fulfilled by completion of:

CSC 335 Database System Concepts	3
CSC 365 Internet Programming	3
CSC 482 Seminar in Computer Science	1

Successful Completion of the Computer Science Major Field Test (MFT)

with at least a score of 145 for Computer Science/Computer Science option and 140 for Computer Science/Software Development option is required.

Minor Required or Second Major

(Note: The "Computer Science" option contains courses that satisfy the requirements for a minor in Mathematics.)

Complete One of the Following Options:

Computer Science Option (29-31 Hours):

CSC 333 will change from 2 to 3 credit hours.

CSC 325 Algorithms and Advanced Data Structures	3
CSC 333 Languages and Machines	2
[After]	
PHY 123 Introduction to Physics I	4
[Right] *	
[After] OR	
PHY 203 Foundations of Physics I	5
[Right] *	
[After]	
BIO 121 General Biology I	4
[Right] *	
[After] OR	
BMS 110 Introduction to Human Biology	3
[Right] *	

Mathematics Requirements:

Note: These required mathematics courses automatically satisfy the requirements for a minor in Mathematics.

MTH 261 Analytic Geometry and Calculus I	5
[Right] *	
MTH 280 Analytic Geometry and Calculus II	5
[After]	

MTH 314 Discrete Mathematics [After] OR	3
MTH 315 Algebraic Structures [After]	3
MTH 345 Statistics for Scientists and Engineers [After] OR	3
MTH 540 Statistical Theory I	3

Software Development Option (27-30 Hours):

CSC 455 Software Quality Assurance and Project Management	3
---	---

Three Additional Hours From:

From eligible CSC courses numbered 500 or higher excluding [CSC 596](#). Courses not eligible: [CSC 500](#), [CSC 505](#), and [CSC 510](#).

Each of These Courses May Also Count Toward General Education Requirements.

ECO 165 Principles of Microeconomics	3
PSY 121 Introductory Psychology	3
ENG 321 Writing II: Beginning Technical Writing	3

One Course From Each Group (at Least One of the Courses With a Lab):

Group 1:

BIO 121 General Biology I [Right] *	4
BMS 110 Introduction to Human Biology [Right] *	3
[After] BMS 110 - Introduction to Human Biology	
BMS 111 Introduction to Human Biology Laboratory [Right] *	1

Group 2:

CHM 116 Fundamentals of Chemistry [Right] *	4
CHM 160 General Chemistry I [Right] *	4
GLG 113 Earth: The Instruction Manual	3
GLG 114 Earth: The Survival Guide [Right] *	3
GLG 116 Earth: The Hands-on Adventure [Right] *	1
GRY 135 Principles of Weather and Climate	4
GRY 145 Earth's Natural Environment	3
GRY 146 Earth's Natural Environment Laboratory [Right] *	1
PHY 123 Introduction to Physics I [Right] *	4
PHY 203 Foundations of Physics I [Right] *	5
AST 113 Modern Astronomy [Right] *	3
AST 114 Survey of Astronomy [Right] *	4
AST 115 Basic Astronomy [Right] *	4

One Course From:

Other courses may be acceptable with department approval.	
MKT 350 Principles of Marketing	3
MGT 340 Principles of Management	3
COM 315 Advanced Speaking in Professional Settings	3
PSY 305 Introduction to Industrial-Organizational Psychology	3
PSY 481 Human Engineering	3

Mathematics Requirement:

MTH 314 Discrete Mathematics [After] OR	3
MTH 315 Algebraic Structures	3

* May also count toward General Education requirements.

Total Credit Hours: 72-76

Total credit hours changed to 72-76 as a result of the changes to CSC 333, CSC 450, and CSC 460.

University Level Requirements:

[General Education Program and Requirements](#)

[General Baccalaureate Degree Requirements](#)

Accreditation

The BS in Computer Science-Computer Science option is accredited by the Computing Accreditation Commission of ABET <http://www.abet.org/>.

Accelerated graduate program in Computer Science

Eligible students in this major may apply to the Master of Science in Computer Science program. Refer to the Graduate Catalog for more information. Refer to [Undergraduate Students Taking Graduate Classes](#) for additional information and procedures for obtaining permission for Mixed Credit.

Acknowledgements

Acknowledgement Statement* I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 4620

Catalog Status Active-Visible
 Active-Hidden
 Inactive-Hidden

Program Type

Disposition Information

Effective Term Fall
 Spring
 Summer

Implementation Notes

Degree Audit Notes

GRY - 572 - Environmental Issues, Education, and Interpretation

2025-2026 UG Course New Form

General Catalog Information

Instructions

Complete Proposal Form

- Complete all required fields, marked with an *.
- Only one academic unit may be selected.
- Complete the *Acknowledgement* section.

Launch Proposal

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- View the history of the proposal by clicking the *Workflow Status* tab using the bullet list icon in the right-side menu.
- View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

Originators must check course number availability prior to submission using this resource: [Course Number Availability](#).
Parallel UG/GR courses must match exactly, except for prerequisites.
Identical courses must match exactly, including prerequisites.
Office of the Registrar will add standardized statements to all parallel and identical courses during implementation. Originators do not need to add these statements.
If a course is **not identical or parallel to another**, but students may not earn credit for a different course as well, the "Cannot receive credit for both XXXxxx and XXXxxx" must be added to the course description. *Example: LAW 335 and 532.*
If a new course should be added to a program in the catalog (as a requirement or an elective, etc.), a program proposal must also be submitted.
For system support, email curriculum@missouristate.edu.
For information regarding Faculty Senate bylaws, email facultysenate@missouristate.edu.

Academic Unit:* <input type="text" value="School of Earth, Environment and Sustainability"/>	
Course Code:* <input type="text" value="GRY"/>	Course Number:* 572
Course Title:* Environmental Issues, Education, and Interpretation	
Prerequisite:	
Corequisite:	
Recommended Prerequisite:	
Credit Hours:* 2	
Type (Lecture/Lab/Other):* <input type="radio"/> Lecture <input type="radio"/> Lab <input checked="" type="radio"/> Both <input type="radio"/> Other	
Lecture Contact Hours: 1	Lab Contact Hours: 2
If this course may be repeated for additional credit, enter the repeatable limit.	
This course CANNOT be graded as Pass/Not Pass.* <input checked="" type="radio"/> Yes <input type="radio"/> Not Applicable	
Is this course graded Pass/Not Pass ONLY? <input type="radio"/> Yes <input checked="" type="radio"/> Not Applicable	
Is there a graduate parallel course to GRY 572 and BIO 661	

Is this course identical to another undergraduate course?

BIO 561

Check all periodicity that applies.*

- Fall
- Fall Even
- Fall Odd
- Spring
- Spring Even
- Spring Odd
- Summer
- Demand

Course Description:*

Students will discuss environmental issues, engage in practical experiences teaching environmental concepts, and develop an awareness of environmental resource materials for formal and nonformal educational settings. It may be taught concurrently with BIO 561, BIO 661, or GRY 672. Cannot receive credit for GRY 572 and BIO 561, BIO 661, or GRY 672.

Rationale

Purpose of Course:*

This course will provide opportunities for students to complete the Environmental Education Certificate. Students interested in resource careers (such as forester, water quality, wildlife management), and informal educators (naturalists, interpreters, recreation, tourism, eco-tourism, and hospitality).

Enrollment Expectations

What is the anticipated source of students for this course?*

This is a cross-listing with BIO 561/661. Those students will still be taking the BIO section of the class. This new listing will make it available to students in the School of Earth, Environment, and Sustainability and students in recreation and hospitality majors interested in the Environmental Education Certificate.

Anticipated Average Enrollment per class section:*

15

Maximum Enrollment Limit per class section:*

15

Anticipated Average Enrollment per semester:*

15

Maximum Enrollment Limit per semester:*

15

Anticipated Average Enrollment per year:*

15

Maximum Enrollment Limit per year:*

15

Resource Needs

Will this new course require additional library holdings?*

- Yes
- No

Will this new course require additional computer resources?*

- Yes
- No

Will this new course require additional or remodeled facilities?*

- Yes
- No

Will this new course require additional equipment or supplies?*

- Yes
- No

Will this new course require, additional travel funds?*

- Yes
- No

Will there be any additional costs associate with this course?*

- Yes
- No

If yes, to any of the above, detail specific resource needs:

There will be one required weekend camping trip to observe and evaluate interpretive sites in the Ozarks region.

Faculty Impact

Faculty Load Assignment (equated hours):*

2

Additional faculty needed; general vs. specialized?*

- Yes
- No

Additional faculty needed; regular vs. per-course?*

- Yes
- No

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

The instructor who will teach the proposed cross-listed classes GRY 572/672 is currently teaching the BIO 561/661 course. There will be no additional faculty resources and no additional load.

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

Melanie Carden-Jessen

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

- Yes
- No

If from outside the department, which courses in other departments would

This is a cross-listing with BIO 561/661. Biology students will still be taking the BIO section of the class. This new listing will make it so students with a sustainability or

most likely be affected: geography major can take the class within their major within the School of Earth, Environment, and Sustainability. Majors in recreation and hospitality interested in the Environmental Education Certificate will have the choice to take geography or biology.

Other comments: This cross-listing will allow students in the sustainability and geography majors to take classes within their major while pursuing the Environmental Education Certificate.

Acknowledgements and Attachments

What is the date that this new course was approved by departmental faculty? 11/15/2024

ATTACHMENT INSTRUCTION

No attachments are required but may be uploaded if desired by navigating to the right side menu and clicking "Files".

Note: A syllabus is not required.

Acknowledgement Statement: I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Disposition Information

Effective Term Fall
 Spring
 Summer

Implementation Notes

Degree Audit Notes

Grade Mode for Catalog Standard
 Pass/Not Pass

Schedule Type for Catalog

Course Type:

MTH - 280 - Analytic Geometry and Calculus II

2025-2026 UG Course Change Form

General Catalog Information

Instructions

Complete Proposal Form

Complete all required fields, marked with an *.

Do not change the academic unit field.

Edit fields that need update by clicking on the text in the field. If a required field does not need to change, no need to update.

Generate the **Impact Report** by clicking *Run Impact Report* at the top of the page, select the UG catalog map, and copy the results into the space provided on the form. **This is required.**

Complete the *Acknowledgement* section.

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View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

The information imported for the course change is from the most recent catalog.

If changing the course number, originators must check course number availability prior to submission using this resource: [Course Number Availability](#).

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Identical courses must match exactly, including prerequisites.

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If a course is **not identical or parallel to another**, but students may not earn credit for a different course as well, the *"Cannot receive credit for both XXXxxx and XXXxxx"* must be added to the course description. *Example: LAW 335 and 532.*

Courses listed in prerequisites, corequisites, recommended prerequisites, and descriptions may be catalog links shown in green. Catalog links will be updated by the OOR during implementation.

Course changes that affect program information in the catalog will not be implemented without a corresponding program change form.

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For information regarding Faculty Senate bylaws, email facultysenate@missouristate.edu.

Academic Unit:*

Department of Mathematics

Course Code:*

MTH

Course Number:*

280

Course Title:*

Analytic Geometry and Calculus II

Prerequisite:

C grade or better in [MTH 261](#).

Corequisite:

Recommended Prerequisite:

Credit Hours:*

4

Lecture Contact Hours:

4

Lab Contact Hours:

If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.

Type (Lecture/Lab/Other)*

- Lecture
 Lab
 Both
 Other

Grade Mode*

Letter Grades (Standard)

- Pass Not Pass ONLY
 CANNOT Pass Not Pass

Check all periodicity that applies.*

- Fall
 Fall Even
 Fall Odd
 Spring
 Spring Even
 Spring Odd
 Summer
 Demand

Course Description:*

Applications of integration, integration techniques, indeterminate forms, improper integrals, sequences, series, conic sections, parametrization, polar coordinates. Cannot be taken Pass/Not Pass.

Is there a graduate parallel course to this one? no

Rationale

Why is this course changing?*

The final unit of MTH 280 Calculus II on vectors is currently meant as an introduction of topics needed for the next course in the sequence, MTH 302 Multivariate Calculus. Many of these topics are covered again at the beginning of MTH 302. We propose to move these topics fully into MTH 302 to remove the redundancy. By removing one contact hour from MTH 280 and adding one contact hour to MTH 302, we will still be able to cover the same topics across both courses, but by removing the redundancy, there will be more time in MTH 302 to cover the final unit on Vector Fields, which is often condensed or rushed due to time constraints.

Does this change affect course assessment (e.g. student learning evidence / outcomes)?*

- Yes
 No

If yes, explain:

How was the change for this course determined?*

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

Other comments:

What is the date that this course change was approved by departmental or program faculty?*

11/05/2024

Acknowledgements and Attachments

IMPACT REPORT STATEMENT

At the top of the page, click on *Run Impact Report*. Copy the results of the Impact Report and paste them into the space below.

Impact Report for MTH 280

Source: 2025-2026 Undergraduate Catalog	
Prerequisite:	CHM 506 - Physical Chemistry I
	CSC 421 - Numerical Analysis I
	GLG 590 - Applied Geophysics
	GLG 591 - Seismic Data Processing
	MTH 302 - Multivariate Calculus
	MTH 303 - Differential Equations
	MTH 333 - Linear Algebra
	MTH 345 - Statistics for Scientists and Engineers
	MTH 421 - Numerical Analysis I
	MTH 450 - Theory of Interest
	MTH 503 - Advanced Calculus I
	MTH 506 - Theory of Functions of a Complex Variable
	MTH 570 - Combinatorial Analysis
	PHY 204 - Foundations of Physics II
	PHY 233 - Engineering Statics
	PHY 252 - Introduction to Circuit Analysis
	PHY 291 - Introduction to Computational Physics
	TCM 315 - Thermodynamics and Heat Transfer
Description	MTH 261 - Analytic Geometry and Calculus I
	MTH 288 - Computational Calculus II
Programs	Applied Geophysics Certificate
	Archaeology Minor
	Astrogeology Certificate
	Biology (Comprehensive) (BS)
	Biology (Non-Comprehensive) (BA)
	Biology (Non-Comprehensive) (BS)
	Biomedical Physics Certificate
	Biomedical Sciences (Comprehensive) (BS)
	Chemistry (Comprehensive) (BS)
	Chemistry (Non-Comprehensive) (BS)
	Chemistry Minor
	Computational Science Certificate
	Computer Science (Non-Comprehensive) (BS)
	Data Science (Non-Comprehensive) (BS)
	Engineering Geology Certificate
	Enterprise Risk Management Minor
	Equine Science (Comprehensive) (BS)
	Foundations of Interdisciplinary Science Minor
	General Education Program and Requirements
	Geoarchaeology Certificate
	Geology (Comprehensive) (BS)
	Informatics Minor
	Mathematics (BSEd)
	Mathematics (Comprehensive) (BS)
	Mathematics (Non-Comprehensive) (BA)
	Mathematics (Non-Comprehensive) (BS)
	Mathematics Minor
	Mechanical Engineering Technology (Comprehensive) (BS)
	Nutrition and Dietetics (Comprehensive) (BS)
	Petroleum Geology Certificate
	Physics (Comprehensive) (BS)
	Physics Minor

Acknowledgement Statement* I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 49310

Catalog Status Active-Visible
 Inactive-Hidden

Disposition Information

Effective Term Fall
 Spring
 Summer

Implementation Notes

Degree Audit Notes

Grade Mode for Catalog Standard
 Pass/Not Pass

Schedule Type for Catalog

Course Type

MTH - 302 - Multivariate Calculus

2025-2026 UG Course Change Form

General Catalog Information

Instructions

Complete Proposal Form

Complete all required fields, marked with an *.

Do not change the academic unit field.

Edit fields that need update by clicking on the text in the field. If a required field does not need to change, no need to update.

Generate the **Impact Report** by clicking *Run Impact Report* at the top of the page, select the UG catalog map, and copy the results into the space provided on the form. **This is required.**

Complete the *Acknowledgement* section.

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View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

The information imported for the course change is from the most recent catalog.

If changing the course number, originators must check course number availability prior to submission using this resource: [Course Number Availability](#).

Parallel UG/GR courses must match exactly, except for prerequisites.

Identical courses must match exactly, including prerequisites.

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If a course is **not identical or parallel to another**, but students may not earn credit for a different course as well, the "Cannot receive credit for both XXXxxx and XXXxxx" must be added to the course description. *Example: LAW 335 and 532.*

Courses listed in prerequisites, corequisites, recommended prerequisites, and descriptions may be catalog links shown in green. Catalog links will be updated by the OOR during implementation.

Course changes that affect program information in the catalog will not be implemented without a corresponding program change form.

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For information regarding Faculty Senate bylaws, email facultysenate@missouristate.edu.

Academic Unit:*

Department of Mathematics

Course Code:*

MTH

Course Number:*

302

Course Title:*

Multivariate Calculus

Prerequisite:

[MTH 280](#)

Corequisite:

Recommended Prerequisite:

Credit Hours:*

4

Lecture Contact Hours:

4

Lab Contact Hours:

If changing the repeatable hours or adding repeatable hours, enter the repeatable limit desired.

Type (Lecture/Lab/Other)*

- Lecture
 Lab
 Both
 Other

Grade Mode*

Letter Grades (Standard)

- Pass Not Pass ONLY
- CANNOT Pass Not Pass

Check all periodicity that applies.*

- Fall
- Fall Even
- Fall Odd
- Spring
- Spring Even
- Spring Odd
- Summer
- Demand

Course Description:*

Vector algebra and calculus, solid analytic geometry, partial differentiation, multiple integration, vector fields.

Is there a graduate parallel course to this one?

Rationale

Why is this course changing?*

The final unit of MTH 280 Calculus II on vectors is currently meant as an introduction of topics needed for the next course in the sequence, MTH 302 Multivariate Calculus. Many of these topics are covered again at the beginning of MTH 302. We propose to move these topics fully into MTH 302 to remove the redundancy. By removing one contact hour from MTH 280 and adding one contact hour to MTH 302, we will still be able to cover the same topics across both courses, but by removing the redundancy, there will be more time in MTH 302 to cover the final unit on Vector Fields, which is often condensed or rushed due to time constraints.

Does this change affect course assessment (e.g. student learning evidence / outcomes)?*

- Yes
- No

If yes, explain:

How was the change for this course determined?*

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

Other comments:



What is the date that this course change was approved by departmental or program faculty?*

11/05/2024

Acknowledgements and Attachments

IMPACT REPORT STATEMENT

At the top of the page, click on *Run Impact Report*. Copy the results of the Impact Report and paste them into the space below.

Impact Report Results:*

Impact Report for MTH 302

Source: 2025-2026 Undergraduate Catalog	
Prerequisite:	MTH 504 - Advanced Calculus II
	MTH 507 - Introduction to Partial Differential Equations
	MTH 532 - Introduction to Abstract Algebra
	MTH 536 - Theory of Numbers
	MTH 540 - Statistical Theory I
	MTH 567 - Introduction to Non-Euclidean Geometry
	MTH 575 - History of Mathematics
	MTH 582 - Introductory Topology
	PHY 319 - Mathematics for Science and Engineering I
	PHY 343 - Thermal Physics
	PHY 375 - Modern Physics
Recommended Prerequisite:	CHM 506 - Physical Chemistry I
Programs	Applied Geophysics Certificate
	Chemistry (Comprehensive) (BS)
	Chemistry (Non-Comprehensive) (BS)
	Chemistry Minor
	Computer Science (Non-Comprehensive) (BS)
	Data Science (Non-Comprehensive) (BS)
	Enterprise Risk Management Minor
	Mathematics (BSEd)
	Mathematics (Comprehensive) (BS)
	Mathematics (Non-Comprehensive) (BA)
	Mathematics (Non-Comprehensive) (BS)
	Mathematics Minor
	Physics (Comprehensive) (BS)

Acknowledgement Statement* I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Catalog OID (Item ID) 49336

Catalog Status Active-Visible
 Inactive-Hidden

Disposition Information

Effective Term Fall
 Spring
 Summer

Implementation Notes

Degree Audit Notes

Grade Mode for Catalog Standard
 Pass/Not Pass

Schedule Type for Catalog

Course Type

PLN - 578 - Transportation Planning

2025-2026 UG Course New Form

General Catalog Information

Instructions

Complete Proposal Form

- Complete all required fields, marked with an *.
- Only one academic unit may be selected.
- Complete the *Acknowledgement* section.

Launch Proposal

- Launch proposal by clicking *Validate and Launch* at the top or bottom of the proposal. If all required fields are completed, the proposal will launch into the workflow approval process. If required fields have not been completed, a list of the missing fields will be provided. Those fields must be completed before the proposal is launched again.
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- View the history of the proposal by clicking the *Workflow Status* tab using the bullet list icon in the right-side menu.
- View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

Originators must check course number availability prior to submission using this resource: [Course Number Availability](#).
Parallel UG/GR courses must match exactly, except for prerequisites.
Identical courses must match exactly, including prerequisites.
Office of the Registrar will add standardized statements to all parallel and identical courses during implementation. Originators do not need to add these statements.
If a course is **not identical or parallel to another**, but students may not earn credit for a different course as well, the *"Cannot receive credit for both XXXxxx and XXXxxx"* must be added to the course description. *Example: LAW 335 and 532.*
If a new course should be added to a program in the catalog (as a requirement or an elective, etc.), a program proposal must also be submitted.
For system support, email curriculum@missouristate.edu.
For information regarding Faculty Senate bylaws, email facultysenate@missouristate.edu.

Academic Unit: * <input type="text" value="School of Earth, Environment and Sustainability"/>	
Course Code: * <input type="text" value="PLN"/>	Course Number: * 578
Course Title: * Transportation Planning	
Prerequisite:	
Corequisite:	
Recommended Prerequisite: PLN 100 or PLN 370	
Credit Hours: * 3	
Type (Lecture/Lab/Other): * <input checked="" type="radio"/> Lecture <input type="radio"/> Lab <input type="radio"/> Both <input type="radio"/> Other	
Lecture Contact Hours: 3	Lab Contact Hours: 0
If this course may be repeated for additional credit, enter the repeatable limit.	
This course CANNOT be graded as Pass/Not Pass. * <input type="radio"/> Yes <input type="radio"/> Not Applicable	
Is this course graded Pass/Not Pass ONLY? * <input checked="" type="radio"/> Yes <input type="radio"/> Not Applicable	

Is there a graduate parallel course to this one? No Yes PLN 678

Is this course identical to another undergraduate course? No Yes

Check all periodicity that applies.* Fall Fall Even Fall Odd Spring Spring Even Spring Odd Summer Demand

Course Description:* Overview of major policy issues in urban transportation systems; interdependence of transportation with urban land use patterns. Discussion of sustainability and social impacts of transport systems. Problems of the present auto-dominated system examined, and alternative solutions analyzed in the context of the changing political/institutional environment.

Rationale

Purpose of Course:* This is the foundational transportation course at Missouri State. The course deals with a variety of topics and themes that all tie in to the management of transportation systems in the 21st century.
Topics include: How should we deal with congestion? What is accessibility and how is different from mobility? What does this distinction mean for policy? Who should pay for transportation projects? How should they pay and how much should they pay? What will new technological developments like driverless cars mean for cities? What is the relationship between our transportation systems and sustainability?

Enrollment Expectations

What is the anticipated source of students for this course?*

- Students enrolled in the Community and Regional Planning Programs
- Students enrolled in the Geography and Sustainability Programs
- Students in related disciplines (e.g., Civil Engineering, Public Administration, Sustainability Programs)

Anticipated Average Enrollment per class section:* 12 Maximum Enrollment Limit per class section:* 25

Anticipated Average Enrollment per semester:* 12 Maximum Enrollment Limit per semester:* 25

Anticipated Average Enrollment per year:* 12 Maximum Enrollment Limit per year:* 25

Resource Needs

Will this new course require additional library holdings?* Yes No

Will this new course require additional computer resources?* Yes No

Will this new course require additional or remodeled facilities?* Yes No

Will this new course require additional equipment or supplies?* Yes No

Will this new course require, additional travel funds?* Yes No

Will there be any additional costs associate with this course?* Yes No

If yes, to any of the above, detail specific resource needs:

Faculty Impact

Faculty Load Assignment (equated hours):* 3

Additional faculty needed; general vs. specialized* Yes No

Additional faculty needed; regular vs. per-course* Yes No

If additional faculty are not required, how will faculty be made available to teach this course? Course will be taught by new faculty member Evan Iacobucci, hired starting Fall 2024.

List names of current faculty qualified and available to teach this course:* Evan Iacobucci

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

- Yes
 No

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

N/A

Other comments:

We recently deleted PLN 371 and PLN 372 and combined them into a new replacement course PLN 370. PLN 578/678 will be added to our major requirements. Since we combined the two courses in to PLN 370 adding this course to the requirements does not change the long term number of credits required for the major.

Acknowledgements and Attachments

What is the date that this new course was approved by departmental faculty?*

12/06/2024

ATTACHMENT INSTRUCTION

No attachments are required but may be uploaded if desired by navigating to the right side menu and clicking "Files".

Note: A syllabus is not required.

Acknowledgement Statement*

I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

Disposition Information

Effective Term

- Fall
 Spring
 Summer

Implementation Notes

Degree Audit Notes

Grade Mode for Catalog

- Standard
 Pass/Not Pass

Schedule Type for Catalog

Course Type:

Small Town Planning and Development Certificate

2025-2026 UG Program Change Form

General Catalog Information

Instructions

Complete Proposal Form

Complete all required fields, marked with an *.
Do not change the academic unit field.
Edit fields that need update by clicking on the text in the field. If a required field does not need to change, no need to update.
Complete the *Acknowledgement* section.

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View the history of the proposal by clicking the *Workflow Status* tab using the bullet list icon in the right-side menu.
View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

New courses (currently not in the catalog) must be submitted in Curriculog *before* completing this change program process, if the new courses are to be included in this change program proposal.

Select *Program* below as the *Type of Program* before importing curriculum data. DO NOT select Shared Core.

Type of Program* Program
 Shared Core

Academic Unit* School of Earth, Environment and Sustainability

Choose One:* Comprehensive Undergraduate Major
 Non-Comprehensive Undergraduate Major
 Undergraduate Major (not a BS or BA degree)
 Minor
 Certificate

Does this program have options?* Yes
 No

Program Title* Small Town Planning and Development Certificate

Degree Type* Certificates

Additional Catalog Information* This certificate provides a program for city employees (including city administrators), planning commissioners, council members, developers, and other practitioners who wish to familiarize themselves with the basics of the planning profession. Students interested in obtaining this certificate are welcome to enroll.

Rationale

What is the date that this program change was approved by department or program faculty?* 12/06/2024

Why is this program changing?* A new course (PLN 578) has been proposed as a PLN offering, which is intended to be an option toward completing this certificate.

Catalog Curriculum Information

Follow these steps to update curriculum:

Step 1-Preview Curriculum or View Curriculum Schema

These views will show the current curriculum structure and courses.

Step 2-Remove courses or cores (sections), if needed

A core in Curriculog is defined as a section of the program in the catalog.
Use the "trashcan icons" to delete an entire core/section or to delete existing courses.

Step 3-Change cores (sections), if needed

Expand a core/section to update the title, description, or custom text.
Move or rearrange a core/section by dragging and dropping, using the 4 headed arrow. Moving a core/section under another will produce a "sub-core".

Step 4-Adding Courses

The first step is to bring courses into the proposal to use when building out the desired program requirements and sections.
On the "View Curriculum Courses" tab, there are two options for adding courses: "Add Course" and "Import Course."
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To remove a course that was added into the proposal but no longer needed, click on the "trashcan icon" to delete.

Step 5-Adding Sections

Click on "View Curriculum Schema" then select "Add Core". When the new core (section) appears, expand and enter a title. Title examples: "Specific General Education Requirements" or "Required Courses", or "Capstone Experience".
Enter a description, if applicable.
Add courses (from the steps above) to the section(s), as needed.
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Move or rearrange a core/section by dragging and dropping, using the 4 headed arrow. Moving a core/section under another will produce a "sub-core".

Step 6-Preview Curriculum

This preview will show the structure of the sections and courses added to this proposal.
This is available at any point during the building of this proposal.

Note: The Office of the Registrar will format this program in the catalog appropriately, as needed.

Curriculum*	<p style="text-align: center;">Program Requirements</p> <p style="text-align: center;">Four Courses From:</p> <table><tr><td>PLN 300 Graphic Communication for Planners</td><td style="text-align: right;">3</td></tr><tr><td>PLN 367 Planning Methods</td><td style="text-align: right;">3</td></tr><tr><td>PLN 370 Fundamentals of Planning</td><td style="text-align: right;">3</td></tr><tr><td>PLN 505 Social Planning</td><td style="text-align: right;">3</td></tr><tr><td>PLN 570 Planning Law</td><td style="text-align: right;">3</td></tr><tr><td>PLN 572 Community Planning Practicum</td><td style="text-align: right;">4</td></tr><tr><td>PLN 597 Selected Topics in Planning</td><td style="text-align: right;">1-5</td></tr><tr><td>PLN 599 Internship in Community and Regional Planning</td><td style="text-align: right;">1-3</td></tr><tr><td>GRY 322 Urban Geography</td><td style="text-align: right;">3</td></tr><tr><td>GRY 325 Rural Geography</td><td style="text-align: right;">3</td></tr><tr><td>LAW 537 Environmental Regulation</td><td style="text-align: right;">3</td></tr></table> <p style="text-align: center;">All Candidates Must Satisfy the General University Certificate Requirements.</p> <p style="text-align: center;">Total Credit Hours: 12-14</p>	PLN 300 Graphic Communication for Planners	3	PLN 367 Planning Methods	3	PLN 370 Fundamentals of Planning	3	PLN 505 Social Planning	3	PLN 570 Planning Law	3	PLN 572 Community Planning Practicum	4	PLN 597 Selected Topics in Planning	1-5	PLN 599 Internship in Community and Regional Planning	1-3	GRY 322 Urban Geography	3	GRY 325 Rural Geography	3	LAW 537 Environmental Regulation	3
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GRY 322 Urban Geography	3																						
GRY 325 Rural Geography	3																						
LAW 537 Environmental Regulation	3																						

Acknowledgements

Acknowledgement Statement* I acknowledge that all areas of this proposal have been completed as required.

System Administrator Only

- Catalog Status**
- Active-Visible
 - Active-Hidden
 - Inactive-Hidden

Program Type Certificates

Disposition Information

- Effective Term**
- Fall
 - Spring
 - Summer

Implementation Notes

Degree Audit Notes

Tourism Management

2025-2026 UG Program (Intercollegiate) New Form

General Catalog Information

Instructions

Complete Proposal Form

Only use this form for new **INTERCOLLEGIATE** undergraduate programs.
Complete all required fields, marked with an *.
Complete the *Acknowledgement* section.

Launch Proposal

Launch proposal by clicking *Validate and Launch* at the top or bottom of the proposal. If all required fields are completed, the proposal will launch into the workflow approval process. If required fields have not been completed, a list of the missing fields will be provided. Those fields must be completed before the proposal is launched again.
Once the proposal has been launched, originators must follow the steps below to "approve" the proposal.

Approve Proposal

Make a decision (approve) by clicking the *Decisions* tab using the check mark icon in the right-side menu. **The proposal is NOT submitted until the originator approves the proposal first.**
If needed, comment on the proposal by clicking the *Discussion* tab using the chat icon in the right-side menu and clicking the + *Add Comment* button. Comments can be added to the proposal at any time.

To Review Proposal (After Launch)

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View the history of the proposal by clicking the *Workflow Status* tab using the bullet list icon in the right-side menu.
View uploaded files associated with the proposal by clicking the paperclip icon in the right-side menu to access the *Files* tab.

New courses (currently not in the catalog) must be submitted in Curriculog *before* completing this new program process, if the new courses are to be included in this program proposal.

Select *Program* below as the *Type of Program* before importing curriculum data. DO NOT select Shared Core.

Type of Program* Program
 Shared Core

Academic Units*

Which academic unit will be responsible for administration and budget?*

Choose One:* Comprehensive Undergraduate Major
 Non-Comprehensive Undergraduate Major
 Undergraduate Major (not a BS or BA degree)
 Minor
 Certificate

Does this program have options?* Yes
 No

Proposed Program Title*

Degree Type*

Additional Catalog Information* Tourism Management degree program equips students with the knowledge and skills to manage and promote tourism destinations and businesses. The curriculum covers areas like sustainable tourism, destination marketing, hospitality management, and tourism policy, preparing graduates for careers in tourism planning, event management, and destination stewardship. Students also gain practical experience through internships and industry projects.

Catalog Curriculum Information

Follow these steps to build curriculum for the new program:

Step 1-Adding Courses

The first step is to bring courses into the proposal to use when building out the desired program requirements and sections.

On the "View Curriculum Courses" tab, there are two options for adding courses: "Add Course" and "Import Course."

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Step 2-Adding Sections

Sections are required to outline program requirements. Use a current program listed in the catalog as a guide.

A core in Curriculog is defined as a section to be added in the catalog.

Click on "View Curriculum Schema" then select "Add Core". When the new core (section) appears, expand and enter a title. Title examples: "Specific General Education Requirements" or "Required Courses", or "Capstone Experience".

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This preview will show the structure of the sections and courses added to this proposal.

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General Education Requirement (3 hours)

GRY 108 Principles of Sustainability	3
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Core Requirement (21 hours)

ECO 316 Sports and Entertainment Economics [Before]OR	3
ENT 301 Principles of Entrepreneurship	3
GRY 310 Fundamentals of Tourism	3
GRY 429 Geography of World Tourism	3
HSP 340 Destination Development	3
HSP 410 Hospitality Marketing	3
MGT 340 Principles of Management	3
TOU 101 Understanding Travel and Tourism in the Modern World (3)	

Career Development Experiences (3 to 6 hours)

Choose one of the following courses

GRY 353 Field Experience in Geography (inside continental USA)	3
GRY 470 Field Experience in Geography (outside continental USA)	3
HSP 499 Internship in Hospitality	6
GRY 399 Internship in Geography	1-3
HSP 400 Problems in Hospitality Leadership	1-3
HSP 497 International Hospitality Field Study	1-3

Public Affairs Capstone Experiences (3 hours)

Choose one of the following courses

AGB 594 Agricultural Entrepreneurship	3
GRY 510 Applications in Sustainable Geotourism	3
HSP 540 Tourism Analytics	3

Certificate Requirement (23 to 30 hours)

Certificates serve as specialized credentials that offer students a thorough and nuanced comprehension of the intricate dynamics within the tourism industry. Students are required to declare and complete one certificate from each certificate category. No more than two courses from the major's required course list can be double-counted in the certificate requirements.

Specialized Tourism: Students focus on the core sectors of tourism.

[Advanced Hospitality Leadership](#) (12 hours)
[Essentials of Hospitality Management](#) (12 hours)
[Event Planning](#) (14 hours)
[Food and Beverage Operations](#) (14 hours)
[Globalization and Sustainability](#) (12 hours)
[Lodging Management](#) (14 hours)

[Online Entrepreneurship](#) (12 hours)

[Recreation Administration](#) (12 hours)

[Sustainable Tourism](#) (12 hours)

[Theme Park Management](#) (15 hours)

Integrated Tourism: Students learn to apply tourism principles to broader contexts.

[Agricultural Economics](#) (11 to 12 hours)

[Esports Studies](#) (15 hours)

[International Agricultural Leadership](#) (12 hours)

[Intercultural Communication](#) (12 hours)

[Leadership Development](#) (15 hours)

[Nonprofit Leadership](#) (12 hours)

[Organizational Communication](#) (12 hours)

[Outdoor Leadership](#) (12 hours)

[Sport Administration](#) (12 hours)

[The Modern Global Economy](#) (12 hours)

Note: Students are required to declare, complete, and apply to graduate for all required certificates in order to successfully complete major requirements. Up to 6 credit hours can be counted towards both core requirement and certificate requirement.

Rationale

Why is this new program being proposed?*

The proposal to establish a new tourism management program stems from the recognition of the tourism industry's growing global significance and the demand for skilled professionals proficient in its multifaceted management. According to the UN Tourism, tourism is a major source of commerce and can drive economic development (UN Tourism, 2023). The program would integrate various disciplines, including hospitality management, geography, management, agriculture, and sustainability to provide students with a comprehensive understanding of tourism's multidimensional nature. The program emphasizes community engagement and destination management. Students would learn to collaborate with local stakeholders, ensuring tourism initiatives benefit both communities and destinations. Through internships, networking opportunities, and industry partnerships, the program would prepare students for diverse career paths in tourism planning, hospitality management, destination development, and more, supporting their professional growth and contribution to the sustainable development of the tourism industry.

** This proposal was approved by the faculty of the School of Earth, Environment, and Sustainability (SEES) on 02/09/2024

What are the estimated costs to administer this new program for the first 5 years?*

This interdisciplinary program is designed using mostly existing courses. One new course is developed (TOU101). Teaching loads will be reallocated to include the new course offering. New/additional expenditures are not anticipated.

What is the date that this new program was approved by faculty?*

09/09/2024

Acknowledgements and Attachments

A Missouri Department of Higher Education and Workforce Development application is REQUIRED for all new UG majors and all new UG certificates requiring more than 18 credit hours.

Complete and upload a new program application using the template link below.

[MDHEWD application](#) for all new Undergraduate Majors or a new Undergraduate Certificate with more than 18 hours

The Office of Institutional Research will submit these application forms to the state after the new program has been fully approved through the internal curricular process.

ATTACHMENT INSTRUCTION

Please attach any required files by navigating to the right side menu and clicking "Files".

Acknowledgement Statement*

- I acknowledge that all areas of this proposal have been completed as required.
- I acknowledge that the MDHEWD form has been uploaded, if applicable.

System Administrator Only

Program Type

Disposition Information

Effective Term

- Fall
- Spring
- Summer

Implementation Notes

Degree Audit Notes

Tourism Management

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 Undergraduate Major (not a BS or BA degree)
 Minor
 Certificate

Does this program have options?* Yes
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Proposed Program Title*

Degree Type*

Additional Catalog Information* Tourism Management degree program equips students with the knowledge and skills to manage and promote tourism destinations and businesses. The curriculum covers areas like sustainable tourism, destination marketing, hospitality management, and tourism policy, preparing graduates for careers in tourism planning, event management, and destination stewardship. Students also gain practical experience through internships and industry projects.

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Choose one of the following courses

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3

GRY 510 Applications in Sustainable Geotourism

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HSP 540 Tourism Analytics

3

Additional Requirement

A minor or second major is required.

Rationale

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System Administrator Only

Program Type

Disposition Information

Effective Term

- Fall
- Spring
- Summer

Implementation Notes

Degree Audit Notes