

Course Change Request

Date Submitted: 09/10/25 6:46 pm

Viewing: **GGG 310 : Cartographic Design**

Last approved: 01/29/21 5:00 am

Last edit: 09/10/25 6:46 pm

Changes proposed by: nburtch

Catalog Pages
referencing this
course

[Applied Computer Science, BS](#)
[Department of Geography and Geoinformation Science](#)
[Design Thinking Minor](#)
[Geographic Information Systems Minor](#)
[Geography and Geoinformation Science \(GGG\)](#)

Select modification type:

Substantial

Are you completing this form on someone else's behalf?

No

Requestor:

Effective Term: Spring 2026

Subject Code: GGS - Geography & Geoinformation Science

Course Number: 310

Bundled Courses:

Is this course replacing another course? No

Old Course Number:

In Workflow

1. **GGG Chair**
2. **SC Curriculum Committee**
3. SC Assistant Dean
4. Assoc Provost- Undergraduate
5. Registrar-Courses
6. Banner

Approval Path

1. 09/10/25 6:51 pm
Nathan Burtch
(nburtch): Approved
for GGS Chair

History

1. Jan 12, 2019 by
Nathan Burtch
(nburtch)
2. Jan 29, 2021 by
Timothy Leslie
(tleslie)

Equivalent Courses:**Catalog Title:** Cartographic Design**Banner Title:** Cartographic Design**Language of
Instruction:****Will section titles
vary by semester?** No**Is this a physical
activity course?****Credits:** 3**Schedule Type:** Lecture**Hours of Lecture or Seminar per
week:** 3**Hours of Lab or Studio per week:****Hours of Other Contact Hours per
week:**

Repeatable:	May be only taken once for credit, limited to 3 attempts (N3)	Max Allowable Credits:	9
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**Default Grade
Mode:** Undergraduate Regular**Recommended
Prerequisite(s):** [30 credits](#)**Recommended
Corequisite(s):****Required
Prerequisite(s) /
Corequisite(s)
(Updates only):****Registrar's Office Use Only - Required Prerequisite(s)/Corequisite(s):**

And/Or	(Course/Test Code	Min Grade/Score	Academic Level)	Concurrency?

**Registration
Restrictions
(Updates only):**

Registrar's Office Use Only - Registration Restrictions:

Field(s) of Study:

Class(es):

Level(s):

Degree(s):

School(s):

**Catalog
Description:**

Focused on the creation and application of maps, with an emphasis on thematic mapping. Includes fundamental mapping principles (projection, scale, generalization, symbolization), spatial data selection and acquisition, and effective design choices for geospatial communication, utilizing mapping software and digital outputs.

Justification:

What: updated prereqs

Why: The new language will conform to the way we recommend prereqs for most of our 300-level courses (recommend a sophomore standing minimum)

**Does this course cover material which
crosses into another department?**

No

**Impacted
Departments:**

Learning Outcomes:

Will this course be scheduled as a cross-level cross listed section?

Please use the Additional Attachments button to attach two syllabi for review, one undergraduate and one graduate, preferably as separate documents. These should be provided in order to demonstrate the difference in expectations and assessments for

Attach Syllabus [GGG310_SYLLABUS.pdf](#)

Additional Attachments [Re_GGS Course Title Changes.pdf](#)

Course Objectives:

Anticipated Audience and Enrollment:

Offering Frequency:

Relationship to Current Offerings Within Department:

Relationship to Current Offerings Outside Department:

Relationship to Programs:

Relationship to Existing Programs:

Relationship to Existing Courses:

Specialized Course Categories:

Select the Mason Core Requirement the course is proposing to fulfill:

Foundation Courses:

Exploration

Courses:

Exploration

Courses:

Integration

Courses:

Mason Apex

Learning Objectives:

Upon completing a Mason Apex course, students will be able to:

Application for Mason Impact

Select the requested Mason

Impact designation:

Discovery of Scholarship (RD)

Select at least one additional SaS learning outcomes which the course meets:

Scholarly Inquiry (RI)

Select any additional SaS learning outcomes which the course meets:

Impact Associated (RA)

Select the RS course which your proposed RA course will be associated with:

MI + Research/Scholarship Intensive (RS)

I. Course must meet the following learning outcomes:

II.

III.

IV.

(A) What is the rationale for designating this course as Entrepreneurship?

(B) Explain how this course meets the course criteria?

(C) How does your course fit into the educational career of an average student enrolled in the course?

(D) How will student work meet the project criteria?

(E) How does student learning progress through the course to aid students in the development of the skills needed to complete their project?

V.

Select any additional SaS learning outcomes which the course meets:

Describe how the course meets the required student learning outcomes and the selected methods outcome(s):

How will the course be supported by the appropriate subject area librarian?

Attach Curriculum

Map

Please affirm the following:

List Responsible

Faculty Members:

The department has or will have an undergraduate research student learning outcome and will use the data from this course in Academic Program Review.

Mason Impact (MI)

I. Course must meet the following learning outcomes:

II.

III.

MI + Civic Engagement (CECL)

I. Course must meet the following learning outcomes:

II.

III.

IV.

- (A) What is the rationale for designating this course as Entrepreneurship?
- (B) Explain how this course meets the course criteria?
- (C) How does your course fit into the educational career of an average student enrolled in the course?
- (D) How will student work meet the project criteria?
- (E) How does student learning progress through the course to aid students in the development of the skills needed to complete their project?

V.**MI + Entrepreneurship (ENTR)**

I. Course must meet the following learning outcomes:

II.**III.****IV.**

- (A) What is the rationale for designating this course as Entrepreneurship?
- (B) Explain how this course meets the course criteria?
- (C) How does your course fit into the educational career of an average student

enrolled in the course?

(D) How will student work meet the project criteria?

(E) How does student learning progress through the course to aid students in the development of the skills needed to complete their project?

V.

Green Leaf Course Designation

The proposed
course is
requesting (choose
one):

Below, include a brief statement regarding how this course meets either the “sustainability focused” or “sustainably related” criteria.

Sustainability-focused courses provide valuable grounding in the concepts and principles of sustainability. These courses educate students about how different dimensions of sustainability relate to and support each other in theory and practice. In addition, these courses help equip students with the skills to weave together disparate components of sustainability in addressing complex issues.

Arts

Course must meet the first learning outcome:

Course must meet a minimum of two of the remaining four learning outcomes:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Describe the overall rationale for designating this course as Arts Mason Core.

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their

Global History

Course must address all three outcomes:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Global Contexts

Course must address all three outcomes:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Describe the overall rationale for designating this course as Global Understanding Mason Core.

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their competence on each outcome? Please confirm these are reflected in the attached syllabus or uploaded as additional documents as needed.

Information Technology and Computing

Course must meet the following learning outcomes:

Describe the overall rationale for designating this course as Information Technology with Ethics Mason Core.

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their competence on each outcome? Please confirm these are reflected in the attached syllabus or uploaded as additional documents as needed.

Information Technology and Computing

Course must meet the following learning outcomes:

Course must meet one additional learning outcome:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Describe the overall rationale for designating this course as Information Technology Only Mason Core.

Ethics

Course must meet the following learning outcomes:

Describe the overall rationale for designating this course as Ethics Only Mason Core.

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their competence on each outcome? Please confirm these are reflected in the attached syllabus or uploaded as additional documents as needed.

Literature

Course must meet at least three of the learning outcomes:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Describe the overall rationale for designating this course as Literature Mason Core.

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their

Natural Sciences with Lab

Course must meet the following learning outcomes:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Describe the overall rationale for designating this course as Natural Sciences with Lab Mason Core.

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their competence on each outcome? Please confirm these are reflected in the attached syllabus or uploaded as additional

Natural Sciences Non-Lab

Courses must meet the following learning outcomes:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Describe the overall rationale for designating this course as Natural Sciences Non-Lab Mason Core.

Oral Communication

Course must address all of the following learning outcomes:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Describe the overall rationale for designating this course as Oral Communication Mason Core.

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their

Quantitative Reasoning

Course must address all of the following learning outcomes:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Describe the overall rationale for designating this course as Quantitative Reasoning Mason Core.

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their

Social and Behavioral Sciences

Course must meet all three learning outcomes:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Describe the overall rationale for designating this course as Social and Behavioral Sciences Mason Core.

Just Societies

Courses must meet both outcomes, in addition to other required course outcomes related to the primary Mason Core Exploration category:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see "?" for help)

Capstone

While each academic degree program defines its learning outcomes, a Capstone course or sequence should follow these guidelines:

- Minimum of 3 credits
- Later in the curriculum, after a student has taken at least 85 credits, and at the 400 - course level
- No more than 35 students in the course or equivalent instructional/mentored support
- Emphasis on experiential/applied/integrative learning
- Allow students to apply critical thinking skills
- Learning outcomes defined by the degree program

Explain how the course meets the expectations that the capstone experience consolidates the knowledge and

Synthesis

Course must meet learning outcomes 1 and 2:

Course must meet one additional learning outcome:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see "?" for help with submission)

Describe the overall rationale for designating this course as Synthesis Mason Core.

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their

Writing Intensive

Course must address all of the following Writing-Intensive learning outcomes:

Course must also satisfy Writing-Intensive course criteria.

I affirm I have attached the required documents using the syllabus and attachment buttons provided above.

Writing Intensive:

Course must meet at least one Writing-to-learn learning outcome. Please select all that apply from the following:

Course must meet at least one Writing-to-communicate learning outcome. Please select all that apply from the following:

Course must meet the Writing-as-a-process learning outcome:

Course must also satisfy WI course criteria:

I affirm that I have attached the following using the syllabus and attachment buttons provided above:

Western Civilization/World History

Course must meet at least three of the following learning outcomes:

I affirm that I have attached the following using the syllabus and attachment buttons provided above: (see “?” for help with submission)

Describe the overall rationale for designating this course as Western Civilization/World History Mason Core.

For each learning outcome, what assignments or activities will you give that allow students to demonstrate their competence on each outcome? Please confirm these are reflected in the attached syllabus or uploaded as additional

Have you reached out to the Libraries to determine whether there are adequate resources to support your course? If not, please email Meg Meiman, Associate University Librarian for Learning, Research, and Engagement at mmeiman2@gmu.edu.

**Additional
Comments:**

**Reviewer
Comments**

Key: 7393