Course Change Request

Date Submitted: 03/06/26 4:42 pm

Viewing: CLIM 103 : Global Warming: Weather, Climate, and Society Laboratory

Last approved: 09/26/25 5:07 am

Last edit: 03/12/26 4:26 pm

Changes proposed by: bklinger

Catalog Pages referencing this course

Climate Dynamics (CLIM)

Climate Resilience and Adaptation Minor (ATMS)

Select modification type:

In Workflow

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

Approval Path

1. 03/06/26 4:59 pm Barry Klinger (bklinger): Approved for AOES -Curriculum Committee
2. 03/07/26 11:01 am Mark Uhen (muhen): Rollback to AOES -Curriculum Committee for AOES Chair
3. 03/12/26 4:33 pm Barry Klinger (bklinger): Approved for AOES -Curriculum Committee

History

1. Oct 26, 2023 by Luis Ortiz (lortizur)

2. Nov 27, 2024 by Luis Ortiz (lortizur)
3. Sep 26, 2025 by Luis Ortiz (lortizur)

Substantial

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

No

Effective Term: Fall 2026

Subject Code: CLIM - Climate Dynamics **Course Number:** 103

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Global Warming: Weather, Climate, and Society Laboratory

Banner Title: Global Warming: Wea,Clim&Soc

Will section titles vary by semester? No

Credits: 1

Schedule Type: Laboratory

Hours of Lab or Studio per week: 3

Repeatable: May be only taken once for credit, limited to 3 attempts (N3)

Max Allowable Credits: 3

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s):

Recommended Corequisite(s): ~~CLIM 101~~

Required Prerequisite(s) / Corequisite(s) (Updates only):

Required Prerequisites: CLIM 101 with a grade of D*

* May be taken concurrently.

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:

Laboratory course accompanying CLIM 101. This course uses hands-on exercises to teach students about the causes and impacts of climate change, as well as adaptation and mitigation. Students will learn how to find and interpret climate data, analyze data related to climate adaptation and mitigation, quantify inequities in incidence of climate hazards, and communicate the elements of the scientific inquiry process.

Justification:

What: Clarifying the required pre/coreq.

Why: Proposed revision is to add "*May be taken concurrently" to the required prerequisite of CLIM 101. This is because CLIM 101 should be taken in same or earlier semester than CLIM 103. Additionally, The default minimum grade for prereq was a C, but students who take CLIM 101 concurrently with CLIM 103 do not need to get a C in CLIM 101. We are lowering the minimum grade for the required course when it was taken previously, in order to be consistent with the requirement when taken concurrently.

Does this course cover material which crosses into another department? No

Learning Outcomes:

This course will:

1. Provide students with the tools to find and interpret climate-relevant data. By working with real-world datasets, students will learn how to find climate-relevant data from authoritative public sources like NOAA and NASA, as well as local data from county and municipal repositories. Students will learn how to access datasets, read documentation to interpret data, and import it into an analysis platform (e.g., spreadsheet software). By working with data from various sources, students will gain an appreciation for uncertainty and learn techniques for making decisions with incomplete or contradictory information.

2. Expose students to a range of responses to climate change. In this laboratory, students will be presented with data and simplified models of climate adaptation and mitigation. Examples include datasets of available renewable resources for a particular location and emissions inventories. Through this work, students will gain an appreciation for the data that is used in climate adaptation and mitigation studies. The laboratory will also provide a foundation for continued learning on how to interpret and synthesize adaptation- and mitigation-relevant data.

3. Introduce students to climate justice issues. The course will survey global and regional disparities of climate change impacts. Students will use sociodemographic and climate projections data to quantify inequities in incidence of climate hazards across and within countries using tools like the Climate and Economic Justice Screening Tool in the US and projections of global population change.

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

Attach Syllabus

~~Clim103Lab_Oct2023.pdf~~

Additional Attachments

Finding climate data - Assignment.pdf

UHI-Lab.pdf

Mason-Core-Natural-Science-WITH-Lab-Worksheet-July-2024.pdf

Specialized Course Categories:

Mason Core

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

Foundation Courses:

Exploration Courses:

Natural Sciences w/Lab

Exploration Courses:

Integration Courses:

Natural Sciences with Lab

Course must meet the following learning outcomes:

1.Understand how scientific inquiry is based on investigation of evidence from the natural world, and that scientific knowledge and understanding: a) evolves based on new evidence, and b) differs from personal and cultural beliefs

2. Recognize the scope and limits of science.

3. Recognize and articulate the relationship between the natural sciences and society and the application of science to societal challenges (e.g., health, conservation, sustainability, energy, natural disasters, etc.).

4. Evaluate scientific information (e.g., distinguish primary and secondary sources, assess credibility and validity of information).

5. Participate in scientific inquiry and communicate the elements of the process, including: a) making careful and systematic observations, b) developing and testing a hypothesis, c) analyzing evidence, and d) Interpreting results.

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

Syllabus

Completed proposal worksheet

Assignments (if needed)

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

Mark Uhen (muhen) (03/07/26 11:01 am): Rollback: Please change C or better to D or better.

Key: 18153