Course Change Request

Date Submitted: 09/10/25 6:48 pm

Viewing: GGS 354 : Data Analysis and Global Change Detection Techniques

Last approved: 11/20/20 4:56 am

Last edit: 09/22/25 11:13 am

Changes proposed by: nburtch

Catalog Pages referencing this course

Applied Computer Science, BS
Atmospheric Sciences, BS
Climate Resilience and Adaptation Minor (ATMS)
Climate Resilience and Adaptation Minor (ESP)
Data Analysis Minor

Select modification type:
Substantial

Are you completing this form on someone else's behalf?
No

Effective Term: Fall 2026

Subject Code: GGS - Geography & Geoinformation Science **Course Number:** 354

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

In Workflow

1. **GGS 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. Dec 20, 2018 by Nathan Burtch (nburtch)
2. Nov 20, 2020 by Nathan Burtch (nburtch)

Catalog Title: Data Analysis and Global Change Detection Techniques

Banner Title: Data Analy/Glbl Chg Detec Tech

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 3

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

Max Allowable Credits: 9

Default Grade Mode: Undergraduate Regular

Recommended Prerequisite(s): 30 credits and IT 104 or ~~104,~~ STAT 250, or permission of instructor

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: Introduces basic time series methods, especially those used in detecting trends and randomness in time series data. Various data related to global changes on different temporal and spatial scales will be identified, and the relevant analysis methods will be used to those data so that students can detect or confirm changing trends or lack of them in data. Other topics such as data formats, data visualization, and data mining may also be included based on the background of the student body.

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

Learning Outcomes:

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

Attach Syllabus

Additional Attachments

Specialized Course Categories:

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: 7409