

Course Change Request

Date Submitted: 08/28/25 2:16 pm

Viewing: **GEOL 535 : Advanced ~~Quantitative~~ Stratigraphy**

Last approved: 05/18/21 5:01 am

Last edit: 09/11/25 12:56 pm

Changes proposed by: ggilleau

Catalog Pages
referencing this
course

[Climate Science, MS](#)

[Department of Atmospheric, Oceanic and Earth Sciences](#)

[Geology_\(GEOL\)](#)

[Geology and Earth Science, PhD](#)

[SC-MS-CLIS: Climate Science, MS](#)

Select modification type:

~~Simple~~

Substantial

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

No

Effective Term: Spring 2026

Subject Code: GEOL - Geology

Course Number: 535

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title:

In Workflow

1. **AOES -Curriculum
Committee**

2. **AOES Chair**

3. **SC Curriculum
Committee**

4. SC Assistant Dean

5. Assoc Provost-
Graduate

6. Registrar-Courses

7. Banner

Approval Path

1. 09/10/25 2:57 pm
Barry Klinger
(bklinger):
Approved for AOES -
Curriculum
Committee

2. 09/10/25 4:54 pm
Mark Uhen
(muhen): Approved
for AOES Chair

History

Advanced Quantitative Stratigraphy

1. May 18, 2021 by
Tory Sarro (vsarro)

Banner Title: Advanced Quantitative
Stratigraphy

**Will section titles
vary by semester?** No

Credits: 3

Schedule Type: Lecture

**Hours of Lecture or Seminar per
week:** 3

Repeatable: May only be taken once for credit (NR)
GRADUATE ONLY

**Default Grade
Mode:** Graduate Regular

**Recommended
Prerequisite(s):** MATH 114 and STAT 250 or equivalent 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):**

Include

Limited to students with a class of Advanced to Candidacy. (SCRRCLS_ONLY_DC)

Limited to students with a class of Graduate. (SCRRCLS_ONLY_GR)

Limited to students with a class of Junior Plus (SCRRCLS_ONLY_JP)

Limited to students with a class of Non Degree (SCRRCLS_ONLY_ND)

Limited to students with a class of Senior Plus (SCRRCLS_ONLY_SP)

Level(s):**Degree(s):**

Exclude

Non-Degree Undergraduate Degree students may not enroll. (SCRRDEG_NO_NDU)

School(s):**Catalog
Description:**

Quantitative stratigraphy is a branch of geology that applies statistics to reconstruct the time sequence of geological events recorded in sedimentary strata. Methods of interpolation and error analysis used for defining stratigraphic boundaries and events, time scale estimation using integrated chronostratigraphy, and intercalibration are examined. Students receive advanced training in graphic correlation, constrained optimization, ranking and scaling, and dynamic programming.

Justification:

What: Updating course name.

Why: We are going to expand the breadth of the course to other aspects of stratigraphy to suit our new PhD program, so "Advanced Stratigraphy" will allow us to cover a broader range of topics than the original title "Quantitative Stratigraphy".

**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?**No

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.

No

**Additional
Comments:****Reviewer
Comments**

Key: 7266