

# Program Change Request

Date Submitted: 11/01/21 2:29 pm

Viewing: **SC-BA-GEOL : Geology, BA**

Last approved: 02/18/21 4:27 pm

Last edit: 11/12/21 10:29 am

Changes proposed by: jbazaz

Catalog Pages  
Using this Program  
[Geology, BA](#)

- In Workflow
- 1. AOES Committee
  - 2. AOES Chair
  - 3. SC Curriculum Committee
  - 4. SC Associate Dean
  - 5. SC CAT Editor
  - 6. Assoc Provost- Undergraduate
  - 7. Registrar-Programs

2022-2023  
Rationale for

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

Requestor:

- Approval Path
- 1. 11/01/21 9:03 pm  
Barry Klinger (bklinger):  
Approved for AOES Committee
  - 2. 11/02/21 10:19 am  
Mark Uhen (muhen): Approved for AOES Chair

- History
- 1. Nov 1, 2017 by clmig-jwehrheim
  - 2. Nov 21, 2017 by clmig-jwehrheim
  - 3. Jan 29, 2018 by rzachari
  - 4. Feb 18, 2021 by Johanna Riemen (jriemen)

Name	Extension	Email
Geoff Gilleaudeau	3289	ggilleau@gmu.edu

**Effective Catalog:** 2022-2023

**Program Level:** Undergraduate

**Program Type:** Bachelor's

**Degree Type:** Bachelor of Arts

**Title:** Geology, BA

**Banner Title:** Geology, BA

Is this a retitling of  
an existing  
program?

Existing Program

**Registrar/OAPI Use  
Only – SCHEV  
Status** Approved

**Registrar's Office  
Use Only –  
Program Start Term**

**Registrar/OAPI Use  
Only – SCHEV  
Letter**

**Registrar/OAPI Use  
Only – SACSCOC  
Status**

**Concentration(s):**

**INTO Major(s):**

**Registrar/IRR Use  
Only –  
Concentration CIP  
Code**

**College/School:** College of Science

**Department /  
Academic Unit:** Atmospheric, Oceanic, & Earth Sciences

**Jointly Owned  
Program?** No

**Participating**

**Participating**

**Justification**

What: Under "Program Courses," we are including an actual list of the available GEOL courses.

Why: This should lower the confusion level because many students do not realize that they

need the 9 GEOL (or related) credits until they are almost finished. This will also ease the worry of students wondering what courses are available.

What: Adding "& GEOL 103" to GEOL 101.

Why: We are aligning the degree with recent course modifications that split GEOL 101 (4cr lec/lab) into GEOL 101 (3cr lec) + GEOL 103 (1cr lab).

Catalog Published Information

Total Credits Required: Total credits: minimum 120

Registrar's Office Use Only - Program Code: SC-BA-GEOL

Registrar/IRR Use Only – Program CIP Code

Admission Requirements:

Admissions

University-wide admissions policies can be found in the [Undergraduate Admissions Policies](#) section of this catalog. To apply for this program, please complete the [George Mason University Admissions Application](#).

Program-Specific Policies:

Policies

Students must fulfill all [Requirements for Bachelor's Degrees](#) including the [Mason Core](#). [GEOL 317](#) Geomorphology fulfills the writing intensive requirement for this major. For policies governing all undergraduate degrees, see [AP.5 Undergraduate Policies](#).

Degree Requirements:

This is a Green Leaf program. Students should refer to the [Admissions & Policies](#) tab for specific policies related to this program. Candidates for a degree in geology must complete all courses with a minimum GPA of 2.50.

Geology Core

<a href="#">GEOL 101</a> & <a href="#">GEOL 103</a>	Physical Geology ( <a href="#">Mason Core</a> ) and Physical Geology Lab	4
<a href="#">GEOL 102</a> & <a href="#">GEOL 104</a>	Historical Geology ( <a href="#">Mason Core</a> ) and Historical Geology Laboratory ( <a href="#">Mason Core</a> )	4

<a href="#">GEOL 302</a>	Mineralogy	4
<a href="#">GEOL 304</a>	Sedimentary Geology	4
<a href="#">GEOL 308</a>	Igneous and Metamorphic Petrology	4
<a href="#">GEOL 312</a>	Invertebrate Paleontology	4
<a href="#">GEOL 317</a>	Geomorphology 2	4
<a href="#">GEOL 401</a>	Structural Geology	4
Six credits of		6
<a href="#">GEOL 404</a>	Geological Field Techniques 3	
Total Credits		38
2 Fulfills writing-intensive requirement.		
3 A 6-credit geology field camp may be substituted for this requirement; see advisor for details.		

## Chemistry

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<a href="#">CHEM 211</a>	General Chemistry I ( <a href="#">Mason Core</a> )	3
<a href="#">CHEM 213</a>	General Chemistry Laboratory I ( <a href="#">Mason Core</a> )	1
Total Credits		4

## Physics

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Select one from the following:		4
<a href="#">PHYS 243</a>	College Physics I ( <a href="#">Mason Core</a> )	
& <a href="#">PHYS 244</a>	and College Physics I Lab ( <a href="#">Mason Core</a> )	
<a href="#">PHYS 160</a>	University Physics I ( <a href="#">Mason Core</a> )	
& <a href="#">PHYS 161</a>	and University Physics I Laboratory ( <a href="#">Mason Core</a> )	
Total Credits		4

## Mathematics

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Select one from the following:		3-4
<a href="#">MATH 110</a>	Introductory Probability ( <a href="#">Mason Core</a> )	
<a href="#">MATH 111</a>	Linear Mathematical Modeling ( <a href="#">Mason Core</a> )	
<a href="#">MATH 113</a>	Analytic Geometry and Calculus I ( <a href="#">Mason Core</a> )	
Total Credits		3-4

## Computer Science

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<a href="#">GGS 311</a>	Geographic Information Systems	3
Total Credits		3

## Program Courses

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~~Students must take 9 credits of degree-related coursework in a coherent program designed in coordination with advisor and approved by department chair~~ 9

Students must take an additional 9 credits of GEOL or geology-related coursework. While any GEOL course numbered 300-499 is permissible if not used to fulfill other BA requirements, suggested courses include: 1

<a href="#">GEOL 303</a>	Field Mapping Techniques
<a href="#">GEOL 305</a>	Environmental Geology
<a href="#">GEOL 306</a>	Soil Science
<a href="#">GEOL 309</a>	Oceanography
<a href="#">GEOL 313</a>	Hydrogeology
<a href="#">GEOL 320</a>	Geology of Earth Resources
<a href="#">GEOL 321</a>	Geology of Energy Resources
<a href="#">GEOL 325</a>	Planetary Geology
<a href="#">GEOL 332</a>	Paleoclimatology
<a href="#">GEOL 334</a>	Vertebrate Paleontology
<a href="#">GEOL 363</a>	Coastal Morphology and Processes
<a href="#">GEOL 364</a>	Marine Geology
<a href="#">GEOL 403</a>	Geochemistry
<a href="#">GEOL 412</a>	Physical Oceanography
<a href="#">GEOL 417</a>	Geophysics
<a href="#">GEOL 420</a>	Earth Science and Policy ( <a href="#">Mason Core</a> )
<a href="#">GEOL 441</a>	Great Events in Earth History
<a href="#">GEOL 458</a>	Chemical Oceanography

Total Credits

9

1 Other relevant courses may be applied to the program with the approval of the program's director.

Retroactive  
Requirements  
Updates:  
  
Plan of Study:  
  
Honors  
Information:

## Honors in the Major

Earth science and geology majors who have completed 16 credits of math and science, including [GEOL 302](#) Mineralogy with a GPA of 3.00 or higher are eligible to enter the departmental honors program. Transfer students who have an incoming GPA of 3.10 or higher in math and science and a grade of ‘B’ or better in [GEOL 302](#) Mineralogy are also eligible. To graduate with honors in Earth Science, students are required to maintain a minimum GPA of 3.00 in math and science courses and complete one of the two following sets of courses with an average GPA of 3.50 or better:

First Set of Courses

<a href="#">GEOL 410</a>	Research Proposal Preparation	1
<a href="#">GEOL 411</a>	Geological Research	3
<a href="#">GEOL 420</a>	Earth Science and Policy ( <a href="#">Mason Core</a> )	3

Second Set of Courses

<a href="#">CLIM 408</a>	Senior Research	3
<a href="#">CLIM 409</a>	Research Internship	3
<a href="#">GEOL 420</a>	Earth Science and Policy ( <a href="#">Mason Core</a> )	3

Accelerated  
Description/Dual  
Degree  
Description:

INTO-Mason  
Requirements:

College  
Requirements &  
Policies:

Department /  
Academic Unit  
Requirements &  
Policies:

## Program Outcomes

### Additional Program Information

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*This information is required by the Office of Accreditation and Program Integrity.*

Courses offered via  
distance (if  
applicable):

Indicate whether  
students are able

What is the  
primary delivery  
format for the  
program?

Face-to-Face Only

Does any portion of this program occur off-campus?

No

Off-campus details:

Are you working with a vendor / other collaborators to offer your program?

No

Please explain:

Related  
Departments

Could this program prepare students for any type of professional licensure, in  
Virginia or elsewhere?

No

Please explain:

**Are you adding or removing a licensure component?**

No

Please explain:

### **Additional SCHEV & SACSCOC Information**

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**Are you changing the total number of credits required for this program?**

No

**Are you changing the delivery format in any way (e.g adding an online option)?**

No

**Are you adding/removing a licensure option which was approved by SCHEV?**

No

**Will any portion of this program be offered at an off-campus location?**

No

**What off-campus location(s)? List all**

**What percentage of credits toward this program are offered at the off-campus location(s)?  
Please list percentages by site (i.e. 15% at Site A, 35% at Site B etc.)**

**Will this program change affect any specialized accreditation?**

No

**Is the content of the new program closely related to that of an existing approved program?**

No

**Which existing approved program(s)?**

**Is this new program considered to be "advancing the degree level of a currently approved program" (i.e. existing content is at lower degree level, new content is at the higher degree level)?**

No

**Which existing approved program(s)?**

**Is this new program considered to be "lowering the degree level of a currently approved program" (i.e. existing content is at higher degree level, new content is at the lower degree level)?**



No

Which existing approved program(s)?

Does this change represent a repackaging of content in an existing approved degree/certificate program?

No

Which existing approved program(s)?

Percentage of total credits containing new course content, excluding gen ed courses for undergraduate programs. ("New content" means content that is not currently included in an existing approved degree/certificate program.) Please choose a percentage (i.e. 0%-100%)

less than 25%

Are the total credits for the program increasing or decreasing by more than 3 credits?

No

Will any additional equipment/facilities be needed?

No

Description of institutional impact:

Will any additional faculty be required?

No

Description of institutional impact:

Will any additional financial resources be needed?

No

Description of institutional impact:

Will any additional library/learning resources needed?

No

Description of institutional impact:

### OAPI Use Only – Determination of SACSCOC Impact

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Comments or Notes

Green Leaf Program Designation

Is this a Green Leaf program? Yes

Green Leaf Designation Sustainability-focused designation

Sustainability-focused academic programs require at least one green leaf course. Either that course is itself sustainability-focused or else the program requires a set of sustainability-related courses with aggregated substance equivalent to a sustainability-focused course.

Relationship to Existing Courses

Relationship to Existing Programs

List sustainability-focused courses currently required in the degree program:

Sustainability-related academic programs either require at least one sustainability-related course or else offer any green leaf course as an option or elective \*

List sustainability-related courses currently required in the degree

Does this program cover material which crosses into another department?

No

Impacted Departments

Additional Attachments

SCHEV Proposal

Executive Summary

Reviewer Comments

Additional Comments

**Is this course required of all students in this degree program?**

%wi\_required.eshtml%

**Attached  
Document**

Key: 152