



# Program Approval Form

For approval of new programs and deletions or modifications to an existing program.

## Action Requested:

- ☐ Create New (SCHEV approval required except for minors)
- ☐ Inactivate Existing
- ☒ Modify Existing (check all that apply)
- ☐ Title (SCHEV approval required except for minors)
- ☐ **Concentration** (Choose one): ☐ Add ☐ Delete ☐ Modify
- ☒ Degree Requirements
- ☐ Admission Standards/ Application Requirements
- ☐ Other Changes: \_\_\_\_\_

## Type (Check one):

- ☒ B.A. ☐ B.S. ☐ Minor
- ☐ M.A. ☐ M.S. ☐ M.Ed.
- ☐ Ph.D.
- ☐ Undergraduate Certificate\*
- ☐ Graduate Certificate\*
- ☐ Other:

**College/School:** College of Science **Department:** AOES

**Submitted by:** Jen Gettys **Ext:** 3.5302 **Email:** jbazaz@gmu.edu

**Effective Term:** Fall 2015 **Please note:** For students to be admitted to a new degree, minor, certificate or concentration, the program must be fully approved, entered into Banner, and published in the University Catalog.

## Justification: (attach separate document if necessary)

Adding "Mason Core and Elective Credits" and "Mason Core" sections in order to have the catalog listing clearly show how the degree equals 120 credits and how the Mason Core requirements can be fulfilled.

## Program Title: (Required)

Title must identify subject matter. Do not include name of college/school/dept.

## Concentration(s):

## Admissions Standards / Application Requirements:

(Required only if different from those listed in the University Catalog)

## Degree Requirements:

Consult University Catalog for models, attach separate document if necessary using track changes for modifications

**Courses offered via distance:**  
(if applicable)

**TOTAL CREDITS REQUIRED:**

Existing	New/Modified
Geology, BA	
[Mason Core and Electives section not included]	See the bottom portion of the degree listing attached.

\*For Certificates Only: Indicate whether students are able to pursue on a ☐ Full-time basis ☐ Part-time basis

## Approval Signatures

Department \_\_\_\_\_ Date \_\_\_\_\_ College/School \_\_\_\_\_ Date \_\_\_\_\_ Provost's Office \_\_\_\_\_ Date \_\_\_\_\_  
*Required for Minors and Interdisciplinary Programs*

If this program may impact another unit or is in collaboration with another unit at Mason, the originating department must circulate this proposal for review by those units and obtain the necessary signatures prior to submission. Failure to do so will delay action on this proposal.

Unit Name	Unit Approval Name	Unit Approver's Signature	Date

## For Graduate Programs Only

Graduate Council Member \_\_\_\_\_ Provost Office \_\_\_\_\_ Graduate Council Approval Date \_\_\_\_\_

**For Registrar Office's Use Only:** Received \_\_\_\_\_ Banner \_\_\_\_\_ Catalog \_\_\_\_\_ revised 6/7/12

## **Program Proposal Submitted to the College of Science Curriculum Committee (COSCC)**

The form above is processed by the Office of the University Registrar. This second page is for the COSCC's reference.  
Please complete the applicable portions of this page to clearly communicate what the form above is requesting.

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### **FOR ALL PROGRAMS** (required)

Program Title: Geology, BA

Date of Departmental Approval: 3/11/2015

### **FOR INACTIVATED PROGRAMS** (required if inactivating a program)

- Reason for Inactivation:

### **FOR MODIFIED PROGRAMS** (required if modifying a program)

- Summary of the Modification: Adding "Mason Core and Elective Credits" and "Mason Core" sections.
- Text before Modification (title, degree requirements, etc.): Sections weren't included.
- Text after Modification (title, degree requirements, etc.): See attached.
- Reason for the Modification: In order to have the catalog listing clearly show how the degree equals 120 credits and how the Mason Core requirements can be fulfilled.

### **FOR NEW PROGRAMS** (required if creating a new program)

- Reason for the New Program:
- Relationship to Existing Programs:
- Relationship to Existing Courses:
- Semester of Initial Offering:
- Insert Tentative SCHEV Proposal Below

## Geology, BA

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**Banner Code: SC-BA-GEOL**

This program of study is offered by the [Department of Atmospheric, Oceanic and Earth Sciences](#) in the [College of Science](#).

Students must fulfill all [requirements for bachelor's degrees](#) including the [Mason Core](#). Students in the [Geology, BA](#) must also complete additional [College of Science Bachelor of Arts requirements](#).

Candidates for a degree in geology must complete the following with a minimum GPA of 2.50, and through the coursework below will satisfy the [Mason Core](#) requirements in 'Natural Science' and 'Quantitative Reasoning'. [GEOL 317](#) fulfills the writing intensive requirement for this major.

This has been designated a Green Leaf program. For further information, please visit [Green Leaf Programs and Courses](#).



## Degree Requirements

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### Geology Core (38 credits)

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- [GEOL 101 - Introductory Geology I](#) Credits: 4 ([Mason Core: Natural Science](#) course)
- [GEOL 102 - Introductory Geology II](#) Credits: 4 ([Mason Core: Natural Science](#) course)
- [GEOL 302 - Mineralogy](#) Credits: 4
- [GEOL 304 - Sedimentary Geology](#) Credits: 4 \*
- [GEOL 308 - Igneous and Metamorphic Petrology](#) Credits: 4 \*
- [GEOL 312 - Invertebrate Paleontology](#) Credits: 4
- [GEOL 317 - Geomorphology](#) Credits: 4 (fulfills writing intensive requirement)
- [GEOL 401 - Structural Geology](#) Credits: 4
- [GEOL 404 - Geological Field Techniques](#) Credits: 1-6 (6 credits required. A 6-credit geology field camp may be substituted for this requirement, see advisor for details)

### Note

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\* Students must achieve a grade of 'C' or better in [GEOL 302](#) before taking [GEOL 304](#) or [GEOL 308](#).

### Chemistry (4 credits)

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- [CHEM 211 - General Chemistry](#) Credits: 4 ([Mason Core: Natural Science](#) course)

## Physics (4 credits)

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Choose from one of the following [Mason Core: Natural Science](#) sequences:

- [PHYS 243 - College Physics](#) Credits: 3
  - [PHYS 244 - College Physics Lab](#) Credits: 1
- Or**
- [PHYS 160 - University Physics I](#) Credits: 3
  - [PHYS 161 - University Physics I Laboratory](#) Credits: 1

## Mathematics (3-4 credits)

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Choose one from the following [Mason Core: Quantitative Reasoning](#) courses:

- [MATH 110 - Introductory Probability](#) Credits: 3
- [MATH 111 - Linear Mathematical Modeling](#) Credits: 3
- [MATH 113 - Analytic Geometry and Calculus I](#) Credits: 4

## Computer Science (3 credits)

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- [GGIS 311 - Introduction to Geographic Information Systems](#) Credits: 3

## Program Courses (9 credits)

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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.

**Core Coursework Total: 61-62 credits**

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## Mason Core and Elective Credits (58-59 credits)

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These 58-59 credits are available to fulfill any remaining [Mason Core](#) requirements (outlined below). Once those and all [requirements for bachelor's degrees](#) and [College of Science Bachelor of Arts requirements](#) are met, any remaining credits may be completed by elective courses. Students are strongly encouraged to consult with their advisor to ensure that they fulfill all requirements.

## Mason Core

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Please note that some [Mason Core](#) requirements may already be fulfilled by the major requirements listed above.

Expand each item below for a link to specific course lists for each category:

## Foundation Requirements (15-19 credits)

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- [Mason Core UWCU - Written Communication Credits: 6](#)
- [Mason Core UOC - Oral Communication Credits: 3](#)
- [Mason Core UQR - Quantitative Reasoning Credits: 3](#)

- [Mason Core UITC - Information Technology Credits: 3-7](#)

## **Core Requirements (22 credits)**

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- [Mason Core UFA - Arts Credits: 3](#)
- [Mason Core UGU - Global Understanding Credits: 3](#)
- [Mason Core ULIT - Literature Credits: 3](#)
- [Mason Core UNSL - Natural Science Credits: 7](#)
- [Mason Core USBS - Social and Behavioral Sciences Credits: 3](#)
- [Mason Core UWC - Western Civilization/Western History Credits: 3](#)

## **Synthesis/Capstone Requirement (minimum 3 credits)**

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- [Mason Core USYN - Synthesis/Capstone Credits: minimum 3](#)

## **Degree Total: Minimum 120 credits**

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