

ENVIRONMENTAL GEOSCIENCE, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN GEOLOGY

Curriculum Guide

GPA Requirement

Major GPA: 2.0 or higher

Overall GPA: 2.0 or higher

Summary*

Code	Title	Hours
	Rock Studies 2 Requirements	45
	Other Basic Requirements	0-3
	Major/Concentration Requirements	48
	Natural Science and Math College-Wide Requirement	9
	Electives	18

* All undergraduate degree programs require a minimum of 120 credits. Some courses meet multiple requirements, but are only counted once toward the 120 credit total required to graduate.

Rock Studies 2 Requirements

Code	Title	Hours
The Rock		
SUBJ 139	Foundations of Academic Discovery ¹	3
ENGL 102	Critical Writing	3
ENGL 104	Critical Reading	3
MATH 225	Calculus I	4
	Select one of the following:	3
COMM 200	Civil Discourse: Theory & Practice	
PHIL 110	Ethics and Civil Discourse	
POLS 235	Civil Discourse and Democracy	
	Subtotal	16
Integrated Inquiry		
<i>Creative and Aesthetic Inquiry</i>		
	Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)	3
<i>Humanities Inquiry</i>		
	Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)	3
<i>Social Science Inquiry</i>		
	Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)	3
<i>Natural Sciences Inquiry</i>		
CHEM 107 & CHEM 111	General Chemistry I and General Chemistry I Lab ²	4
<i>Physical Science Inquiry</i>		
PHYS 216	University Physics 1 with Lab ²	4
	Subtotal	17
Thematic Thread		

Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) ³	12
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Total Hours	45
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¹ Course offered in multiple subjects; cannot take course in first major subject.

² Course counts for 50% of Major requirements and Major GPA

³ One course from each category; six credits must be 300-level or above; no more than 4 credits from one subject area; specific courses required in first major, regardless of prefix of course, cannot be used to satisfy thread requirements; any course with same prefix as first major cannot be used to satisfy thread requirements, even if it is not a course in the first major.

Basic Math Requirement

Check with your adviser or a current degree audit report to see if you have been exempted from this course. The credit earned in this course will not be counted toward the 120 credit hour minimum needed to earn a degree.

Code	Title	Hours
	Complete one of the following:	0-3
	Meet required minimum SAT or ACT math score OR	
ESAP 110	Beginning Algebra	
	Total Hours	0-3

DIVERSITY, EQUITY, AND INCLUSION REQUIREMENT

Students must take and pass a course with the Diversity, Equity, and Inclusion (DEI) designation prior to graduation. Students can meet this requirement by taking any DEI - designated course in any program at any time during their undergraduate career.

Major/Concentration Requirements

- 29 major credits must be taken at SRU or PASSHE
- 29 major credits must be taken at the 300 level or above

Code	Title	Hours
Environmental Geoscience Core		
EGEO 131	Oceanography	3
GES 115	Introduction to Geospatial Technologies	3
GES 220	General Methods of Fieldwork	3
GES 325	Introduction to Geographic Information Science	3
<i>Capstone</i>		
ENVS 440	Science, Technology and the Environment	
EGEO 450	Internship	
EGEO 399	Field Camp	
	Subtotal	15
Geology Core Program Requirements		
EGEO 201	Earth Materials and Processes/Lab	4
EGEO 202	Earth History/Lab	4
EGEO 327	Structural Geology	4
EGEO 360	Introduction to Hydrology/Lab	3
EGEO 341	Geomorphology/Lab	3
EGEO 353		
EGEO 362	Stratigraphy/Lab	4
	Subtotal	22

Electives

Select six credits from the following:	6
EGEO 303 Paleontology/Lab	
EGEO 328 Plate Tectonics	
EGEO 342 Glacial Geology/Lab	
EGEO 358 Introduction to Geophysics/Lab	
EGEO 451 Geochemistry/Lab	
EGEO 460 Hydrogeology	
EGEO 469 Field Investigations in the Geosciences	
GES 321 Introduction to UAS for Remote Sensing and Monitoring	
GES 410 Remote Sensing	
GES 425 Advanced Geographic Information Systems	
GES 426 Environmental Modeling	
CIVL 330 Environmental Engineering *	
CIVL 340 Geotechnical Engineering *	
CIVL 350 Water Resources Engineering *	
CIVL 430 Storm Water Management *	
ENGR 230 Mechanics of Materials *	
PNGE 312 Petrophysics *	
Subtotal	6
Total Hours	43

* Some courses may require pre-requisites. Please see course descriptions to determine if there are any pre-requisites for that specific course.

Required Related Courses

Code	Title	Hours
These credits do not count towards the major		
CHEM 108	General Chemistry II	3
CHEM 112	General Chemistry II Lab	1
Total Hours		4

Natural Science & Math College-Wide Requirement

Code	Title	Hours
CHEM 107	General Chemistry I	3
CHEM 111	General Chemistry I Lab	1
MATH 225	Calculus I	4
PHYS 216	University Physics 1 with Lab	4
Total Hours		12

Co-curricular and Experiential Learning

Students are encouraged to explore additional curricular and co-curricular opportunities. There is a strong correlation between long-term student success and participation in the following types of programs and activities:

1. International study programs (short-term, semester, and year-long)
2. Student-faculty research
3. Service-learning classes
4. Internships
5. Volunteering

Important Curriculum Guide Notes

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisers to ensure accurate progress towards degree completion. *The information on this guide is current as of the date listed. Students are responsible for curriculum requirements at the time of enrollment at the University.*

PASSHE - Pennsylvania State System of Higher Education Institutions

ENVIRONMENTAL GEOSCIENCE - BS (6124)

Concentration in Geology (GEOL)

This program is effective as of Fall 2020

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