

ENVIRONMENTAL GEOSCIENCE, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN APPLIED GEOGRAPHIC TECHNOLOGY

Curriculum Guide

GPA Requirement

Major GPA: 2.0 or higher

Overall GPA: 2.0 or higher

Summary*

Code	Title	Hours
	Rock Studies 2 Requirements	43
	Other Basic Requirements	0-3
	Major Requirements	48
	Electives	29

* 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
STAT 152	Elementary Statistics I	3
Select one of the following:		3
COMM 200	Civil Discourse: Theory & Practice	
PHIL 110	Ethics and Civil Discourse	
POLI 235	Civil Discourse and Democracy	
Subtotal		15
Integrated Inquiry		
<i>Creative and Aesthetic Inquiry</i>		
Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)		3
<i>Humanities Inquiry</i>		
Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)		3
<i>Social Science Inquiry</i>		
Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/)		3
<i>Natural Sciences Inquiry</i>		
SCI 101	Science of Life	3
<i>Physical Science Inquiry</i>		
EVGE 201	Earth Materials and Processes/Lab	4
Subtotal		16
Thematic Thread		

Select 12 Credits (<https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/>) ³ 12

Total Hours 43

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 Requirements

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

Code	Title	Hours
Environmental Geoscience Core		
EVGE 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
Capstone		3
EVGE 399	Field Camp	
EVGE 450	Internship	
EVSC 440	Science, Technology and the Environment	
Subtotal		15
Applied Geographic Technology Core Requirements		
CPSC 236	Selected Computer Languages	3
GES 315	Cartography I	3
GES 321	Introduction to UAS for Remote Sensing and Monitoring	3
GES 345	Population Analysis	3
GES 410	Remote Sensing	3
GES 415	Cartography II	3
GES 425	Advanced Geographic Information Systems	3

GES 426	Environmental Modeling	3
CIVL 210	Elementary Survey	3
Subtotal		27
Electives - Applied Geographic Technology		
6 credits required		6
EVGE 303	Paleontology/Lab	
EVGE 327	Structural Geology	
EVGE 328	Plate Tectonics	
EVGE 340	Air Pollution Meteorology	
EVGE 341	Geomorphology/Lab	
EVGE 342	Glacial Geology/Lab	
EVGE 358	Introduction to Geophysics/Lab	
EVGE 360	Introduction to Hydrology/Lab	
EVGE 362	Stratigraphy/Lab	
EVGE 460	Hydrogeology	
GES 324	Environmental Law and Policy	
GES 344	Environmental Justice	
GES 355	Earth's Changing Climate	
GES 361	Gender and the Environment	
GES 362	Applications in Sustainability	
GES 469	Field Investigations in the Geosciences	
ECON 315	Economics of Sustainable Development *	
HEMT 314	Sustainable Planning for Tourism	
HLTH 411	Global Health	
PCRM 204	Environmental Communication	
PCRM 348	Natural History of Ecosystems I	
PCRM 349	Natural History of Ecosystems II	
PCRM 377	Cultural Resources Management	
PHIL 324	Environmental Ethics	
Total Hours		48

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)/CIM 514
Concentration in Applied Geographic Technology (APGT)
This program is effective as of Effective Summer 2025
Revised 07.21.2025
UCC 11.26.2024

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

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 Courses
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*