

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

## Curriculum Guide

### GPA Requirement

Major GPA: 2.0 or higher  
Overall GPA: 2.0 or higher

### Summary\*

Code	Title	Hours
	Liberal Studies Requirements	46-47
	Other Basic Requirements	0-3
	Computer Competency	0-3
	Major Requirements	58
	Natural Science & Math College Wide Requirement	12
	Electives	15

\* 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.

## Liberal Studies Requirements

See Liberal Studies Guide for Goal and Enrichment choices

Code	Title	Hours
<b>Goal Course Requirements</b>		
Complete Goal requirements as indicated below		
<i>Basic Requirements</i>		
ENGL 102	Critical Writing	3
ENGL 104	Critical Reading	3
COMM 200	Civil Discourse: Theory & Practice	3
<i>The Arts</i>		
Goal ( <a href="http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/">http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/</a> )		3
<i>Global Community</i>		
Goal-Non-US ( <a href="http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/">http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/</a> )		3
Goal-Non-US ( <a href="http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/">http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/</a> )		3
Goal-US ( <a href="http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/">http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/</a> )		3
<i>Human Institutions/Interpersonal Relationships</i>		
Goal ( <a href="http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/">http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/</a> )		3
<i>Science, Technology &amp; Math</i>		
Select from the following recommended courses:		9-10
PHYS 211	General Physics I with Lab	
CHEM 107	General Chemistry I	

CHEM 111	General Chemistry I Lab	
MATH 225	Calculus I	
<i>Challenges of the Modern Age</i>		
Goal ( <a href="http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/">http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/</a> )		3
Subtotal		36-37
<b>Enrichment Course Requirements</b>		
Select one course from three of the following Enrichment Areas:		9-10
The Arts ( <a href="http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/">http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/</a> )		
Global Community ( <a href="http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/">http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/</a> )		
Human Institutions/Interpersonal Relationships ( <a href="http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/">http://catalog.sru.edu/undergraduate/liberal-studies/liberal-studies-guide/</a> )		
Science, Technology & Math (p. 1) <sup>1</sup>		
Subtotal		9-10
Total Hours		46-47

### Note

<sup>1</sup> MATH 230 recommended

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

## 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		
ACSD 110	Beginning Algebra	
Total Hours		0-3

## Computer Competency

Code	Title	Hours
Demonstrate "computer competency" by one of the following:		0-3
Pass Computer Competency Exam OR		
Select one of the following at SRU or another post-secondary institution:		
CPSC 100	Introduction to Computing for Liberal Arts	
CPSC 110	Computer Concepts	
CPSC 130	Introduction to Computing and Programming	
PE 202	Technology for Wellness	
Total Hours		0-3

## 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
<b>Environmental Geoscience Core</b>		
Any 100-level EGEO course <sup>1</sup>		3

EGEO 201	Earth Materials and Processes/Lab <sup>1</sup>	4
EGEO 202	Earth History/Lab <sup>1</sup>	4
EGEO 203	Quantitative Methods <sup>1</sup>	3
EGEO 272	Introduction to Georeports/Lab <sup>1</sup>	1
Subtotal		15
<b>Geology Core Program Requirements</b>		
EGEO 303	Paleontology/Lab <sup>1</sup>	4
EGEO 327	Structural Geology <sup>1</sup>	4
EGEO 341	Geomorphology/Lab <sup>1</sup>	3
EGEO 351	Mineralogy/Lab <sup>1</sup>	4
EGEO 352	Petrology/Lab <sup>1</sup>	4
EGEO 362	Stratigraphy/Lab <sup>1</sup>	4
Subtotal		23
<b>Electives</b>		
Select nine credits from the list below		9
Subtotal		9
<b>Field Camp</b>		
Select four credits minimum at an acceptable field station		
EGEO 399	Field Camp <sup>1</sup>	4
Subtotal		4
<b>Related Courses</b>		
GES 325	Introduction to Geographic Information Science <sup>1</sup>	3
or GES 410	Remote Sensing	
MATH 230	Calculus II <sup>1</sup>	4
Subtotal		7
Total Hours		58

<sup>1</sup> Course counts for 50% of Major requirements and Major GPA

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

## Electives

Code	Title	Hours
EGEO 271	Geotechniques: Lab <sup>1</sup>	2
EGEO 323	Planetary Geology <sup>1</sup>	3
EGEO 328	Plate Tectonics <sup>1</sup>	3
EGEO 342	Glacial Geology/Lab <sup>1</sup>	3
EGEO 358	Introduction to Geophysics/Lab <sup>1</sup>	3
EGEO 360	Introduction to Hydrology/Lab <sup>1</sup>	3
EGEO 448	X-ray Spectrometry <sup>1</sup>	3
EGEO 451	Geochemistry/Lab <sup>1</sup>	4
EGEO 453	Geotechniques: Geochemistry <sup>1</sup>	1
EGEO 458	Geophysical Field Methods/Lab <sup>1</sup>	3
EGEO 460	Hydrogeology <sup>1</sup>	3
EGEO 469	Field Investigations in the Geosciences <sup>1</sup>	1-3
EGEO 476	Geotechniques: Geophysics <sup>1</sup>	1
EGEO 482	Senior Seminar <sup>1</sup>	1
EGEO 498	Selected Topics <sup>1</sup>	3
ENVS 311	Environmental Monitoring and Sampling <sup>1</sup>	3

<sup>1</sup> Course counts for 50% of Major requirements and Major GPA

## Required Related Courses

Code	Title	Hours
<b>These credits do not count towards the major</b>		
CHEM 108	General Chemistry II	3
CHEM 112	General Chemistry II Lab	1
PHYS 213	General Physics III/ Lab	4
Total Hours		8

## 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 211	General Physics I with Lab	4
Total Hours		12

## 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 2016.

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