

GEOGRAPHY, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN ENVIRONMENTAL STUDIES & SUSTAINABILITY

Curriculum Guide

GPA Requirement

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

Summary*

Code	Title	Hours
	Rock Studies 2 Requirements	42-44
	Other Basic Requirements	0-3
	Computer Competency	0-3
	Major Requirements	56-58
	Electives	22

* 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	
POLS 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>		
Select one of the following:		3-4
SCI 101	Science of Life	
100 Level Chemistry & Lab (CHEM)		
100 Level Biology & Lab (BIOL)		

Physical Sciences Inquiry

Select one of the following:		3-4
SCI 102	Understanding the Physical World	
100 Level Environmental Geoscience & Lab (EGEO)		
Subtotal		15-17
Thematic Thread		
Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/) ²		12
Total Hours		42-44

- Course offered in multiple subjects; cannot take course in first major subject.
- 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

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

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

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

Code	Title	Hours
Core		
GES 150	The Natural Environment ¹	3

GES 205	Cultural Geography ¹	3
GES 315	Cartography I ¹	3
GES 331	Economic Geography ¹	3
Subtotal		12

Techniques Core

GES 115	Introduction to Geospatial Technologies ¹	3
GES 220	General Methods of Fieldwork ¹	3
GES 325	Introduction to Geographic Information Science ¹	3
EGEO 272	Introduction to Georeports/Lab ¹	1
Subtotal		10

Environmental Studies Core

Introductory Course

Select one of the following:		3
Any 100 level BIOL course ²		
Any 100 level EGEO course ²		
GES 135	Introduction to Environmental Problems ¹	
Subtotal		3

Additional Environmental Studies Core Courses

GES 235	Conservation ¹	3
GES 324	Environmental Law and Policy ¹	3
GES 362	Applications in Sustainability ¹	3
GES 344	Environmental Justice ¹	3
or PHIL 324	Environmental Ethics	
Subtotal		12

Capstone Experience

GES 444	World Environmental Cultures ¹	3
or GES 469	Field Investigations in the Geosciences	
Subtotal		3

A critical understanding of Community through 40 hours of Service Learning

Service Learning

Electives

Select at least one course from each of the following blocks below, at least five courses must be 300 level or above:

Environment (p. 2)		
Planning (p. 2)		
Community (p. 2)		
Subtotal		16-18

Total Hours 56-58

¹ Course counts for 50% of Major requirements and Major GPA
² Course counts for 50% of Major requirements but not for Major GPA
 * Some courses may require pre-requisites. Please see course descriptions to determine if there are any pre-requisites for that specific course.

Environment

Code	Title	Hours
BIOL 104	¹	4
BIOL 105	Environmental Biology ¹	3
BIOL 120	Plants and Society ¹	3
BIOL 305	Wetlands and Aquatic Plants/Lab ¹	3
BIOL 306	Freshwater Biomonitoring/Lab ¹	3

BIOL 401	Ecology with Lab ¹	3
EGEO 121	Meteorology/Lab ¹	4
EGEO 131	Oceanography ¹	3
Any EGEO 300/400 level course ²		3
ENGL 410	Literature of the Environment ¹	3
GES 321	Introduction to UAS for Remote Sensing and Monitoring	3
GES 355	Earth's Changing Climate ¹	3
GES 356	Earth's Changing Climate Laboratory ¹	1
GES 426	Environmental Modeling ¹	3
PCRM 348	Natural History of Ecosystems I ¹	3
PCRM 349	Natural History of Ecosystems II ¹	3

¹ Course counts for 50% of Major requirements and Major GPA
² Course counts for 50% of Major requirements but not for Major GPA

Planning

Code	Title	Hours
ECON 315	Economics of Sustainable Development ¹	3
GES 215	Planning for Sustainable Communities ¹	3
GES 345	Population Analysis ¹	3
GES 363	Energy and Society ¹	3
GES 410	Remote Sensing ¹	3
GES 415	Cartography II ¹	3
GES 425	Advanced Geographic Information Systems ¹	3
HEMT 210	Contemporary Travel and Tourism ¹	3
HEMT 314	Sustainable Planning for Tourism ¹	3
PCRM 377	Cultural Resources Management ¹	3

¹ Course counts for 50% of Major requirements and Major GPA

Community

Code	Title	Hours
GES 344	Environmental Justice ¹	3
GES 361	Gender and the Environment ¹	3
GES 375	Geography of Intolerance ¹	3
EGEO 368	Women in Science ¹	3
HLTH 311	International Health ¹	3
NLPA 120	Civic Engagement and Community Decision-Making ¹	3
NLPA 220	Introduction to Nonprofit Management ¹	3
INDP 304	Urban Sociology ¹	3
INDP 309	Health and Society ¹	3
NLPA 320	Community Change and Development ¹	3
PHIL 324	Environmental Ethics ¹	3

¹ Course counts for 50% of Major requirements and Major GPA

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

GEOGRAPHY - BS (6142)

Concentration in Environmental Studies and Sustainability (ESSU)

This program is effective as of Fall 2019.

Revised 8-2019

UCC 5.19.2019