GEOGRAPHY, 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		42-44
Other Basic Requirements		0-3
Major/Concentration Requirements		58-60
Electives		25

* 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		
Creative and Aesthetic Inquiry		
Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
Humanities Inquiry		
Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
Social Science Inquiry		
Select 3 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
Natural Sciences Inquiry		
Select one of the following:		3-4
SCI 101	Science of Life	
CHEM 1xx	100 Level Chemistry & Lab	
BIOL 1XX	100 Level Biology & Lab	
Physical Sciences Inquiry		
Select one of the following:		3-4
SCI 102	Understanding the Physical World	

Code	Title	Hours
EGEO 1XX	100 Level Environmental Geoscience & Lab	
Subtotal		15-17
Thematic Thread		
Select 12 Credits (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) [2]		12
Total Hours		**42-44**

[1] Course offered in multiple subjects; cannot take course in first major subject.

[2] 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

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

Code	Title	Hours
Basic 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
Applied Geographic Technology Core		
GES 345	Population Analysis [1]	3
GES 410	Remote Sensing [1]	3
GES 415	Cartography II [1]	3

GES 425	Advanced Geographic Information Systems [1]	3
GES 426	Environmental Modeling [1]	3
Subtotal		15
Other Required Technology Core		
CPSC 130	Introduction to Computing and Programming	3
CPSC 146	Programming Principles	3
Subtotal		6
Capstone Experience		
Select one of the following:		3
GES 450	Internship [1]	
GES 489	Applied Geospatial Technologies [1]	
GES 490	Independent Study [1]	
Subtotal		3
Special Interest Area		
Select four courses from special interest area [2]		12-14
Total Hours		**58-60**

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

[2] Example: geography, geology, economics, biology, criminal, political science, marketing, communication, history, parks and recreation, public health and so on under consultation with student's Academic Adviser.
  Note: at least four courses must be 300 level or above.

* 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 classes
4. Internships
5. Volunteering

GEOGRAPHY - BS (6142)
Concentration in Applied Geographic Technology (AGET)
This program is effective as of Fall 2019.
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UCC 11/27/2018

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