

Lock Haven University
Department of Geology and Physics
Bachelor of Science
Geology: Geography and GIS

Effective: Fall 2019

Intellectual Foundation	9 sh
Written Communication	3 sh
ENGL100: Composition	3
WC Competency 1	
WC Competency 2	
Oral Communication	3 sh
Mathematical and Computational Thinking	3 sh
MATH113: Pre-Calculus	3
Critical Thinking	
CT Competency 1	
CT Competency 2	

Knowledge and Inquiry	21 sh
Natural Science Inquiry	6 sh
GEOS130: Principles of Geology 1	3
GEOS131: Principles of Geology 2	3
Historical, Behavioral, and Social Science Inquiry	6 sh
Philosophical, Literary, and Aesthetic Inquiry	9 sh

Personal and Social Responsibility	12 sh
Global Awareness and Citizenship	9 sh
GAC-H	
Wellness	3 sh
Experiential Learning	
EL Competency 1	
EL Competency 2	

Electives	17 sh

First Year Student Seminar	1 sh
SCII19: First Year Student Seminar	1 sh

Major Area and Cognate Courses	60 sh
BIOL106: Principles of Biology 1	3
BIOL107: Principles of Biology 2 #	3
GEOG100: Physical Geography	3
PHYS135: Meteorology	3
GEOS120: Oceanography	3
GEOS213: Introduction to GIS	3
GEOS215: Environmental Geology #	3
GEOS230: Geomorphology #	3
GEOS313: Advanced GIS #	3
GEOS360: Hydrogeology #	4
GEOS451: Coastal and Environmental Oceanography # (Summer course at Wallops Island, VA)	3
GEOS490: Capstone Research Project # Geography Course	2
These can be any course above GEOG100 #	15
200+ Level Non-Science supporting courses #	6
Geology Field/Lab Experience	3
A combination of any of the courses below	
GEOS260: Geology Field Methods # (1-3 sh)	
GEOS369: Internship # (1-3 sh)	
GEOS499: Independent Study # (1-3 sh)	

= Advanced Course Work

Lock Haven University
Geology and Physics Department
Geology—Geography and GIS Track
Suggested Course Sequence

Fall Freshman (example)	Credits
ENGL100: Composition	3
SCII19: First Year Student Seminar	1
GEOS130: Principles of Geology 1	3
BIOL106: Principles of Biology 1	3
MATH113: Pre-Calculus	3
General Education Course	3
Total Credits:	16

Spring Freshman (example)	Credits
GEOS131: Principles of Geology 2	3
BIOL107: Principles of Biology 2	3
General Education Course	3
General Education Course	3
General Education Course	3
Total Credits:	15

Fall Sophomore (example)	Credits
GEOS230: Geomorphology*	3
OR	
GEOS215: Environmental Geology**	3
AND	
GEOG100: Physical Geography	3
General Education Courses	6
GEOS213: Introduction to GIS	3
Total Credits:	15

Spring Sophomore (example)	Credits
GEOS313: Advanced GIS **	3
OR	
Geography Course	3
AND	
Geography Course	3
GEOS120: Oceanography	3
General Education Course	6
Total Credits:	15

Fall Junior (example)	Credits
GEOS230: Geomorphology*	3
GEOS360: Hydrogeology*	4
OR	
Geography Course	3
GEOS215: Environmental Geology**	3
AND	
Electives	6
Total Credits:	12 or 13

Summer II Sophomore	Credits
GEOS451: Coastal and Environmental Oceanography	3

Fall Senior (example)	Credits
GEOS360: Hydrogeology*	4
Geography Course	3
OR	
GEOS215: Environmental Geology**	3
Geography Course	3
AND	
GEOS490: Capstone Research Project	2
Geology Field/Lab Experience	1
Electives	5
Total Credits:	14 or 15

Spring Junior (example)	Credits
GEOS313: Advanced GIS**	3
OR	
Geography Course	3
AND	
Geography Courses	6
General Education Courses	6
Geology Field/Lab Experience	1
Total Credits:	16

Spring Senior (example)	Credits
200+ Level Non-Science	6
Electives	6
Geology Field/Lab Experience	1
Total Credits:	13

Upper Division Majors Courses are only offered every two years.

* = Offered Only in Odd Ending Years

** = Offered Only in Even Ending Years