

ENVIRONMENTAL, GEOGRAPHICAL & GEOLOGICAL SCIENCES: PROFESSIONAL GEOLOGY

Bachelor of Science (BS)

This degree map is based on the 2023-24 Academic Catalog and is subject to change. Students should meet with their academic advisor each semester and use Degree Works to monitor their individual progress toward degree completion. The time it takes to earn a degree will vary based on several factors including summer/winter enrollment, dual enrollment and number of courses successfully completed each semester. We recommend taking a minimum of 15 credits each fall and spring semester.

Sample 4-Year Plan

First Year			
Fall Courses	Credits	Spring Courses	Credits
EGGS 102 – World Cultural Geography (D)	3	EGGS 242 – Mapping and GIS Fundamentals	3
EGGS 100 – Introduction to Environmental Science	3	EGGS 130 – Historical Geology	4
EGGS 120 – Physical Geology (N)	4	Gen Ed Foundations – Writing (W)	3
Gen Ed Foundations – FYS (U)	3	Gen Ed Creativity and Expression – Creativity (C)	3
Gen Ed Foundations – Oral Communication (O)	3	Gen Ed Citizenship – Ethical Reasoning (E)	3
Semester Total	16	Semester Total	16
Second Year			
Fall Courses	Credits	Spring Courses	Credits
EGGS 265 – Geomorphology	3	EGGS 263 – Mineralogy/Petrology	4
CHEM 121 – Chemistry for the Sciences 1	4	PHYS 208 – Introductory Physics 1	4
EGGS 360 – Principles of GIS 1	3	Gen Ed Interconnections	3
MATH 160 – Calculus 1 (Q)	4	EGGS 465 – Paleontology	4
Gen Ed Interconnections	3	Free Elective	3
Semester Total	17	Semester Total	18
Third Year			
Fall Courses	Credits	Spring Courses	Credits
EGGS 369 – Structural Geology	4	EGGS 470 – Hydrogeology	3
EGGS 368 – Sedimentology and Stratigraphy	3	EGGS 461 – Economic Geology	3
Gen Ed Citizenship – Critical Reasoning (R)	3	Gen Ed Natural World & Tech – Technologies (T)	3
Gen Ed Creativity and Expression – Literature (L)	3	Gen Ed Natural World and Tech – Natural World (N)	3
Free Elective	3	Free Elective	3
Semester Total	16	Semester Total	15
Fourth Year			
Summer – Session 1	Credits	Fall Courses	Credits
EGGs 451 – Geology Field Camp (4-6)	5	EGGS 460 – Aqueous Environmental Geochemistry	4
		Gen Ed Foundations – History (H)	3
		EGGS 480 – Geophysical Methods	4
		Free Elective	3
		Free Elective	3
		Semester Total	17

Winter/Summer College - Optional

While not required, Winter and Summer sessions are offered each year and may help you stay on track or get ahead. You may take up to seven (7) credits during Winter College and up to 14 credits during Summer College.

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Curriculum Checklist

Total of 60 credits excluding Directed General Ed

Core Requirements (Choose 1, 3 Credits)

- ___ EGGS 100 Environmental Sciences (3)
- ___ EGGS 105 Environmental Issues & Choices (3)
- ___ EGGS 140 Sustainability Science (3)

Core Requirements (Choose 1, 0 Credits)*

- ___ EGGS 102 World Cultural Geography (3)
- ___ EGGS 104 World Regional Geography (3)

Cognate Requirements (4 credits)*

- ___ CHEM 121 Chemistry for the Sciences 1 (4)*
- ___ PHYS 208 Introductory Physics 1 (4)*
- ___ MATH 160 Calculus 1 (4)*

Cognate Electives (Choose 1, 4 credits)*

- ___ CHEM 122 Chemistry for the Sciences 2 (4)*
- ___ EGGS 460 Aqueous Environmental Geochemistry (4)**

Cognate Electives (Choose 1, 4 credits)*

- ___ PHYS 209 Introductory Physics 2 (4)*
- ___ EGGS 480 Geophysical Methods (4)**

Major Requirements (27+ credits)

- ___ EGGS 120 Physical Geology (4)*
- ___ EGGS 130 Historical Geology (4)
- ___ EGGS 242 Map Mapping and GIS Fundamentals (3)
- ___ EGGS 263 Mineralogy & Petrology (4)
- ___ EGGS 265 Geomorphology (3)
- ___ EGGS 360 Principles of GIS I (3)
- ___ EGGS 368 Sedimentology & Stratigraphy (3)
- ___ EGGS 369 Structural Geology (4)
- ___ EGGS 470 Hydrogeology (3)

Major Electives: Choose at least 2 (6+ credits)

- ___ EGGS 460 Aqueous Environmental Geochemistry (4)**
- ___ EGGS 461 Energy and Mineral Resources (4)
- ___ EGGS 463 Petroleum Geology (3)
- ___ EGGS 465 Paleontology (4)
- ___ EGGS 480 Geophysical Methods (4)**
- ___ EGGS 491 Research in EGGS (3+)

Major Capstone (4-6 credits)

- ___ EGGS 451 Field Tech in Earth Science/Geology Field Camp (4-6)

*Counts as General Education Credit

**Cannot count as a Major elective if used above in Cognate Electives

General Education Requirements

(45 credits)

Note: Some requirements may be fulfilled by coursework in your major program including directed Gen Ed courses noted below

- Foundations (15 credits)
 - MATH 160 Calculus 1
- Interconnections (9 credits)
 - EGGS 102 World Cultural Geography
 - EGGS 104 World Regional Geography
- Citizenship & Responsibility (6 credits from at least two goals)
 - Directed Gen Ed, if applicable
- Natural World & Technologies (9 credits)
 - PHYS 208 Introductory Physics 1
 - CHEM 121 Chemistry for the Sciences 1
 - CHEM 122 Chemistry for the Sciences 2
- Creativity & Expression (6 credits)
 - Directed Gen Ed, if applicable

Degree Requirements

All students must obtain a minimum of 120 credits, complete all General Education requirements, and all requirements for the selected major. Meet with your advisor and consult Degree Works to monitor your progress and for all graduation requirements.

A minimum GPA of 2.0 in the major and overall are required.

Campus Locations

Bloomsburg	<input type="checkbox"/> Online; <input checked="" type="checkbox"/> In-person; <input type="checkbox"/> Blended
Lock Haven	<input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended
Mansfield	<input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended
Clearfield	<input type="checkbox"/> Online; <input type="checkbox"/> In-person; <input type="checkbox"/> Blended