

ENVIRONMENTAL, GEOGRAPHICAL & GEOLOGICAL SCIENCES: PROFESSIONAL GEOLOGY

Bachelor of Science (BS)

This degree map is based on the current Academic Catalog and is subject to change. Please note that the degree map is designed to give you a sense of roughly how courses might be distributed over a 4-year degree. Your exact schedule will differ depending on a range of factors though we recommend taking a minimum of 15 credits each fall and spring semester. Regular consultation with your academic advisor is the best way to make sure that you are taking the courses you need in the right order to ensure efficient progress through your degree program.

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
FYS 100 First Year Seminar (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 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

() *Denotes advanced coursework

Students must take a minimum of 42 credits of advanced coursework. Advanced coursework can be met in major courses, minor courses, free elective courses, and general education courses. Courses that meet this requirement are designated in Banner.

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)
 - FYS100 First Year Seminar
 - MATH 160 Calculus 1 (Quantitative)
 - Written Communication
 - Oral Communication
 - History
- Interconnections (9 credits)
 - EGGS 102 World Cultural Geography OR EGGS 104 World Regional Geography
 - Diversity
 - Foreign Language
- Citizenship & Responsibility (6 credits from at least two goals)
 - Citizenship
 - Critical Reasoning
 - Ethical Reasoning
- 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)
 - Arts
 - Creativity
 - Literature

Degree Requirements

All students must obtain a minimum of 120 credits (a minimum of 42 credits must be advanced coursework), 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.