

Environmental Geosciences

Bachelor of Science



Semester 1

Course	Credits	Grade	✓
ENGL 101: Composition & Rhetoric I	3	C*	<input type="checkbox"/>
GEOL 101: Earth Processes, Resources, & the Environment <i>or</i> GEOL 140: Environmental Issues in Appalachia	3-4	C	<input type="checkbox"/>
MATH 103: College Algebra <i>or</i> MATH 107: Precalculus	3-4	C	<input type="checkbox"/>
GEOG 101: Humans and the Environment <i>or</i> General Education Course	3		<input type="checkbox"/>
General Education Course	2-3		<input type="checkbox"/>
UNIV 100: CU Foundations	1		<input type="checkbox"/>

15-18

Semester 2

Course	Credits	Grade	✓
ENGL 102: Composition & Rhetoric II	3	C*	<input type="checkbox"/>
GEOG 200: Digital Earth (Recommended)	3		<input type="checkbox"/>
GEOL 205: Environmental & Applied Geology <i>or</i> Elective	3-4		<input type="checkbox"/>
MATH 104: College Trigonometry (If took MATH 107, take an Elective)	3		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>

15-16

Semester 3

Course	Credits	Grade	✓
CHEM 101/111: Principles of Chemistry I with Lab	4		<input type="checkbox"/>
GEOL 312: Climatology <i>or</i> GEOL 315: Biogeography and Environmental Change	4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
Elective/Minor	3		<input type="checkbox"/>

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Semester 4

Course	Credits	Grade	✓
CHEM 102/112: Principles of Chemistry II with Lab	4		<input type="checkbox"/>
GEOG 311: GIS and Cartography	4		<input type="checkbox"/>
GEOL 365: Earth Materials and Minerals	3		<input type="checkbox"/>
Elective/Minor	3-4		<input type="checkbox"/>

14-15



The Bachelor of Science in Environmental Geosciences

degree is a career-oriented, flexible major that merges traditional geology with applied environmental science. As outlined by the American Geosciences Institute, geoscientists explore, study, and monitor the Earth to protect it and the people who live on it.



MILESTONE COURSES

Courses marked as Milestone Courses are crucial for staying on track to complete your degree in four years. Take them in the recommended semester to stay on track! If you see a recommended minimum grade, this is the grade you need to earn to have the best chance for success in this degree! Grades marked with an asterisk are required to pass.



LANDMARKS

Points where you see a landmark icon on the four-year plan indicate you have reached a point of action outside regular coursework! See the Helpful Hints for information on each landmark.

Helpful Hints

- Use this plan in consultation with your Academic Advisor. Class availability is largely dependent on demand, and courses may not be offered when recommended.
- Indicated 200-level and 300-level GEOL classes may be taken inter-changeably with courses of the same level.
- Semesters 5 & 6—See the [Academic Catalog](#) for a list of courses that satisfy the Math/ Science Cognate electives. Choosing the electives that match your professional goals is important, so consult with your advisor about which electives are right for you.
- The Environmental Geoscience degree is flexible. With course substitutions available (see the [Academic Catalog](#)), you may be able to finish a double major in another STEM field or a non-science discipline. Consult with your academic advisor.

Semester 5

Course	Credits	Grade	✓
PHSC 219: Lab Research Methods and Ethics	1		<input type="checkbox"/>
GEOL 385/L: Earth Structure and Tectonics with Lab	4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
Supporting Course Elective	4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>

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Semester 6

Course	Credits	Grade	✓
GEOL 415/L: Electron Imaging & X-ray Microanalysis with Lab	2		<input type="checkbox"/>
GEOL 404: Field Geology I	3		<input type="checkbox"/>
GEOG 411: GIS Design and Application <i>or</i> GEOG 412: Public Health GIS	3		<input type="checkbox"/>
Electives	6		

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Summer Session

Course	Credits	Grade	✓
GEOL 405: Field Geology II	3		<input type="checkbox"/>

3

Semester 7

Course	Credits	Grade	✓
Earth & Environmental Science Core Elective	4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
Electives/Minor	10-12		<input type="checkbox"/>

17-19

Semester 8

Course	Credits	Grade	✓
Earth & Environmental Science Core Elective	4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
Electives/Minor	6-7		<input type="checkbox"/>

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ADVISING

When you choose to pursue this degree, you will be assigned an advisor who is an expert in the field of Environmental Geoscience. This advisor can help you with course selection, career planning, resume building, and help you with tracking your path to degree completion.

CAREERS

With a degree in Environmental Geosciences, you will be trained for careers such as: Geologist; Environmental Scientist; Field Geologist; Research Scientist; Oceanographer; Climate Scientist; Water Resource Specialist; Petroleum Geologist; Mining Geologist; Environmental Compliance Officer; Geographic Information Systems Analyst.

STUDENT ORGANIZATIONS

Geology Club
Sigma Gamma Epsilon Honor Society

COMPLEMENTARY MINORS

Geosciences pair well with most of the minors offered at CU. There are several elective hours in this degree—consult with your advisor to see what minor fits your goals.

Helpful Hints

- Some things to consider and discuss with your advisor:
 - Off campus summer experiences
 - Internships after Semester 4 and 6.
 - Research with CU faculty after Semester 4.
 - GRE (for grad school) after Semester 6.
 - Apply to grad schools December of Semester 7.
- Summer Session Landmark—Geoscience majors take a 3-week summer field course in the Rocky Mountains of Colorado. Ideally this falls between Semester 6 and 7. However, discuss with your advisor where this will fit into your degree plan or if you are unable to travel to complete field work.
- Because of the required Summer Field experience courses, it is possible to complete this degree in 7 semesters, especially if two more classes are taken during summer sessions or if you have transfer or AP credits. For additional details, or to make a plan spanning 7 semesters, consult your Academic Advisor.

