

Semester 1 (Fall)

Course	Credits	Grade	✓
ENGL 101: Composition & Rhetoric I	3	C*	<input type="checkbox"/>
GEOL 101: Earth Processes, Resources, & Environ. <i>or</i> GEOL 140: Environ. Issues in Appalachia	3-4	C	<input type="checkbox"/>
MATH 103: College Algebra	3	C	<input type="checkbox"/>
GEOG 200: Digital Earth (Recommended)	3		<input type="checkbox"/>
General Education Course	2-3		<input type="checkbox"/>
UNIV 100: CU Foundations	1		<input type="checkbox"/>

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Semester 2 (Spring)

Course	Credits	Grade	✓
ENGL 102: Composition & Rhetoric II	3	C*	<input type="checkbox"/>
GEOG 311: GIS and Cartography <i>or</i> GEOG 412	3		<input type="checkbox"/>
Earth & Environmental Sciences Core Course	4		<input type="checkbox"/>
MATH 104: College Trigonometry <i>or</i> MATH 105	3		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>

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Semester 3 (Summer I)

Course	Credits	Grade	✓
CHEM 101/111: General Chemistry I with Lab	4		<input type="checkbox"/>
GEOG 101: Humans & the Environment or Elective	3		<input type="checkbox"/>

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Semester 4 (Summer II)

Course	Credits	Grade	✓
CHEM 102/112: General Chemistry II with Lab	4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>

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Semester 5 (Fall)

Course	Credits	Grade	✓
GEOL 385/L: Earth Structure with Lab <i>or</i> Public Health, Society, & Environment Elective	4		<input type="checkbox"/>
GEOL 415/L: X-ray Microanalysis with Lab <i>or</i> Public Health, Society, & Environment	2-4		<input type="checkbox"/>
PHSC 219: Lab Research Methods and Ethics	1		<input type="checkbox"/>
Earth & Environmental Sciences Core Course	4		<input type="checkbox"/>
Elective	4		<input type="checkbox"/>

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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 three years. Take them in the recommended semester to stay on track! Sections with a recommended minimum grade is the grade you need to earn to have the best chance for success! Grades marked with an asterisk (*) are required to pass.



LANDMARKS

Points where you see a landmark icon on the three-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 and CU Rise director. 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 advisors 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.

Bachelor of Science—Three-Year Plan

Semester 6 (Spring)

Course	Credits	Grade	✓
GEOL 365: Earth Materials and Minerals	3		<input type="checkbox"/>
GEOL 404: Field Geology I <i>or</i> Earth & Environmental Science Core Elective	3-4		<input type="checkbox"/>
Earth & Environmental Sciences Core Course	4		<input type="checkbox"/>
GEOG 311: GIS and Cartography <i>or</i> GEOG 412: Public Health GIS	3		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>

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Semester 7 (Summer I)

Course	Credits	Grade	✓
GEOL 405: Field Geology II	3		<input type="checkbox"/>
GEOL 470: Geology Research <i>or</i> GEOL 471: Environmental Science Research <i>or</i> Elective	3		<input type="checkbox"/>

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Semester 8 (Summer II)

Course	Credits	Grade	✓
GEOL 470: Geology Research <i>or</i> GEOL 471: Environmental Science Research <i>or</i> Elective	3		<input type="checkbox"/>
Elective	3		<input type="checkbox"/>

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Semester 9 (Fall)

Course	Credits	Grade	✓
GEOL 415/L: X-ray Microanalysis with Lab <i>or</i> Public Health, Society, & Environment Elective	2-4		<input type="checkbox"/>
GEOL 385/L: Earth Structure and Tectonics with Lab <i>or</i> Public Health, Society, & Environment Elective	3-4		<input type="checkbox"/>
GEOG 411: GIS Design and Application <i>or</i> General Education Course	3		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
Elective	4		<input type="checkbox"/>

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Semester 10 (Spring)

Course	Credits	Grade	✓
GEOL 365: Earth Materials and Minerals <i>or</i> HS 301: Public Health Epidemiology	3-4		<input type="checkbox"/>
GEOL 404: Field Geology I <i>or</i> Earth & Environmental Sciences Core Elective	3-4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
Elective (if necessary)	3-4		<input type="checkbox"/>

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You're FINISHED!!

ADVISING

When you choose to pursue this degree, you will be assigned an advisor with expertise 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.