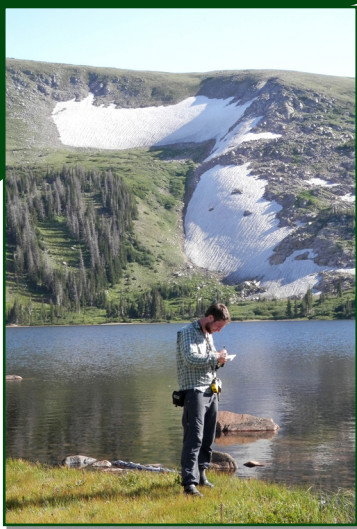


ENVIRONMENTAL GEOLOGY CONCENTRATION



Environmental Geology students develop expertise in surface and shallow-subsurface processes that shape Earth and provide important soil and water resources and services. Graduates will be prepared for employment opportunities that address environmental implications of geological processes and human impacts on Earth.

The curriculum emphasizes course work in the fundamentals of geology, surface and shallow-subsurface processes, field-based research methodologies, and environmental geology.

The curriculum allows students to pursue positions with public, private, and nonprofit organizations that address environmental/natural resource management issues, regulatory agency compliance, hazard identification and mitigation, and fundamental scientific investigations to inform natural resource policy and decision making, promote good stewardship of Earth, and resource availability. The curriculum also provides a strong foundation for those planning to continue on to graduate studies.

Careers

- Consulting companies (environmental, engineering or groundwater focused)
- State and federal agencies
- Non-profit agencies
- Environmental consulting companies
- State Department of Natural Resources
- National Park Service
- Poudre School District
- Local water boards

Key Courses

- SOCR 240: Introductory Soil Science
- GEOL 150: Physical Geology for Scientists and Engineers
- GEOL 376: Geologic Field Methods
- GEOL 436: Geology Summer Field Course
- GEOL 446: Environmental Geology
- GEOL 452: Hydrogeology
- GEOL 454: Geomorphology
- WR 416: Land-Use Hydrology

Contacts

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Colorado State University

WARNER COLLEGE OF NATURAL RESOURCES

Department of Geosciences

ENVIRONMENTAL GEOLOGY CONCENTRATION

CURRICULUM MAP

Freshman Year	Credits	Sophomore Year	Credits
<u>Fall Semester</u> CO 150: College Composition GEOL 150: Physical Geology for Scientists MATH160: Calculus for Physical Sciences I AUCC 3B: Arts and Humanities <u>Spring Semester</u> GEOL 154: Historical and Analytical Geology MATH 161: Calculus for Physical Sciences II CHEM 111: General Chemistry I CHEM 112: General Chemistry I Lab	3 4 4 3 4 4 4 1	<u>Fall Semester</u> GEOL 232: Mineralogy CHEM 113: General Chemistry II CHEM 114: General Chemistry II Lab AUCC 3B: Arts and Humanities AUCC 3D: Historical Perspectives <u>Spring Semester</u> GEOL 364: Igneous and Metamorphic Petrology PH 141: Physics for Scientists and Engineers CO 300 or JTC 300 or CO 301B AUCC 3C: Social/Behavioral Sciences Elective	3 3 1 3 3 4 5 3 3 3
Junior Year	Credits	Senior Year	Credits
<u>Fall Semester</u> GEOL 344: Sedimentation and Stratigraphy PH 142 or SOCR 470 SOCR 240: Introductory Soil Science STAT 301 or STAT 315 <u>Spring Semester</u> GEOL 372: Structural Geology GEOL 376: Geologic Field Methods NR 319 or NR 322: Geospatial Applications AUCC 3E: Global and Cultural Awareness <u>Summer Semester</u> GEOL 436: Summer Field Course	4 3-5 4 3 4 3 4 3 6	<u>Fall Semester</u> GEOL 452: Hydrogeology GEOL 366: Sedimentary Petrology and Geochemistry WR 416: Land Use Hydrology Directed Technical Elective <u>Spring Semester</u> GEOL 446: Environmental Geology GEOL 454: Geomorphology Directed Technical Elective Electives *Additional courses may be required to fulfill prerequisite requirements Program Total	4 3-5 3 3-4 3 4 3-4 3-7 120



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