

Hydrogeology Concentration



The Hydrogeology concentration provides training in geological aspects of water resources and allied disciplines, while ensuring that students are well prepared for a variety of geological fields. Students pursuing this concentration will be particularly well prepared for employment in environmental, engineering, water resource, geotechnical and groundwater firms, government agencies managing or assessing water resources, or for graduate training in hydrogeology or other water resource-related disciplines.

Careers

- Consulting companies (environmental, engineering or groundwater focused)
- Water Resource Companies
- Geotechnical Firms
- Energy and Mineral Industries
- Local, State and Federal Agencies
- Non-profit Agencies

Key Courses

GEOL 436: Geology Summer Field Course
GEOL 452: Hydrogeology
GEOL 454: Geomorphology
GEOL 366: Sedimentary Petrology and Geochemistry
GEOL 376: Geologic Field Methods
WR 416: Land-Use Hydrology
MATH 340: Introduction to Ordinary Differential Equations
Upper-Division Directed Electives in Geology and related fields

Contacts

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Colorado State University

WARNER COLLEGE OF NATURAL RESOURCES

Department of Geosciences

Hydrogeology Concentration

Curriculum Map

Freshman Year	Credits	Sophomore Year	Credits
<u>Fall Semester</u> CO 150: College Composition GEOL 150: Physical Geology for Scientists MATH124: Logarithmic and Exponential Functions MATH125: Numerical Trigonometry MATH126: Analytical Trigonometry AUCC 3C: Social/Behavioral Sciences AUCC 3D: Historical Perspectives <u>Spring Semester</u> GEOL 154: Historical and Analytical Geology MATH 160: Calculus for Physical Sciences I CHEM 111: General Chemistry I CHEM 112: General Chemistry I Lab	3 4 1 1 1 3 3 4 4 4 1	<u>Fall Semester</u> GEOL 232: Mineralogy CHEM 113: General Chemistry II CHEM 114: General Chemistry II Lab MATH 161: Calculus for Physical Sciences II AUCC 3B: Arts and Humanities <u>Spring Semester</u> GEOL 364: Igneous and Metamorphic Petrology PH 141: Physics for Scientists and Engineers I CO 300 or JTC 300 or CO 301B MATH 261: Calculus for Physical Sciences III	3 3 1 4 3 4 5 3 4
Junior Year	Credits	Senior Year	Credits
<u>Fall Semester</u> GEOL 344: Sedimentation and Stratigraphy WR 416: Land Use Hydrology PH 142 or SOCR 470 MATH 340: Intro to Ordinary Differential Equations <u>Spring Semester</u> GEOL 372: Structural Geology GEOL 376: Geologic Field Methods STAT 301: Introduction to Statistical Methods AUCC 3E: Global and Cultural Awareness <u>Summer Semester</u> GEOL 436: Summer Field Course	4 3 3-5 4 4 3 3 3 6	<u>Fall Semester</u> GEOL 452: Hydrogeology GEOL 366: Sedimentary Petrology and Geo-chemistry Directed Technical Elective NR 319 or NR 322 <u>Spring Semester</u> AUCC 3B: Arts and Humanities GEOL 454: Geomorphology Directed Technical Elective Electives *Additional courses may be required to fulfill prerequisite requirements Program Total	4 4 3-4 4 3 4 3-4 0-3 120



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