

GEOLOGICAL SCIENCES, B.S.

The geological sciences encompass the study of the interaction of physical, chemical and biological processes and systems that shape Earth's environments and their human impacts. Students in the geological science degree program work closely with the SEOE's large and diverse faculty with broad scientific expertise on earthquakes, volcanoes, groundwater, climate change and coastal oceans. The degree program offers optional concentrations in environmental geosciences and geophysics. All degree options emphasize field work and include a required capstone course in Field Geology that is taught annually in Colorado, Utah and New Mexico.

The Bachelor of Science in geological science prepares students for graduate or professional school but is also sufficient for entry-level positions on a variety of career paths including energy and mineral resources, as well as geotechnical and environmental consulting, especially in areas related to groundwater and water resources.

Learning Outcomes

1. Students will demonstrate their knowledge of fundamental concepts and laboratory skills in the geosciences by responding to written and laboratory-practical exam questions in at least one of the following courses: GEOL 302, GEOL 305, GEOL 315
2. Students will demonstrate knowledge of geological field skills by demonstrating a competency at the proficiency level on a geologic mapping exercise, preferably the Sheep Mountain project, in GEOL 500.