

# GEOLOGICAL SCIENCES

Geology is the study of the rocks and minerals of the earth and the external and internal processes that create earth's landforms. Geologists work to describe and explain how our planet evolved and how each particular environment is unique as to its formation. The discipline of Geology takes from other disciplines such as chemistry, biology, geography, mineralogy, meteorology, paleontology, oceanography and astronomy in order to explain earth's physical processes. Coursework in those disciplines, integrated within a geological framework, provides students with a broad, marketable understanding of earth's processes. Fieldwork is often included in geological study, especially at the universities. This fieldwork helps students understand how to assess geological processes within a local environment.

Geologists go on to work for environmental and mining companies as well as planning organizations and building companies. A bachelor's degree is recommended for students planning to become professional geologists employed by environmental and geo-technical firms, governmental agencies, and oil and mining companies and for students planning to pursue a graduate degree in geology.

No associate degree offered with a major in Geological Sciences. Courses in Geological Sciences may be used to fulfill requirements for an Associate in Science degree with a major in Math/Science or an Associate of Arts degree with a major in Liberal Arts. Please see respective listings for details on those majors.

## Career Opportunities

Mining Geologist, Environmental Planner, Ground Water Quality Manager, Petroleum Engineer, Paleontologist Geoarchaeologist, Geological Engineer, Soil Conservationist, Metallurgist, Exogeologist (Astrogeologist), Geomorphologist

## Transfer

- California State University, San Bernardino: Geology major
- University of California, Riverside: Geology major, and Geophysics major

For the most up-to-date information on these programs and others, visit [assist.org](http://www.assist.org) (<http://www.assist.org>). Please stop by the Transfer Center in Building 23 or make an appointment with a counselor if you have questions.

## Geological Sciences Courses

### GEOL 101 Physical Geology (4.0 Units)

The study of geology is explored, including theories, principles and applications. Exploration includes, but is not limited to, minerals, rocks, weathering processes, seismic activity, and tools used by geologists. Field trips are scheduled to areas of representative local geology.

Lecture Hours: 54.0; Lab Hours: 54.0

Transfer: Transfers to both UC/CSU

### GEOL 121 Earth Science With Lab (4.0 Units)

This course provides an introduction to the essentials of Earth science including geology, oceanography, meteorology, and solar system astronomy.

Lecture Hours: 54.0; Lab Hours: 54.0

Transfer: Transfers to both UC/CSU

### GEOL 128 Special Topics (1-3 Units)

Lecture Hours: 54.0

Transfer: Transfers to CSU only

### GEOL 129 Independent Study (1-3 Units)

This independent study is for students who are interested in furthering their knowledge of Geology.

Transfer: Not transferable