

GEOLOGY

Career Opportunities

B.S. Level

Consulting Geologist	Field Geologist
Engineering Geologist	Laboratory Research Worker
Geological Technician	Petroleum Geologist
Environmental Geologist	Marine Geologist

Faculty

Full-Time

Thomas O'Neil

Part-Time

Sara Benjamin

Joseph Saenz

Geology Courses

GEOL R101—Physical Geology **3 units**

3 hours lecture weekly

This course is a survey of the earth and the processes that shape it. The course offers an overview of plate tectonics, volcanism, earthquakes, mountain building, weathering, erosion, soil, origin of minerals and rocks, and water and energy resources. Physical geology is for those students who wish to complete a general education physical science course to transfer to a university. Field trips may be required. (2)

Transfer credit: UC, CSU (CAN: GEOL 6; GEOL 2 (GEOL R101 + R101L))

GEOL R101L—Physical Geology Lab **1 unit**

Prerequisites: GEOL R101 or concurrent.

3 hours lab weekly

This course is the laboratory to accompany GEOL R101. Topics include identification and interpretation of geologic features, interpretation of topographic maps and aerial photographs, identification of rocks and minerals. Field trips will be required. (2)

Transfer credit: UC, CSU (CAN: GEOL 2 (GEOL R101 + R101L))

GEOL R103—Introduction to Oceanography **3 units**

3 hours lecture weekly

This course is a broad survey of the field of oceanography. Topics include geology and geography of ocean basins and coastlines, plate tectonics, waves, currents, tides, properties of seawater, methods of oceanographic exploration, and an introduction to Marine Biology. Physical oceanography is for those students who wish to complete a general education physical science course to transfer to a four-year university. Field trips may be required. (Same as MST R103) (2)

Transfer credit: UC, CSU

GEOL R103L—Introduction to Oceanography Lab **1 unit**

Prerequisites: GEOL R103, MST R103 or concurrent.

3 hours lab weekly

This course is the laboratory to accompany GEOL R103. Topics include introduction to ocean/atmosphere relationships, interpretation of bathymetric maps, applied methods of measurement, and descriptive analysis of the physical ocean, including beaches, ocean currents, waves, and water properties. Field trips will be required. (Same as MST R103L) (2)

Transfer credit: UC, CSU

GEOL R178—Geological Marine Resource Management **1 unit**

Corequisites: BIOL R170.

3 hours lab weekly

Topics in related areas in marine geology related to current resource management issues in this region. Study of requirements and applications of federal, state, and local laws and regulations related to marine resource management. Field trips will be to natural areas where geological, biological, and oceanographic interactions can be observed. Course may be taken four times. (Same as MST R178) (2)

Transfer credit: CSU

NOTE: The courses listed below have been temporarily suspended. For further information, please contact the Math, Science, Health & Athletics division office.

GEOL R102	Earth's History
GEOL R104	Geology of the National Parks and Monuments
GEOL R105	Geology of California
GEOL R106A	Field Geology of the Southwest I
GEOL R106B	Field Geology of the Southwest II
GEOL R107	Geologic Hazards
GEOL R110	Mineralogy
GEOL R199	Directed Studies in Geology/Oceanography