

Geology

Geology is the scientific study of the origin, history, and structure of the earth. Students take courses to prepare for a major in geology and to fulfill general education requirements.

A bachelor's degree in geology affords students career options within private corporations (such as petroleum, mining, engineering, hydrology, and environmental consulting companies), government agencies (such as the U. S. Geological Survey, the California Department of Conservation, and regional planning offices), and education.

Academic and Career Pathway

Math and Sciences (<https://www.miracosta.edu/academics/degree-and-certificate-programs/math-and-sciences/>)

Contact Information

Chair: Erika Peters(Physical Sciences)

Dean: Michael Fino

<https://miracosta.edu/academics/degree-and-certificate-programs/math-and-sciences/geology/index.html> (<https://miracosta.edu/academics/degree-and-certificate-programs/math-and-sciences/geology/>)

Department: Physical Sciences

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760.757.2121 x6924

Full-Time Faculty

Marina Argueta
Roberto Falero
Eric Snortum

Courses

GEOL 101: Physical Geology

Units: 3

Prerequisites: None

Enrollment Limitation: Not open to students with prior credit in GEOL 101H.

Acceptable for Credit: CSU, UC

Lecture 3 hours.

Course Typically Offered: Fall, Spring

Physical geology introduces the processes at work changing the earth today. Within the context of global tectonics, it explores the origins of rocks and minerals and the dynamics of processes, such as igneous activity, seismicity, and crustal deformation, driven by the release of Earth's internal heat. It also examines how air, water, and ice move in response to gravity and energy from the sun, sculpting Earth's surface by eroding, transporting, and depositing weathered rock materials. C-ID GEOL-100.

GEOL 101L: Physical Geology Laboratory

Units: 1

Prerequisites: GEOL 101.

Enrollment Limitation: Concurrent enrollment in GEOL 101 if prerequisite not met. Not open to students with prior credit in GEOL 101LH.

Acceptable for Credit: CSU, UC

Laboratory 3 hours.

Course Typically Offered: Fall, Spring

This course, which is intended to accompany GEOL 101, provides hands-on experience in identifying mineral samples, rock samples, and fossils, interpreting geologic and topographic data from various maps, and analyzing geologic exposures. Field trips to study local geology are required. C-ID GEOL-100L.

GEOL 292: Internship Studies

Units: 0.5-14

Prerequisites: None

Corequisite: Complete 54 hours of work per unit, paid or unpaid.

Enrollment Limitation: Instructor, dept chair, and Career Center approval. Fourteen unit maximum in any combination of work experience education and/or internship studies per semester.

Acceptable for Credit: CSU

Course Typically Offered: Fall, Spring, and Summer

This course provides students the opportunity to apply the theories and techniques of their discipline in an internship position in a professional setting under the instruction of a faculty-mentor and site supervisor. It introduces students to aspects of the roles and responsibilities of professionals employed in the field of study. Topics include goal-setting, employability skills development, and examination of the world of work as it relates to the student's career plans. Students must develop new learning objectives and/or work/intern at a new site upon each enrollment.