



**In the Department of Earth and Ocean Sciences**, you will find scientists who study climate, sea-level change, glaciers, groundwater, rocks, and fossils. If these topics are of interest to you, consider taking one of our courses, or investigating one of our major and minor options.

## Geological Sciences Major

Students intending to continue with Earth and ocean sciences after graduation should complete the following courses: EOS 1 or 2, 11, and 22. In addition, students must select a total of seven more courses from the following groups: three courses from EOS 12, 13, 32, 42, and 52; one course from EOS 131 and 133; and three additional EOS or approved related fields courses. In addition, students must complete Chemistry 1 or 11, and Physics 1 or 11, and one course from Mathematics 21 or 32, Computer Science 11, or Biology 132. The Chemistry and Physics courses must be taken with labs. Chemistry 2, Physics 2 or 12, Mathematics 32 and 34, research experience and a six-week summer field camp are strongly recommended.

## Environmental Geology Major

Students electing this option should complete either EOS 1 or 2, nine additional EOS courses, plus Chemistry 1 or 11 and Physics 1 or 11 with labs. Approved related fields science courses may replace as many as three of the nine additional EOS courses for Arts and Sciences students. Engineering students with a double major in geology may use upper-level engineering courses to substitute for up to two of the nine additional EOS courses with prior written consent. No more than a total of four EOS courses may be replaced by engineering and related fields courses for engineering students.

## Geology Minor

This minor in geology is available to students in the School of Engineering. Five courses are required for the minor. They normally include:

- EOS 1 The Dynamic Earth or EOS 2 Environmental Geology
- EOS 22 Structural Geology or EOS 32 Geomorphology
- EOS 131 Groundwater

Two electives selected from the following:

- EOS 1 The Dynamic Earth or EOS 2 Environmental Geology
- EOS 5 Oceanography
- EOS 11 Mineralogy
- EOS 12 Igneous and Metamorphic Petrology
- EOS 22 Structural Geology
- EOS 32 Geomorphology
- EOS 42 Sedimentology and Stratigraphy
- EOS 51 Global Climate Change
- EOS 52 Paleoclimate
- EOS 104 Geological Applications of GIS
- EOS 115 Quaternary and Glacial Geology
- EOS 133 Field Methods in Hydrogeology

## Geoscience Minor

This minor in geoscience is available to Arts and Sciences students who are majoring in archaeology, astronomy, biology, chemistry, computer science, mathematics, physics, or quantitative economics. Five courses are required for the minor. They normally include:

- EOS 1 The Dynamic Earth or EOS 2 Environmental Geology

Four EOS course electives are also selected, in consultation with the faculty advisor. These courses are intended to complement the student's major and scientific or mathematical interests.

**Interested in a major? Feel free to speak with any of the EOS faculty.**

*Prof. Anne Gardulski is the minors advisor.*