

# EARTH SCIENCES

This major includes a spectrum of disciplines focused on understanding the processes that influence the tectonics and environment of the planet, on using this understanding to read the record of earth history written in rocks and sediments, and on developing models that can be used to predict future changes due to natural phenomena and recent perturbations caused by humans.

## BACHELOR OF ARTS (BA) GENERAL OVERVIEW

One introductory course. Examples include:

- Planet Earth
- Oceanography
- Crises of a Planet
- Climate Change
- Earthquakes

Seven upper-division elective courses. Examples include:

- Structural Geology and Tectonics
- Data Analysis in the Earth & Environmental Sciences
- Oceans, Climates, and the Environment
- Geobiology and Astrobiology
- Environmental Hydrogeology

Three required courses:

- Mineral and Earth Systems
- Fundamental Principles of Calculus or Calculus I
- General Chemistry A

Choose one course from the following:

- General Biology: Organismal Biology and Evolution
- General Chemistry B
- Physics for the Life Sciences

## ACADEMIC OPPORTUNITIES

**Earth Science Team Research:** This eight-unit, multidisciplinary student research experience takes place largely outside of the classroom. Student teams work closely with faculty to collect data in the field, interpret their findings, and present at a symposium held in the spring semester.

**Earth Science Research Apprenticeship:** Students have the opportunity to apply for and receive funding to conduct their own research projects with the guidance of a faculty member.

**Study Abroad:** Spend a semester or a year earning credit at New Zealand's University of Otago, known for its strong natural and environmental science programs.