



Bachelor of Arts and Bachelor of Science

GEOLOGICAL AND ENVIRONMENTAL SCIENCES

Geological and Environmental Sciences (GESC) majors seek to understand and monitor the Earth to protect it and the people who live on it. Our students are curious and have a passion for exploring the Earth and changing the world.

The interdisciplinary and rigorous nature of the BS and BA degrees in GESC is great preparation for work as scientists, in graduate school, law and health-related fields, business, international relations, communication, the arts, teaching, policy or advocacy.

Pacific offers three degree concentrations designed to prepare students for an Earth-centered career that best fits their interests and goals:

- Geology prepares students for competitive careers in a broad range of traditional and nontraditional fields.
- Environmental Science provides an interdisciplinary approach to the natural sciences, integrating a core of geology, biology, chemistry and mathematics with policy and humanities classes.
- The accelerated Environmental Law Advantage program allows students interested in a career in law to complete both a Bachelor of Arts in Geological and Environmental Sciences and a JD law degree in a total of six years.

PROGRAM FEATURES

Research and Internship Opportunities

Travel Support

Field Trips

Student Clubs

Alumni Network

UNIVERSITY OF THE
PACIFIC

Department of Geological and Environmental Sciences:

Associate Professor and Chair Laura Rademacher | 209.946.7351 | lrademacher@pacific.edu

Please visit Pacific.edu/GESC for more information.



I had the opportunity to go on a week-long field trip with the geological and environmental sciences department through the Colorado Plateau. It was one of the most amazing experiences I've ever had. We went to more than 10 national parks. I saw snow for the first time, and I learned how to ride a bike at the Grand Canyon.

OLIVIA SUE
BS Geological and Environmental Sciences

Curriculum

Pacific GESC offers a range of degree options that lead to a variety of high-demand careers that enable students to harness their curiosity and passion for protecting society. Our course of study offers a competitive advantage with opportunities for research, internships and career-oriented professional development integrated into all our courses, including leadership training and advanced certifications in wilderness first aid.

Throughout their studies, students in our department have the opportunity to use a wide range of technology to enrich their experience, including a state-of-the-art GIS computing facility and laboratories designed to explore water resources and water quality, soil functions, mineral resources, and deformation in the Earth's crust.

The Experience

Students are immersed in experiences driven by our hands-on approach to learning. Laboratory and/or field experiences are incorporated into every class, and recent field explorations have taken students to far-reaching destinations, including Scotland, the Chilean Patagonia, Hawaii, the Colorado plateau and locations throughout the west coast of North America.

Areas of study include the origin of the Earth and solar system, the formation of continents and oceans, the evolution and extinction of life, the distribution and availability of natural resources and the impact of humans on Earth's environments.

Many of our students work closely with faculty on award-winning research projects that can take students to exotic geologic locales, including Ireland, Japan, and the Appalachian Mountains, as well as regions at ground zero of global change including the Marshall Islands, the high Sierra Nevada, and the western North American deserts.

OUTCOMES

Many of our graduates continue their education in top-tier graduate or professional schools or pursue successful and lucrative careers in a wide range of fields, including government, geotechnical or environmental consulting, law, public policy, teaching, and science communication.

MAJORS OFFERED

Geological & Environmental Sciences
(BA, BS)

CONCENTRATIONS OFFERED

Geology
Environmental Science
Environmental Law Advantage Program

MINORS OFFERED

Geology
Environmental Science
Environmental Hydrology

For more information, please visit:

 [Pacific.edu/GESC](https://pacific.edu/GESC)