Cal Poly’s Natural Resources Management and Environmental Sciences Department prepares passionate leaders who drive change in sustainability and stewardship of the environment and restoration of land resources related to soil, water, forests, range and wildlife.

### MAJORS

**ENVIRONMENTAL EARTH AND SOIL SCIENCES**
- Concentrations:
  - GEOLOGY
  - HYDROLOGY

**ENVIRONMENTAL MANAGEMENT AND PROTECTION**
- Concentrations:
  - WATERSHED MANAGEMENT AND HYDROLOGY
  - WILDLIFE BIOLOGY

**FOREST AND FIRE SCIENCES**
- Concentrations:
  - WATERSHED MANAGEMENT AND HYDROLOGY
  - WILDLAND FIRE AND FUELS MANAGEMENT
  - WILDLIFE BIOLOGY

### MINORS

- ENVIRONMENTAL SOIL SCIENCE
- FIRE ECOLOGY AND WILDLIFE HAZARD PLANNING
- GEOGRAPHIC INFORMATION SYSTEMS
- INDIGENOUS STUDIES IN NATURAL RESOURCES AND THE ENVIRONMENT
- LAND REHABILITATION AND RESTORATION ECOLOGY
- RANGELAND RESOURCES
- WATER SCIENCE

### GRADUATE PROGRAM

- MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE AND MANAGEMENT WITH SPECIALIZATIONS IN:
  - ENVIRONMENTAL POLICY OR SUSTAINABILITY
  - FOREST SCIENCE
  - HYDROLOGY
  - SOIL SCIENCE

### STUDENT IMPACT

“I have never met such passionate professors who are eager to take you to soil pits and show you all the interesting processes soil has to offer. Their enthusiasm for the subject, and their students, allows students to become more interested and excited about the subject.”

- **ANNA BUECHELER**, environmental earth and soil sciences major
Three undergraduate degree programs provide students with a broad understanding and ability to manage the natural environment by improving the utilization and stewardship of land, water and atmospheric resources while protecting natural resources.

The environmental earth and soil sciences program provides a strong foundation for understanding the natural environment and improving the utilization and stewardship of land, water, and atmospheric resources. The core curriculum is composed of geology, geography, and soil science.

The environmental management and protection program integrates the biophysical and social/economical/political sciences. The curriculum emphasizes management and protection of ecosystem structures and processes that sustain uses of environmental resources.

Forestry and fire science prepares students for careers in the protection and management of our forest and natural resources. The program is accredited by the Society of American Foresters and the U.S. Office of Personnel Management recognizes employment as a forester with the Federal Government upon graduation.

Faculty-led field trips are an integral part of the student experience across the three programs. With more than 200 department field trips in an academic year, students gain field experience that bring the concepts of the classroom to life. Undergraduate research is another way students develop understanding and skillsets that prepare them for the professional world or further educational opportunities. It is our goal to provide students with experiences that exemplify Learn by Doing beginning day one.

**DEPARTMENT HIGHLIGHTS**

**CAL POLY WILDLAND-URBAN INTERFACE FIRE INSTITUTE**

Comprised of Cal Poly faculty, staff and students, and partnered with industry and community members, is focused on developing and evaluating methods of managing forests and designing communities in ways that reduce wildfire severity and threats to human welfare and property while maintaining environmental and community health. It is the first-of-its kinds at a California State University.

**SWANTON PACIFIC RANCH**

Students have the unique opportunity to partner in research at the 3,200-acre forest at Swanton Pacific Ranch in Santa Cruz County. This distinctive living laboratory provides students with Learn by Doing opportunities that are second-to-none. Working hand-in-hand with expert faculty, students study the methods of resource conservation applied through sustainable management techniques.