



# Geospatial Information Science & Technology, B.S.

Geospatial Information Science & Technology is an interdisciplinary program between Geography, Environment & Spatial Analysis; Forestry, Fire & Rangeland Management; and the Environmental Science & Management departments. The program is critical to solving some of the world's greatest challenges, as well as local problems like sea-level rise, emergency preparedness, and providing health services. The data and methods involved require experts that are trained in geospatial skills and how to apply these skills to other disciplines.

## Experience Your Learning

You'll work alongside faculty on research in state-of-the-art labs and out in the field as you explore humankind's ever-changing relationship to the environment.

Our Dendroecology Research Lab supports research in the areas of physical geography, vegetation and disturbance ecology, dendroecology, landscape ecology and geospatial analysis.

Cartography and data visualization come alive in our Kosmos Lab, named for Alexander von Humboldt's groundbreaking work in geographic analysis.

Institute for Cartographic Design (ICD) provides opportunities for students to work on real-world projects with clients.

Field Studies allow you to use what you've learned to undertake important research topics that interest you—like global warming, restoration, urban planning, and much more—in places that inspire you, from Northern California to Tibet.

Our students present at regional and national conferences each year, where their projects consistently earn major awards and the respect of their fellow geographers.

Institute for Spatial Analysis, Modeling, and Monitoring (ISAMM) provides equipment and the opportunity for students to engage in high impact geospatial research with equipment including Unmanned Aerial Vehicles (UAVs/Drones).

## Did you know?

- Geospatial analysis and cartography are essential tools in the fight against climate change, and were a key part of stopping the production of fluorocarbons that were destroying the ozone layer that protects us from harmful ultraviolet rays.
- Humboldt geospatial students have gone on to work for National Geographic, The Washington Post, Apple, and Uber, and held internships at NASA, Yurok Tribe, Hoopa Tribe, and various social and environmental nonprofit organizations.



# Academics & Options

## Geospatial Information Science & Technology, B.S.

Students will receive a strong geospatial foundation, and then have the opportunity to choose a focus in either an environmental or social science pathway. You'll develop professional skills in writing, research, and presentations, and the latest technologies including geographic information systems, remote sensing and mapping of all kinds.

## Program Concentrations

- Environmental Science
- Social Science

## Get Involved

Get engaged and learn from a community of your peers who share a love of geography, the environment, and spatial analysis. Our active student organizations include the Geospatial Club, The Cartographic Society of Cal Poly Humboldt, and the Natural Resources Club, among others.



## Careers

Equipped with critical thinking skills that integrate knowledge of the human world and physical environment, combined with latest in geospatial technical skills, our majors are prepared to pursue meaningful careers in a wide range of fields.

- Photogrammetrist
- Cartographer
- Geographer
- Remote sensing analyst
- Surveyor
- Demographer
- GIS Programmer/Software Developer
- GIS Analyst
- GIS Specialist
- Geospatial Database Manager

