

Geographic Information Systems

Specialized Certificate

Geographic Information Systems (GIS) allow businesses and organizations to store, analyze, and visualize geographic and spatial data. In this program, you will learn the full range of GIS capabilities. Program courses begin with basic skills, such as displaying and querying data, and progress to more advanced skills, such as designing and managing databases and analyzing geospatial data. In each course, you will have the opportunity for hands-on practice with real-life projects and assignments.

Benefits:

- Practical, hands-on comprehensive training
- All courses are taught online for flexibility
- Industry-neutral curriculum allows students to apply knowledge to their field of interest
- Capstone guided research project and report

Courses:

- GIS I: Introduction to GIS
- GIS II: Spatial Analysis
- GIS III: Web GIS
- GIS IV: 3-D Display and Analysis of Spatial Data
- GIS Capstone Project

Key Topics:

- Fundamental GIS skills
- Coordinate systems
- Editing geographic and tabular data
- Spatial data analysis
- Geodatabase creation and design
- Geospatial information design and cartography
- 3D data display and analysis
- Basic project management techniques

**ALL
COURSES
OFFERED
ONLINE**

Analyze geospatial data for a large range of applications, new classes begin quarterly.

For more information contact:

unex-techdata@ucsd.edu