GIS&T Minor
Geospatial Information Systems & Technologies

The GIS&T Minor provides students with cutting-edge technical knowledge and skills using state-of-the-art information technology, such as geographical information systems (GIS), satellite imagery and global positioning systems (GPS), which are in high demand in business, government, and research. Upon completion of the minor, students are well-positioned to enter the workforce or to pursue advanced degrees in geography or allied fields.

- To declare the GIS&T Minor, students must complete Geog 7 with a grade of C or better
- All courses must be taken for a letter grade with a minimum GPA of 2.0 in the Minor
- Each upper division course must be completed with a C or better
- Geography 199 (Independent Research) must be taken as a 4-unit, letter-graded course
- At least 20 units applied toward this Minor must only count towards this Minor and may not overlap with any other major or minor
- No more than 2 upper division courses may overlap between the student’s major and this Minor

Lower Division Requirement: 2 courses (10 units)

1) Geography 7 – Introduction to GIS
2) Statistics 12 – Statistical Methods for Geography Majors

Upper Division Requirements: 6 courses (24 units minimum)

3 mandatory courses:

- Geography 167 - Cartography
- Geography 168 - Intermediate GIS
- Geography 169 - Satellite Remote Sensing and Imaging GIS

3 additional courses from the following list:

- Geography 154 - Images of Earth: World from Above
- Geography 162 - Glacier Environments of California’s High Sierra
- Geography 163 - Field Analysis in Biogeography
- Geography 166 - Environmental Modeling
- Geography 170 - Advanced GIS
- Geography M171 - Introduction to Spatial Statistics
- Geography 172 - Remote Sensing: Digital Image Processing & Analysis
- Geography 173 - GIS Programming & Development
- Geography 177 - Field Methods in Physical Geography

*Geography 199 – Independent Research in Geography (prior approval required)