

## 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.

#### Lower Division Requirement: 2 courses (10 units)

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

#### Upper Division Requirements: 6 courses (24 units minimum)

##### 4 mandatory courses:

Geography 167	Cartography
Geography 168	Intermediate GIS
Geography 169	Satellite Remote Sensing and Imaging GIS
Geography 170	Advanced GIS

##### 2 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 M171	Introduction to Spatial Statistics
Geography 172	Remote Sensing: Digital Image Processing & Analysis
Geography 173	GIS Programming & Development
Geography 174	Advanced Remote Sensing
Geography 177	Field Methods in Physical Geography
Geography 199*	Independent Research in Geography (approval required)

- Effective Fall 2013, to declare the GIS&T Minor, students must complete Geog 7 with a grade of B 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.
- One Geography 199\* (Independent Research) may apply towards the Minor with approval. Must be taken as a 4-unit, letter-graded course.
- At least 20 upper and lower division 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.