

# 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). These applications 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 Requirements: 2 courses (10 units)

GEOG 7 Introduction to GIS (must be taken for letter-grade)

STATS

- 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 GEOG 199\* (Contract Course: Independent Research) may apply towards the Minor with approval, and must be taken as a 4-unit, letter-graded course
- At least 20 Upper and Lower division units must be exclusively applied toward this Minor
- No more than 2 Upper Division courses may overlap between the student's Major and this Minor
- STATS requirement may be satisfied by the following: STATS 10, 12, 13, ECON 41, POLI SCI 6 or PUB AFF 60

### Minor Requirements: 6 courses (24 units min.)

#### 4 mandatory courses:

GEOG 180	Cartography
GEOG 181A	Intermediate GIS
GEOG 181B	Advanced GIS
GEOG 182A	Satellite Remote Sensing and Imaging GIS

#### Select 2 additional courses from the following list:

GEOG 181C	GIS Programming & Development
GEOG 182B	Remote Sensing: Digital Image Processing & Analysis
GEOG 182C	Advanced Remote Sensing
GEOG 183	Field Analysis in Biogeography
GEOG 184	Environmental Modeling
GEOG 185	Field Methods in Physical Geography
GEOG 186	Introduction to Spatial Statistics
GEOG 199*	Independent Research in Geography (approval required)