# **Geospatial Information Science and Technology**

## **Minor**

The minor in Geospatial Information Science and Technology (GIST) has been approved by three departments at UC Berkeley. The Departments of Environmental Science, Policy, and Management in the College of Natural Resources, City and Regional Planning in the College of Environmental Design, Geography in the College of Letters and Science all offer minors in GIST which includes courses across campus. These programs serve students in geography and other social sciences, archeology, environmental science, policy and management, city and regional planning, humanities, architecture, landscape architecture and environmental planning, civil and environmental engineering, public policy, and environmental public health. The minor is open to all majors at UC Berkeley.

# **Declaring the Minor**

The Geospatial Information Science and Technology minor is available to any current UC Berkeley student in good academic standing. The deadline to complete this minor program is before your degree at UC Berkeley has posted. For more information, please visit https:// nature.berkeley.edu/advising/minors/gist

Students who have a strong interest in an area of study outside their major often decide to complete a minor program. These programs have set requirements and are noted officially on the transcript in the memoranda section, but they are not noted on diplomas.

## **General Guidelines**

### Completing the Geospatial Information Science and Technology Minor Program:

- 1. Students must complete one required prerequisite and at least five upper division courses. At least three upper division courses must be selected from the restricted elective list.
- 2. Students must check with their home college for overlap restrictions between majors and minors.
- 3. All courses must be taken for a letter grade and the cumulative minor GPA must be 2.0 or higher.

# Requirements

#### Prerequisite, select 1 course from the following list.

ESPM 72	Introduction to Geographic Information Systems
GEOG 80	Digital Worlds: An Introduction to Geospatial
	Technologies

For additional preparation, students might consider optional prerequisites of COMPSCI 10 The Beauty and Joy of Computing or ENGIN 7 Introduction to Computer Programming for Scientists and

Upper Division Courses - Restricted Elective Courses: Select at least 3 courses from the following list.

ESPM 164	GIS and Environmental Science
ESPM 173	Introduction to Ecological Data Analysis

**Upper Division Courses - Additional Elective Courses: Select** final upper division courses from the lists above or below.

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Undergraduate Courses			
	COMPSCI 160	User Interface Design and Development	
	CY PLAN 110	Introduction to City Planning	
	EPS 101	Field Geology and Digital Mapping	
	ESPM 137	Landscape Ecology	
	ESPM 172	Photogrammetry and Remote Sensing	
	ESPM/ ENVECON C183	Forest Ecosystem Management	
	LD ARCH 110	Ecological Analysis	

LD ARCH 130 Sustainable Landscapes and Cities

Graduate Courses (Graduate courses may be used with consent of instructor and with completion of necessary prerequisites.)

CY PLAN 204CAnalytic and Research Methods for Planners: Introduction to GIS and City Planning

CY PLAN 255 Urban Planning Applications of Geographic Information Systems

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ESPM 210	Spatial Data Analysis for Natural Resources
ESPM 271	Advanced Remote Sensing of Natural Resources
ESPM 290	Special Topics in Environmental Science, Policy, and Management (If topic is Applications in Remote Sensing. There may be other 290 courses, but this is the only one approved.)
GEOG 282	Geographic Information Systems: Applications in Geographical Research

LD ARCH 221 Quantitative Methods in Environmental Planning

PB HLTH 272AGeographic Information Science for Public and **Environmental Health** 

PUB POL 290 Special Topics in Public Policy (Special Topics in Public Policy: Spatial Data and Analysis (There may be other 290 courses, but this is the only one approved.))