

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, and Geography in the College of Letters & Science 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 one 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 taking optional coursework involving programming such as COMP SCI 61A. Students should also consider attending Geolunch Seminars. Go to <http://gif.berkeley.edu/about/geolunch.html> for more information.

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

ESPM 164	GIS and Environmental Science
ESPM/LD ARCH C177	Course Not Available
ESPM 173	Introduction to Ecological Data Analysis

GEOG 183	Cartographic Representation
GEOG 185	Earth System Remote Sensing
GEOG 187	Geographic Information Analysis
GEOG/LD ARCH C188	Geographic Information Systems

LD ARCH/ESPM C177	Course Not Available
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LD ARCH/ GEOG C188	Geographic Information Systems
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Upper Division Courses - Additional Elective Courses: Select final upper division courses from the lists above or below.

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
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 204C	Analytic and Research Methods for Planners: Introduction to GIS and City Planning
CY PLAN 255	Urban Planning Applications of Geographic Information Systems
ESPM 210	Course Not Available
ESPM 271	Advanced Remote Sensing of Natural Resources
ESPM 290	Special Topics in Environmental Science, Policy, and Management (Depends on topic, see minor advisor for details.)
GEOG 282	Geographic Information Systems: Applications in Geographical Research
GEOG 285	Topics in Earth System Remote Sensing
LD ARCH 221	Quantitative Methods in Environmental Planning
LD ARCH 289	Applied Remote Sensing
PB HLTH 272A	Geographic Information Science for Public and Environmental Health
PUB POL 290	Special Topics in Public Policy (Depends on topic, see minor advisor for details.)