

Geospatial Information Science and Technology 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>.

Completing the Geospatial Information Science and Technology Minor Program:

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

Pre-Requisite: Select one course from the following:

- 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 Geographic Information Systems for Environmental Science and Management
- ESPM 173 Introduction to Ecological Data Analysis
- GEOG 183 3 Cartographic Representation
- GEOG 185 Earth System Remote Sensing
- GEOG 187 Advanced Cartographic Methods: GIS for Cartographers
- LD ARCH C177/ESPM C177 GIS and Environmental Spatial Data Analysis
- LDARCH C188/GEOG C188 Geographic Information Systems

UPPER DIVISION COURSES - ADDITIONAL ELECTIVE COURSES: Select final upper division courses from the list above or below:

Undergraduate Courses

- COMPSI 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 Cities and Landscapes

Graduate Courses

- *Graduate courses may be used for Minor, with consent of instructor and with completion of necessary prerequisites*
- CIV ENG 202B Geostatistics and Stochastic Hydrogeology
- CY PLAN 204C Analytic and Research Methods for Planners: Intro to GIS and City Planning
- CY PLAN 255 Urban Infomatics and Visualization
- ESPM 210 Spatial Data Analysis for Natural Resources
- ESPM 271 Advanced Remote Sensing of Natural Resources
- ESPM 290 Special Topics in ESPM (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 272 Geographic Information Science for Public and Environmental Health
- PUB POL 290 Special Topics in Public Policy (depends on topic, see minor advisor for details)

Completion of the GIST minor will be noted in the memorandum section of a student's transcript, not on the diploma.