

GIS Certificate Requirements

The Department of Geological Sciences offers an undergraduate GIS certificate with a course makeup representing spatial data analysis, digital image processing, and data visualization. A total of 13 credits (12 course credits and a presentation within (such as the College of Science and Engineering's Student Research Symposium (SRS)) or outside venues/meetings (equivalent to 1 credit)) are required to be certified. A grade of at least B is required for courses counted toward the certificate.

Required Courses:

- Introduction to Geographic Information Systems (GEOL/ENSC 50523)
- Intro to Python for Data Analysis (COSC 10603) or Intro to Programming (COSC 10403)

Choose two from the following:

- Intro to Geospatial Technology (GEOL/ENSC 30363)
- Spatial Analysis (GEOL/ENSC 50863)
- Environmental Remote Sensing (GEOL/ENSC 50873)
- Applied GIS (GEOL/ENSC 50883)
- Data Analysis and Visualization (GEOG 30323)
- Advanced GIS (GEOG 40313)
- GIS Internship (GEOL 50963)