



Required Credits: 12 Required GPA: 3.00

I REQUIRED COURSES

Note: It is advised that students not having previously taken a GIS course include GEOG 5231, Introduction to Geographic Information Systems, as one of their courses

Select 4 courses from the following list:

- GEOG 5150 Applications of Machine Learning (3 credits)
- GEOG 5226 Cartography (3 credits)
- GEOG 5231 Introduction to Geographic Information Systems (3 credits)
- GEOG 5232 Intermediate Geographic Information Systems (3 credits)
- GEOG 5255 Introduction to Remote Sensing (3 credits)
- GEOG 5265 Spatial Analysis (3 credits)
- GEOG 5275 Advanced Geographic Information Systems (3 credits)
- GEOG 5285 Drone Applications (3 credits)
- GEOG 5910 Directed Independent Study (3 credits)
 orGEOG 5970 Internship (3 credits)
 orGEOG 5980 Research (3 credits)

Program Learning Outcomes | Geographic Information Science

- 1. Comprehend the fundamental concepts and practices of Geographic Information Systems (GIS).
- 2. Collect, manage, analyze, and visualize geospatial data using GIS software.
- 3. Employ cartographic and map design principles to produce maps and visualizations.
- 4. Select and apply appropriate geoprocessing tools and spatial analysis techniques to solve real-world problems.
- 5. Effectively communicate spatial information through maps and visualizations.