

GEOGRAPHIC INFORMATION SYSTEMS AND SPATIAL ANALYSIS

OVERVIEW

The MS in GIS and Spatial Analysis is an online program offering training in a variety of spatial analysis, quantitative analysis, remote sensing, computational, and spatial programming techniques to investigate problems with a spatial component. The major offers a strong focus on the applications of geospatial science in the environmental sciences and resource management as well as applications for spatial analytics, geocomputation and coding, and digital cartography. The program is completed with a combination of required coursework, electives, and a professional level project. Students who remain in good standing and continue to make degree progress may be able to complete the degree in four semesters.

WHO MIGHT APPLY?

- Those interested in a career in GIS, digital mapping, web mapping, or geospatial data science
- Professionals working to advance in or transition to the geospatial career field
- Recent college graduates interested in graduate study

WHAT YOU'LL DO

- Create, manage, and analyze geospatial data, digital cartography and geovisualization
- Learn about web mapping and app development, spatial analytics and geospatial data science, analysis of remotely sensed data, geocomputation and coding, and the use of open-source software

TECHNOLOGIES EXPLORED

- ArcGIS Pro, Online, Experience Builder, and ESRI mobile apps
- Python, ArcPy, and open-source libraries
- QGIS, GRASS, and SAGA
- R, Tidyverse, and associated libraries
- Geodatabases and SQL
- HTML, CSS, and JavaScript
- ArcGIS API for JavaScript and Leaflet

ADDITIONAL PROGRAM INFORMATION

- 31 credit hours required (8 courses and a professional project)
- \$657 per credit hour

Start Dates

- January 9, 2023
- May 15, 2023
- August 16, 2023

