Geographic Information Science (GIS) Graduate Certificate

Student Learning Outcomes

Upon completion of the graduate certificate in Geographic Information Science, the graduate will be able to do the following:

1) Describe the fundamental theory of Geographic Information Science, as well as the purpose and applications of Geographic Information Systems (GIS).
2) Use Global Positioning System data, remotely sensed data, and other GIS data sources to conduct spatial analysis and implement real-world GIS applications.
3) Build maps that are fit-for-purpose and effectively convey the information they are intended to by following fundamental cartographic principles.
4) Create scripts, tools, and models using Python within the context of GIS to automate workflow
5) Effectively communicate processes and solutions to the public or intended audience using various outlets and tools.
6) Identify and analyze ethical issues surrounding the use of GIS data.
7) Demonstrate proficiency with formulating a research question, finding and using various geospatial data, and implementing analytical steps to answer questions using GIS.
8) Demonstrate a theoretical knowledge of techniques for spatial data analysis including introductory spatial statistics and GIS modeling.

Find out more about a Geographic Information Science Graduate Certificate at UWF:

http://uwf.edu/cse/departments/earth-and-environmental-sciences/