Graduate Certificate in Geographical Information Science - Interdisciplinary

This certificate is designed to provide students with the theoretical, practical and technical skills that are essential for the analysis of spatial data. Students from a wide range of disciplines will benefit by becoming proficient in the use and application of GIS technologies through a flexible set of courses and hands-on experiences. The program offers the training and experience necessary to prepare for the rapidly expanding professional opportunities available in the diverse set of fields that depend on geographic information.

Requirements

A student must complete a minimum of 12 hours of approved coursework, and must earn a grade of at least B (3.0) in each course.

Group A (Foundation courses, one from this group)

- GEOG 7840 Geographic Information Systems I
- NAT_R 8325 Introduction to Geographic Information Systems

Group B (Theoretical Breadth courses, at least one from this group)

- GEOG 7710 Spatial Analysis in Geography
- GEOG 7740 Location Analysis and Site Selection
- FOREST 7360 Photogrammetry, Inventory and Models
- GEOG 7810 Landscape Ecology and GIS Analysis I
- GEOG 7790 Geographic Information Systems for the Social Sciences

Group C (Technical Breadth and Application courses, at least one from this group)

- GEOG 7940 Advanced Geographic Information Systems (GIS II)
- GEOG 7860 Advanced Remote Sensing
- GEOG 7850 Transportation Geography
- GEOG 7130 The Geospatial Sciences in National Security
- NAT_R 7365 GIS Applications
- NAT_R 8395 Landscape Ecology and GIS Analysis II
- PUB_AF 8320 Spatial Analysis for Public Affairs

Capstone experience (or substitute 1 additional course from above)

- GEOG 8085 Special Investigations in Geography
- FOREST 8050 Research in Forestry