Graduate Certificate in Geographical Information Science - Interdisciplinary

Certificate description: Students from a wide range of disciplines will benefit from students with the theoretical, practical and technical skills that are essential for the analysis of spatial data. Learners become 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

Federal Gainful Employment disclosure information for this Graduate Certificate is available at https://gradstudies.missouri.edu/degreecategory/geography.