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 15 hours of approved coursework, and must earn a grade average of at least B (3.0) in these courses.

A certificate consists of at least 12 credits; at least 12 credits must be taken in MU course work. Students must meet the minimum GPA requirements for a certificate, which in no case can be lower than 2.0. In addition, a student cannot receive a grade lower than a C- in any course applied towards a certificate in the College. For more information, please see Requirements for an Optional Certificate (https://catalog.missouri.edu/collegeofartsandscience/#requirementsforanoptionalcertificate).

Group A (Foundation courses, one from this group)	
GEOG 3040	Introduction to Geographic Information Systems GIS
NAT_R 2325	Introduction to Geographic Information Systems
Group B (Theoretical Breadth courses, at least one from this group)	
GEOG 4710	Spatial Analysis in Geography
FOREST 4360	Forest Measurements
GEOG 4810/ NAT_R 4385	Landscape Ecology and GIS Analysis I
GEOG 3840	Cartography
GEOG 3830	Remote Sensing
GEOG 4740	Location Analysis and Site Selection
GEOG 4790	Geographic Information Systems for the Social Sciences
Group C (Technical Breadth and Application courses, at least one from this group)	
GEOG 4940	Advanced Geographic Information Systems (GIS II)
BIOL_EN 4350/ CV_ENG 4720	Watershed Modeling Using GIS
NAT_R 4365	GIS Applications
GEOG 4130	The Geospatial Sciences in National Security
GEOG 4850	Transportation Geography
GEOG 4860	Advanced Remote Sensing
ATM_SC 4510	Remote Sensing for Meteorology and Natural Resources
Capstone experience (or substitute 1 additional course from above)	
GEOG 3385	Special Problems in Geography
NAT_R 4001	Topics in Natural Resources