

GEOGRAPHY

Geographic Information Systems Certificate

This 18 credit-hour certificate provides students with the skills and knowledge necessary to effectively apply Geographic Information Systems (GIS) and related technologies and methodologies in various business and public sector domains as a technician or analyst. This certificate provides course work and hands-on experience in cartographic design, spatial analysis, spatial database design, the fundamentals of remote sensing, as well as the use of geographic computing devices and accessories.

F = Fall only course S = Spring only course U = Summer only course

Required:

Number	Course Title	Credits
GEG 150	GIS and Mapping Principles (F)	3
GEG 151	Geographic Information Systems I (S)	3
GEG 152	Geographic Information Systems II (S)	3
GEG 153	Applications for GIS	3
GEG 154	Introduction to Remote Sensing (F)	3

Electives: Select three credit hours from the following courses:

Number	Course Title	Credits
CIS 106	Computer Logic and Programming Technology ¹	3
GEG 100	Cultural Geography	3
GEG 101	World Regional Geography	3
GEG 103	The Developing World	3
GEG 111	Physical Geography	3
GEG 155	Geographic Information Systems (GIS) Internship	1-3

¹ Placement into MTH 101 or higher.