

Geography – Core classes:		40-42
GEOG 112	World Regional Geography OR	
GEOG 145	Human Geography	3
GEOG 115	Map Use, Interpretation, and Design	4
GEOG 118	Introduction to Mapping Technologies	4
GEOG 111	Introduction to Physical Geography	4
GEOG 120	GPS and Surveying Methods	4
GEOG 151	Geographic Information Systems I	4
GEOG 251	Geographic Information Systems II	4
MATH 251	Statistics	4
COSC 185	Database Management Systems	3
	Approved Geography Electives**	6-8
Total credit hours required for this degree		67-69

**Approved Geography Electives		
GEOG 125	Weather and Climate	3
GEOG 130	Natural Hazards	3
GEOG 135	Energy and Natural Resources Geography	3
GEOG 140	Geography of the Four Corners	3
GEOG 230	Geographic Image Analysis	4
GEOL 110	Introduction to Geology	4
DRFT 150	Computer Aided Drafting (CAD)	4
COSC 214	Visual Basic I	3
COSC 118	Computer Programming Fundamentals I with C++	3
GEOG 295	GIS Topics	1-6
GEOG 299	GIS Special Problems	1-6
GEOG 285	GIS Internship	3
GEOG 280	Cooperative Education	3

GEOGRAPHIC INFORMATION SYSTEMS Certificate

The GIS certificate is appropriate for persons interested in developing skills in geospatial technologies to use in their current profession or for those seeking immediate employment as a technician.

GEOG 118	Introduction to Mapping Technologies	4
GEOG 115	Map Use, Interpretation & Design	4
GEOG 112	World Regional Geography OR	
	GEOG 145 Human Geography	3
COSC 125	Business Microcomputer Applications	3
GEOG 111	Introduction to Physical Geography	4
GEOG 120	GPS and Surveying Methods	4
GEOG 151	Geographic Information Systems I	4
COSC 185	Database Management Systems	3
Total Credit Hours		29