

GEOGRAPHIC INFORMATION SYSTEMS, CERTIFICATE

Program Requirements

Code	Title	Hours
Certificate Requirements		
<i>Core Courses</i>		
GEO 353	Geographic Information Systems	3
GEO 455	GIS Cartography	3
GEO 456	Remote Sensing	3
GEO 453	Advanced GIS	3
<i>Electives</i>		
Choose from six hours of the following:		6
GEO 351	Geoscience Data and Techniques	
GEO 458	Advanced Geographic Imagery	
GEO 501	Advanced Geography:___	
GLY 351	Field Methods	
AEM 195	Computer Aided Drafting	
CON 221	Plane Surveying	
HLS 461	Disaster Resilience	
HLS 491	Disaster Planning and Exercises	
CSC 190	Object- Oriented Programming I	
Choose from one of the following:		
GEO 398		
GLY 498	Capstone Project in Geology	
GLY 499	Senior Thesis (if topic is appropriate)	
Choose from one of the following:		
STA 215	Introduction to Statistical Reasoning	
STA 270	Applied Statistics	
STA 500		
Choose from one of the following:		
CSC 160	Introduction to Web Programming	
CSC 174	Introduction to Programming for Science & Engineering	
CSC 177	Introduction to Visual Basic	
Total Hours		18