

Certificate in Geographic Information Systems (GIS)

This undergraduate certificate in Geographic Information Systems (GIS) (17-18 hours) prepares individuals to explain geospatial science components and how they can assist in solving geographic problems; select the appropriate scale and map projections to use for various GIS applications; create and maintain geospatial datasets; and select the appropriate spatial dataset formats to use for various GIS applications. This certificate is designed for aspiring geospatial professionals who want to become more skillful users of GIS methods, software, and related tools.

The concentrated Curriculum has four courses required for a total of 15 hours. Students can choose from approved electives for courses that are at least 2 credit hours. Total hours for GISc Certificate is 17-18 hours.

Code	Title	Hours
Required Core Courses (15 hours)		
GEOG 5830	Geographic Information Systems	4
GEOG 5820	Aerial Photography and Remote Sensing	4
GEOG 5880	Advanced Geographic Information Systems	3
GEOG 3810	Cartography and Graphics	4
Elective Courses (2 hours minimum)		
BSEN 5220	Geospatial Technologies in Biosystems	3
FORY 5480	GIS Database Design and Analysis	2
CPLN 5460	Geographic Information Systems for Planning and Policy	3
GEOG 5850	Drones and Geospatial Applications	3
GEOG 5700	Quantitative Methods and Spatial Analysis	3
GEOL 5100	Hydrogeology	3