

GEOGRAPHIC INFORMATION SYSTEMS (CERTIFICATE)

Social Science

Program website (<https://www.harpercollege.edu/academics/social-science/geography/geographic-information-systems-certificate.php>)

Program Overview

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.

Program Requirements

Code	Title	Hours
Required		
GIS 100	Introduction to Geospatial Technologies	3
GIS 101	Geospatial Data Acquisition and Management	3
GIS 102	Spatial Analysis	3
GIS 103	Applied Geospatial Technology	3
GIS 200	Introduction to Remote Sensing	3
Electives		
Select three credit hours from the following courses:		3
CIS 106	Computer Logic and Programming Technology ¹	
GEG 100	Cultural Geography	
GEG 101	World Regional Geography	
GEG 103	The Developing World	
GEG 111	Physical Geography	
GIS 104	Geographic Information Systems Internship	
Total Hours		18

¹ Placement into MTH 101 or higher.

Gainful Employment

Harper College provides Gainful Employment information to comply with the U.S. Department of Education.