

GEOSPATIAL TECHNOLOGY, Diploma - 0580

Social Science Department

CIP Code: 45.0702

HACC's Geospatial Technology diploma program provides foundation preparation for a student planning a career in geospatial technology, or supplemental preparation of a person already employed in a career related to geospatial technology. Geospatial technology is an industry requiring technicians to be skilled in data acquisition, management, interpretation, integration, analysis, representation, and visualization. In addition, the high-technology nature of geospatial technology demands personnel who are able to work in cross-functional teams in a rapidly evolving employment setting. This diploma may be completed entirely through asynchronous instruction.

Career Opportunities

Graduates find employment as geographic information specialists or other disciplines related to the acquisition, use and processing of geographic and time-based data. (**SOC Code: 17-1021 Cartographers and Photogrammetrists**)

Competency Profile

This curriculum is designed to prepare students to:

- Apply geospatial technology skill sets to analyze spatial questions, patterns, trends, distributions and flow spatially and over time
- Evaluate, generate, manage, acquire and process geospatial information
- Develop geospatial data, maps, and applications using GIS and remote sensing software to describe, visualize and analyze geographic questions
- Design, manage and implement geospatial projects

PROGRAM REQUIREMENTS (TOTAL CREDITS = 17)

General Education	Major Requirements	Other Required Courses
	GIS 141 Intro to Geographic Information Systems	3
	GIS 204 Cartographic Design	3
	GIS 205 Data Acquisition and Remote Sensing	4
	GIS 221 Web Geographic Information Systems (GIS)	3
	GIS 275 Spatial Analysis	4
		17

RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Part-time students can complete this program by taking one or more courses each semester.

Option #1

Summer	Fall Semester I	Spring Semester I
GIS 141 3	GIS 204 3	GIS 205 4
	GIS 221 3	GIS 275 4

Option #2

Fall Semester I	Spring Semester I	Fall Semester II
GIS 141 3	GIS 205 4	GIS 204 3
GIS 221 3	GIS 275 4	