

# GEOSPATIAL TECHNOLOGY, Diploma - 0580

Engineering & Technology 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. The complete program is only available through Virtual Learning.

## 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 theory to data acquisition, data processing and spatial analysis workflows
- Use GIS software packages and geospatial data processing tools
- Apply geospatial technology theory, data methods and analysis to applications in engineering, geology and environmental science

## 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	<u>4</u>
		17

## RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

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

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