

# Geospatial Technology



HEARTLAND  
COMMUNITY COLLEGE

## Associate in Applied Science 61-62 Semester Hours

### General Education Requirements

		hrs
COMM	101 Intro to Oral Communication	3
ENGL	101 Composition I	3
MATH	109 College Algebra for Math & Science	4
Or		
MATH	141 Introduction to Statistics	4
Or		
TMAT	103 Technical Mathematics I	4
MATH	128 Trigonometry	3
Or		
TMAT	105 Technical Mathematics II	4
	Physical Science Elective	<u>4</u>
	<b>TOTAL</b>	<b>17-18</b>

### Program Description

By enrolling in the Geospatial Technology program, you learn to use Geographic Information Systems (GIS) and CAD systems to create drawings and models that reflect standard professional practices. As you learn about spatial relationships, you will also be introduced to surveying and site planning, modeling and imaging, visualization techniques, geography and geology, and remote sensing. While you complete problem-solving activities and design projects, you gain skills in team work and developing creative solutions. The need for GIS skills is expanding rapidly, when you complete this program, you can seek employment as a GIS technician, site and survey layout technician, or engineering assistant.

### Technical Requirements

BUSN	145 Employment Success Strategies	1
CAD	101 Introduction to AutoCAD	3
CAD	110 CAD Software Applications	3
CSCI	101 Intro to Computer Information Science	4
MAIN	101 Industrial Electricity & Systems	3
TECH	114 Introduction to Technical Graphics	<u>3</u>
	<b>TOTAL</b>	<b>17</b>

### Core Requirements

CNST	152 Surveying and Site Planning	3
CSCI	110 Introduction to Database Management Systems	3
DMED	120 Computer Imaging & Design	3
EASC	161 Physical Geology	4
GEOG	101 World Geography	3
GIS	101 Fundamentals of GIS	3
GIS	171 Remote Sensing	3
GIS	201 Applications of GIS	3
	Technical Elective*	<u>3</u>
	<b>TOTAL</b>	<b>28</b>

\*Technical electives may be taken as approved by advisor or STEM & Business Division; consider choosing these electives in order to earn additional Skills Certificates