

# Geographic Information Systems (AAS)

**Degree Type:** Associate of Applied Science Degree

**Division:** Business, Education, Math, Science & Technology

**Purpose:** Career and Technical Education. This program provides students with the skills and knowledge for employment in geographic information systems (GIS) and mapping technology. The program prepares students for entry into a number of fields that utilize GIS technology which includes but is not limited to civil technology, forestry, agriculture, environmental science, criminal justice, emergency planning, and many other industries.

## FIRST YEAR

Fall Semester			Hours	✓
ENGL	111 <sup>(1)</sup>	College Writing	3	
CIVL	106 <sup>(1)</sup>	Technical Math I <sup>(2)</sup> -or- MATH 153 or higher	3	
GIS	110	Introduction to Mapping Principles	3	
GIS	120	Intro to Geographic Information Systems	3	
IST	125	Visual BASIC Programming	3	
GEOG	111	Regional Geography: Eastern World	3	
TOTAL HOURS			18	

Spring Semester			Hours	✓
CIVL	107 <sup>(1)</sup>	Technical Math II <sup>(2)</sup> -or- MATH 153 or higher	3	
PHYS	150	Environmental Geology	4	
GEOG	112	Regional Geography: Western World	3	
IST	269	Database Applications	3	
GIS	140	Geographic Information Systems II	3	
TOTAL HOURS			16	

## SECOND YEAR

Fall Semester			Hours	✓
ENGL	112 <sup>(1)</sup>	Advanced College Writing	3	
GIS	210	WEB-Based GIS	3	
GIS	220	Introduction to Remote Sensing	3	
GIS	230	Spatial Analysis in GIS	3	
SCOM	110	Public Speaking	3	
GIS	240	Applications in GIS	3	
TOTAL HOURS			18	

Spring Semester			Hours	✓
GOVT	121	National and State Government	3	
GIS	250	Advanced GIS	3	
CIVL	198	Workplace Readiness	1	
MAFT	297	Internship <sup>(3)</sup>	6	
TOTAL HOURS			13	

<sup>(1)</sup> Course has prerequisite or placement requirements.

<sup>(2)</sup> Students planning to transfer to a four-year institution should substitute MATH 163, MATH 164 or MATH 170.

<sup>(3)</sup> Students with extensive full-time industry experience and instructor approval may substitute six-credit hours of approved coursework.