

Geographic Information Systems (AAS)

Degree Type: Associate of Applied Science Degree

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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	College Writing	3	
CIVL MATH	106 ⁽¹⁾ 103/153	Technical Math I -or- Intermediate Algebra (or <i>higher level Math course</i>)	3-4	
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			18-19	

Spring Semester			Hours	
CIVL MATH	107 ⁽¹⁾ 163	Technical Math II -or- College Algebra (or <i>higher level Math course</i>)	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	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 Seminar	1	
MAFT	297	Internship ⁽²⁾	6	
TOTAL HOURS			13	

⁽¹⁾Students planning to transfer to a four-year institution should substitute MATH 163, MATH 164 or MATH 170.

⁽²⁾Students with extensive full-time industry experience and instructor approval may substitute six-credit hours of approved coursework.

Please see individual course descriptions for prerequisites, corequisites, and/or other requirements.