


Geospatial Technology (9680)

Associate of Applied Science Degree

























The Geospatial Technology Associate of Applied Science degree is designed to prepare students for careers in geospatial technology, including GIS technician positions in government and private industry. The geospatial industry includes jobs in geographic information systems (GIS), remote sensing, location positioning, geospatial intelligence, mapping, and related areas. Geospatial technology is recognized by the U.S. Department of Labor as a high-growth career field, and this program will prepare students to enter the geospatial industry.

Course	Title	Credit Hours
First Semester		
ENGL 1110 or ENGL 1111	English Composition I (A) ¹ or English Composition I (B)	3
FYEX 1000	First Year Experience	1
GEOG 1400	Mapping Technologies	3
GEOG 1500	Introduction to Geography	3
GEOG 1700	Map Design and Interpretation	3
ITIS 1005	Computer Essentials	3
	Credit Hours	16
Second Semester		
ENGL 1120 or ENGL 1121	English Composition II or English Composition II-Technical Focus	3
GEOG 1600	World Regional Geography	3
GEOG 2700	Geographic Information Science	3
ITIS 1520	Microsoft Office Excel: Skills and Techniques	3
MATH 1550	Statistics	4
	Credit Hours	16
Third Semester		
COMM 1000 or COMM 1100 or MECT 1150	Effective Public Speaking or Effective Interpersonal Communications or Technical Communications	3
GEOG 1550 or PSCI 1300	Physical and Environmental Geography or Earth Science	3
GEOG 2710	Spatial Data Acquisition and Management	3
ITCS 1010	Programming Logic	3
Select course(s) from the Technical Electives list		3
	Credit Hours	15
Fourth Semester		
GEOG 2730	Remote Sensing	3
GEOG 2780	Internship and Seminar in Geospatial Technology	2
POLS 1300 or POLS 2100	U.S. National Government or State and Local Government	3
Select course(s) from the Arts and Humanities Electives list		3
Select course(s) from the Technical Electives list		4
	Credit Hours	15
	Total Credit Hours	62

¹ English course selection is based on placement test results (ENGL 1111 English Composition I (B) is 4 credits, only 3 credits apply to the degree).

-  This course is designated as a technical course in the program. Students must earn a "C" grade or higher in the course to fulfill the college's graduation requirements policy.

Electives

Course	Title	Credit Hours
Technical Electives		
CADT 1100	Introduction to AutoCAD 	3
CADT 1500	Advanced AutoCAD 	3
CADT 2100	Introduction to SolidWorks 	3
CIVT 1012	Reading Construction Drawings 	1
CIVT 2111	Surveying I 	2
GEOG 2720	Web Mapping and Programming for GIS 	1
GEOG 2750	Spatial Analysis and Modeling 	3
GRDS 1375	Computer Graphics AI, ID and PS 	3
ITCS 1105	Web Programming I 	3
ITCS 1820	Java Programming I 	3
ITCS 1870	Python Programming I 	3
ITDB 1400	Introduction to SQL 	2
ITDB 1405	Oracle PL/SQL Programming 	2
ITIS 1007	Principles of Information Technology and Computer Science 	3
ITIS 1108	Using an HTML Editor 	2
ITIS 1115	Internet Technologies and Concepts 	2
ITIS 1130	Introduction to Web Design 	1
ITIS 1510	Microsoft Office Word: Skills and Techniques 	3
ITIS 1530	Microsoft Office Access: Skills and Techniques 	3
ITIS 1540	Microsoft Office PowerPoint: Skills and Techniques 	2
ITON 1070	Operating Systems: Skills and Techniques 	1
ITON 1205	Network+ and Networking Essentials 	2
ITON 1610	Wireless Communications and Networking 	2
PHOT 1105	Basic Photography - Digital 	3
Arts and Humanities		
ARTS 1120	Art Appreciation	3
ARTS 2220	Survey of Art I	3
ARTS 2230	Survey of Art II	3
ENGL 2250	Survey of American Literature I	3
ENGL 2260	Survey of American Literature II	3
ENGL 2280	Survey of British Literature I	3
ENGL 2290	Survey of British Literature II	3
HUMX 1100	Introduction to Humanities	3
HUMX 1200	The American Experience in the Arts	3
MUSC 1200	Music Appreciation	3
MUSC 1215	World Music	3
MUSC 1800	Popular Music: Rock, Jazz, Country, and Hip-Hop	3
MUSC 2200	Music History and Literature I	3
MUSC 2250	Music History and Literature II	3
PHIL 1500	Introduction to Philosophy	3
PHIL 2000	Comparative Religion	3
PHOT 1000	History of Photography	3