



# Geographic Information Systems Associate of Applied Science (A.A.S.)

2018–2019

## DESCRIPTION:

The Geographic Information Systems A.A.S. degree, a fully online STEM program, merges geography and computer technology to apply to the science of where. A geographic information system (GIS) is designed to capture, store, manipulate, analyze, manage, and present spatial or geographical data. This degree program provides students with the skills to become professionals who use, edit, and make better decisions using GIS. With the growth of decision-making using spatial data and geographic locations, many governments and businesses are looking for individuals with these skills and knowledge. GIS is expected to continue as a growth occupation in Ohio and the nation in the years to come.

This online A.A.S. degree serves the educational needs of professionals who wish to gain technical proficiency in GIS as well as those students starting in their academic careers who love computers and geography. The coursework in this A.A.S. degree can be used as part of the educational requirement for the Geographic Information Systems Professional (GISP) certification. For more information, see [csc.edu/gis](http://csc.edu/gis).

## ADMISSION REQUIREMENTS:

This degree program has a non-competitive, non-selective admission and can be started in any semester.

## ONGOING REQUIREMENTS:

The GIS A.A.S. degree program has no specific ongoing requirements other than the minimum GPA required by the college.

## OPPORTUNITIES FOR GRADUATES:

### Career:

Graduates with the Geographic Information Systems A.A.S. degree typically work as GIS technicians and analysts, and the demand for professionals capable of performing tasks in this field continues to increase. Graduates can work in diverse industries that use geographic information systems, including government agencies, health care, construction, banking, land-use planning, transportation mapping and analysis and emergency response

### Transfer:

Students with the Geographic Information Systems A.A.S. have successfully transferred to four year institutions across the country. Articulation agreements exist for the GIS A.A.S. to Bachelor's degrees in Technical and Applied Studies (Ohio University) and Applied Management (Franklin University).

## DEGREE REQUIREMENTS (GEOGRAPHIC INFORMATION SYSTEMS A.A.S.):

### FIRST SEMESTER

Course	Term	Credits	Milestones/Progress Check
ENGL 1100 Composition I	AU/SP/SU	3	
COLS 1100 First Year Experience Seminar	AU/SP/SU	1	
ITST 1101 Computer Apps in CSET or CSCI 1101 Computer Concepts	AU/SP/SU	2	
Basic Elective (select from approved list)	AU/SP/SU	2	
GIS 1100 Intro to GIS	AU/SP	3	
GIS 1101 Acquiring GIS Data (1st 8 week term)	AU/SP/SU	2	
GIS 1102 Mapping for Everyone (2nd 8 week term)	AU/SP/SU	2	
<b>Semester Credits</b>		<b>15</b>	

### SECOND SEMESTER

Course	Term	Credits	Milestones/Progress Check
STAT 1350 Elementary Statistics or MATH 1111 Technical Math	AU/SP/SU	3	
Natural Science Elective (select from approved list)	AU/SP/SU	3	
GEOG 2900 Elements of Cartography	AU/SP	3	
GIS 1200 GIS Software I (1st 8 week term)	AU/SP/SU	2	
GIS 1201 GIS Software II (2nd 8 week term)	AU/SP/SU	2	
GIS 1202 Planning and Implementing GIS	SP	2	
<b>Semester Credits</b>		<b>15</b>	

### THIRD SEMESTER

Course	Term	Credits	Milestones/Progress Check
Basic Elective (select from approved list)	AU/SP/SU	2	• Successful completion of GIS 2950 can result in student receiving a GIS Certificate which will apply towards education credit for a Geographic Information Systems Professional (GISP) certification in the industry
GIS 2950 GIS Practicum and Seminar	AU/SP/SU	3	
<b>Semester Credits</b>		<b>5</b>	

### FOURTH SEMESTER

Course	Term	Credits	Milestones/Progress Check
HUM Elective (select from approved GE – HUM list)	AU/SP/SU	3	
Basic Elective (select from approved list)	AU/SP/SU	2	
GIS 2100 Intro to GIS Databases	AU	3	
GIS 2110 Intro to Spatial Analysis	AU	3	
GIS 2120 Intro to GIS Programming	AU	3	
GIS 2130 Geo-referencing and Editing	AU	2	
<b>Semester Credits</b>		<b>16</b>	

### FIFTH SEMESTER

Course	Term	Credits	Milestones/Progress Check
SBS Elective (select from approved GE-SBS list)	AU/SP/SU	3	• Successful completion of GIS Associate degree which will apply towards education credit for a Geographic Information Systems Professional (GISP) certification in the industry
COMM 2200 Business Communications	AU/SP/SU	3	
GIS 2200 Image Management and Analysis	SP	3	
GIS 2299 Advanced GIS Applications	SP	4	
GIS Technical Elective	AU/SP/SU	1	
<b>Semester Credits</b>		<b>14</b>	
<b>Total</b>		<b>65</b>	

AU: Autumn Semester/SP: Spring Semester/SU: Summer Semester; Requirements subject to change.