

Geographic Information Systems Technology

Geographic Information Systems Technology

STANTON CAMPUS

Fall 2017

The associate degree in Geographic Information Systems (GIS) Technology provides a wide range of courses to prepare students for entry-level GIS technician positions in a variety of professional fields. The program educates students in the general and technical aspects of geography and geospatial technologies. The student gains practical experience in building, maintaining, modifying, and using GIS databases, data analysis, custom application development, and visual communication. The curriculum is broad-based to meet the demands of a range of geospatial technology positions.

PROGRAM SPECIFIC ADVISEMENT STATEMENT

Courses - Semester 1	Credits	Lecture	Lab
SSC 100 - First Year Seminar	1	1	
ISY 111 - Ethics & the Information Age	2	2	0
GIS 101 - Introduction to GIS	3	2	2
SOC 104 - Human Geography	3	3	0
ENG 101 - Crit Thinking & Acad Writing	3	3	
(MAT 180 - College Algebra	4	4	1
OR MAT 190 - Precalculus	4	4	1
OR MAT 281 - Calculus I)	4	4	1
Courses - Semester 2	Credits	Lecture	Lab
CIS 120 - Intro to Programming	4	3	2
GIS 110 - Spatial Data Analysis & Model	4	3	2
GIS 120 - Data Acquisition & Management	4	3	2
MAT 255 - Statistics I	3	3	1
ENG 102 - Composition and Research	3	3	
Courses - Semester 3	Credits	Lecture	Lab
(GIS 270 - GIS Co-op	2	0	7
OR GIS 271 - GIS Internship)	2	0	7
Courses - Semester 4	Credits	Lecture	Lab
CIS 238 - Database Design & Programming	4	3	2
GIS 210 - Cartographic Design & Vis	3	2	3
GIS 220 - Programming for GIS Techs	4	3	2
GIS 230 - Geospatial Web App & Dev	3	2	3
Courses - Semester 5	Credits	Lecture	Lab
GIS 240 - Emerging GIS Technologies	3	2	3
GIS 260 - Geospatial Projects	4	3	3

Approved Electives

Select one (1) social science elective from Group A to be taken at any time after satisfying test scores or prerequisites. Select a concentration from Group B, C, or D to be taken in the fourth and fifth semesters.

Group	Courses	Credits	Lecture	Lab
A	CLT 110 - Cross-Cultural Immersion	3	3	0

A	COM 111 - Human Communications	3	3	0
A	ECO 111 - Macroeconomics	3	3	0
A	ENG 124 - Oral Communications	3	3	0
A	SOC 103 - Sustainability and Society	3	3	0
A	SOC 111 - Sociology	3	3	0
A	HIS 111 - U. S. History: Pre-Civil War	3	3	0
A	HIS 112 - U. S. History: Post-Civil War	3	3	0
A	HIS 131 - Art History I	3	3	0
A	HIS 132 - Art History II	3	3	0
B	(CET 144 - Surveying Principles	4	3	3
B	AND CET 245 - Advanced Surveying Principles)	3	2	2
C	(CRJ 101 - Intro to Criminal Justice	3	3	0
C	AND CRJ 223 - Criminology)	3	3	0
D	(ENV 190 - Intro to Env't Science & Tech	3	3	0
D	AND GEO 105 - Geology and the Environment)	3	2	2

*To complete program requirements, you must pass the above courses and earn at least **66 credits**. The number of courses and credits required for graduation may be more depending on your need for developmental education courses and the elective choices you make (if electives are a part of the program). Some programs also have college-level courses that you must take if you do not score at a certain level on the College Placement Test. If this applies to your program, the courses are listed at the top of the sequence sheet before the first semester of the course list.*