

## Geographic Information Systems Technology

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STANTON CAMPUS

Fall 2022

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

<b>Courses - Semester 1</b>	<b>Credits</b>	<b>Lecture</b>	<b>Lab</b>
<a href="#">SSC 100 - First Year Seminar</a>	1	1	0
<a href="#">DAT 101 - Intro to Data Analytics/Visual</a>	3	2	3
<a href="#">GIS 101 - Introduction to GIS</a>	3	2	2
<a href="#">SOC 104 - Human Geography</a>	3	3	0
<a href="#">ENG 101 - Composition I</a>	3	3	0
<a href="#">MAT 183 - Reasoning with Functions I</a>	5	5	
<b>Courses - Semester 2</b>	<b>Credits</b>	<b>Lecture</b>	<b>Lab</b>
<a href="#">CET 144 - Surveying Principles</a>	4	3	3
<a href="#">GIS 110 - Spatial Data Analysis &amp; Model</a>	3	2	3
<a href="#">GIS 120 - Data Acquisition &amp; Management</a>	3	2	3
<a href="#">ENG 102 - Composition II</a>	3	3	0
<a href="#">EDD 171 - Intro to CAD Using AutoCAD</a>	3	2	2
<b>Courses - Semester 3</b>	<b>Credits</b>	<b>Lecture</b>	<b>Lab</b>
<a href="#">MAT 162 - Statistical Reasoning</a>	4	4	
<a href="#">GIS 210 - Cartographic Design &amp; Vis</a>	3	2	3
<a href="#">ITN 160 - Programming I</a>	3	2	2
<a href="#">ITN 180 - Database Technology I</a>	3	2	2
<b>Courses - Semester 4</b>	<b>Credits</b>	<b>Lecture</b>	<b>Lab</b>
<a href="#">(GIS 271 - GIS Internship</a>	2	0	7
OR <a href="#">CET 245 - Advanced Surveying Co-op)</a>	3	2	0
<a href="#">GIS 240 - Emerging GIS Technologies</a>	3	2	3
<a href="#">GIS 260 - Geospatial Projects</a>	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.

<b>Group</b>	<b>Courses</b>	<b>Credits</b>	<b>Lecture</b>	<b>Lab</b>
A	<a href="#">CLT 110 - Cross-Cultural Immersion</a>	3	3	0
A	<a href="#">COM 111 - Human Communications</a>	3	3	0
A	<a href="#">ECO 111 - Macroeconomics</a>	3	3	0
A	<a href="#">ENG 124 - Oral Communications</a>	3	3	0
A	<a href="#">SOC 103 - Sustainability and Society</a>	3	3	

A	<a href="#">SOC 111 - Sociology</a>	3	3	0
A	<a href="#">HIS 111 - U. S. History: Pre-Civil War</a>	3	3	0
A	<a href="#">HIS 112 - U. S. History: Post-Civil War</a>	3	3	0
A	<a href="#">HIS 131 - Art History I</a>	3	3	0
A	<a href="#">HIS 132 - Art History II</a>	3	3	0
A	<a href="#">PSY 121 - General Psychology</a>	3	3	0
B	<a href="#">(CRJ 101 - Intro to Criminal Justice</a>	3	3	0
B	AND <a href="#">CRJ 223 - Criminology)</a>	3	3	0
C	<a href="#">[ENV 190 - Intro to Envtl Science &amp; Tech</a>	3	3	0
	AND			
C	<a href="#">(GEO 205 - Geology and the Environment</a>	3	2	2
C	OR <a href="#">CET 236 - Soils))</a>	3	2	2

To complete program requirements, you must pass the above courses and earn at least **65 credits**. The number of courses and credits required for graduation may be more depending on college readiness and the elective courses offered in your program major (if electives are a part of the program).