

# Geographic Information Systems (GIS) A.S.

The associate in science degree program in GIS prepares graduates to continue their studies toward a baccalaureate degree in Geographic Information Systems, or in related majors such as geographic information technology, resources management, geography, urban planning, and environmental science. Although it is a transfer program, students acquire skills that qualify them to pursue career opportunities after completion of the degree. The GIS program is closely associated with the Institute for the Application of Geospatial Technologies located at the College.

## Degree Requirements

General Education requirements must be met before the A.S. degree will be granted. For details on General Education requirements, see the college catalog.

The courses listed on this page represent the minimum requirements for the A.S. degree in Geographic Information Systems.

## Career Possibilities

Upon successful completion of the A.S. program, students will have the skills required to pursue career opportunities at companies using GIS, GPS, and remote sensing technologies, or they could qualify to transfer directly to a four-year program at a participating university for a bachelor's degree.

## Transfer Information

Cayuga has an articulation agreement in GIS with SUNY College at Cortland, as well as an articulation agreement with SUNY College of Environmental Science and Forestry in Syracuse for transfer into either Environmental Science or Natural Resources Management. For these and other transfer institutions, students should contact their advisers and/or a transfer counselor in the Student Development Office for more information. Early consultation to plan the most appropriate course sequence will optimize transferability.

## Map your degree

Courses		Cr Hrs	Semester Completed	Grade
<b>First Semester</b>				
ENGL 101	Freshman English I	3	_____	_____
C.S. 120	Foundations of Computer Science	3	_____	_____
MATH 102	Intermediate Algebra (or higher)*	3	_____	_____
BUS 225	Microcomputer Application Software	3	_____	_____
GIS 111	Introduction to GIS	3	_____	_____
	Physical Education	1	_____	_____
		<b>16</b>		
<b>Second Semester</b>				
ENGL 102	Freshman English II	3	_____	_____
GIS 121	Remote Sensing and Aerial Photogrammetry	3	_____	_____
GIS 122	Spatial Modeling with Raster GIS	3	_____	_____
C.S. 200	Programming in Visual Basic	3	_____	_____
	Math/Science Elective	3-4	_____	_____
	Physical Education	1	_____	_____
		<b>16-17</b>		
<b>Third Semester</b>				
GIS 205	Introduction to Vector GIS	3	_____	_____
GEOL 110	Physical Geology	4	_____	_____
BIOL 103 or BIOL 105	Biological Principles I Botany	4	_____	_____
HIST 101	Western Civilization	3	_____	_____
	Other Civilization/Arts Elective	3	_____	_____
	Health	1	_____	_____
		<b>18</b>		
<b>Fourth Semester</b>				
GIS 220	Advanced GIS	3	_____	_____
GIS 222	GIS Programming	3	_____	_____
HIST 201 or 202	History of the United States I/II	3	_____	_____
ECON 201 or 202	Introduction to Economics I/II	3	_____	_____
	Elective	3-4	_____	_____
		<b>15-16</b>		
<b>Total Credit Hours</b>		<b>65-67</b>		

\* Math 112, 115, or 116 will not fulfill Math requirement.

