

GEOGRAPHIC INFORMATION SYSTEMS (GIS) AS



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Combine your interest in science and technology by learning specialized computer software using images drawn from satellites, GPS waypoints, and aerial photography. Experience multiple career fields by creating interactive maps for decision makers in an array of professions.

The Associate of Science in GIS prepares students to continue their studies toward a bachelor's 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 Cayuga degree.

Career Possibilities

- Agriculture •Business •Marketing
- Military and Defense Industry
- Environmental Management and Protection
- Health and Human Services
- Law Enforcement •Criminal Justice
- Mapping •Mining •Resources Management
- Intelligence and Public Safety
- Surveying •Engineering
- Transportation •Utilities
- Urban and Regional Planning

Urban and Regional Planners

2021 Median Salary

\$78,500/yr

United States Department of Labor

<https://www.bls.gov/ooh/life-physical-and-social-science/urban-and-regional-planners.htm>



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Courses	Credit Hours
First Semester	
MATH 102 College Algebra and Trigonometry (or higher)*	3
ENGL 101 Freshman English I	3
BUS 225 Microcomputer Application Software	3
GIS 111 Introduction to Geographic Information Systems	3
The Arts or Other World Civilizations	3
General Education †	3
	15
Second Semester	
GIS 121 Remote Sensing and Aerial Photogrammetry	3
Math/CS Elective**	3
Math/Science Elective*	3
BIOL 103 General Biology I	
or	
BIOL 225 Botany	4
ENGL 102 Freshman English II	3
Health	1
	17
Third Semester	
GEOL 110 Physical Geology	4
GIS 205 Introduction to Vector GIS	3
HIST 101 Western Civilization	3
PE Physical Education	1
Elective	3
	14
Fourth Semester	
GIS 220 Advanced GIS	3
HIST 103 Pre-History and Early American History	
or	
HIST 104 19th Century American History	
or	
HIST 105 America in the 20th and 21st Centuries	3
ECON 201 Introduction to Economics I	
or	
ECON 202 Introduction to Economics II	3
Elective	3
Computer Studies Elective	3
	15
TOTAL CREDIT HOURS	61

* Math (except Math 112, 115, 116 or 121) will not fulfill Math requirement

** The following will fulfill this requirement:
CS 200 or higher; MATH 104 or higher; Math 112, 115, 116 or 121 will not fulfill requirements

† See General Education requirements for The Arts or Other World Civilizations

Why Cayuga?

- The only community college with a comprehensive GIS degree program
- Opportunities to work with technology and professionals at the forefront of the field
- Hands-on training in GIS technology, global positioning systems, and remote sensing
- A state-of-the-art geographic information technology lab with a complete suite of ESRI software, ERDAS Imagine, IDRISI, and latest GPS receivers
- Transfer agreements with SUNY Cortland and SUNY College of Environmental Science and Forestry



Contact us for more information

ADMISSIONS OFFICE

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