

Geospatial Technology

Career Cluster Description: Geospatial Technology has three core occupational fields: 1) Geographic Information Systems (GIS) is the technology that uses specialized computer systems to work with, interrelate, and analyze virtually all forms of spatial data. 2) Remote Sensing is the science and technology of obtaining information about Earth objects and environment from a distance. 3) Photogrammetry is the science and technology of obtaining reliable measurements, maps, digital elevation models, and other geographic information from aerial and space photography.							
Major Options GIS Technician/Specialist GIS Manager		Survey Technician CAD Technician		Data Analyst Systems Analyst/Programmer		Coordinator	
Grade 9		Grade 10		Grade 11		Grade 12	
S1	S2	S1	S2	S1	S2	S1	S2
English 1	English 1	English 2	English 2	English Elective	English Elective	English Elective	English Elective
Physical Science	Physical Science	Biology	Biology	Science Elective	Science Elective	Science Elective	Science Elective
Civics	Health	World History	World History	U.S. History	U.S. History	U.S. Govern.	AK History
Algebra I	Algebra I	Geometry	Geometry	Algebra 2	Algebra 2	Advanced Math	Advanced Math
P.E.	P.E.	Elective	Elective	Elective	Elective	Elective	Elective
Intro to Career Pathways	Technology Applications 1*	Geography	Surveying	Technical Drafting 1	Elective	Co-op Work Experience	Co-op Work Experience
Principles of Engineering	Principles of Engineering	Forestry	Introduction to Natural Resources	Introduction to GIS/RS Concepts GIS Activity	Advanced GIS and Remote Sensing Concepts	Spatial Environmental Model Development	Geospatial Applications in the Environment
Work-Based Learning Opportunities				Career-Technical Student Organizations (CTSO)		Certifications	
<ul style="list-style-type: none"> Apprenticeship Cooperative Education Job Shadowing 		<ul style="list-style-type: none"> Paid/Unpaid Internship School-Based Enterprise Service Learning 					

POSTSECONDARY OPTIONS

Two-Year College or Proprietary Programs	Adult Registered Apprenticeships	Four-Year College and University Programs	Certifications	Licenses, On The Job Training, Training Certificates, etc.
UAA's AAS Geomatics (61 credits)	Department of Labor and Workforce Development, Office of Apprenticeship, email apprenticeship@alaska.gov or visit your local Alaska Job Center staff who will help you identify apprenticeable occupations and help you prepare for your future. You may also call (877) 724-2539	UAA's BS Geomatics (131 credits)		UAA's Certificate in GIS (32 Credits)

*College Credits may be available. [Click here for details.](#)