



EMPLOYABILITY PROFILE

Geospatial Technology



Industry Based Skill Standards

Proficiency Definitions

NA = Not Applicable 1 = Introduced 2 = Trained 3 = Trained/Skilled 4 = Industry Level Certification/ Mastery

	9th	10th	11th	12th
History of Maps				
Knowledgeable of the history, societal implications, and industry applications of GIS.				
Map Types				
Understands map types, purposes, and information they depict.				
Principles of Geographic Information Systems				
Understands the basic concepts of geospatial technology, including coordinate systems, rasters, vectors, scale and topography.				
Cartography & Map Layouts				
Create, change and manipulate data used to create a map; label, layout and print adding all map elements.				
Symbology & Classification				
Customize the display of geospatial data and understand the various types of symbology and how they are applied.				
Map Projections				
Demonstrate an understanding of coordinate systems, data frames, map projections, map scale and datums.				
Information Fundamentals				
Ability to manage, query, archive and manipulate geospatial data and understand various file structures and naming conventions.				

	9th	10th	11th	12th
Geoprocessing Tools				
Demonstrate ability to apply geoprocessing tools, such as merge, append, edit, buffer, intersect, dissolve, project and various others, to geospatial data.				
Basic Principles of Remote Sensing				
Knowledgeable in remote sensing techniques, applications, methods and the resultant imagery types, including satellite imagery and aerial photography.				
Digitizing & Geocoding				
Demonstrates the ability to digitize and manipulate points, lines and polygons and create new features and data.				
Geodatabase Functions				
Understands the process and applications of joining and relating geospatial data and relationship classes.				
Geospatial Modeling				
Identify the steps in creating a geospatial model and developing an efficient workflow.				
Global Positioning Systems (GPS)				
Demonstrate knowledge of the Global Positioning System and ability to use various handheld GPS devices. Manipulate GPS data and integrate into geospatial analyses.				
Geospatial Career Opportunities				
Identify careers that use geospatial technology and develop a career plan to transition from high school to higher education and/or career path.				

Industry Certifications Attained	Yes
STARS Certification	

College Credits Attained		Yes
CCC Intro to GIS	TBD	
MVCC Intro to CCC	TBD	
Total		

Internships	Hours
Agency	
Agency	
Agency	