



GEOSPACIAL TECHNOLOGY PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Technology Applications 1
- Principles of Engineering - **M**
- Forestry - **S**
- Introduction to Natural Resources - **S**

TECHNICAL (11TH & 12TH)

- Technical Drafting 1 - **M**
- Surveying 1 & 2 - **M**
- Introduction to GIS/RS Concepts
- Advances GIS and Remote Sensing Concepts
- Spatial Environmental Model Development
- Geospatial Applications in the Environment

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR

- Precalculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- FFA

CERTIFICATION

EARLY COLLEGE CREDIT OPTIONS

COLLEGE
CREDITS

DUAL ENROLLMENT

- Technology Applications 1, 2, 3 3 cr
- Technical Drafting 1 1 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE		CREDITS	10TH GRADE		CREDITS
<input type="checkbox"/>	Introduction to Career Pathways	.5 cr	<input type="checkbox"/>	Introduction to Natural Resources - S	.5 cr
<input type="checkbox"/>	Technology Applications 1	.5 cr	<input type="checkbox"/>	Principles of Engineering - M	1 cr
<input type="checkbox"/>	Algebra 1	1 cr	<input type="checkbox"/>	Geography	.5 cr
<input type="checkbox"/>	English 1	1 cr	<input type="checkbox"/>	Geometry	1 cr
<input type="checkbox"/>	Biology	1 cr	<input type="checkbox"/>	English 2	1 cr
<input type="checkbox"/>	Civics	.5 cr	<input type="checkbox"/>	Physical Science	1 cr
<input type="checkbox"/>	Health	.5 cr	<input type="checkbox"/>	World History	1 cr
<input type="checkbox"/>	PE	1 cr			
11TH GRADE		CREDITS	12TH GRADE		CREDITS
<input type="checkbox"/>	Forestry - S	.5 cr	<input type="checkbox"/>	Spatial Environmental Model Development	.5 cr
<input type="checkbox"/>	Technical Drafting 1 - M	.5 cr	<input type="checkbox"/>	Geospatial Applications in the Environment	.5 cr
<input type="checkbox"/>	Surveying - M	.5 cr	<input type="checkbox"/>	Cooperative Work Experience	1 cr
<input type="checkbox"/>	Surveying 2 - M	.5 cr	<input type="checkbox"/>	Advanced Math	1 cr
<input type="checkbox"/>	Introduction to GIS/RS Concepts	.5 cr	<input type="checkbox"/>	English	1 cr
<input type="checkbox"/>	Advanced GIS and Remote Sensing Concepts	.5 cr	<input type="checkbox"/>	Science	1 cr
<input type="checkbox"/>	Algebra 2	1 cr	<input type="checkbox"/>	U.S. Government	.5 cr
<input type="checkbox"/>	English	1 cr	<input type="checkbox"/>	AK History	.5 cr
<input type="checkbox"/>	Science	1 cr			

*These are suggested courses to best prepare students for post-secondary transitions and credentialing. Actual courses may depend on school schedule availability and enrollment capacity. Some classes may be available at other locations through District-wide or course share options. Graduation requirements for number of credits and required courses are set at a district level and are subject to change. Talk to your counselor about your graduation requirements and to schedule your courses.

STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL		COLLEGE	
<input type="checkbox"/>	Dual Enrollment	<input type="checkbox"/>	Occupational Endorsement Certificate in Geographic Information Systems
<input type="checkbox"/>	Academic AP	<input type="checkbox"/>	Associate of Applied Science in Geographic Information Systems
INDUSTRY CERTIFICATION		<input type="checkbox"/>	Associate of Applied Science in Geomatics
<input type="checkbox"/>	Professional Land Surveyor	<input type="checkbox"/>	Bachelor of Science in Geomatics
<input type="checkbox"/>	Certified Survey Technician	<input type="checkbox"/>	Bachelor of Science Geographic Information Systems Technology
		<input type="checkbox"/>	Master of Science Geographic Information Systems
APPRENTICESHIP	MILITARY		
<input type="checkbox"/>	Private Entity	<input type="checkbox"/>	U.S. Armed Forces

*Listed Certifications, Apprenticeships and College Degree Programs represent a SAMPLE of available credentials. Available credentials are subject to change due to industry and postsecondary institution changes.