

Architecture

Career Cluster Description: The architecture and construction career cluster prepares learners to enter an industry which starts with design and planning, and carries all the way through construction and includes maintenance and reconstruction of structures that are already built. The planning, managing, and environmental aspects of the structures as well as restorations and alterations of structures are included in this industry.

Major Options:

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| Architectural Drafter
Drafting and Design Technician
Land Surveyor | Civil Engineering Technician
CADD Drafting & Design Technician
Construction Manager | Mechanical Engineering Technician
Electrical Engineering Technician
HVAC System Designer | Commercial & Industrial Designer
Landscape Design
Career & Technology Teacher |
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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	Chemistry	Chemistry	Physics	Physics
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	<i>Advanced Math</i>	<i>Advanced Math</i>
P.E.	P.E.	Elective	<i>Elective</i>	<i>Elective</i>	<i>Elective</i>	<i>Elective</i>	<i>Elective</i>
<i>Introduction to Career Pathways</i>	<i>Customer Service</i>	<i>Technology Applications 1*</i>	<i>Intro to Construction</i>	<i>Interior Design</i>	<i>Technical Math</i>	<i>Co-op Work Experience</i>	<i>Co-op Work Experience</i>
<i>Elective</i>	<i>Technical Drafting 1</i>	<i>Architectural Drafting 1**</i>	<i>Architectural Drafting 2**</i>	<i>Architectural Drafting 3</i>	<i>Architectural Drafting 4</i>	<i>Housing Concepts</i>	<i>Elective</i>
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 		<ul style="list-style-type: none"> Skills USA 		<ul style="list-style-type: none"> 	

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.
<ul style="list-style-type: none"> Building Inspector Architectural and Civil Drafter Mechanical Drafter 	DOLWD, Office of Apprenticeship, email apprenticeship@alaska.gov or your local Alaska Job Center staff who will help you identify apprenticeable occupations and prepare for your future. You may also call (877) 724-2539	<ul style="list-style-type: none"> Architect Teacher Civil, Mechanical, or Electrical Engineer 	<ul style="list-style-type: none"> Professional Land Surveyor Licensed Land Surveyor (LS) Landscape Architect (LA) 	<ul style="list-style-type: none"> Entrepreneur Landscaping and Grounds Keeping Worker

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