

Carpentry

<p>Career Cluster Description: The construction career cluster prepares learners to enter an industry which starts with designing, planning, managing, building, and maintaining physical structures and the larger building environment including roadways and bridges, industrial, commercial, and residential facilities. The environmental aspects of the structures as well as restorations and alterations of structures are included in this industry. The manufacturing career cluster prepares learners to enter an industry which includes planning, managing, and performing the processing of materials into intermediate or final products. Additional related professional and technical support activities such as production planning and control, maintenance, and manufacturing process engineering are also included in this cluster.</p>							
<p>Major Options</p> <ul style="list-style-type: none"> • Carpenter • Building Inspector • Drafter • Cabinet Maker • Career and Technical Teacher • Woodworking Machine Operator • Construction Engineer • Electromechanical Engineering • Construction Manager • Entrepreneur • HVAC/Plumbing Installer • Construction Manager • Finish Carpenter • Painter • Dry Wall Installer/Finisher • Flooring Installer 							
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	Adv Math/Trig or Calculus	Adv Math/Trig or Calculus
P.E.	P.E.	Architectural Drafting 1*	Architectural Drafting 2*	Technical Math	Interior Design	Co-op Work Experience	Co-op Work Experience
Customer Service	Intro to Career Pathways	Technology Applications 1*	Intro to Construction	Construction Trades 1	Construction Trades 1	Construction Trades 2	Construction Trades 2
Technical Drafting 1	Technical Drafting 2	Cabinet Making and Woods 1	Cabinet Making and Woods 2	Construction Trades 1	Construction Trades 1	Construction Trades 2	Construction Trades 2
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"> • SkillsUSA 		<ul style="list-style-type: none"> • NCCER 	

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.
HVAC/Plumber Construction Project Manager Mason/Tile Setter Carpentry Building Inspector	Department of Labor and Workforce Development, Office of Apprenticeship, email apprenticeship@alaska.gov or 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	Construction Welder Electromechanical Engineering <input type="checkbox"/> <input type="checkbox"/> HVAC Teacher Carpenter	Commercial Carpenter Certified Construction Specifier Certified Construction Manager Commercial Plumber	Entrepreneur Woodworking Machine Op. General Contractor <input type="checkbox"/> Flooring Installer

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