



CONSTRUCTION TRADES

Program of Study

One or Two-Year Program



Career Cluster: Architecture & Construction

Career Pathway: Construction, Design & Pre-Construction, Maintenance & Operations

*This Career Pathway Program of Study can serve as a guide along with career planning materials in Career Cruising as learners continue on a career path. Courses listed within this program of study are recommendations and should be individualized to meet each learner's education and career goals. The courses outlined below are only RECOMMENDATIONS. Additionally, a PPR (Personalized Pathway Requirement) may be used in lieu of some of the World Language and/or Art credit requirement. See your high school counselor for additional graduation requirement information. **PPR – Personal Pathway Requirement** *World Language – 2.0 credit may be met through a PPR **Art – 1.0 credit may be met through a PPR*

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies	Other Requirements	Electives	Summer School Offerings High School Credit Free of Charge	
MS	6-8	Grade Level ELA	Grade Level Math	Grade Level Science	Grade Level Social Studies		STEM Classes	Summer School Available After the 8th Grade Year	
High School	9	ELA 9	Integrated Math I OR Intensive Integrated Math I	Physical Science		Health (.5) PE (.5) World Language* Art**	CTE & Elective Options to be Taken Grades 9-10 <ul style="list-style-type: none"> • Anytime Fitness _ _ • Digital Photo I _ _ • Digital Photo II _ _ • American Sign Language I & II • Spanish I & II • Weights • STEM I, II & III • Drawing • 3D Art 	PCSC Summer School Aerospace Machining & Fabrication, Aerospace Composites, Automotive Technology, Construction Trades, PC Networking & Hardware Repair at PCSC See PCSC Summer School application for additional course offerings at other PCSC summer school locations. Offerings also include CTE classes that may satisfy academic credit graduation requirements – specifically in art, PE, and health.	
	10	ELA 10	Integrated Math II	Biology OR BIOL 101 (CHS/CWU)	World Studies OR HIST 103 (CHS/EWU)	PE World Language* Art** - must use PPR for 2nd year option			
	11	ELA 11 OR ENGL 101 (CHS/EWU)	Integrated Math III OR Consumer Math III	STEM I and II Biotechnology	US History OR AP US History				Junior Year Options at PCSC Construction Trades Automotive Aerospace Composites OR Machining
	12	ELA 12 OR ENGL 170 (CHS/EWU)	1.5 Technical/3rd Year Math Credit Construction Trades at PCSC	STEM III OR Biotechnology	Civics & Economics OR POLS 210 (CHS/CWU)				Construction Trades at PCSC
Credit Equivalency, Certifications & Dual Credit	High School Credit Equivalency: 1.5 Technical Math Credit 3.0 CTE/Elective			Certifications Earned at PCSC: Carpenters 1, 2, & 3 OSHA 10 Forklift First Aid/CPR Precision Exams			Articulation/Dual Credit: (DC) Apprenticeship Preferred Entry – Carpenters-Employers Apprenticeship & Training Trust Fund Bates Technical College – Up to 3 credits Clover Park Technical College – Up to 25 credits <i>Articulation agreements and number of credits are subject to change</i>		

Clubs and Extracurricular Activities	TSA Technical Student Association	OMS TSA Advisor: Oliver Chadwick chadwicko@orting.wednet.edu	OHS TSA Advisor: Denise Thompson thompsond@orting.wednet.edu
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Additional Program Information

Course Description

The Construction Trades program is a State of Washington approved pre-apprenticeship program designed to prepare students for direct entry into an apprenticeship by meeting rigorous academic and industry standards. This course covers both residential and commercial construction with an emphasis on job site safety through hands-on projects, guest speakers and field trips. Students will learn framing, roofing, blueprint reading, estimating costs, and site preparation. Students who meet ALL course competencies with a B or better will be granted preferred enrollment and advanced placement in the Carpenters-Employers Apprenticeship & Training Trust Fund.

<p>Course Outline</p> <ul style="list-style-type: none"> ● Safety ● Construction Math ● Hand Tools ● Power Tools ● Building Plans ● Communication & Collaboration Skills ● Employability & Life Skills ● Orientation to the Trades ● Green Construction ● Building Materials ● Site Layout ● Foundation & Concrete ● Floor Systems ● Wall & Ceiling Framing 	<ul style="list-style-type: none"> ● Roof Framing ● Windows & Exterior Doors ● Exterior Finish ● Roofing ● Insulation, Moisture Control & Ventilation ● Stairs ● Interior Doors ● Interior Finish trim ● Electrical ● Plumbing ● Welding ● HVAC ● Alternative Energy 	<p>Local Public Post-Secondary Options</p> <ul style="list-style-type: none"> ● Trades Apprenticeships <ul style="list-style-type: none"> ○ Carpenters ○ Electricians ○ Plumbers & Pipefitters ○ Boilermakers ● Bates Technical College ● Clover Park Technical College ● Central Washington University ● University of Washington 																					
<p>Careers & Job Outlook</p> <p>The information provided below is from the Washington State Employment Security Department. https://esd.wa.gov/labormarketinfo/learn-about-an-occupation/#/details</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Occupation</th> <th style="text-align: right;">Annual Salary</th> </tr> </thead> <tbody> <tr><td>Painter</td><td style="text-align: right;">\$50,317</td></tr> <tr><td>Laborer</td><td style="text-align: right;">\$52,481</td></tr> <tr><td>Roofer</td><td style="text-align: right;">\$61,670</td></tr> <tr><td>Union Carpenter</td><td style="text-align: right;">\$65,198</td></tr> <tr><td>HVAC/HVACR technician</td><td style="text-align: right;">\$66,584</td></tr> <tr><td>Sheet Metal Worker</td><td style="text-align: right;">\$71,215</td></tr> <tr><td>Plumber/Pipefitter</td><td style="text-align: right;">\$73,981</td></tr> <tr><td>Boilermaker</td><td style="text-align: right;">\$75,402</td></tr> <tr><td>Construction Manager</td><td style="text-align: right;">\$105,743</td></tr> <tr><td>Electrician</td><td style="text-align: right;">\$75,766</td></tr> </tbody> </table>	Occupation	Annual Salary	Painter	\$50,317	Laborer	\$52,481	Roofer	\$61,670	Union Carpenter	\$65,198	HVAC/HVACR technician	\$66,584	Sheet Metal Worker	\$71,215	Plumber/Pipefitter	\$73,981	Boilermaker	\$75,402	Construction Manager	\$105,743	Electrician	\$75,766	<p>Additional career and outlook information can be found on the following websites:</p> <p>www.bls.gov www.careerbridge.wa.gov</p>
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