



Career Cluster: Architecture and Construction Career Cluster Pathway: Construction
Program of Study: An Educational Planning Guide for High School and Beyond

	Grade	English	Math	Science	Social Studies	Fitness/Health and Visual or Performing Arts	Recommended Career and Technical Education (CTE) Courses and Other Electives	Graduation Requirements	SAMPLE Occupations Related to this Pathway
Secondary Options	9	English 9 (1 credit)	Algebra (1 credit)	Science (1 credit)		Health/Fitness (1 credit) Fine Art (1 credit)	Elective class (1 credit)	<u>H.S. Credit Requirements (24 credits total):</u> 4.0 credits – English 3.0 credits – Social Studies 3.0 credits – Math 2.0 credits – Science 2.0 credits – Health and Fitness 1.0 credits – Visual or Performing Arts 1.0 credits – Occupational Education 8 credits – Occupational Education or Electives <u>Additional Skills Center opportunities:</u> <ul style="list-style-type: none"> • Possible 36+ college articulated credits each year at the Skills Center • Pre-apprenticeship agreements for priority placement • Possible Industry Certification with NCCER at end of course. 	Occupations requiring at least a high school diploma or better. Apprentice in various trades to receive Journeyman level: <ul style="list-style-type: none"> • Carpenter • Electrician • Plumber • Mason / Tile • HVAC • Equipment Operator • Concrete • Painter • Drywall • Floor Covering • Many more... Occupations that benefit from an Associate's or Bachelor's Degree <ul style="list-style-type: none"> • Project Manager • Project Superintendent • General Contractor • Surveyor • Estimator • Inspector
	10	English 10 (1 credit)	Geometry (1 credit)	Science (1 credit)	World Studies (1 credit)	Fitness (1 credit)	Elective class (1 credit)		
	11	English 11 (1 credit)			US History (1 credit)		<ul style="list-style-type: none"> • Construction Tech1 (3 credits) * possible 36 college credits w/"B" grade or higher		
	12	English 12 (1 credit)			CWI (1 credit)		<ul style="list-style-type: none"> • Construction Tech2 (3 credits) • Blue Print Reading • Job Estimating * possible 36 college credits w/"B" grade or higher * possible 3 college credits w/"B" grade or higher * possible 3 college credits w/"B" grade or higher		

Courses shown in **RED** indicate courses articulated with local colleges. College credit can be earned through those courses.

13 and Beyond	Complete a registered apprenticeship and/or enter directly into the workforce	Earn a Technical Certificate from a community or technical college and enter the workforce	Earn an Associate's Degree from a community or technical college and enter the workforce	Earn a Bachelor's Degree and enter the workforce
<p>Program Options</p>	<p>Possible apprenticeship options w/ priority entrance for Skills Center Construction program completers:</p> <ul style="list-style-type: none"> • <u>Willamette Carpenter's Training Center- Portland, Oregon.</u> <ul style="list-style-type: none"> • Carpenter • Millwright • Pile driver • Exterior/Interior Specialist • Scaffold Erectors • <u>International Brotherhood of Electrical Workers Training Center- Portland, Oregon.</u> <ul style="list-style-type: none"> • Inside Electrician • Limited Energy Electrician • Residential Electrician • <u>HVAC and Metals Institute Training Center- Portland, Oregon.</u> <ul style="list-style-type: none"> • Building Trades & Service Technician. • Residential Sheet Metal Worker. • <u>North West College of Construction Training Center- Portland, Oregon.</u> <ul style="list-style-type: none"> • Carpentry • Heavy Equipment Operator • Sheet Metal • Concrete Finishing • HVAC • Laborer • Masonry • Tile • <u>Painters, Drywall Finishers Apprenticeship Training Center- Portland, Oregon.</u> <ul style="list-style-type: none"> • Painter / Decorator • Drywall Finisher • Traffic Control Painter • <u>Heat/Frost Insulators and Containment Apprenticeship Training Center- Portland, Oregon.</u> • <p>To learn more about apprenticeships, visit Labor and Industries website at www.lni.wa.gov or the WA Building Trades website at www.buildingtrades.com.</p>	<p><u>Clark Community College- Vancouver, Washington.</u></p> <ul style="list-style-type: none"> • Certificate of Proficiency; Construction Technology <p><u>Portland Community College- Portland, Oregon.</u></p> <ul style="list-style-type: none"> • Construction Technology Certificate • Facilities Maintenance Technology Certificate • Landscape Services Technician Certificate • Landscape Construction Certificate • Landscape Management Certificate • Landscape Design Certificates • Welding Technology Certificate • Residential Structural and Mechanical Inspection and Plans Examination Certificate • Commercial Structural and Mechanical Inspection Certificate • Facilities Maintenance Technology Certificate <p><u>Lower Columbia Community College- Longview, Washington.</u></p> <ul style="list-style-type: none"> • Industrial Maintenance Mechanical Certificate • Industrial Maintenance Electrical Certificate • Industrial Maintenance Power Utility Certificate • Industrial Maintenance Electrician Certificate • Instrumentation and Control Technology Certificate • Heavy Equipment Preventive maintenance Certificate • Welding Certificate <p><u>Mt. Hood Community College- Gresham, Oregon.</u></p> <ul style="list-style-type: none"> • Welding Technology AWS Certification 	<p><u>Clark Community College-Vancouver, Washington.</u></p> <ul style="list-style-type: none"> • Associate in Applied Technology (AAT) in Construction Technology • Associate in Applied Science (AAS) In Construction Technology <p><u>Portland Community College- Portland, Oregon.</u></p> <ul style="list-style-type: none"> • Associate of Applied Science (AAS) In Building Construction Technology • Associate of Applied Science (AAS) In Construction Management • Associate of Applied Science (AAS) In Design / Build Remodeling • Associate of Applied Science (AAS) in Building Inspection Technology • Associate of Applied Science (AAS) in Facilities Maintenance Technology • Associate of Applied Science (AAS) in Electrical Trades Technology • Associates of Applied Science (AAS) in Facilities Maintenance Technology • Associates of Applied Science (AAS) in Landscape Technology • Associates of Applied Science (AAS) in Welding Technology <p><u>Lower Columbia Community College- Longview, Washington.</u></p> <ul style="list-style-type: none"> • Associates of Applied Science (AAS) in Industrial Maintenance Technology • Associates of Applied Science (AAS) in Instrumentation and Control Technology • Associates of Applied Science (AAS) in Diesel / Heavy Equipment Technology • Associates of Applied Science (AAS) in Welding Technology <p><u>Edmonds Community College- Lynnwood, Washington.</u></p> <ul style="list-style-type: none"> • Associates of Technical Arts (ATA) In Construction Management. <p><u>Mt. Hood Community College- Gresham, Oregon.</u></p> <ul style="list-style-type: none"> • Associates of Applied Science (AAS) in Sheet Metal Technology • Associates of Applied Science (AAS) in Integrated Metals Technology 	<p><u>Washington State University-Pullman, Washington.</u></p> <ul style="list-style-type: none"> • Bachelor of Science (BS) in Construction Management <p><u>Central Washington University- Ellensburg, Washington.</u></p> <ul style="list-style-type: none"> • Bachelor of Science (BS) in Construction Management <p><u>University of Washington-Seattle, Washington.</u></p> <ul style="list-style-type: none"> • Bachelor of Science (BS) in Construction Management <p><u>ITT Technical Institute- Seattle, Washington.</u></p> <ul style="list-style-type: none"> • Bachelor of Science (BS) in Construction Management <p><u>Oregon State University- Corvallis, Oregon.</u></p> <ul style="list-style-type: none"> • Bachelor of Science (BS) in Construction Engineering Management <p><u>Portland State University, Portland, Oregon.</u></p> <ul style="list-style-type: none"> • Bachelor of Science (BS) in Real Estate Finance. <p><u>University of Oregon- Eugene, Oregon.</u></p> <ul style="list-style-type: none"> • Bachelor of Science (BS) in Architecture.

