

This plan of study should serve as a guide, along with other career planning materials, as you continue your career path. Individualize your coursework to meet your educational and career goals while referring to these recommended coursework.

Computer Assisted Drafting at Newport High School							With a HS diploma you can work as a... ^(a)	Additional Schooling (1 & 2 Year Programs)
(1) Required classes for pathway completion are shaded		(2) Optional classes for pathway enhancement are bolded		(3) Earn college credit				
9 th Grade	10 th Grade	11 th Grade	12 th Grade					
English	English	English	English				• Construction (\$24,519-\$30,741)	• Mechanical Design – Associate of Applied Science – 6 terms <i>Similar 1 and 2 year programs maybe available at other community colleges and technical training schools.</i>
Math	Math	Elective	Elective					
Applied Arts / Foreign Language	Social Science	Social Science	Social Science					
Science	Science	Physics ⁽²⁾	Career Related Learning Experience					
PE / Health	PE / Health	Elective	Elective					
Elective	Elective	Elective	Elective					
CAD 1 ^{(1) (3)}	CAD 2 ^{(1) (3)}	Elective	Work Based Learning ⁽²⁾					
Mechanical Design Program at Chemeketa Community College							With a Certificate of Completion ^(b)	Additional Schooling (4 Year Programs)
*Earn college credit for this course(s) by taking the appropriate high school course								
Associate of Applied Science (AAS)								
Prerequisites	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	• n/a With an Associate of Applied Science Degree ^(b) • Mechanical Drafters (\$43,241) • Electro-Mechanical Technicians (\$37,763) • Mechanical Engineering Technicians (\$46,455) With a Bachelor Degree ^(c) • Mechanical Engineer (\$70,009)	• Mechanical Engineering Technology –Oregon Institute of Technology <i>Similar 4 year programs maybe available at other colleges.</i>
CS101 Intro to Computer Applications	DRF130 * AutoCAD 1	MTH112 Trigonometry (or higher) or MTH082 Technical Math 2	COM053 Technical Report Writing or WR227 Technical Writing	CAM230 CAM Applications/Mills	CLV231 or EGR213 Strengths of Materials	DRF165 CAD System Administration		
CA121A Keyboarding A (if less than 25 wpm)	CAM100 Blueprint Reading and Sketching	CAM116 Geometric Dimensioning and Tolerancing for CNC Lab	DRF132 AutoCAD 2	CVL230 Applied Statics or EGR211 Parametric Design	DRF241 Structural Drafting	DRF255 Technical Illustration		
MTH070 Elementary Algebra	CAM105 Precision Measurement	CAM160 Programming CNC Mills	DRF140 Advanced Technical Graphics	DRF210 Parametric Design	DRF251 Power Transmission Design or EGR212 Dynamics	DRF262 Machine Design		
SSP051 Studying for College or RD090 College Textbook Reading	CAM111 Industrial Safety Seminar	COM051 Communications Skills or WR121 English Comp-Exposition (or higher)	DRF160 Technical Software Applications or GE103 Engineering Computations or CS125E Excel-Workbooks			DRF256 AutoLISP Programming or GE102 Engineering computations		
	WR049 Basic Writing	MTH081 Technical Mathematics 1 or MTH111 College Algebra (or higher)	DRF131 AutoCAD 2	PSY104 Psychology in the Workplace	ELT100 Electronics Fundamentals for Non-Majors	MT227A Pneumatics and Hydraulics Fundamentals		
		CAM115 Geometric Dimensioning Tolerancing		PH081 Applied Physics or PH201 General Physics	DRF260 Tool Design			

(a) These occupations usually require a high school diploma, short-term (less than a month) to moderate-term (less than a year) on-the-job training.
 (b) These occupations usually require associate degree, postsecondary certificate, and/or long-term (more than a year) on-the-job training.
 (c) These occupations usually require a bachelor degree and work experience. In some cases a master's degree.