

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 Taft High School 7-12							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				<ul style="list-style-type: none"> Construction (\$24,519-\$30,741) 	<ul style="list-style-type: none"> Mechanical Design – Associate of Applied Science – 6 terms <p><i>Similar 1 and 2 year programs maybe available at other community colleges and technical training schools.</i></p>		
Math	Math	Trigonometry ^{(2) (3)}	Calculus ^{(2) (3)}							
Applied Arts / Foreign Language	Social Science	Social Science	Social Science							
Science	Science	Physics ⁽²⁾	Career Related Learning Experience							
PE / Health	PE / Health	Elective	Elective							
High School 101 ⁽³⁾	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	<ul style="list-style-type: none"> n/a 	<ul style="list-style-type: none"> Mechanical Engineering Technology – Oregon Institute of Technology <p><i>Similar 4 year programs maybe available at other colleges.</i></p>		
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 <small>(if less than 25 wpm)</small>	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			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	DRF210 Parametric Design	DRF251 Power Transmission Design or EGR212 Dynamics	ELT291 Advanced Industrial Electronics or DRF280D Cooperative Work Experience or EGR202 Electrical Fundamentals 2				
	DRF110 Applied Engineering Computations or GE101 Engineering orientation									
	MTH081 Technical Mathematics 1 or MTH111 College Algebra ^(or higher)	DRF131 AutoCAD 2	PSY104 Psychology in the Workplace	ELT100 Electronics Fundamentals for Non-Majors	DRF256 AutoLISP Programming or GE102 Engineering computations	MT227A Pneumatics and Hydraulics Fundamentals				
WR049 Basic Writing		CAM115 Geometric Dimensioning Tolerancing		PH081 Applied Physics or PH201 General Physics	DRF260 Tool Design					
									With an Associate of Applied Science Degree ^(b)	<ul style="list-style-type: none"> Mechanical Drafters (\$43,241) Electro-Mechanical Technicians (\$37,763) Mechanical Engineering Technicians (\$46,455)
									With a Bachelor Degree ^(c)	

(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.