

Glencoe High School

Engineering Pathway

This program of study should serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized coursework to meet each learner's educational and career goals.

Key
High School Academic
High School Career & Technical
PCC Dual Credit Articulated Courses
1-year Certificate or 2-year Certificate
AAS Degree
University

Education Levels	Grade	English / Language Arts	Math	Science	Social Studies / Sciences	Other Required Courses Electives Recommended Electives Learner Activities	*Career and Technical Courses and/or Degree Major Courses * = POS Required Course	*Career and Technical Course ELECTIVES	
SECONDARY	9	English / Language Arts	Algebra I	Physics 1	World History	Health & PE	Machiine Welding Technology 1		DIPLOMA
	10	English / Language Arts	Geometry	Physics		Health & PE	Machiine Welding Technology 1 & 2		
	11	English / Language Arts	Algebra II	Biology	US History	Second Language	Machiine Welding Technology 1 & 2		
	12	English / Language Arts			People and Politics/Economics	Second Language	Machiine Welding Technology 1 & 2		

PORTLAND COMMUNITY COLLEGE	TERM	PROGRAM OF STUDY					Certificates/Degrees/Occupations
	FIRST TERM	MCH 100 Machine Tool Basics	MCH 110B Blueprint Reading for Machine Manufacturing	MCH 115A Geometric Dimensioning and Tolerancing	MCH 120 Machine Shop Math	MCH 121 Manufacturing Processing I	1 year Certificate - CNC Milling One Year Certificate
	SECOND TERM	MCH 125 Speeds and Feeds	MCH 130 Machine Shop Trigonometry	MCH 145 Layout Tools	MCH 150 Precision Measuring Tools	MCH 268 CNC Program - Mill	
	THIRD TERM	MCH 205 Vertical Milling Machines and Operations	MCH 272 Mastercam Level I	MSD 115 Improving Work Relations	MCH 268 CNC Programming-Mill		TOTAL CREDITS 48.5 Machine operators use computer-aided manufacturing (CAM) software to control, manipulate and manage precision tool production. Machine manufacturing and tool dies have become increasingly valuable, especially in the production
	FOURTH TERM	MCH 278 CNC Operation - Mill	MCH 280 Coperative Education: Machine Technology	MCH 288A Technical Skill Assessment in CNC Milling			

