

Portland Community College Century High School

Engineering Pathway

Key

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

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.

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	
SECONDARY	9	Lit and Comp 9	Algebra I	Physics	World History 9	Health & PE		DIPLOMA
	10	Lit and Comp 10	Geometry	Chemistry	World History 10	Health & PE	Drafting 1	
	11	Amer. Lit and Comp	Algebra II	Biology	IB History	Second Language	Drafting 2	
	12	Writing 120	IB Math SL			Second Language	Engineering Prep	

AND COMMUNITY COLLEGE	TERM	PROGRAM OF STUDY						Certificates/Degrees/Occupations
	FIRST TERM	MCH 100 Machine Tool Basics	MCH 105 Blueprint Reading I	MCH 135 Basic Measuring Tools	MCH 120 Machine Shop Math	MCH 121 Manufacturing Processing I	MCH 115 Geometric Dimensioning and Tolerancing	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	MCH 110 Blue Print Reading II	
	THIRD TERM	MCH 205 Vertical Milling Machines and Operations	MCH 272 Mastercam Level I	MSD 115 Improving Work Relations				TOTAL CREDITS 48.5 Machine operators use computer-aided manufacturing (CAM) software to control, manipulate and

PORTL	FOURTH TERM	MCH 278 CNC Operation - Mill	MCH 280 Coperative Education: Machine Technology	MCH 288A Technical Skill Assessment in CNC Milling				manage precision tool production. Machine manufacturing and tool dies have become increasingly valuable, especially in the production of high- precision tools for high- tech manufacturing and large industrial construction. With such dramatic advancements over

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