

Scappoose High School

Manufacturing 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 |
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| 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 | Lit and Comp 9 | Algebra I | Physics | World History 9 | Health & PE | Manufacturing Tech 1 | Wds I & II, Dftg I & II | DIPLOMA |
| | 10 | Lit and Comp 10 | Geometry | Chemistry | World History 10 | Health & PE | Manufacturing Tech 1 | Advanc Man Tech | |
| | 11 | Amer. Lit and Comp | Algebra II | Biology | IB History | Second Language | Manufacturing Tech 2 | Product Dev 1 & 2 | |
| | 12 | Writing 120 | IB Math SL | | | Second Language | | Digital Fab 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 | | | |
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