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.

### Sherwood High School

#### Portland Community College Engineering Pathway

Feb 17

### Program of Study

<table>
<thead>
<tr>
<th>Grade</th>
<th>English / Language Arts</th>
<th>Math</th>
<th>Science</th>
<th>Social Studies / Sciences</th>
<th>Other Required Courses</th>
<th>Elective Learner Activities</th>
<th>*Career and Technical Courses and/or Degree Major Courses *</th>
<th>CTE Engr/Arch Apprentice</th>
<th>Architecture 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Li &amp; Comp 9</td>
<td>Algebra I</td>
<td>Physics</td>
<td>World History 9</td>
<td>Health &amp; PE</td>
<td>Engr 1: Intro to Drafting and Design*</td>
<td>Architecture 1</td>
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<tr>
<td>10</td>
<td>Li &amp; Comp 10</td>
<td>Geometry</td>
<td>Chemistry</td>
<td>World History 10</td>
<td>Health &amp; PE</td>
<td>Engr 2: Rapid Prototyping*</td>
<td>Architecture 2</td>
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<td></td>
</tr>
<tr>
<td>12</td>
<td>Writing 120</td>
<td>Math SL</td>
<td>Second Language</td>
<td>English 5: Advanced Projects</td>
<td>CTE Eng/Arch Apprentice</td>
<td>Architecture 4</td>
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</table>

#### PCC Course Alignment

<table>
<thead>
<tr>
<th>ENGR 3: Advanced Drafting and Design*</th>
<th>CADD 175- SolidWorks Fundamentals</th>
<th>Architecture 3</th>
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</thead>
<tbody>
<tr>
<td>MCH 100- Exploring Engineering</td>
<td>MCH 160- Drafting Fundamentals</td>
<td>Architecture 3</td>
</tr>
<tr>
<td>MCH 260- CAD Additive Manufacturing</td>
<td>MCH 275- 3D Digital Laser Scanning</td>
<td>Architecture 4</td>
</tr>
<tr>
<td>MCH 265- Rhino CAD Level II</td>
<td>MCH 285- MasterCam Orientation</td>
<td>Architecture 4</td>
</tr>
</tbody>
</table>

### Notes

- MCH 200- Cooperative Education Machine Technology
- MCH 205- Technical Skill Assessment in CNC Turning
- MCH 280- Technical Skill Assessment in CNC Milling
- MCH 285- MasterCam Orientation
- MCH 290- MasterCam Orientation
- MCH 292- FDM Additive Manufacturing
- MCH 295- Additive Manufacturing 3D Orientation
- MCH 297A- Rhino CAD Level II
- MCH 298- MasterCam Orientation
- MCH 260- CAD Additive Manufacturing
- MCH 275- 3D Digital Laser Scanning

### Key

- "*" = POS Required Course
- "CTE" = Career Technical Education
- "EDUCATION" = General Education
- "GENERAL" = General Education
- "MCH" = Machine Manufacturing Technology
- "MSD" = Machine Shop Technology
- "PCC" = Portland Community College

### Notes

- Students must complete a total of sixteen credits of General Education. Mathematics competency is met through the courses in the program of study indicated with a ♠ symbol.
- A minimum of 24 credits must be earned in general education with a maximum of 24 credits of cooperative education (MCH 260) allowed in the Machine Manufacturing Technology AAS degree.