# Manufacturing

The Manufacturing Pathway is a hands-on, project-based, learn-by-doing set of courses that helps prepare students for a future in machining, welding or manufacture engineering.

## Pathway Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>Pathway Course</th>
<th>English</th>
<th>Math</th>
<th>Social Studies</th>
<th>World Language</th>
<th>Science</th>
<th>PE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Introduction to Engineering &amp; Design</td>
<td>English 1 or English 1H</td>
<td>Algebra 1 or Geometry</td>
<td>Elective</td>
<td>Spanish 1 or French 1 Or Latin 1</td>
<td>Biology</td>
<td>PE</td>
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<tr>
<td>Year 2</td>
<td>Principles of Engineering</td>
<td>English 2 or English 2H</td>
<td>Geometry or Algebra 2</td>
<td>World History</td>
<td>Spanish 2 or French 2 Or Latin 2</td>
<td>Chemistry</td>
<td>PE</td>
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<tr>
<td>Year 3</td>
<td>Computer Integrated Manufacturing</td>
<td>English 3 or AP Eng Language</td>
<td>Algebra 2 or Pre-Calculus</td>
<td>Elective</td>
<td>US History</td>
<td>Physics</td>
<td>Elective</td>
</tr>
<tr>
<td>Year 4</td>
<td>Advanced Manufacturing (Recommended but not required, taken through ROP or CC)</td>
<td>English 4 or AP Eng Lit</td>
<td>Pre-Calculus or Calculus</td>
<td>Government and Economics</td>
<td>Elective</td>
<td>Elective</td>
<td>Elective</td>
</tr>
</tbody>
</table>

## External Activities & Experiences
- FHS Engineering Club
- UCI Energy Invitational
- VEX Robotics Team
- Chevron Challenge

## Possible College Majors
- Machine Technology
- Welding Technology
- Engineering

## Certifications / College Credit
- Autodesk Inventor
- CAD/CAM

## Careers
- Machinist
- Welder
- CAD/CAM Specialist
- Engineer
- Quality Control
- CNC Operator

*Please see your counselor for details on Honors and Advanced Placement courses available*