Do you enjoy using cutting-edge technology and working with your hands? Are you looking for a career in an industry with boundless opportunities for advancement? Look no further - consider a career in manufacturing!

**Pathway Description:**
This program provides students with hands-on training in the use of conventional and automated machining and manufacturing equipment and software. Today manufacturing includes the use of computers, robots, 3D printing, CNC-computer numerical controllers, virtual reality, and many automated processes. Students will have the opportunity to work with industry recognized equipment and software such as HAAS, MasterCam, AutoCAD and ProEngineer.

**Key Competencies:**
- Understand the manufacturing process
- Understand properties & production of metals
- Understand basic machine tool elements and basic machining processes
- Understand basic CAD/CAM
- Understand basic principles & components of fluid power & basic design of electrical controls as it applies to automation industry

**Courses (HS Credits):**
**Year 1 (options):**
9000 Industrial Arts Technology (2)
9655 Introduction to Engineering Design (2)

**Year 2 (options):**
9022 Power Mechanics (2)
9656 Principles of Engineering - PLTW (2)

**Year 3:**
9GB5A Manufacturing Processes (1)
9GB6A Intro to CAD/CAM (fall) (1)
9GC0B Virtual Reality for Manufacturing (4)

**Year 4:**
9GC1A Intro to Automation (4)
9GB7B Manufacturing Design (2)

**College Credits:** 23

**Annual National Average Salary for Entry Level Manufacturing Position:** $44,800

**Career Opportunities:**

<table>
<thead>
<tr>
<th>Assembler</th>
<th>Fabricator</th>
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<tr>
<td>Industrial Machinery Mechanics</td>
<td>Power Plant Operators</td>
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