

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:

Assembler	Fabricator
Industrial Machinery Mechanics	Power Plant Operators