

**Do you see yourself as a skilled worker? If you love hands-on work and problem solving, plumbing may be the career pathway for you! Get started on a career with lots of opportunity.**



**Pathway Description:**

This pathway teaches the skills associated with a plumbing career. Students in this pathway gain an understanding of the technical expertise necessary for an apprenticeship with an experienced plumber.

**Key Competencies:**

- Understand and apply coursework in safety, engineering, manufacturing, power, and construction.
- Install fixtures, faucets, and appliances
- Identify the types of pipe and fittings used in residential and commercial plumbing systems
- Demonstrate accuracy in reading and understand the required codes that govern plumbing procedures in the residential and commercial settings
- Use fundamental plumbing and pipefitting properties such as torque, piping schematics, and elementary pipe layout and joint construction
- Understand brazing, flame cutting, blueprint reading, electrical principals, and welding symbols
- Demonstrate accuracy in Plasma Arc Cutting (PAC), Oxy-Acetylene Cutting (OAC), and building weld pads and weld joints in Oxy-Acetylene Welding (OAW), Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), and Gas Tungsten Arc Welding (GTAW)

**Courses (HS Credits):**

**Year 1:** 9000 Industrial Arts Technology (2)

**Year 2:** 9031 Welding I (2)

**Year 3:** 9GE6A Basic Plumbing (1)  
 9GE7A Blueprint Reading and Estimating (1)  
 9GE8A Industrial Safety (1)  
 9GE9A Basic Electrical Theory (1)  
 9GF0B Industrial Plumbing and Pipefitting (2)  
 9GF1B Building Codes and Specifications (1)  
 9GF2B Commercial Fixtures (1)

**Year 4:** 9GF3A Residential Piping (2)  
 9GF4A Residential Code (1)  
 9GF5A Residential Fixtures (1)  
 9GF6B Commercial Piping (2)  
 9GF7B Commercial Code (1)  
 9GF8B Plumbing Troubleshooting (1)

**College Credits:** 31

**Annual National Average Salary for a Licensed Plumber: \$52,000**

**Career Opportunities:**

Plumbing Technicians	Gas Service Technician
Pipefitter or Pipelayer	Project Manager
Licensed Plumber	Business Owner

