NYS CIP CODE: 47.0201

Program Summary

- Gain an understanding of the fundamentals of residential and light commercial plumbing, heating, and air conditioning installation, service and repair.
- You'll interpret blueprints, drawings, and schematics and be able to assemble, prepare and install piping and HVAC equipment for a variety of residential and light commercial applications.
- Be part of the team that constructs a modular home in conjunction with the Building Trades and Electrical classes.
- · Get training on the latest green and solar technologies.
- Careers in the heating and air conditioning installation industry are growing rapidly each year.

College Credit Connections

- Alfred State College
- SUNY Canton
- · University of Northwestern Ohio

Additional Information

• Students are responsible for purchasing leather gloves, work shoes, a tool belt, and basic hand tools.

Career Pathways

Professional Careers

Building Inspector Building Superintendent Contractor Mechanical Engineer Operations Manager Plumbing / HVAC Educator

Technical Careers

Estimator HVAC Technician Industrial Plumbing Technician Master Plumber Pipe Fitter Union Steamfitter

Entry Level Careers

Appliance Repair Technician Building Maintenance Technician Counter Sales Technician Handyman HVAC Installer Plumbing Apprentice Service Technician



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HEATING, VENTILATION & AIR CONDITIONING

Drainage, Waste and Vents

• Learn to properly size, layout, and install DWV for both residential and commercial applications.

Potable Water Systems

• Learn to properly size, layout, and install potable water systems.

Forced Air Heating Systems

• Learn to properly size, install, troubleshoot, and repair all types of residential forced air furnaces.

Steam and Hydronic Heating Systems

• Learn to properly size, install, troubleshoot, and repair all types of residential boiler systems.

Central Air Conditioning Systems

• Learn to properly size, install, troubleshoot, and repair all types of residential central air systems.

Soldering and Brazing

 A "must have" skill for all plumbers and HVAC techs! Students will learn a variety of methods for joining pipes and fittings.

Fixture and Faucet Service and Installation

• Students will gain "real world" experience working on and installing a variety of plumbing fixtures.

Blue Print Reading and Plumbing Drawings

• Students will learn how to quickly and accurately read and interpret blueprints and isometric drawings.

Trade Related Certifications

- · EPA608 (required to work with refrigerants)
- OSHA10









