FENG 123 : Plumbing Basics and Repair

Credits: 2

Class Hours: 1 lecture and 2 lecture/lab

Recommended: "C" or higher or concurrent enrollment in CARP 120B.

Description: This course provides an overview of the plumbing systems and the materials, tools, and techniques used in the repair and maintenance of the fixtures and appliances found in a building. Included are safety precautions, tool selection, and an introduction to the codes that apply to a plumbing system.

Semester Offered: Spring

Course Student Learning Outcomes (CSLOs):

- 1. Describe the three systems that comprise the plumbing system in a typical building.
- 2. Demonstrate the ability to describe a supply system and its components.
- 3. Demonstrate the ability to describe the waste and vent systems and their components.
- 4. Demonstrate the ability to select and use the proper tools for a given task in the supply system.
- 5. Demonstrate the ability to select and use the proper tools for a given task in the waste or vent systems.
- 6. Demonstrate the proper selection and installation of the materials for a supply system.
- 7. Demonstrate the proper selection and installation of the materials for a waste or vent system.
- 8. Describe the fixtures and appliances found in a typical plumbing system.
- 9. Demonstrate the ability to determine the type of valve assembly and the repair techniques for a given assignment.
- 10. Demonstrate the ability to repair and replace various components of a water closet and toilet.
- 11. Describe the sequence used to replace a hot water heater.
- 12. Demonstrate the ability to perform basic troubleshooting techniques on a plumbing system.