## Department:

HVAC

## Course Description:

This unit covers the plumbing system of a structure including water supply distribution pipes; fixtures and fixture traps; soil, waste and vent pipes; building drains and building sewers; storm water drainage and their devices; appurtenances and connections within the building and outside the building within the property lines. All plumbing is taught to specifications of the Uniform Plumbing Code.

## Course Competencies:

Upon completion of the course, the student should be able to:

1. Use hand and power tools in a safe and effective manner.
2. Identify the different types of piping, fittings, and valves.
3. Size piping for the different plumbing systems as outlined in the code book.

## Course Content:

A. DWV piping system
  1. Materials
  2. Pipe sizing
B. Water distribution system
  1. Materials
  2. Pipe sizing
  3. Control devices
C. Gas piping
  1. Materials
  2. Pipe sizing
  3. Connections

## Learning Assessments:

Competencies may be evaluated by multiple measures, including multiple choice, true-false, fill-in-the-blank tests, as well as lab testing.

## Instructional Materials:

Textbook: Joyce, M. A. & Holder, R. (2011). *Residential Construction Academy: Plumbing* (2nd ed.). ISBN-13: 978-1111307776

Lab Manual: Standiford, K. (2011). *Workbook for Joyce's Residential Construction Academy: Plumbing* (2nd ed.). Delmar, Cengage Learning. ISBN-13: 978-1111307806

**Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition**

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the "Disabilities Self-Identification Form" on our Disability Services website.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.

**A Note on Harassment, Discrimination and Sexual Misconduct**

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an online report about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our Equity Grievance Policy.