Faculty members are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT.  PLHT  COURSE NUMBER:  1100
NUMBER OF CREDITS:  3  Lecture:  2  Lab:  1

Course Title:  
Introduction to Plumbing

Catalog Description:  
Introduces students to the tools and equipment of the plumbing trade, the necessity of safety in the workplace and methods described in the Minnesota Plumbing Code. Students will study plastic piping, which involves the joining of drainage, waste and vent, water supply and distribution lines. Students will become familiar with the different types of copper pipe, fittings and tubing. PEX water and heating distribution piping will be discussed and utilized. Students will also utilize and study water pumps.

FULFILLS MN TRANSFER CURRICULUM AREA(S)

Goal 1: Communication: ____ by meeting the following competencies:

Goal 2: Critical Thinking: ____ by meeting the following competencies:

Goal 3: Natural Sciences: ____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ____ by meeting the following competencies:

Goal 7: Human Diversity: ____ by meeting the following competencies:

Goal 8: Global Perspective: ____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ____ by meeting the following competencies:

Goal 10: People and the Environment: ____ by meeting the following competencies:
## Prerequisites or Necessary Entry Skills/Knowledge:

None

## Topics to be Covered:

- History plumbing and heating profession
- Shop safety and Personal Protective Equipment use
- Types and appropriate pipe types, metal and plastic
- Use of hand, power cutting, measuring and pipe assembly tools
- Joining pipe and pipe fittings

## Student Learning Outcomes

1. Execute safe operating procedures of machines used in industry.
2. Discuss the history of plumbing profession.
3. Articulate safe working techniques and procedures.
4. Identify use and care of Personal Protective Equipment (PPE).
5. Identify types and sizes of copper pipe and fittings.
6. Operate hand and power cutting and cleaning tools.
7. Join copper lines and fittings using proper tools and assembly techniques.
8. Identify plastic drain, waste and vent (DWV) and water supply pipe and fittings.
9. Join plastic pipe and fittings using proper tools and assembly techniques.

## Is this course part of a transfer pathway:

- Yes ☐
- No ☒

Revised Date: May 2020