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:  1130

NUMBER OF CREDITS:  5  Lecture:  2  Lab:  3

Course Title:
Plumbing Installation and Fixtures II

Catalog Description:
Expand on PLHT 1105 for more complex construction systems for residential and light commercial structures. Installation, service and repair of common fixtures, faucets, water treatment, water heaters installation will be included in lab activities. Students will be provided more complex projects and develop solutions to complete system installations, various piping installations applying code requirements.

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:

- Proper assembly techniques for PVC and PEX piping
- Proper use of hand tools and assembly specialty tools
- Application of Minnesota State Code for design and installation of DWV
- Proper use of measuring tools and techniques
- Water quality testing, water system analysis
- Proper tool maintenance, appearance, clean work space, customer service

Student Learning Outcomes

1) Identify and comprehend materials and methods of hanger installation.
2) Install DWV piping in structures.
3) Install water piping in structures.
4) Apply safety procedures and techniques.
5) Interpret code to assure installation compliance.
6) Utilize tools in safe and effective manner.
7) Select appropriate fixtures for customer expectations.
8) Install fixtures per manufacturers standards.
9) Test systems per code requirements.
10) Demonstrate safety practices in shop and job site and personal protective equipment.
11) Solve practical mathematical calculations.

Is this course part of a transfer pathway: Yes ☐ No ☒

Revised Date: May 2020