

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. PLMB

COURSE NUMBER: 1180

NUMBER OF CREDITS: 2

Lecture: 1 Lab: 1 OJT: 0

Course Title:

Water Piping and Sizing

Catalog Description:

Water Piping and Sizing will familiarize the learner with water supply and distribution. The course will include Minnesota Plumbing Code rules for the sizing a water supply system. Drawing isometrics will be introduced.

Prerequisites or Necessary Entry Skills/Knowledge:

None

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:

Topics to be Covered

How building water supplies are distributed and supplied.

Student Learning Outcomes

Demonstrate knowledge of key points of water distribution per plumbing code.

Demonstrate how to size the main water supply to a building

Demonstrate how to size the building water supply and branch lines.

Demonstrate how to size a manifold header type water supply system.

Demonstrate the ability to extrapolate information from the water distribution tables.

Perform basic math functions in regards to friction loss atmospheric pressure and building.

Draw individual fixture water supply isometrics.

Draw fixture group water supply isometrics.

Draw a building main water supply and branch line isometrics.

Is this course part of a transfer pathway: Yes No

Revised Date: 2/14/2022