

**NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
BLD 20 – INTRODUCTION TO PLUMBING (2 CR.)**

Course Description

Presents an introduction to the principles and practices of plumbing as related to light construction. Enables students to plan, prepare for, and install supply and waste lines, and install kitchen and bath fixtures. Lecture 1 hour. Laboratory 2 hours. Total 3 hours per week.

General Course Purpose

Students will be introduced to entry-level plumbing concepts, principles, and practice.

Course Prerequisites/Co-requisites

None

Course Objectives

Upon completing the course, the student will:

- Have a basic knowledge of the plumbing trade, i.e.; history of plumbing, the structure of the trade, apprenticeship standards, essential definitions, etc.)
- Understand essential principles of job site safety and practice applicable principles while in class and laboratory environments.
- Solve basic plumbing problems using “plumbing math.”
- Identify and select appropriate pipes, fittings, and valves.
- Identify water meters and interpret meter readings.
- Demonstrate the appropriate use of common plumbing tools.
- Demonstrate pipe joining, installation, and support.
- Demonstrate basic lavatory and kitchen fixture installation.

Major Topics to be Included

- a. The Plumbing Trade
- b. Job Site Safety
- c. Plumbing Math
- d. Plumbing Materials
- e. Plumbing Tools and Equipment
- f. Joining, Installing, and Supporting Pipe
- g. Fixture Installation