

102 **Mechanical Technology I**
Course No. Descriptive Title

April 18, 2001
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Course Description

This course deals with the mechanical systems instruction of not more than two stories such as housing and simple industrial buildings of conventional construction. In this course the student studies general mechanical principles and design, materials and methods and procedures dealing with plumbing, heating, ventilating, air conditioning, and testing of systems.

Suggested Prerequisites: None

Learning Outcomes

Student will be able to demonstrate an understanding of simple plumbing, heating, ventilation, and air conditioning systems.

Course Content:

The student will study the following:

1. from the text Construction Materials and Processes study Division 15 Mechanical Systems including
 - a. Water distribution Systems
 - b. Water Supply Piping
 - c. Drainage Systems
 - d. Sewage Disposal
 - e. Fuel Gas Piping
 - f. Plumbing Fixtures
 - g. Heating Systems
 - h. Air Conditioning
2. from the text Means Plumbing Estimating
 - a. Chapter 1 Basic Materials and Methods
 - b. Chapter 2 Plumbing Subsystems and Components
3. from the text Method of Measurement and Construction Works.

Required Textbooks and Materials:

1. Construction Materials and Processes, by Don A. Watson
2. Means Plumbing Estimating, by Galeno and Greene
3. Method of Measurement of Construction Works, published by The Canadian Institute of Quantity Surveyors, Division 15.

Testing:

1. Emphasis in testing will be placed on the student's knowledge set out in the course content including
 - a. manufacture of the type of materials
 - a. proper application of the process
 - c. appropriate use of the various materials and systems.