

North Hennepin Community College

CMSV 2875: Mechanical and Electrical Systems

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course will prepare students to identify, analyze, and evaluate all aspects of building mechanical, electrical, and plumbing systems. The students will explore a variety of systems found typical in both residential and commercial buildings and will have the opportunity to gain detailed knowledge on how systems are designed, constructed, and perform. This course is designed for construction managers, project superintendants, code officials, and other construction related industry professionals.

B. COURSE EFFECTIVE DATES: 01/09/2012 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Building Mechanical/HVAC/Fire Systems
2. Plumbing Methods & Materials
3. Electrical Principles, Tools, and Safety
4. Testing & Inspecting Systems

D. LEARNING OUTCOMES (General)

1. Identify basic fundamental concepts and components. (ELO: 1,2)
2. Review, analyze, and interpret construction documents, product, and technical information associated with electrical fire, HVAC, low voltage, and plumbing systems. (ELO: 2,4)
3. Recognize the need and use of the systems, and how designs are dependent upon the different types of construction and/or use. (ELO: 2,4)
4. Evaluate information to determine compliance with specifications and standards. (ELO: 1,2,4)
5. Evaluate processes, material, and environment. (ELO: 1,2,4)
6. Identify objects, actions, and events which impact system performance and operation. (ELO: 1,2)

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted