HEATING, VENTILATION, AND AIR CONDITIONING WIRING THEORY AND LAB — ELEC 2260

A. Course Description

- **Credits:** 3.00
- **Lecture Hours/Week:** 1.00
- **Lab Hours/Week:** 2.00
- **OJT Hours/Week:** 0
- **Prerequisites:**
  - ELEC 1110: D.C. Electricity Theory and Lab
  - ELEC 1120: A.C. Electricity Theory and Lab
- **Corequisites:** None
- **MnTC Goals:** None

This course covers the use of materials and design of materials and equipment for heating, ventilating, and air conditioning residential, commercial and industrial buildings. Prerequisite: ELEC1120 and ELEC 1110

B. Course Effective Dates: 8/25/08 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. calculate HVAC loads
2. demonstrate design of heating controls
3. demonstrate programming of damper controls
4. identify HVAC components
5. identify basic furnace logic
6. identify electrical heating systems components
7. identify humidifier systems
8. recall residential furnace systems
9. recall types of electric heat systems

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
F. **Learner Outcomes Assessment**
   
   As noted on course syllabus

G. **Special Information**

   None noted