

# Lake Superior College

## ASTE 1410: Air Conditioning

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers the principles of air conditioning. The various types, diagnosis of malfunctions, testing, and repair are included. Emphasis will be placed on environmentally friendly repair procedures. Practical experience is gained on live systems; diagnosis, recovery, charging, and performance testing of systems. (Prerequisites: ASTE1400, concurrent enrollment, or instructor's consent) (2 hrs lec/2 hrs lab/0 hrs OJT)

**B. COURSE EFFECTIVE DATES:** 08/23/2010 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. 01
2. 01
3. 01
4. 01
5. 01
6. 01
7. 01
8. 01
9. 01

### D. LEARNING OUTCOMES (General)

1. exhibit professional behavior and function safely in the automotive lab
2. identify electrical system service tools and equipment
3. identify environmental concerns
4. exhibit environmental awareness
5. identify air conditioning terms and components
6. describe air conditioning principles
7. identify air conditioning specialized controls
8. identify air conditioning service tools and equipment
9. perform air conditioning service

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

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted