



COMMON COURSE OUTLINE: Course discipline/number/title: AMT 2770: Heating and Air Conditioning

A. CATALOG DESCRIPTION

1. **Credits:** 3
2. **Hours/Week:** 1 lecture, 2 Lab
3. **Prerequisites (if any):** None
4. **Co-requisites (if any):** None
5. **MnTC Goals (if any):** NA

This course covers automatic temperature control systems operation, testing, and repairs of vacuum and electrical controls, airflow distribution, and heater system controls. It also will cover the diagnosis and repair of air conditioning components as well as types of refrigerants used.

B. DATE LAST REVISED (use current date): April, 1997

C. OUTLINE OF MAJOR CONTENT AREAS:

1. Automatic Controls
2. Manual Controls
3. Heating System
4. Cooling System
5. Refrigerant Handling
6. Refrigerant Types
7. Electronic Controls
8. Reclaiming and Recharging

D. LEARNING OUTCOMES (GENERAL): The student will be able to:

1. Diagnose and repair heating and air conditioning.
2. Use proper safety practices to reclaim and recharge air conditioners.
3. Identify types of cooling systems.
4. Identify types of refrigerants.
5. Replace components.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:

1. Worksheets
2. Tests
3. Lab work

G. SPECIAL INFORMATION (if any): None