

Date Prepared: 05/30/01

COURSE OUTLINE

New Revised

Effective Date: 6/1/01

1. **COURSE PREFIX NUMBER:** AUT 236 **CREDIT HOURS:** 4
2. **COURSE TITLE:** Transportation Air Conditioning
3. **PREREQUISITES:**
4. **COURSE DESCRIPTION:** Introduces principles of refrigeration, air conditioning controls, and adjustment and general servicing of automotive air conditioning systems. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.
5. **CONTENT:** (Major Headings)
 - a. Basics of air conditioning
 - b. Refrigerants and oils
 - c. Service equipment
 - d. System inspection
 - e. Diagnosing system
 - f. Testing and adjusting system
6. **GENERAL COURSE OBJECTIVES:**

Upon successful completion of the course, the student will be able to

- a. Understand the theory and principles of air conditioning systems
- b. Identify the various components of an air conditioning system and list their functions
- c. Conduct various diagnostic test on a typical air conditioning system
- d. Perform normal service procedures on a typical air conditioning system
- e. Diagnose faults in the air conditioning system and perform the needed repairs