



COMMON COURSE OUTLINE: Course discipline/number/title: AMT 2750: Engine Performance Theory

A. CATALOG DESCRIPTION

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

This course covers a study of the theory and principles of operation of automotive fuel systems, electrical systems, and mechanical conditions related to engine performance and also the operating principles of automotive computers, sensors, and control devices.

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

C. OUTLINE OF MAJOR CONTENT AREAS:

1. Electronic Engine Controls
2. Computer Controlled Carburetors
3. Fuel Injection
4. Electronic Sensors
5. Turbochargers

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

1. Test and diagnose electronic engine control.
2. Identify carburetors.
3. Identify electronic sensors.
4. Identify computer outputs.
5. Identify types of injection systems.
6. Identify computer inputs and outputs.
7. Identify turbochargers.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:

1. Worksheets
2. Tests

G. SPECIAL INFORMATION (if any): None