



COMMON COURSE OUTLINE: Course discipline/number/title: AMT 2752: Engine Performance Lab

A. CATALOG DESCRIPTION

- 1. Credits: 7**
- 2. Hours/Week: 14**
- 3. Prerequisites (if any):** AMT 2750 or concurrent enrollment
- 4. Co-requisites (if any):** None
- 5. MnTC Goals (if any):** NA

This course includes diagnosing, servicing, and correcting problems related to automotive fuel systems including carburetors, fuel pumps, fuel tanks, filters, and emission control systems associated with fuel systems on the automobile. Diagnosis, adjustments, and repair of component parts will be stressed. It will also deal with computer controls for both carbureted models and fuel injection.

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

C. OUTLINE OF MAJOR CONTENT AREAS:

1. Fuel Systems
2. Carburetors
3. Fuel Injection
4. Electronic Engine Controls
5. Turbochargers
6. Emission Controls

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

1. Diagnose engine performance problems.
2. Repair engine performance problems.
3. Diagnose and test computer controls.
4. Test sensors.
5. Test control units.
6. Repair carburetors.
7. Repair turbochargers.
8. Clean injectors.
9. Test fuel.

E. LEARNING OUTCOMES (MNCTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:

Quantities and quality of work in lab

G. SPECIAL INFORMATION (if any):