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

A. CATALOG DESCRIPTION
   1. Credits: 4
   2. Hours/Week: 4
   3. Prerequisites (Course discipline/number): None
   4. Co-requisites (Course discipline/number): AMT 2752
   5. MnTC Goals (if any): NA

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

B. DATE LAST REVISED (Month, year): February, 2015

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Electronic Engine Controls
   2. Fuel Injection
   3. Electronic Sensors
   4. Turbochargers
   5. Module networking

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Test and diagnose electronic engine controls.
   2. Identify electronic sensors.
   3. Identify computer outputs.
   4. Identify types of injection systems.
   5. Identify computer strategies.
   6. Identify turbochargers.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
   1. Worksheets
   2. Tests
   3. Chapter Questions

G. RCTC CORE OUTCOME(S) ADDRESSED:
   - Communication
   - Critical Thinking
   - Global Awareness/Diversity
   - Civic Responsibility
   - Personal/Professional Accountability
   - Aesthetic Response

H. SPECIAL INFORMATION (if any): None