COMMON COURSE OUTLINE: Course discipline/number/title: AMT 2740: Drive Train Theory

A. CATALOG DESCRIPTION
   1. Credits: 3
   2. Hours/Week: 3
   3. Prerequisites (Course discipline/number): None
   4. Co-requisites (Course discipline/number): AMT 2742 and AMT 2744
   5. MnTC Goals (if any): NA

   This course will cover automotive and light truck clutches, manual and automatic transmission/transaxles, differentials and drivelines. Content includes mechanical, electronic and hydraulic system, driveshaft phasing, alignment, balance gear ratios and diagnosis. All-wheel drive and 4 wheel drive systems.

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

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Automatic Trans/Transaxle
   2. Differentials
   3. Clutches
   4. Electronic Controls
   5. Manual Transmissions
   6. Scan tool applications
   7. Gear Ratios

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Inspect, diagnose, and replace transmissions.
   2. Identify types of transmissions.
   3. Describe types of repairs needed.
   4. Describe electronic control methods.

E. LEARNING OUTCOMES (MNTC): NA

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