COMMON COURSE OUTLINE: Course discipline/number/title: AMT 2742: Manual Drive Train Lab

A. CATALOG DESCRIPTION
   1. Credits: 4
   2. Hours/Week: 8
   3. Prerequisites (Course discipline/number): None
   4. Co-requisites (Course discipline/number): AMT 2740
   5. MnTC Goals (if any): NA

This course is a hands on lab class and 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.

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

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Manual Transmissions
   2. Transfer Cases
   3. Manual Transaxles
   4. Electronic controls
   5. Differentials
   6. Gear Ratios

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Service and repair clutches.
   2. Service and repair transmissions.
   3. Service and repair differentials
   4. Service and repair transfer cases
   5. Service and repair transaxles

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
   1. Lab Work Performed and Quality of Work.
   2. Worksheets

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

H. SPECIAL INFORMATION (if any): None