



**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 (if any):** AMT 2740 or taken concurrently.
- 4. Co-requisites (if any):** None
- 5. MnTC Goals (if any):** NA

This course is a hands-on lab class and will cover standard automotive and light truck clutches, manual transmissions/transaxles, transfer cases, differentials, and drivelines. Content includes mechanical and hydraulic systems, phasing, alignment, balance, gear ratios and diagnosis.

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

**C. OUTLINE OF MAJOR CONTENT AREAS:**

1. Manual Transmissions
2. Transfer Cases
3. Manual Transaxles
4. Drivelines
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. Quantity of Lab Work Performed and Quality of Work
2. Worksheets

**G. SPECIAL INFORMATION (if any):** None