



**COMMON COURSE OUTLINE: Course discipline/number/title: AMT 1730: Hydraulic Brake Theory**

**A. CATALOG DESCRIPTION**

1. Credits: 2
2. Hours/Week: 2
3. Prerequisites (if any): This must be a prerequisite to or concurrent with AMT 1735
4. Co-requisites (if any): None
5. MnTC Goals (if any): NA

This course covers the theory of design, operation, diagnosis, and repair of hydraulic brake systems on automobiles and trucks. Recommended Entry Skills/Knowledge: High School Diploma.

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

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

1. Drum Brake Design and Operation
2. Disc Brake Design and Operation
3. Power Brake Design and Operation
4. ABS Brake Design and Operation
5. Diagnosis and Repair of Brake Systems

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

1. Describe disc and drum brake systems and their operation.
2. Describe power boosters and operation.
3. List diagnosis repair and procedures of hydraulic brake systems.
4. Describe safety issues involved with brake systems.

**E. LEARNING OUTCOMES (MNTC):** NA

**F. METHODS FOR EVALUATION OF STUDENT LEARNING:**

1. Quizzes
2. Tests
3. Assignments
4. Worksheets

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