COMMON COURSE OUTLINE: Course discipline/number/title: AMT 1720: Electrical Theory

A. CATALOG DESCRIPTION
   1. Credits: 2
   2. Hours/Week: 2
   3. Prerequisites (Course discipline/number): None
   4. Co-requisites (Course discipline/number): AMT 1725
   5. MnTC Goals (if any): NA

   This course covers the theory of basic electricity, starting and charging systems, electrical accessories and troubleshooting and repair of these systems.

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

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Basic Electricity and Electrical Theory
   2. Starting systems
   3. Charging systems
   4. Electrical Accessories
   5. Diagnostic Equipment and Usage
   6. Troubleshooting and Repair of Automotive Electrical Systems

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Apply Ohms Law and relate electrical formulas to problem solving.
   2. Describe and use electrical test instruments.
   3. Describe and test operation of starting and charging systems.
   4. Diagnosis steps of starting and charging systems.
   5. Describe and test electrical accessories.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
   1. Quizzes
   2. Tests
   3. Worksheets
   4. Assignments

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

H. SPECIAL INFORMATION (if any): None