

Course discipline/number/title: AMT 1820: Alignment and Suspension Theory

- A. CATALOG DESCRIPTION
1. Credits: 2
 2. Hours/Week: 2
 3. Prerequisites (Course discipline/number): None
 4. Other requirements: None
 5. MnTC Goals (if any): NA
- B. COURSE DESCRIPTION: This course covers suspension design, alignment geometry and wheel and tire factors as well as recommended maintenance steps concerning suspension systems and related components.
- C. DATE LAST REVISED (Month, year): February, 2022
- D. OUTLINE OF MAJOR CONTENT AREAS:
1. Suspension Design and Types
 2. Alignment Geometry
 3. Wheel and Tire Maintenance/Diagnosis
 4. Tire Pressure Monitoring Systems
 5. Suspension Diagnosis, Adjustment, and Repair Steps
- E. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Identify and describe suspension designs and types.
 2. Describe various alignment geometry angles.
 3. Explain wheel and tire service and maintenance steps.
 4. Show understanding of suspension adjustment and repair steps.
- F. LEARNING OUTCOMES (MNTC): NA
- G. METHODS FOR EVALUATION OF STUDENT LEARNING: Methods may include but are not limited to:
1. Quizzes
 2. Tests
 3. Assignments
 4. Worksheets
- H. RCTC CORE OUTCOME(S). This course contributes to meeting the following RCTC Core Outcome(s): Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.
- I. SPECIAL INFORMATION (if any): None