A. **Course Description**
   - **Credits**: 2.00
   - **Lecture Hours/Week**: 2.00
   - **Lab Hours/Week**: 0.00
   - **OJT Hours/Week**: 0
   - **Prerequisites**: None
   - **Corequisites**: None
   - **MnTC Goals**: None

   The student will gain an understanding of the Caterpillar engine and product line with basic fundamentals of the diesel engine.

B. **Course Effective Dates**: 8/21/17 – Present

C. **Outline of Major Content Areas**
   - As noted on course syllabus

D. **Learning Outcomes**
   1. ACERT engines
   2. Calibrations
   3. Caterpillar ET
   4. Caterpillar electronic controls
   5. Common rail fuel systems
   6. Correct operation of battery, starting and charging systems
   7. Electrical schematics
   8. Electrical systems and components
   9. Fault codes
   10. Hydraulic conductor components
   11. Hydraulic fundamentals
   12. Hydraulic schematics
   13. SIS web
   14. Tier 3 engines
   15. Win-flash

E. **Minnesota Transfer Curriculum Goal Area(s) and Competencies**
F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted