Minnesota State College Southeast

AUTO 1216: Auto Electric/Electronic Systems

A. COURSE DESCRIPTION
   Credits: 2
   Lecture Hours/Week: 2
   Lab Hours/Week: 0
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None
   This course teaches the principles of operation and theory of auto body electrical systems such as power windows, power seats, electronic instrument clusters, theft deterrent systems, computer controlled electronics, and passive restraint systems. (Prerequisites: AUTO1105, AUTO1106, AUTO1206, or instructor approval) (2 Credits: 2 lecture/0 lab)

B. COURSE EFFECTIVE DATES: 10/05/1998 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Electrical Safety Procedures

D. LEARNING OUTCOMES (General)
   1. Describe electrical safety procedures
   2. Identify electrical components
   3. Complete final
   4. Identify circuit controls
   5. Trace electrical circuits
   6. Troubleshoot electrical circuits
   7. Calculate circuits using OHM's law
   8. Describe voltage drop
   9. Identify electrical test equipment
   10. Complete mid-term exam
   11. Describe lighting systems operation
   12. Analyze lighting systems circuits
   13. Describe analog and electronic instrumentation
   14. Analyze instrumentation circuits
   15. Describe electrical and electronic accessory operation
   16. Analyze accessory circuits
   17. Identify body computer operation
   18. Identify chassis electronic control systems
   19. Identify advanced lighting circuits and electronic instrumentation

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None
F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted