Wayne County Community College District

COURSE SYLLABUS

AUT 102    Automotive Electrical Systems

CREDIT HOURS:  4.00

CONTACT HOURS:  90.00

COURSE DESCRIPTION:
Provides students with the necessary skills and understanding to diagnose repair and maintain the automotive electrical system. Electrical theory, operating principles, construction, maintenance and repair of various components are included. On-vehicle testing, inspection and adjustment will be performed by the student. Discussion and testing of on board computers included (meets six hours per week).

PREREQUISITES:   YAATC Program Course – Program Approval Required

EXPECTED COMPETENCIES:
Upon successful completion of this course, the student will be able to:
1. Demonstrate knowledge of electrical fundamentals.
2. Identify electrical/electronic terms.
3. Identify electrical/electronic symbols.
4. Use electrical/electronics test equipment.
5. Read electrical/electronic wiring schematics.
6. Diagnose/test starting system.
7. Diagnose/test charging system.
8. Diagnose/test various electrical circuits.

ASSESSMENT METHODS:
Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:
90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E