



AUTO 1104

Division: Career and Technical Education

Department: Automotive Technology

Course: AUTO 1104

Title: Automotive Signaling, Lighting, Instruments, and Accessories

Catalog Description:

Students will understand and be able to diagnose and repair signaling systems, lights, instruments, and automotive accessories.

General Education Requirements: N/A

Semesters Offered: TBA

Credit/Time Requirement: Credit: 2; Lecture: 1; Lab: 3

Clock/Hour Requirements: 60

Offered for Non-Credit: No

Prerequisites: None

Corequisites: None

Justification:

This course is required for Automotive Service Excellence (A.S.E.) certification. It is approved by the program advisory committee.

Student Learning Outcomes:

Upon successful completion of this course, students will be able to safely perform the tasks listed in the current edition of *A.S.E. Certification For Automobile Training Programs*.

Content:

Upon completion of this course, students will understand and be able to explain:

- safety
- lighting circuits
- convention analog
- instrumentation and indicator lights
- electrical accessories
- introduction to a body computer
- advanced lighting circuits and electronic instrumentation
- chassis electronic control systems.

General Education Outcomes:

Key Performance Indicators:

AUTO 1104

In class:

- Students shall be required to complete chapter tests (50% of the grade), and pass a final test (50% of the grade). In addition, students are required to perform shop tasks (P1 tasks 100%, P2 tasks 90%, and P3 tasks 80% to pass course) as outlined in the current edition of *A.S.E. Certification For Automobile Training Programs*.

Representative Text and/or Supplies:

- Hollembeak, Barry, *Automotive Electricity and Electronics*, current edition, Thomson/Delmar Learning.

Optimum Class Size: 10

Maximum Class Size: 18

Signatures:

I hereby submit this course syllabus:

Brent Reese, BS, Associate Professor

I hereby find this course consistent with the goals and resources of the Automotive Technology Department:

Brent Reese, BS, Associate Professor, Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)