

Common Course Outline

AUCR104

Mechanical Components Repair I

5 Semester Hours

The Community College of Baltimore County

Description

AUCR104- 5 Credits- Mechanical Components Repair I

covers the basic principles of automotive mechanical and electrical components. Topics include personal and environmental safety and suspension and steering, electrical, brake, heating and air-conditioning, cooling, and drive train.

5 Credits: 3 Lecture hours per week; 6 Laboratory hours per week

Prerequisite(s): AUCR 100

Overall Course Objectives

Upon completion, students should be able to:

1. Identify Suspension system components;
2. Identify Steering system components;
3. Identify Electrical system components;
4. Identify Brake system components;
5. Identify Heating and A/C system components;
6. Identify Cooling system components;
7. Identify Drive Train system components;
8. Perform basic system diagnostic checks on Suspension system;
9. Perform basic system diagnostic checks on Steering system;
10. Perform basic system diagnostic checks on Electrical system;
11. Perform basic system diagnostic checks on Brake system;
12. Perform basic system diagnostic checks on Heating and A/C system;
13. Perform basic system diagnostic checks on Cooling system components and
14. Perform basic system diagnostic checks on Drive Train system components.

Major Topics

- I. Suspension systems
- II. Steering systems
- III. Electrical systems
- IV. Brake systems
- V. Heating and air-conditioning systems

- VI. Cooling systems
- VII. Drive train systems

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member and will be provided on the first day of class. A student can expect a minimum of eight grades from the following categories:

1. Quizzes
2. Lab projects
3. Written paper
4. Homework assignments
5. Midterm exam
6. Class participation
7. Comprehensive final

Writing: The individual faculty member will determine specific writing assignments.

Other Course Information

This course is a Collision Repair core course.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

(8) Date Revised: 04/11/05