

Course Outline
AUTO 126
Repairing Automotive Brake Systems
4 Credit Hours
2 Lecture Hours
3 Lab Hours

The Community College of Baltimore County

Description

Repairing Automotive Brake Systems

Introduces diagnosis and repair of automotive brake systems and components; includes disassembly, overhaul, repair of hydraulic systems, disc brake systems, drum brake systems, power brake systems, and associated repairs. \$20.00 fee required,

Overall Course Objectives

Upon completion of this course the student will be able to:

1. Remove, bench bleed, and replace master cylinder.
2. Remove, clean (using proper safety procedures), inspect, measure brake drums, and service or replace as needed.
3. Mount brake drum on lathe, machine braking surface.
4. Remove, clean, inspect brake shoes, springs, pins, clips, levers, adjusters/self-adjusters, other related brake hardware, backing support plates, and lubricate and reassemble.
5. Reinstall wheel, torque lug nuts, make final checks, and adjustments.
6. Remove, clean, inspects pads and retaining hardware and determines needed service.
7. Remove and replace rotor.
8. Mount brake rotor on lathe, machine braking surface.

Major Topics

1. Repair of brake system operation
2. Diagnosis of the brake system
3. Practical learning revolves brake service

Course Requirements

One Term Paper

1. Topic of the paper will be selected by the student and should relate to the subject material of the course.
2. The paper should be 6 to 8 pages in length, typewritten, and double-spaced. It should include in addition to the 6 to 8 pages of text, an author and title page and bibliography utilizing a minimum of three reference resources excluding classroom materials.
3. All papers are due when 80% of the class sessions are completed. Papers submitted late will be deducted one letter grade.

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 (required)

Other Course Information

This course is an Automotive Technology elective.