

SOUTHEAST COMMUNITY COLLEGE
ADVANCED TECHNOLOGIES & SKILLED TRADES DIVISION
AUTOMOTIVE TECHNOLOGY
COURSE SYLLABUS
October 31, 2025

I. CATALOG DESCRIPTION

Course Number: AUTT1110
Course Title: Basic Automotive Maintenance
Pre/Co-Requisite(s): AUTT1007

Catalog Description: Basic automotive class covering automotive maintenance and light repair procedures.

Credit Hour: 3.0
Class Hours: 15
Lab Hours: 90
Total Contact Hours: 105

II. COURSE OBJECTIVES: *Course will:*

- A. Cover automotive shop procedures and repair.
- B. Cover how to apply service information.
- C. Cover how to find vehicle labels and identification.
- D. Cover lubrication and maintenance service and inspections.
- E. Cover hoist safety and use.
- F. Cover theory and principles of wheels and tires.
- G. Cover theory and principles of tire pressure monitor systems.
- H. Cover theory and principles of engine operation.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES

A. STUDENT LEARNING OUTCOMES: *Student will be able to:*

1. Discuss and follow the school and laboratory policies of SCC and the Automotive Technology program.
2. Demonstrate the ability to locate service information.
3. Identify potential safety hazards in the automotive shop, identify unsafe shop practices and be able to explain precautionary preventative measures in the automotive shop.
4. Demonstrate the proper method of locating and lifting a vehicle on a hoist.
5. Demonstrate the ability to properly perform a basic oil and filter change and inspection.
6. Identify tires and ratings.
7. Repair tires.
8. Balance and rotate tires.
9. Inspect and maintain automotive fluids.
10. Demonstrate the ability to remove and install engine maintenance components

B. GENERAL EDUCATION LEARNING OUTCOMES

GELO 4: Problem Solving

The student will demonstrate the ability to define a problem, develop a plan to solve the problem, collect and analyze information, solve the problem, evaluate results, and define any need for further work.

IV. CONTENT/TOPICAL OUTLINE *(course outline may provide more detailed information)*

- A.** Working in the automotive shop
- B.** Using an automotive hoist
- C.** Locating service information
- D.** Locating vehicle labels
- E.** Servicing a vehicle
 - 1. Changing oil
 - 2. Rotating tires
 - 3. Checking fluids
 - 4. Checking lights
 - 5. Replacing wipers
 - 6. Replacing air cleaners
 - 7. Visual inspections
 - 8. Belts
- F.** Wheels
 - 1. Tire rotation
 - 2. Tire replacement
 - 3. Tire balancing

V. INSTRUCTIONAL MATERIALS

A. The Course Information Document lists the current text(s) required for this class. The list is also available in the campus bookstore. The Course Information Document also lists the tools/equipment or other supplies required for this class.

VI. METHODS OF PRESENTATION/INSTRUCTION

- A. Presentation methods typically include a combination of the following:**
- 1. Lecture
 - 2. Small and large group discussion
 - 3. Video presentation
 - 4. Demonstrations
 - 5. Project boards
 - 6. Handouts
 - 7. Observations
 - 8. Assigned lab projects
 - 9. Field trips

VII. METHODS OF EVALUATION

- A. Methods of presentation typically include a combination of the following:**
- 1. Notebook (if required)
 - 2. Quizzes
 - 3. Tests
 - 4. Lab grades
 - 5. Attendance/Class conduct

Letter grades will be based on the SCC Standard Grade Scale Policy. **Note:** See Course Information Document for specific details on how the course grades will be calculated.

VIII. SPECIFIC COURSE REQUIREMENTS

- A.** Student must complete all tests, projects, assignments, and notebook (if required).
- B.** Student must earn a final grade of 70% (2.0) or higher.
- C.** Attendance as stated in the college student handbook, automotive lab and classroom policies handbook or Course Information Document.
- D.** Shop safety rules will be followed.
- E.** Additional Course Requirements.
 - 1. Student will have 70 hours of homework and a reflection paper as per US Department of Education's mandate. (See CID for specifics)