

## SYLLABUS

**DIVISION:** Business and Engineering Technology

**REVISED:** Fall 2014

**CURRICULA IN WHICH COURSE IS TAUGHT:** Automotive Analysis & Repair Curriculum

**COURSE NUMBER AND TITLE:** AUT 130 Introduction to Auto Mechanics

**CREDIT HOURS:** 3 HOURS/WK **LEC:** 2 HOURS/WK **LAB:** 3 **LEC/LAB COMB:** 5

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**I. CATALOG DESCRIPTION:**

**[AUT 130 - Introduction to Auto Mechanics](#)**

Introduces auto mechanics, covering auto shop safety, tool identification and use. Explains automobile system theory and function. Stresses quality work practices and job opportunities.

Lecture 1-2 hours. Laboratory 3 hours. Total 4-5 hours per week.

2-3 credits

**II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES:**

Students will:

- A. demonstrate technical competencies & skills in automotive engine repair
- B. demonstrate punctuality & reliability acceptable to the auto repair industry
- C. use safety equipment & procedures required for the tasks being performed
- D. read & interpret technical information required for projects & assignments
- E. demonstrate and maintain a clean, orderly, safe & attractive work place & maintain a personal appearance that will enhance that work place

**III. REQUIRED BACKGROUND/PREREQUISITIES:**

**Textbook:** Fundamentals of Automotive Technology by CDX Automotive, latest addition, published by Jones & Bartlett Learning. The student must have work clothes and a tool set available each day.

**IV. COURSE CONTENT:**

- Identify the major causes of accidents
- List safe work procedures
- Explain why accidents must be avoided
- Identify and locate the most important parts of a vehicle
- Describe the purpose of fundamental automotive systems
- Identify common automotive hand tools and their uses
- Demonstrate safety practices for tool usage
- Identify proper maintenance and care of tools and equipment
- Describe the use of common measuring tools
- explain the different kinds of information used in an service publications
- explain how to use computer-based service information
- identify careers within the Automotive Job Market

**V. THE FOLLOWING GENERAL EDUCATION OBJECTIVES WILL BE ADDRESSED IN THIS COURSE (Place X by all that apply)**

Communications Skills

Computational and Computer

Learning Skills Society

Understanding Culture and

Critical thinking Technology

Understanding Science and

Interpersonal Skills and Human Relations

Wellness

**VI. LEARNER OUTCOMES**

**VII. EVALUATION**

<p><b>A. Explain how to prevent auto shop accidents</b></p>	<p>Lab exercises Written test Online exam 75% of students will be able to complete these assignments</p>
<p><b>B. Identify metric and standard measuring systems</b></p>	<p>Lab exercises Written test Online exam 75% of students will be able to complete these assignments</p>
<p><b>C. demonstrate the use of computer based service information</b></p>	<p>Lab exercises Written test Online exam 75% of students will be able to complete these assignments</p>
<p><b>D. identify the different operating systems of the car</b></p>	<p>Lab exercises Written test Online exam 75% of students will be able to complete these assignments</p>
<p><b>E. demonstrate knowledge of how to obtain a career in the Automotive Industry</b></p>	<p>Lab exercises Written test Online exam 75% of students will be able to complete these assignments</p>
<p><b>F. Successfully answer ASE certification test questions that require a knowledge of fasteners, gaskets, seals, and fasteners</b></p>	<p>Lab exercises Written test Online exam 75% of students will be able to complete these assignments</p>

