

AUT 101

Introduction to Automotive Systems

COURSE OUTLINE

Prerequisites:

NONE

Course Description:

[AUT 101](#) Introduces fundamental systems of automobile, the engine fuel, exhaust, electric, ignition, lubrication, cooling, transmission, steering, brake and suspension systems. Teaches theory and function of each system. Demonstrates operation.

Semester Credits: 4 Lecture Hours: 2 Lab/Recitation Hours: 4

VIRGINIA WESTERN COMMUNITY COLLEGE
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Course Outcomes

At the completion of this course, the student should be able to:

Demonstrate and explain operation of the following systems:

Fuel

Exhaust

Ignition

Lubrication

Cooling

Transmission

Steering

Brakes, & Suspension.

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Required Materials:

Safety glasses closed sturdy shoes ASE test prep CD

Textbook:

Automotive Technology principles, diagnosis and service -
Pearson Publishers - Halderman 4th edition
ISBN 978-0-13-254261-6

The following supplementary materials are available:

1. Publishers online material

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Topical Description: (Outline chapters and sections to be covered in the book – may include timeline)

| | |
|-------------|--|
| Chapter 18 | Gasoline Engine Operation |
| Chapter 22 | Coolant System Operation |
| Chapter 23 | Lubrication System Operation |
| Chapter 69 | Ignition System Components & Operation |
| Chapter 93 | Braking System Principles |
| Chapter 112 | Suspension System Principles |
| Chapter 127 | Automatic Trans/Transaxle Principles |

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Notes to Instructors

(List information about optional topics, departmental exams, etc)

1. ASE testing should be completed by week 15
2. Practical exam is given on week 16
3. Exhaust & Fuel systems are to be covered in the Engine operation section of course.

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