

Virginia Western Community College
AUT 266
Automotive Alignment, Suspension & Steering

Prerequisites

None

Course Description

Introduces use of alignment equipment in diagnosing, adjusting, and repairing front and rear suspensions. Deals with repair and servicing of power and standard steering systems.

Semester Credits: 4 Lecture Hours: 1 Lab/Clinical/Internship Hours: 6

Required Materials**Textbook:**

Fundamentals of Automotive Technology, Principles, and Practice, 3rd Edition, ISBN: 978-1-284-230352

Other Required Materials:

- Safety Glasses
- Closed-toe shoes
- Publisher's online material
- ASE Online Prep Tests

Course Outcomes

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

- Explain & discuss the construction of steel and alloy wheels
- Demonstrate lug tightening procedures and torque
- Discuss and identify components in the construction of tires
- Demonstrate the repair & balancing of tires
- List and describe the various components of the steering and suspension systems
- Repair and/or replace parts in a steering and/or suspension systems
- Diagnosis and adjust alignment problems

Topical Description

Suspension and Steering

Wheels and Tires Theory

Servicing Wheels and Tires

Steering System Theory

Servicing the Steering System

Suspension System Theory

Servicing the Suspension System

Wheel Alignment

Notes to Instructors

- Practical exam is given on week 16
- ASE online testing