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:
CDX Automotive textbook with Light Vehicle Online 2yr Access. ISBN#: 9781284059465.

Other Required Materials:
- Safety Glasses
- Closed-toe shoes
- CDX Automotive Interactive CD
- 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
- 70% of students completing AUT 266 will demonstrate how to diagnose, adjust, and repair front and rear suspensions by receiving a score of 70% or higher on the ASE student certification test on suspension and steering or the final exam

Topical Description

Section XII   Suspension and Steering
Chapters   Title
109   Tires & Wheels
110   Tire Pressure Monitoring
111   Tire & Wheel Service
112   Suspension Systems Principles &Components
113   Front Suspensions and Service
114   Rear Suspension and Service
115   Electronic Suspension Systems
116   Steering Columns and Gears
117   Steering Linkage and Service
118   Power Steering Operation
119   Wheel Alignment Principles
120   Alignment and service

Notes to Instructors

- CDX online testing should be completed by week 15
- Practical exam is given on week 16
- ASE online testing
- Electronic tire monitoring system integration will be discussed in the on-line computer classes