

Revised Fall 2015

AUT 266

Auto Alignment, Suspension, and Steering

COURSE OUTLINE

Prerequisites:

NONE

Course Description:

[Auto Alignment, Suspension and Steering](#) 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/Recitation Hours: 6

VIRGINIA WESTERN COMMUNITY COLLEGE
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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 Test A4

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Required Materials:

Safety glasses sturdy closed shoes CDX Automotive Interactive 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. Publisher's online material
2. ASE online test preparation material

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

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

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Notes to Instructors

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

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

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