

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: AUT 268

Credits: 2

Course Title: Automotive Alignment

Course Description (including lecture hours, lab hours, total contacts)

Studies use of alignment equipment in diagnosing, adjusting, and repairing suspension problems. Lecture 1 hour. Prerequisite: AUT 267. Laboratory 3 hours. Total 4 hours per week.

General Course Purpose

To examine the operation of automotive alignment equipment and the service of suspension systems commonly found on cars and light trucks. Safety will be emphasized.

Course Prerequisites/Corequisites (*Entry-level competencies **required** for enrollment*)

Prerequisite: AUT 267

Course Objectives (Each item should complete the following sentence.)

Upon completing the course, the student will be able to:

- a. Identify the cause of abnormal vehicle handling such as pulling, wandering, hard steering, or poor return ability
- b. Demonstrate the measurement of camber, caster, SAI, toe-out on turns, and toe
- c. Demonstrate adjustment of front and rear alignment angles
- d. Produce completed ASE task sheets included in the syllabus
- e. Demonstrate ASE tasks relating to wheel alignment diagnosis, adjustment and repair

Major Topics to be Included

- a. Front Suspension Types
- b. Rear Suspension Types
- c. Tires and Wheels
- d. Springs and Shock Absorber Service
- e. Steering System Service
- f. Wheel Alignment Measuring and Adjustment
- g. Electronic Suspension systems

Effective Date of Course Content Summary (Month, Date Year): April 1, 2009