

Course Objectives/Course Outline
Spokane Community College

Course Title: Mechanical Components

Prefix and Course Number: ABF 124

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Identify the mechanical components of a variety of car types
- Identify the structural components of variety of car types
- Differentiate between conventional and rack and pinion steering and between conventional and strut types
- Remove and replace a variety of suspension systems
- Classify the various types of energy absorbers
- Demonstrate safety precautions

Course Outline:

- I. Energy Absorbers
 - A. Bumper Shock Absorbers
 - B. Typical Energy Absorbers
 - C. Spring-loaded Bumper Shocks
 - D. Bonded Isolator
- II. Mechanical Systems
 - A. Front-wheel Drive
 - B. Conventional Steering
 - C. Rack and Pinion Steering
 - D. Conventional Steering Systems
 - E. MacPherson Struts
 - F. Front-wheel Alignment
 - G. Four-wheel Alignment
 - H. CV Joints
- III. Cooling Systems
 - A. Parts Identification
 - B. Repair Procedures