

**Spokane Community College
Course Learning Outcomes and Outline**

Course Title: Application of Suspension & Steering

Prefix and Course Number: 132

Course Learning Outcomes:

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

- Diagnose and repair tires and wheels
- Diagnose and repair wheel alignment
- Diagnose and repair suspension systems
- Diagnose and repair front and rear suspension
- Diagnose and repair electronic suspension
- Diagnose and repair steering column and gears systems

Course Outline:

Tires & Wheels:

- Rotate and balance properly
- Repair and replace Tire-Pressure Monitoring Systems

Wheel Alignment:

- Learn to use electronic alignment equipment and perform adjustments.
- Diagnosis and repair

Suspension Systems:

- Inspect, service, and repair

Front & Rear Suspension:

- Diagnosis, Service & Repair.
- Show safety when working with spring and their energy under load.

Electronic Suspension:

- Diagnosis, Service & Repair.
- Show how to safely work with these suspensions.

Steering Column & Gears:

- Diagnosis, service and repair steering gear and their steering linkages.
- Diagnosis, service and repair rack-and-pinion and linkage
- Diagnosis, service and repair hydraulic and electrical sower steering systems