

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

Course Title: Application of Brake System

Prefix and Course Number: 112

Course Learning Outcomes:

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

- Diagnose and repair brakes systems including drum, disc, and parking brakes
- Diagnose and repair master cylinders and brake hydraulic
- Show how to machine drums and rotors
- Diagnose and repair power braking
- Diagnose and repair ABS, stability control and traction control systems
- Diagnose and repair hybrid brake systems

Course Outline:

Brake systems:

- Diagnose, service and repair drum brakes
- Diagnose, service and repair disc brakes
- Diagnose, service and repair antilock brake
- Diagnose, service and repair parking brake system

Master cylinder and hydraulic system:

- Diagnose, service and repair hydraulic fluid, lines, valves and switches
- Show how to perform brake bleeding methods

Machining:

- Show understanding of how-to setup and turn drum and rotors
- Show how to use on the car rotor lathe

Power Brake:

- Diagnose, service and repair vacuum and hydraulic brake booster

ABS, Traction Control & Stability Control:

- Diagnose, service and repair these three systems

Hybrid