

_____ SOUTH SEATTLE COMMUNITY COLLEGE _____

Technical Education Division

COURSE OUTLINE

Revision: S. Ford February 2012

DEPARTMENT:	Automotive Technology
CURRICULUM:	Auto Body Collision Repair
COURSE TITLE:	Steering & Suspension
COURSE NUMBER:	ABR 181
TYPE OF COURSE:	Vocational Preparatory
COURSE LENGTH:	4 weeks
CREDIT HOURS:	6
LECTURE HOURS:	20
LAB HOURS:	80
CLASS SIZE:	20
PREREQUISITES:	None

COURSE DESCRIPTION:

This module instructs students in identifying and diagnosing tire and wheel steering, rack and pinions steering, power steering suspension, strut type, and problems in steering and suspension systems.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Critical Thinking and problem solving - Thinking critically in evaluating information, solving problems and making decisions.
2. Technology - Select and use appropriate technological tools.
3. Personal Responsibility - Take pride in one's work and be motivated to continue learning and adapt to change.

ABR 181 Steering & Suspension

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Understand safety practices using mechanical equipment.
2. Effectively diagnose tire and wheel alignment problems and identify appropriate correction methods.
3. Demonstrate and identify various steering systems.
4. Properly identify a caster, camber and toe alignment.
5. Explain proper methods of realignment of front and rear wheels.

TOPICAL OUTLINE:

APPROX. HOURS

I.	Course requirements and grading	2
II.	Tires and services	8
III.	Steering system problems	10
IV.	Diagnose parallelogram	10
V.	Front and rear suspension	10
VI.	Front strut suspension system	10
VII.	Wheel alignment, angles and measurement	10
VIII.	Steering angles	10
IX.	Front wheel alignment and adjustment	10
X.	Rear wheel alignment angles	10
XI.	Service adjustable suspension	<u>10</u>
	Total	100

REVISED BY: Steve Ford
DATE: February 2012