



AUTO 1237: Suspension Systems

EFFECTIVE DATE

DEPARTMENT

Automotive Service Technician
DESCRIPTION

This course covers principles of operation, diagnosis, service and repair of suspension systems and frames. Topics include frame types, suspension geometry, suspension components, and electronic suspension systems. This course is part of the full-time Automotive Service Technician Foundation Program.

CREDITS

3.5

YEAR OF STUDY

1st Year Post-secondary

PREREQUISITES

None

COREQUISITES

None

COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Describe unit body frame design
- Describe conventional frame design
- Describe suspension types
- Describe suspension dynamics
- Describe common automotive spring designs
- Describe the construction and operation of shock absorbers and struts
- Describe suspension components, design and construction
- Remove, replace and adjust suspension systems
- Diagnose suspension system problems

PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)

None

HOURS

Lecture: 35.42

Other: 52.08

INSTRUCTIONAL STRATEGIES

Classroom activities are lectures, demonstrations, audio-visual presentations and exercises. Practical experience takes place in an active shop setting. The extensive workshop experience provides reinforcement of theoretical concepts, develops hand skills, and familiarity with repair procedures, electronic equipment and standard safety procedures. All modules are designed to enable the student to work independently and in groups.

GRADING SYSTEM

Letter Grade (A-F)

PASSING GRADE

B-

EVALUATION PLAN

Type	Percentage	Assessment activity
Quizzes/Tests	40	Students are given multiple choice quizzes and tests throughout the course to assess their theoretical knowledge
Lab Work	60	Practical knowledge and skills are evaluated in the shop while students are working on training aids and customer vehicles.
Lab Work		

COURSE TOPICS

- Body frames
- Suspension systems and types
- Shock absorbers and struts
- Suspension systems
- Electronic suspension systems

LEARNING RESOURCES

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

Broadway campus

1155 East Broadway
Vancouver, B.C. Canada
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Downtown campus

250 West Pender Street
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