

Clackamas Community College
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Section #1 General Course Information

Department: AutomotiveTechnology: Auto Body

Submitter

First Name: Dave

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Course Prefix and Number: AB - 222

Credits: 6

Contact hours

Lecture (# of hours):

Lec/lab (# of hours): 132

Lab (# of hours):

Total course hours: 132

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Collision Repair III/Advanced Structural

Course Description:

Major collision repair, with a systems approach: frame and structure, panels, suspension and brakes, electrical and cooling systems. Emphasis on frame and Unibody repair, replacement of welded body panels, and diagnosis and repair of related damage.

Type of Course: Career Technical Preparatory

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s): Collision Repair and Refinishing Technology AAS Degree & Career Pathway Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: AB-133

Have you consulted with the appropriate chair if the pre-req is in another program?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

No

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

- ✓ Fall
- ✓ Winter
- ✓ Spring

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

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

1. demonstrate skill in major body repair,
2. demonstrate frame and Unibody repair,
3. demonstrate suspension component replacement,
4. demonstrate electrical system component diagnosis and replacement.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Major Body Repairs.
 - a. Major body alignment diagnosis and alignment.
 - b. Theory of major section splices.
 - c. Detailing, sealing, and undercoating of repaired areas.
2. Frame Repair – Unibody.
 - a. Diagnosis and repair of severe frame damage.
 - b. Theory of frame members replacement.
 - c. Correct hook-up and pulling techniques.
 - d. Theory of frame splicing and reinforcement.
 - e. Correcting appearance of repaired frame areas.
3. Suspension, Steering, and Brakes.
 - a. Suspension systems- independent.
 - a1. Short and long arm (a-frame).
 - a2. Strut.
 - a3. Twin I-Beam.
 - b. Suspension Systems, non-independent.
 - c. Steering Systems.
 - c1. Parallelogram.
 - c2. Rack and Pinion.
 - d. Power Steering Systems and their components.
 - e. Brake Systems.
 - e1. Components.

- e2. A.B.S.
- 4. Electrical Components.
 - a. Electrical Circuits.
 - a1. Fundamentals.
 - a2. Circuits.
 - a3. Measurement.
 - b. Components and Troubleshooting.
 - b1. Circuit Protection.
 - b2. Connectors.
 - b3. Wiring Repairs.
 - c. Information Resources.
 - e. Power Accessories.
 - e. Restraint Systems.
 - e1. Seat Belts.
 - e2. Air Bags.
- 5. Plastic Repair.
 - a. Chemical bonding.
 - b. Smoothing and sanding.
 - c. Bumper Repairs.

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|-----------|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | No |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course: 0%

First term to be offered:

Next available term after approval

:
