# **Clackamas Community College**

## Online Course/Outline Submission System



## **Section #1 General Course Information**

**Department:** Automotive

Submitter

First Name: Dave Last Name: Bradley Phone: 3051 Email: bradleyd

Course Prefix and Number: AB - 113A

# Credits: 6

**Contact hours** 

Lecture (# of hours): Lec/lab (# of hours): 120

Lab (# of hours):

Total course hours: 120

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 I/Nonstructural

## Course Description:

Provides basic instruction in collision repairs, including shop safety and chemical hazard safety; proper and safe use of tools; basic metal work and finishing; use of filler; door removal, replacement and alignment; and replacement and alignment of bolt-on front end sheet metal parts. For high school students.

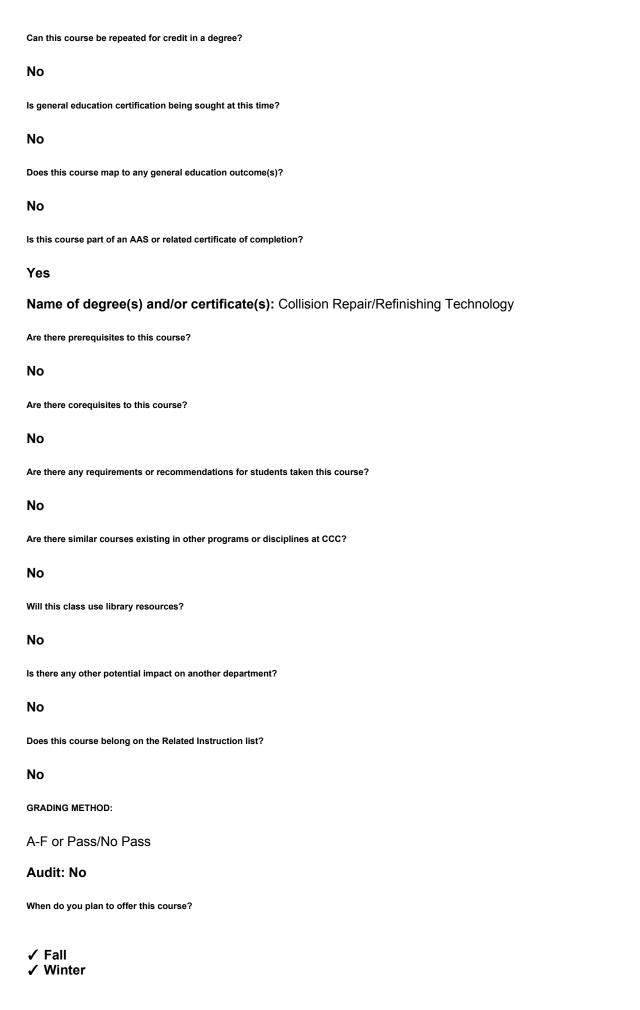
Type of Course: Career Technical Preparatory

Reason for the new course:

College course for high school students

Is this class challengeable?

No



## ✓ 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?

#### No

Will this course appear in the schedule?

#### No

**Student Learning Outcomes:** 

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

- 1. understand and practice proper shop safety,
- 2. select and utilize appropriate worker protection,
- 3. use tools properly,
- 4. perform basic metal work and finishing processes,
- 5. demonstrate metal and plastic filler repair,
- 6. removal, replacement and alignment of bolt-on sheet metal components.

This course does not include assessable General Education outcomes.

### **Major Topic Outline:**

- 1. Shop orientation.
- 2. Worker protection.
- 3. Tool introduction including selecting and safety using:
- 3a. hand tools,
- 3b. power tools,
- 3c. grinders,
- 3d. jacks and stands,
- 3e. hoists,
- 3f. welding equipment,
- 3g. car care.
- 4. Fire prevention.
- 5. Shop safety.
- 6. Fire extinguishers.
- 7. Introduction to metal work.
- 7a. types of dents,
- 7b. dents on high and low crown contours,
- 7c. rough out procedures,
- 7d. on and off dolly hammering,
- 7e. body spoons, picks and bars, and dent pullers,
- 7f. heat shrinking,
- 7g. cold shrinking,
- 7h. metal finishing with pick and file,
- 7i. welding and forging of patches and seams.
- 8. Introduction to plastic filler.
- 8a. preparation of metal for plastic application,

- 8b. abrasives for grinding and finishing,
- 8c. mixing,
- 8d. application,
- 8e. finishing.
- 9. Introduction to doors, door glasses and components.
- 9a. door upholstery and related component removal and replacement,
- 9b. door glass, regulator, stops, and latch component disassembly and replacement,
- 9c. removal and replacement of doors and hinges,
- 9d. door and related parts alignment,
- 9e. watershield and weatherstrip installation,
- 9f. leak testing.
- 10. Front end sheet metal.
- 10a. bumper removal replacement and alignment,
- 10b. grill and gravel deflector removal, replacement and alignment,
- 10c. fender and inner panel removal, replacement and alignment,
- 10d. hood hinge and hood latch removal, replacement and alignment,
- 10e. core support and radiator removal, replacement and alignment.

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

Increased energy efficiency
Produce renewable energy
Prevent environmental degradation
Clean up natural environment
Supports green services

Percent of course: 0%

First term to be offered:

### Next available term after approval

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