
Auto Body Repair – Syllabus

Instructor: Clifton Lee

School: Campbell County Technical Center

Course Duration:

One Semester / Full Year

Grade Levels:

10–12

Prerequisite:

None

Course Description

This course provides students with foundational knowledge and hands-on experience in the field of auto body repair. Students will learn about safety, tools and equipment, minor body repairs, surface preparation, painting techniques, and detailing. Emphasis is placed on safety, teamwork, and the skills needed for entry-level employment or further study in the auto collision industry.

Course Objectives

Students will:

- Demonstrate proper shop safety and use of PPE.
- Identify and use basic auto body tools and equipment.
- Perform minor metal straightening and dent repairs.
- Apply body filler and sand surfaces correctly.
- Understand and perform basic paint prep and masking.
- Use spray guns and apply primer/paint (as allowed by school policy)
- Demonstrate proper clean-up and detailing techniques.
- Explore career pathways in collision repair.

Units of Study

Week	Topic	Focus Areas
1	Orientation & Safety	Shop rules, PPE, fire safety, OSHA, MSDS
2	Tool Identification & Use	Hand tools, power tools, maintenance
3	Vehicle Construction & Damage Analysis	Frame types, damage evaluation
4–5	Dent Repair & Metal Straightening	Hammer/dolly, pullers, heat shrinking
6–7	Body Filler Application	Mixing, applying, sanding techniques
8	Surface Prep & Priming	Sanding, feather edging, priming
9–10	Masking & Painting Basics	Tape techniques, basic paint theory
11	Spray Gun Operation	Spray patterns, gun setup, safety
12	Detailing & Reassembly	Buffing, polishing, panel install
13	Estimating Basics	Reading damage reports, writing estimates
14	Career Readiness	Resume building, ASE info, guest speakers
15–16	Final Project & Assessment	Panel repair, group projects, tests

Grading Policy

Component	Percentage
Class Participation / Attendance	20%
Safety & Procedures	15%
Hands-On Skills / Lab Work	35%
Quizzes & Tests	15%
Final Project / Exam	15%

Required Materials

- Safety glasses (ANSI approved)
 - Closed-toe shoes (steel toe preferred)
 - Notebook or binder
 - Pen/pencil
 - Optional: work shirt/coveralls
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Classroom Expectations

- Always follow safety rules
- Respect tools, equipment, and others.

- Complete all clean-up duties.
 - Participate actively in both classroom and shop.
 - Cell phones not permitted during shop time.
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Certifications (if applicable)

- SP/2 Safety Certification
 - OSHA 10 (optional)
 - Introduction to ASE Student Certification Pathway
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