

# AUTO BODY/COLLISION REPAIR (AB)

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## **AB-101 Auto Restoration**

3 credits, Fall/Winter/Spring/Summer

Designed for students interested in auto body repair and painting their own vehicles. Includes dent removal, panel replacement, welding and painting. May be repeated for up to 12 credits.

## **AB-105 Street Rod Construction Techniques**

3 credits, Fall/Winter/Spring/Summer

In this course, students will learn panel forming, welding, basic body work and repair of their own classics and special interest cars. Includes shop safety, chemical hazard safety, proper and safe use of tools, basic metal work and finishing, and paint preparation and application. May be repeated for up to 12 credits.

## **AB-112 Collision Repair Welding I**

2 credits, Fall/Winter/Spring

This class focuses on auto collision damage repair. Emphasis is on Metal Inert Gas (MIG), Gas Metal Arc Welding (GMAW), welding on light gauge metals, and oxygen-acetylene cutting.

## **AB-113 Collision Repair I/Nonstructural**

6 credits, Fall/Winter/Spring

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.

Prerequisite or Corequisite: AB-112 and ABR-125

## **AB-123 Collision Repair Welding II**

2 credits, Fall/Winter/Spring

Training in light gauge metal repair: Gas Metal Arc Welding (GMAW), Plasma Arc Cutting (PAC), Squeeze Type Resistance Spot Welding (ST-RSW), and other advanced welding techniques specific to collision damage repair.

Prerequisites: AB-112

## **AB-133 Collision Repair II/Structural**

6 credits, Fall/Winter/Spring

Repair major body damage using modern frame repair equipment. Includes repair and replacement of bolt-on, bonded, and welded components using the latest technology. Includes introduction to computerized measuring and damage analysis.

Prerequisites: AB-113

## **AB-149 Collision Repair Estimating I**

2 credits, Fall

This course provides instruction in procedure and terminology used in the collision repair estimating field. Body part component identification and the effects of a collision on a vehicle will be studied.

## **AB-150 Collision Repair Computerized Estimating - Audatex**

2 credits, Winter

Provides detailed instruction in the use of modern computerized estimating systems in the collision repair field. Focus is on Audatex software.

Prerequisites: AB-149

## **AB-151 Collision Repair Computerized Estimating - CCC ONE**

2 credits, Spring

Provides detailed instruction in the use of modern computerized estimating systems in the collision repair field. Focus is on CCC ONE software.

Prerequisites: AB-149

## **AB-222 Collision Repair III/Advanced Structural**

6 credits, Fall/Winter/Spring

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.

Prerequisites: AB-133

## **AB-224 Collision Repair IV/Advanced Structural**

6 credits, Fall/Winter/Spring

Advanced frame and Unibody repair procedures. Electronic measurement and dimensioning, repair documentation, brakes, suspension, and alignment as they relate to collision repair.

Prerequisites: AB-222

## **AB-226 Collision Repair V/Advanced Structural**

6 credits, Fall/Winter/Spring

Uses the latest high quality, productive techniques and equipment to repair vehicles to pre-collision condition. Covers the refined collision repair processes for today's workplace.

Prerequisites: AB-224

## **AB-235 Collision Repair Welding III**

2 credits, Fall/Winter/Spring

Aluminum welding for collision damage repair. Gas Metal Arc Welding (GMAW) and Gas Metal Arc Welding (GMAW) on silicon bronze are learned, along with related welding techniques and equipment/safety procedures.

Prerequisites: AB-123

## **AB-280 Collision Repair/CWE**

2-6 credits, Fall/Winter/Spring

Cooperative work experience. Work-based learning experience in an auto body repair shop. Required: Student Petition.

Corequisites: CWE-281