

## Definition

Auto Body is a vocational program designed to provide pre-employment instruction in the manipulative skills and technical knowledge of modern auto body shop procedures.

### Staff

*Please dial (661) 722-6300, then the 4 digit extension.*

#### Division:

Dr. Maria Clinton, Dean	x.6327
Mari-Ali Baiza, Administrative Assistant	x.6327
Leyla Recinos, Clerical Assistant III	x.6327
Joe Owens, Department Chair	x.6508

#### Faculty:

Timothy Sturm	x.6146
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#### Instructional Assistant:

Pedro Mejia	x.6275
Sherif Sallam	x.6023

#### Adjunct Faculty:

Alan Finch	V.M. 2309
Tony Pustizzi	2034

## Program Description

The program has three main components: 1) auto collision repair; 2) automotive refinishing; and 3) a combination of both, which is highly recommended.

Students must receive a minimum grade of "C" or better in all required core courses and the specific courses listed as program electives in order to qualify for the degree or certificate.

## Distinctive Features

In a facility and with equipment closely resembling today's modern auto body repair shop, students are trained on actual collision-damaged vehicles and engage in industry-like procedures that range from estimating damage through collision repair, refinishing, and detail for delivery.

## I-CAR Certified Program

AVC has been certified as an Inter-Industry Conference on Automotive Collision Repair (I-CAR) alliance school. Students who successfully complete the program will be able to carry industry certifications.

## Career Options

Auto Body Assistant	Shop management
Auto Paint Assistant	Small Auto Body Repair
Estimator	Shop Owner

## Program Learning Outcomes

### Automotive Collision Repair Specialist

1. Analyze, evaluate, and apply critical aspects of the collision repair industry related to safe work practices, standards and tolerances, standard employer practices. Proper use of tools, power equipment, hazardous materials and personal protective equipment.
2. Use oxyacetylene, MIG (metal inert gas) and plasma arc welding/cutting equipment to join automotive sheet metal/structural panels in a variety of joints/configurations common to automobile body construction.
3. Evaluate, analyze and repair damaged automotive body panels/structures using body solder, fiberglass and plastic composite materials.

### Automotive Refinishing Specialist

1. Analyze, evaluate, and apply critical aspects of the collision repair industry related to safe work practices, standards and tolerances, standard employer practices. Proper use of tools, power equipment, hazardous materials and personal protective equipment.
2. Use, read and properly interpret standard specifications for production-type spray equipment, coating materials, masking materials and color matching procedures.
3. Evaluate, analyze, and prepare, mask and spray automotive panel(s) using current technology paint coatings to industry standards.
4. Evaluate, analyze, color-sand and final detail a vehicle for customer delivery to industry standard.

## Certificate Programs

### Automotive Collision Repair Specialist

Required Courses (30 units):	units
ABDY 115, Basic Auto Body Repair <i>or</i>	
ABDY 112 <i>and</i> 113, Basic Auto Body Repair**	10
ABDY 125, Basic Automotive Refinishing <i>or</i> ABDY 122	
<i>and</i> 123, Basic Automotive Refinishing and Automotive Refinishing**	10
ABDY 215, Advanced Collision Repair <i>or</i> ABDY 212	
<i>and</i> 213, Advanced Collision Repair I and II**	10
<b>Total</b>	<b>30</b>

### Automotive Refinishing Specialist

Required Courses (30 units):	units
ABDY 115, Basic Auto Body Repair <i>or</i>	
ABDY 112 <i>and</i> 113, Basic Auto Body Repair	10
ABDY 125, Basic Automotive Refinishing <i>or</i> ABDY 122	
<i>and</i> 123, Basic Automotive Refinishing and Automotive Refinishing**	10
ABDY 225, Adv. Automotive Refinishing <i>or</i> ABDY 222	
<i>and</i> 223, Advanced Automotive Refinishing I and II**	10
<b>Total</b>	<b>30</b>

\*\*These courses are intended for night students.

*For a recommended plan of study, please refer to the Associate Degree plan minus the general education requirements.*

### Automotive Collision Repair and Refinishing Specialist

A certificate in Automotive Collision Repair and Refinishing Specialist may be earned by completing the requirements for the Automotive Collision Repair Specialist and the Automotive Refinishing Specialist. Duplicate courses need only be taken once. **The requirements for an associate degree may be satisfied by completing the certificate requirements in addition to the associate degree requirements.**

### ASE Certification

Two years of work experience as a technician in auto body repair or painting are required for the National Institute for Automotive Service Excellence (ASE) certificate. Completion of the Automotive Collision Repair and Refinishing Specialist certificate may be counted as one year of work experience.

## Associate Degree

The requirements for an associate degree in Auto Body may be satisfied by completing 30 units of required courses in any of the certificate programs, 21 units of general education requirements, and sufficient elective credits to total 60 units. (See Graduation/Associate Degree Requirements.)

Students who complete the associate degree have enhanced employability in the field of the auto collision industry. They have enhanced promotional opportunities as a cost estimator, insurance adjuster or shop supervisor. The associate degree will also provide students with a broad range of knowledge with which to evaluate and appreciate the physical environment, the culture, and the society in which they live and with the ability to think and communicate clearly and effectively.

Except in cases of a prerequisite requirement, it is not required to take courses in exactly this sequence; they are recommended in this order to facilitate success.

### Automotive Collision Repair Specialist

Except in cases of a prerequisite requirement, it is not required to take courses in exactly this sequence; they are recommended in this order to facilitate success.

#### *Recommended Plan of Study*

<b>*First Semester</b>	<b>units</b>
ABDY 115, Basic Auto Body Repair <i>or</i>	
ABDY 112 <i>and</i> 113, Basic Auto Body Repair**	10
GE requirement Area A	3
GE requirement Area D1	3
<b>Total</b>	<b>16</b>

<b>*Second Semester</b>	<b>units</b>
ABDY 125, Basic Automotive Refinishing <i>or</i> ABDY 122	
<i>and</i> 123, Basic Automotive Refinishing and Automotive Refinishing**	10
GE requirement Area D2	3
GE requirement Area E	3
<b>Total</b>	<b>16</b>

<b>Third Semester</b>	<b>units</b>
ABDY 215, Adv. Collision Repair <i>or</i> ABDY 212 <i>and</i>	
213, Adv. Collision Repair I and II**	10
GE requirement Area B	3
Electives	3
<b>Total</b>	<b>16</b>

<b>Fourth Semester</b>	<b>units</b>
GE requirement Area C	3
GE requirement Area F	3
Electives	6
<b>Total</b>	<b>12</b>
<b>Degree Total</b>	<b>60</b>

\* Students may begin the program with either first or second semester classes.

Semester class order completion time may vary for night students.

## Automotive Refinishing Specialist

Except in cases of a prerequisite requirement, it is not required to take courses in exactly this sequence; they are recommended in this order to facilitate success.

#### *Recommended Plan of Study*

<b>*First Semester</b>	<b>units</b>
ABDY 125, Basic Automotive Refinishing <i>or</i> ABDY 122	
<i>and</i> 123, Basic Automotive Refinishing and Automotive Refinishing**	10
GE requirement Area A	3
GE requirement Area D1	3
<b>Total</b>	<b>16</b>

<b>*Second Semester</b>	<b>units</b>
ABDY 115, Basic Auto Body Repair <i>or</i>	
ABDY 112 <i>and</i> 113, Basic Auto Body Repair**	10
GE requirement Area B	3
GE requirement Area D2	3
<b>Total</b>	<b>16</b>

<b>Third Semester</b>	<b>units</b>
ABDY 225, Adv. Automotive Refinishing <i>or</i> ABDY 222 <i>and</i>	
223, Advanced Automotive Refinishing I and II**	10
GE requirement Area E	3
Electives	3
<b>Total</b>	<b>16</b>

<b>Fourth Semester</b>	<b>units</b>
GE requirement Area C	3
GE requirement Area F	3
Electives	6
<b>Total</b>	<b>12</b>
<b>Degree Total</b>	<b>60</b>

\* Students may begin the program with either first or second semester classes.

*Semester class order completion time may vary for night students.*

## Transfer

Not a transfer major.

## Prerequisite Completion

All prerequisite courses must be completed with a satisfactory grade in order to enroll in the next course. According to Title 5, Section 55200(d), a satisfactory grade is a grade of "A," "B," "C" or "P". Classes in which the Pass/No Pass option is available are indicated with an asterisk (\*) before the course title. See "Pass/No Pass Option" in the catalog for full explanation.

### Auto Body Courses

#### **ABDY 112 \*BASIC AUTO BODY REPAIR**

*5 units*

*10 hours weekly [2.5 lecture, 7.5 lab]*

Intended for students interested in the collision repair industry. Introductory to intermediate topics will be covered. Topics will include safety, auto body equipment, basic auto body techniques, corrosion protection, and proper use of tools and equipment. (AVC)

**ABDY 113 \*BASIC AUTO BODY REPAIR**

5 units

10 hours weekly [2.5 lecture, 7.5 lab]

**Prerequisite:** Completion of ABDY 112.

A continuation of ABDY 112 with instruction and practice in resistance and Metal Inert Gas (MIG) welding on automotive panels; panel replacement and alignment; servicing vehicle doors and door glass; modern auto body construction. (AVC)

**ABDY 115 \*BASIC AUTO BODY REPAIR**

10 units

20 hours weekly [5 lecture, 15 lab]

Intended for students interested in the collision repair industry. Introductory to intermediate topics will be covered. Topics will include: Safety, auto body equipment, basic auto body techniques, corrosion protection, proper use of tools and equipment. Completion of ABDY 115 is equivalent to the completion of both ABDY 112 and ABDY 113. (AVC)

**ABDY 122 \*BASIC AUTOMOTIVE REFINISHING**

5 units

10 hours weekly [2.5 lecture, 7.5 lab]

Intended for students interested in automotive refinishing techniques. Introductory to intermediate topics will be covered. Topics will include: safety, refinishing equipment, basic preparation and painting techniques, corrosion protection, and proper use of tools and equipment. (AVC)

**ABDY 123 \*AUTOMOTIVE REFINISHING**

5 units

10 hours weekly [2.5 lecture, 7.5 lab]

**Prerequisite:** Completion of ABDY 122.

Intended for students interested in automotive refinishing techniques. Introductory to intermediate topics will be covered. Topics will include: safety, refinishing equipment, basic preparation and painting techniques, corrosion protection, and proper use of tools and equipment. (AVC)

**ABDY 125 \*BASIC AUTOMOTIVE REFINISHING**

10 units

20 hours weekly [5 lecture, 15 lab]

Intended for students interested in automotive refinishing techniques. Introductory to intermediate topics will be covered. Topics will include: safety, refinishing equipment, basic preparation and painting techniques, corrosion protection, proper use of tools and equipment. Completion of ABDY 125 is equivalent to the completion of both ABDY 122 and ABDY 123. (AVC)

**ABDY 199 \*OCCUPATIONAL WORK EXPERIENCE**

1–8 units

hours vary

**Prerequisite:** To participate in work experience, students must have a job or internship which is either paid or voluntary and have the approval of the supervisor and instructor supervising work experience in the specific subject area. **PRIOR TO ENROLLING**, students must attend a scheduled orientation or meet individually with the supervising instructor for an individual orientation.

Occupational Work Experience Education is supervised employment designed to provide students a realistic learning experience through work. The ultimate goal is to teach students those skills and attitudes that will equip them to function and adapt as an employee in a variety of situations and jobs. Occupational Work Experience Education is supervised employment extending classroom-based occupational learning at an on-the-job learning station related to the student's educational major or occupational goal. Credit may be accrued at the rate of one to eight units per semester. For the satisfactory completion of all types of Cooperative Work Experience Education (WE 197 and WE 199), students may earn up to a total of sixteen semester credit hours. (AVC) (R3)

**ABDY 212 \*ADVANCED AUTOMOTIVE COLLISION REPAIR I**

5 units

10 hours weekly [2.5 lecture, 7.5 lab]

**Prerequisite:** Completion of ABDY 113 or ABDY 115.

An advanced course in the theory and techniques of automotive collision repair. Course of study includes: resistance and Metal Inert Gas (MIG) welding of automotive sheet metals and structural members and an introduction to the repair of major collision damage. (AVC)

**ABDY 213 \*ADVANCED AUTOMOTIVE COLLISION REPAIR II**

5 units

10 hours weekly [2.5 lecture, 7.5 lab]

**Prerequisite:** Completion of ABDY 212.

An advanced course in the theory and techniques of automotive collision repair. Course of study includes: conventional and unitized frame repair and repair systems; replacement of automotive glass, trim, and moldings, and repair of major collision damage. (AVC)

## **ABDY 215 \*ADVANCED AUTOMOTIVE COLLISION REPAIR**

*10 units*

*20 hours weekly [5 lecture, 15 lab]*

**Prerequisite:** *Completion of ABDY 115.*

A continuation of ABDY 115. Intermediate to advanced automotive collision repair techniques will be covered. Topics will include: shop safety, Metal Inert Gas (MIG) welding, vehicle designs, frame designs, measuring structural damage, and suspension alignment. Completion of ABDY 215 is equivalent to the completion of both ABDY 212 and ABDY 213. (AVC)

## **ABDY 222 \*ADVANCED AUTOMOTIVE REFINISHING I**

*5 units*

*10 hours weekly [2.5 lecture, 7.5 lab]*

**Prerequisite:** *Completion of ABDY 123 or ABDY 125.*

An advanced course in the theories and techniques of automotive refinishing. Course of study to include: shop equipment, estimating collision damage, spot panel, and sectional refinishing of automotive surfaces; color tinting, color matching and blending of automotive paints. (AVC)

## **ABDY 223 \*ADVANCED AUTOMOTIVE REFINISHING II**

*5 units*

*10 hours weekly [2.5 lecture, 7.5 lab]*

**Prerequisite:** *Completion of ABDY 222.*

Intended for students who are continuing their studies in automotive refinishing techniques. Intermediate to advanced topics will be covered. Topics will include: spot, panel, and complete refinishing of automotive surfaces; color tinting and color matching of automotive paints; prevention and cure of paint problems; final detailing of vehicle paint finishes. (AVC)

## **ABDY 225 \*ADVANCED AUTOMOTIVE REFINISHING**

*10 units*

*20 hours weekly [5 lecture, 15 lab]*

**Prerequisite:** *Completion of ABDY 125.*

Intended for students who are continuing their studies in automotive refinishing techniques. Intermediate to advanced topics will be covered. Topics will include: spot, panel, and complete refinishing of automotive surfaces; color tinting and color matching of automotive paints; prevention and cure of paint problems; final detailing of vehicle paint finishes. Completion of ABDY 225 is equivalent to the completion of both ABDY 222 and ABDY 223. (AVC)