AUTO COLLISION REPAIR TECHNOLOGY

CAREER AND PROGRAM DESCRIPTION
Collision repair technicians possess the skills as outlined and recommended by I-CAR (Inter-Industry Conference on Auto Collision Repair) to return a collision damaged vehicle to its pre-accident condition. Among these skills are metal working, welding, mechanical, electrical, air conditioning, plastic repair, shaping and forming fillers, structural analysis and repair, and four wheel suspension alignment.

DEGREES AND CERTIFICATES OFFERED
ASSOCIATE OF APPLIED SCIENCE DEGREE
Auto Collision Repair Technology
TWO-YEAR CERTIFICATE
Auto Collision Repair Technology
LESS THAN ONE-YEAR CERTIFICATE
Auto Body Painting
Auto Collision Repair Technology

Academic Prerequisites
• None

Academic Requirements
• None

Non-Academic Prerequisites
• None

Non-Academic Requirements
• None

AUTO COLLISION REPAIR TECHNOLOGY AAS DEGREE
Minimum 90 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of sixteen credits of General Education. Math/computation competency is met through the courses in the program of study indicated with a § symbol. Students should consult with program advisors for course planning.

COURSE OF STUDY
The coursework listed below is required. The following is an example of a term-by-term breakdown.

First Term
AB 100§ Auto Body Basic Skills 12
Second Term
AB 105§ Frame Analysis & Repair 12
Third Term
AB 106§ Panel Repair 12
General Education 4
Fourth Term
AB 201§ Panel Replacement 12
General Education 4
Fifth Term
AB 205§ Technical Skills and Collision Repair 12
WLD 211 Auto Collision Repair Welding Aluminum 2
General Education 4
Sixth Term
AB 280A Cooperative Education: Auto Body Repair 10
AB 280B Cooperative Education: Auto Body Repair - Seminar 2
General Education 4
Total Credits: 90

§ Course contains Related Instruction and cannot be substituted with another course.

TWO-YEAR CERTIFICATE
Auto Collision Repair Technology (p. 1)

LESS THAN ONE-YEAR CERTIFICATE
Auto Body Painting (p. 1)
Auto Collision Repair Technology (p. 2)

AUTO COLLISION REPAIR TECHNOLOGY TWO-YEAR CERTIFICATE
Minimum 72 credits. Students must meet all certificate requirements.

COURSE OF STUDY
The coursework listed below is required. The following is an example of a term-by-term breakdown.

First Term
AB 100§ Auto Body Basic Skills 12
Second Term
AB 105§ Frame Analysis & Repair 12
Third Term
AB 106§ Panel Repair 12
Fourth Term
AB 201§ Panel Replacement 12
Fifth Term
AB 205§ Technical Skills and Collision Repair 12
Sixth Term
AB 280A Cooperative Education: Auto Body Repair 10
AB 280B Cooperative Education: Auto Body Repair - Seminar 2
Total Credits: 72

§ Course cannot be substituted with another course.

AUTO BODY PAINTING LESS THAN ONE-YEAR CERTIFICATE
Minimum 36 credits. Students must meet all certificate requirements.

COURSE OF STUDY
The coursework listed below is required. The following is an example of a term-by-term breakdown.

First Term
AB 116 Auto Painting I 12
Second Term
AB 117 Auto Painting II 12
Third Term
AUTO COLLISION REPAIR TECHNOLOGY LESS THAN ONE-YEAR CERTIFICATE

Minimum 36 credits. Students must meet all certificate requirements.

COURSE OF STUDY

The coursework listed below is required. The following is an example of a term-by-term breakdown.

<table>
<thead>
<tr>
<th>First Term</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB 100 Auto Body Basic Skills</td>
<td>12</td>
</tr>
<tr>
<td>AB 105 Frame Analysis &amp; Repair</td>
<td>12</td>
</tr>
<tr>
<td>AB 106 Panel Repair</td>
<td>12</td>
</tr>
<tr>
<td>Total Credits:</td>
<td>36</td>
</tr>
</tbody>
</table>

AB 100. Auto Body Basic Skills. 12 Credits.
Introduces oxy-acetylene welding, use of hand tools, equipment, and procedures in replacing and aligning auto body components including the use of MIG welders in auto body repair. Develops skills in repair of auto body metals. Discusses damage analysis and how dents are reshaped to original contours. Audit available.

AB 105. Frame Analysis & Repair. 12 Credits.
Covers structural misalignment analysis, use of measuring systems, structural repair procedures, and wheel alignment. Prerequisites: AB 100. Audit available.

AB 106. Panel Repair. 12 Credits.
Develop skills in repair of practice panels, school owned vehicles, and customer cars. Safe use of grinders, sanders, assorted hand tools, and pulling equipment will be applied and practiced. Paint fundamentals, preparation, and application will be discussed. Prerequisites: AB 100. Audit available.

AB 116. Auto Painting I. 12 Credits.
Develops knowledge and skills in care and use of all painting equipment, shop safety, conservation of materials, surface preparation for application of paint, application techniques, color matching and basic taping techniques. Audit available.

AB 117. Auto Painting II. 12 Credits.
Introduces safe use of single stage urethane, advanced masking techniques, small dent repair and detailing. Review and practice of all previously learned painting skills on customer and school owned cars. Prerequisite: AB 116. Audit available.

AB 118. Auto Painting III. 12 Credits.
Introduces safe use of pearl and tri-coat urethane base coat/clear coat systems and waterborne paint systems. Emphasizes spot repair, color matching, blending and plastic part refinishing. Covers surface preparation and proper masking techniques for these products. Prerequisites: AB 116, AB 117. Audit available.

AB 201. Panel Replacement. 12 Credits.
Covers replacing new and used weld-on panels, such as rocker panels, quarter panels and rear body panels. Includes preparation and installation of cosmetic and structural weld-on panels. Prerequisites: AB 100, AB 105, and AB 106. Audit available.

AB 205. Technical Skills and Collision Repair. 12 Credits.
Develops knowledge and manipulation skills required for the complete repair of a collision damaged vehicle by understanding and testing the safety and comfort features found on current vehicles. Prerequisites: AB 100, 105, 106 and 201. Audit available.

AB 280A. Cooperative Education: Auto Body Repair. 1-10 Credit.
Focuses on demonstrating knowledge of auto body repair. Observe and obtain hands-on experience matching their learning objectives. Credits are determined by total clock hours spent on site during the term. Must be coordinated with supervisor, instructor and cooperative education specialist. Prerequisites: AB 205.

AB 280B. Cooperative Education: Auto Body Repair - Seminar. 1-2 Credit.
Provides opportunity to share work experiences and receive feedback from students and instructors. Corequisite: AB 280A.