

# Grayson College Course Catalog

## Overview

Grayson College's Collision Repair Technologies program offers three levels of training and skills. Many students start with the Basic Collision Helper Certificate, and then build on those skills with the Basic Collision Apprentice Certificate. The highest level is the Associate of Applied Science degree. The courses within this program teach the skills recommended by area employers who work in the industry. The program is offered on the Main Campus in the new Career and Technology Center, which is equipped with the latest technology.

---

## Course Requirements

Associate Degree, The Basic Collision Helper Certificate and The Basic Collision Apprentice Certificate all require a High School Diploma or GED certificate. The Associate of Applied Science Degree requires TSI requirements have been satisfied.

---

## Capstone Experience

Graduation with an Entry Level Technician Certificate or an Associate of Applied Science Degree in Collision Repair Technologies requires successful completion of a Comprehensive Exam.

---

## Local Employers

Bob Utter Ford, Texoma Ford, Classic Chevrolet, Star Autobody Howe

## AAS Degree Requirements

### Associate of Applied Science Degree - Collision Repair Technology

---

Subject	Semester Hours
<a href="#">ABDR 1519</a> (Basic Metal Repair)	5
<a href="#">ABDR 1431</a> (Basic Refinishing)	4
<a href="#">ABDR 1307</a> (Auto Body Welding)	3
<a href="#">ABDR 1555</a> (Minor Metal Repair)	5
<a href="#">ABDR 1558</a> (Intermediate Refinishing)	5
<a href="#">WLDG 1430</a> (Introduction to Gas Metal Arc (MIG) Welding)	4
*Mathematics/Life & Physical Science Core	3
<a href="#">ABDR 1411</a> (Vehicle Measurement and Damage Repair Procedures)	4
<a href="#">ABDR 2502</a> (Auto Body Mechanical and Electrical Service)	5
* <a href="#">SPCH 1311</a> , <a href="#">1315</a> or <a href="#">1321</a>	3
*Social & Behavioral Science Core*	3
<a href="#">ABDR 1449</a> (Auto Plastic and Sheet Molded Repair)	4
<a href="#">BUSG 2309</a> (Small Business Management)	3
*Lang, Phil, Culture/Creative Arts Core	3
<a href="#">ABDR 2355</a> (Collision Repair Estimating)	3
<a href="#">ENGL 1301</a> (Composition I)	3
	<b>60</b>

---

\* Check with Advisor.

\* Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Capstone Experience: All students must complete the capstone requirement, successful completion of a comprehensive exam prior to graduation.

# Certificate Degree Requirements

## Basic Collision Apprentice - Certificate

Subject	Semester Hours
<a href="#">ABDR 1519</a> (Basic Metal Repair)	5
<a href="#">ABDR 1431</a> (Basic Refinishing)	4
<a href="#">ABDR 1555</a> (Minor Metal Repair)	5
<a href="#">ABDR 1558</a> (Intermediate Refinishing)	5
<a href="#">ABDR 1411</a> (Vehicle Measurement and Damage Repair Procedures)	4
<a href="#">ABDR 2502</a> (Auto Body Mechanical and Electrical Service)	5
<a href="#">ABDR 1453</a> (Fiberglass Repair)	4
<a href="#">ABDR 2355</a> (Collision Repair Estimating)	3
<b>Any 2 of these courses</b>	8-10
<a href="#">ABDR 1555</a> (Minor Metal Repair)	5
<a href="#">ABDR 1558</a> (Intermediate Refinishing)	5
<a href="#">ABDR 1411</a> (Vehicle Measurement and Damage Repair Procedures)	4
<a href="#">ABDR 2502</a> (Auto Body Mechanical and Electrical Service)	5
<a href="#">ABDR 1453</a> (Fiberglass Repair)	4
<a href="#">ABDR 2355</a> (Collision Repair Estimating)	3
<b>Any 2 of these not yet completed</b>	8-10
<a href="#">ABDR 1555</a> (Minor Metal Repair)	5
<a href="#">ABDR 1558</a> (Intermediate Refinishing)	5
<a href="#">ABDR 1411</a> (Vehicle Measurement and Damage Repair Procedures)	4
<a href="#">ABDR 2502</a> (Auto Body Mechanical and Electrical Service)	5
<a href="#">ABDR 1453</a> (Fiberglass Repair)	4
<a href="#">ABDR 2355</a> (Collision Repair Estimating)	3
<b>Any 2 of these not yet completed</b>	8-10
	<b>24-30</b>

Capstone Experience: All students must complete the capstone requirement, successful completion of a comprehensive exam prior to graduation.

## Basic Collision Helper - Certificate

Subject	Semester Hours
<a href="#">ABDR 1519</a> (Basic Metal Repair)	5
<a href="#">ABDR 1431</a> (Basic Refinishing)	4
<a href="#">ABDR 1555</a> (Minor Metal Repair)	5
<a href="#">ABDR 1558</a> (Intermediate Refinishing)	5
<a href="#">ABDR 1411</a> (Vehicle Measurement and Damage Repair Procedures)	4
<a href="#">ABDR 2502</a> (Auto Body Mechanical and Electrical Service)	5
<a href="#">ABDR 1453</a> (Fiberglass Repair)	4
<a href="#">ABDR 2355</a> (Collision Repair Estimating)	3
<b>Any 2 of these courses</b>	8-10
	<b>8-10</b>

Capstone Experience: All students must complete the capstone requirement, successful completion of a comprehensive exam prior to graduation.

---

## **ABDR 1307 - Auto Body Welding**

Fundamentals of automotive welding processes. Skill development in Oxy/acetylene, SMAW, GMAW, and cutting processes in a variety of applications.

**Grade Basis:** L

**Credit hours:** 3.0

**Lecture hours:** 2.0

**Lab hours:** 4.0

---

## **ABDR 1411 - Vehicle Measurement and Damage Repair Procedures**

Introduction to damaged vehicle measurement and alignment systems.

**Grade Basis:** L

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

**Prerequisites:**

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

**Restrictions:**

- Basic Metal Repair or consent of Instructor
- 

## **ABDR 1431 - Basic Refinishing**

An introduction to current refinishing products, shop safety, and equipment used in the automotive refinishing industry. Emphasis on surface preparation, masking techniques, and refinishing of trim and replacement parts.

**Grade Basis:** L

**Credit hours:** 4.0

**Lecture hours:** 3.0

**Lab hours:** 3.0

---

## **ABDR 1453 - Fiberglass Repair**

A comprehensive course in automotive fiberglass repair including the use of various adhesive, fiberglass matt, and resins used for proper repair procedures

**Grade Basis:** L

**Credit hours:** 3.0

**Lecture hours:** 3.0

**Lab hours:** 4.0

**Prerequisites:**

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

**Restrictions:**

- Basic Metal Repair or consent of Instructor
- 

## **ABDR 1519 - Basic Metal Repair**

Basic current metal working techniques, shop safety, proper tool usage, product application, and skill development utilizing various body features including metal principles.

**Grade Basis:** L

**Credit hours:** 5.0

**Lecture hours:** 4.0

**Lab hours:** 4.0

---

## **ABDR 1555 - Minor Metal Repair**

A course in sheet metal alignment principles using mechanical and hydraulic equipment. Emphasis on attachment devices used to straighten and align exterior body panels.

**Grade Basis:** L

**Credit hours:** 5.0

**Lecture hours:** 4.0

**Lab hours:** 4.0

**Prerequisites:**

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

**Restrictions:**

- Basic Metal Repair or consent of Instructor
- 

## **ABDR 1558 - Intermediate Refinishing**

Expanded training in mixing and spraying of automotive topcoats. Emphasis on formula ingredient, reducing, thinning, and special spraying techniques. Introduction to partial panel refinishing techniques and current industry paint removal techniques.

**Grade Basis:** L

**Credit hours:** 5.0

**Lecture hours:** 4.0

**Lab hours:** 4.0

**Prerequisites:**

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

**Restrictions:**

- Basic Metal Repair or consent of Instructor
- 

## **ABDR 2355 - Collision Repair Estimating**

An advanced course in collision estimating and development of an accurate damage report

**Grade Basis:** L

**Credit hours:** 3.0

**Lecture hours:** 2.0

**Lab hours:** 2.0

**Prerequisites:**

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

**Restrictions:**

- Basic Metal Repair or consent of Instructor
- 

## **ABDR 2502 - Auto Body Mechanical and Electrical Service**

A course in the repair, replacement, and/or service of collision damaged mechanical or electrical systems. Topics include drive train removal, reinstallation and service; cooling system service and repair; exhaust system service; and emission control systems. Additional topics include wire and connector repair, reading wiring diagrams, and troubleshooting.

**Grade Basis:** L

**Credit hours:** 5.0

**Lecture hours:** 4.0

**Lab hours:** 4.0

**Prerequisites:**

- [ABDR 1431](#) - Basic Refinishing
- [ABDR 1519](#) - Basic Metal Repair

**Restrictions:**

- Basic Metal Repair or consent of Instructor
- 

Last updated: 06/11/2019

**Grayson College**

6101 Grayson Drive (Hwy. 691) Denison, TX 75020  
(903) 465-6030