

Collision Repair Technology, Undergraduate Certificate

Visit the Applied Engineering and Transportation Technologies Department page (<https://www.uvu.edu/cet/transportation-tech/>) for more information on the program and access to advising.

Program Description

The Collision Repair Certificate Program at Utah Valley University prepares students for entry-level careers in the automotive collision repair industry. This intensive program combines classroom instruction with hands-on training, focusing on essential skills such as structural and non-structural damage analysis, panel repair and replacement, refinishing techniques, and advanced welding processes. Students will learn industry-standard practices for frame alignment, dent repair, automotive painting, and refinishing, as well as the safe and efficient use of modern repair tools and equipment. The program emphasizes the importance of understanding manufacturer specifications, safety protocols, and environmental regulations in collision repair. Graduates of the one year certificate program will be well-equipped to pursue entry level careers in automotive body shops, insurance companies, or specialized repair facilities.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		32
Discipline Core Requirements		32 Credits
Complete one of the following:		3
AUT 1260	Tech Math for Mechanics (3)	
MAT 1010	Intermediate Algebra (4)	
MATH 1050	College Algebra (4)	
Any higher MAT or MATH course		
MKTG 2200G or ENGL 1010 or ENGH 1005	Written Business Communication Introduction to Academic Writing	3
Any approved Behavioral Science, Social, or Political Science Distribution Course		2
AUT 1160	Automotive Electrical Systems	2
AUT 1165	Automotive Electrical Systems Lab	1
AUT 2240	Transportation Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 2245	Transportation Heating Ventilation Air Conditioning and Refrigeration Lab	1
CRT 1110	Surface Preparation	2
CRT 1115	Surface Preparation Lab	1
CRT 1120	Nonstructural Repair	2
CRT 1125	Nonstructural Repair Lab	1
CRT 1230	Welding and Attachment Methods	2
CRT 1235	Welding and Attachment Methods	1
CRT 1140	Panel Replacement and Adjustment	2
CRT 1145	Panel Replacement and Adjustment Lab	1
CRT 1130	Overall Refinishing and Problem Solving	2
CRT 1135	Overall Refinishing and Problem Solving Lab	1
CRT 1210	Blending Tinting and Detailing	2
CRT 1215	Blending Tinting and Detailing Lab	1

Note: Cooperative Education courses may be used in place of some of the laboratory or shop classes for completion of diploma requirements.

Graduation Requirements

1. Completion of a minimum of 32 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in Wolverine Track (<http://www.uvu.edu/wolverinetrack/>).

First Year

Semester 1		Credit Hours
CRT 1110	Surface Preparation	2
CRT 1115	Surface Preparation Lab	1
CRT 1120	Nonstructural Repair	2
CRT 1125	Nonstructural Repair Lab	1
CRT 1230	Welding and Attachment Methods	2
CRT 1235	Welding and Attachment Methods	1
CRT 1140	Panel Replacement and Adjustment	2
CRT 1145	Panel Replacement and Adjustment Lab	1
Complete one of the following:		3
AUT 1260	Tech Math for Mechanics	
MAT 1010	Intermediate Algebra	
MATH 1050	College Algebra	
Any higher MAT or MATH course		

	Credit Hours	15
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Semester 2

CRT 1210	Blending Tinting and Detailing	2
CRT 1215	Blending Tinting and Detailing Lab	1
CRT 1130	Overall Refinishing and Problem Solving	2
CRT 1135	Overall Refinishing and Problem Solving Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 1165	Automotive Electrical Systems Lab	1
AUT 2240	Transportation Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 2245	Transportation Heating Ventilation Air Conditioning and Refrigeration Lab	1
Complete one of the following:		3
MKTG 2200G	Written Business Communication	
ENGL 1010	Introduction to Academic Writing	
ENGL 1005		

Social Science Distribution		2
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	Credit Hours	17
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Total Credit Hours		32
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Program Learning Outcomes

1. Identify, diagnose, and repair electrical systems.
2. Identify, diagnose, and repair nonstructural and structural damage.
3. Identify, diagnose, and repair paint refinish defects/damage.
4. Identify, diagnose, and repair HVAC system damage.
5. Identify, diagnose, and repair drivetrain damage.
6. Identify, diagnose, and repair safety and restraint systems.
7. Develop and display industry communication skills.

Engineering technologists and technicians, except drafters, all other

- Total Positions 69,500
- Field Growth 4.4%
- Median Salary \$73,500
- Average Openings 6.3