

# Automotive 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

This is a One-Year Certificate covering the fundamentals of automotive technology and service best practices. It can lead to a Two-Year Associate's degree in Applied Science.

## Program Requirements

Code	Title	Credit Hours
<b>Total Credit Hours</b>		<b>31</b>
<b>Discipline Core Requirements</b>		<b>31 Credits</b>
AUT 1001	Automotive Skills and Safety Training	1
AUT 1010	Maintenance and Light Repair	2
AUT 1020	Automotive Service Skills	2
AUT 1015	Maintenance and Light Repair Lab	1
AUT 1120	Powertrain Systems	2
AUT 1025	Automotive Service Skills Lab	1
AUT 1125	Powertrain Systems Lab	1
AUT 1130	Engine Mechanical	2
AUT 1135	Engine Mechanical Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 1165	Automotive Electrical Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 1175	Engine Electrical Systems Lab	1
AUT 1210	Steering and Suspension Systems	2
AUT 1215	Suspension and Steering Systems Lab	1
AUT 1230	Engine Performance	2
AUT 1235	Engine Performance Lab	1
AUT 2210	Brake Systems and Regenerative Braking	2
AUT 2215	Brake Systems and Regenerative Braking Lab	1
AUT 2220	Automatic Powertrain Systems	2
AUT 2225	Automatic Powertrain Systems Lab	1

## Graduation Requirements

1. Completion of a minimum of 31 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
4. Completion of specified departmental requirements

## 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
AUT 1001	Automotive Skills and Safety Training	1
AUT 1010	Maintenance and Light Repair	2
AUT 1015	Maintenance and Light Repair Lab	1
AUT 1020	Automotive Service Skills	2

AUT 1025	Automotive Service Skills Lab	1
AUT 1130	Engine Mechanical	2
AUT 1135	Engine Mechanical Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 1165	Automotive Electrical Systems Lab	1
AUT 1230	Engine Performance	2
AUT 1235	Engine Performance Lab	1
<b>Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
AUT 1120	Powertrain Systems	2
AUT 1125	Powertrain Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 1175	Engine Electrical Systems Lab	1
AUT 1210	Steering and Suspension Systems	2
AUT 1215	Suspension and Steering Systems Lab	1
AUT 2210	Brake Systems and Regenerative Braking	2
AUT 2215	Brake Systems and Regenerative Braking Lab	1
AUT 2225	Automatic Powertrain Systems Lab	1
AUT 2220	Automatic Powertrain Systems	2
<b>Credit Hours</b>		<b>15</b>
<b>Total Credit Hours</b>		<b>31</b>

## Program Learning Outcomes

1. Gain practical experience in Automotive technology
2. Gain knowledge and skills to operate at industry standards
3. Demonstrate quality and efficiency in repairs and diagnostics
4. Gain knowledge and skills of hybrid and electric vehicles and systems

## Mechanical drafters

- Total Positions 50,400
- Field Growth 4.9%
- Median Salary \$64,060
- Average Openings 4.0

## Mechanical engineering technologists and technicians

- Total Positions 39,900
- Field Growth 1.9%
- Median Salary \$64,020
- Average Openings 3.5

## Automotive service technicians and mechanics

- Total Positions 794,600
- Field Growth 2.7%
- Median Salary \$47,770
- Average Openings 67.8