

# Automotive Technology, A.A.S.

Five options are available: a One-Year Certificate, a Two-Year Diploma, an Associate in Applied Science Degree, an Associate in Science, and the Bachelor of Science in Technology Management degree.

## Program Requirements

Code	Title	Credit Hours
<b>Total Credit Hours</b>		<b>64</b>
<b>General Education Requirements</b>		<b>16 Credits</b>
MKTG 220G or ENGL 1010 or ENGH 1005	Written Business Communication GI WE Introduction to Academic Writing CC Literacies and Composition Across Contexts CC	3
AUT 1260 or MAT 1015	Tech Math for Mechanics Intermediate Algebra with Integrated Review	3
Any approved Humanities, Fine Arts, or Foreign Language Distribution Course		3
Any approved Behavioral Science, Social, or Political Science Distribution Course		3
Any approved Biology or Physical Science Distribution Course		3
Any approved Physical Education, Health, Safety, or Environment Course		1
<b>Discipline Core Requirements</b>		<b>48 Credits</b>
AUT 1110	Brake Systems	2
AUT 111L	Brake Systems Lab	1
AUT 1120	Powertrain Systems	2
AUT 112L	Powertrain Systems Lab	1
AUT 1130	Engine Mechanical	2
AUT 113L	Engine Mechanical Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 1170	Engine Electrical Systems	2
AUT 117L	Engine Electrical Systems Lab	1
AUT 1210	Steering and Suspension Systems	2
AUT 121L	Suspension and Steering Systems Lab	1
AUT 1220	Automatic Powertrain Systems	2
AUT 122L	Automatic Transmissions and Transaxles Lab	1
AUT 1230	Engine Performance	2
AUT 123L	Engine Performance Lab	1
AUT 2110	Advanced Steering Suspension and Alignment	2
AUT 211L	Automotive Service Practicum Steering/Suspension/Alignment Lab	1
AUT 2120	Engine Performance II	2
AUT 212L	Advanced Engine Performance II Lab	1
AUT 2130	Transportation Environmental Pollution Controls	2
AUT 213L	Transportation Environmental Pollution Controls Lab	1
AUT 2140	Chassis Electrical and Electronics Systems	2
AUT 214L	Chassis Electrical and Electronics Systems Lab	1
AUT 2210	Brake Systems and Regenerative Braking	2
AUT 221L	Brake Systems and Regenerative Braking Lab	1
AUT 2220	Automatic Powertrain Systems	2
AUT 222L	Automatic Powertrain Systems Lab	1
AUT 2240	Transportation Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 224L	Transportation Heating Ventilation Air Conditioning and Refrigeration Lab	1

AUT 2250	Fuel Management	2
or AUT 2350	Electronic Diesel Fuel Management Systems	
AUT 225L	Fuel Management Lab	1

## Graduation Requirements

1. Completion of a minimum of 64 semester credits
2. Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
3. Residency hours--minimum of 20 credit hours through course attendance at UVU
4. Completion of GE and 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 1110	Brake Systems	2
AUT 111L	Brake Systems Lab	1
AUT 1120	Powertrain Systems	2
AUT 112L	Powertrain Systems Lab	1
AUT 1130	Engine Mechanical	2
AUT 113L	Engine Mechanical Lab	1
AUT 1160	Automotive Electrical Systems	2
AUT 116L	Automotive Electrical Systems Lab	1
AUT 1260	Tech Math for Mechanics	3
or MAT 1015	or Intermediate Algebra with Integrated Review	
<b>Credit Hours</b>		<b>15</b>
Semester 2		Credit Hours
AUT 1170	Engine Electrical Systems	2
AUT 117L	Engine Electrical Systems Lab	1
AUT 1210	Steering and Suspension Systems	2
AUT 121L	Suspension and Steering Systems Lab	1
AUT 1220	Automatic Powertrain Systems	2
AUT 122L	Automatic Transmissions and Transaxles Lab	1
AUT 1230	Engine Performance	2
AUT 123L	Engine Performance Lab	1
MKTG 220G	Written Business Communication GI WE	3
or ENGL 1010	or Introduction to Academic Writing CC	
Social Science		3
<b>Credit Hours</b>		<b>18</b>

### Second Year

Semester 3		Credit Hours
AUT 2110	Advanced Steering Suspension and Alignment	2
AUT 211L	Automotive Service Practicum Steering/Suspension/Alignment Lab	1
AUT 2120	Engine Performance II	2
AUT 212L	Advanced Engine Performance II Lab	1
AUT 2130	Transportation Environmental Pollution Controls	2
AUT 213L	Transportation Environmental Pollution Controls Lab	1
AUT 2140	Chassis Electrical and Electronics Systems	2
AUT 214L	Chassis Electrical and Electronics Systems Lab	1
Humanities/Fine Arts		3
Physical Education		1
<b>Credit Hours</b>		<b>16</b>
Semester 4		Credit Hours
AUT 2210	Brake Systems and Regenerative Braking	2
AUT 221L	Brake Systems and Regenerative Braking Lab	1
AUT 2220	Automatic Powertrain Systems	2

AUT 222L	Automatic Powertrain Systems Lab	1
AUT 2240	Transportation Heating Ventilation Air Conditioning and Refrigeration Theory	2
AUT 224L	Transportation Heating Ventilation Air Conditioning and Refrigeration Lab	1
AUT 2250	Fuel Management	2
AUT 225L	Fuel Management Lab	1
Biology or Physical Science		3
<b>Credit Hours</b>		<b>15</b>
<b>Total Credit Hours</b>		<b>64</b>

### Program Learning Outcomes

1. Students will be able to demonstrate and discuss what effect wide band O2 sensors have on vehicle emissions and drivability, and how PCM input and output is interpreted.