

# AUTOMOTIVE TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE

## Program Description

This program trains students to be service technicians skilled in the testing, diagnosing, and servicing of motor vehicles.

### *Embedded Certificate*

This program contains one or more embedded certificates which will automatically be awarded if the certificate requirements are met unless the student completes and submits the Program of Study Change Form ([https://www.gvltec.edu/admissions\\_aid/student\\_forms/](https://www.gvltec.edu/admissions_aid/student_forms/)) requesting to opt out of the embedded certificate.

## Mission Statement

The mission of the automotive program is to train students to be successful automotive service technicians, and to promote ongoing learning within the industry.

## Entrance Requirements

High school diploma or GED.

See "Program Requirements" Section for additional requirements.

## Type of Program

Daytime only

## Employment Opportunities

Automotive service technician with a dealer or independent service organization.

## Professional Credential

Automotive Service Excellence Technician (subject to passing exam)

## Program Accreditation

The AUT Associate in Applied Science program is accredited by the ASE Education Foundation.

## Specialization Options

The Automotive Technology Associate in Applied Science degree also allows students to select one of the following two specializations, both of which are the only similar option offered in South Carolina:

**Note:** Students will be awarded one degree: Automotive Technology Associate in Applied Science

- **General Motors Automotive Service Educational Program (ASEP)** trains students in the testing, diagnosis and servicing of General Motors motor vehicles and prepares graduates for employment in a GM dealership or participating AC Delco repair facility. Students must complete a cooperative work experience (co-op) course each semester with a GM dealership or an approved AC Delco repair facility.
- **Honda/Acura Professional Automotive Career Training (PACT)** trains students in the testing, diagnosis and servicing of Honda and Acura

motor vehicles and prepares graduates for employment in a Honda or Acura dealership or repair facility. Students must complete a cooperative work experience (co-op) course each semester with a Honda or Acura dealership.

Visit our web page at <https://www.gvltec.edu/automotive/>.

## Program Requirements

In addition to the associate degree requirements, the automotive specializations have the following requirements.

### General Motors Automotive Service Educational Program (ASEP) Specialization Entrance Requirements

- Acceptable placement test score(s), plus high school diploma or equivalent.
- Student must be placed in an ASEP approved co-op upon program entry.
- Student must pass drug test for employer and have a good driving record.
- Student must interview with the TT Department Head or OEM program director/lead instructor.

### Honda/Acura Professional Automotive Career Training (PACT) Specialization Entrance Requirements

- Acceptable placement test score(s), plus high school diploma or equivalent.
- Student must be placed in an approved Honda or Acura co-op upon program entry.
- Student must pass drug test for employer and have a good driving record.
- Student must interview with the TT Department Head or OEM program director/lead instructor.

## Recommended Program Schedule

Listed below is the ideal grouping of courses in order by semester. This plan assumes a full-time schedule. Note, however, that many variables can affect this plan, and not every course is offered every semester. Please see your advisor to map out your own personalized progression toward graduation.

**Note:** Please contact your advisor for recommended alternate schedules.

## Automotive Associate Degree

First Semester		Hours
AUT 100	Intro to Automotive Hazardous Materials	1
AUT 159	Tools, Equipment, and Reference Manuals	3
AUT 132	Automotive Electricity	4
AUT 103	Engine Reconditioning	4
COL 105	Freshman Seminar <sup>1</sup>	3
<b>Total Semester Hours</b>		<b>15</b>
Second Semester		Hours
AUT 231	Automotive Electronics	4
AUT 112	Braking Systems	4
AUT 122	Suspension and Alignment	4
ENG 165	Professional Communications	3
<b>Total Semester Hours</b>		<b>15</b>

Third Semester		
AUT 116	Manual Transmission and Axle	4
AUT 149	Ignition and Fuel Systems	4
AUT 241	Automotive Air Conditioning	4
MAT 155	Contemporary Mathematics (or higher Math) <sup>2</sup>	3
<b>Total Semester Hours</b>		<b>15</b>
Fourth Semester		
AUT 275	Alternate Technology Vehicles	3
AUT 152	Automatic Transmission	4
AUT 143	Active Devices and Sensors	4
PSY 103	Human Relations <sup>1</sup>	3
Select one of the following:		3
HIS 101	Western Civilization to 1689	
HIS 122	History, Technology, and Society	
ECO 105	Introduction to Economic Principles	
PSC 201	American Government	
HIS 201	American History: Discovery to 1877	
<b>Total Semester Hours</b>		<b>17</b>
Fifth Semester		
AUT 247	Electronic Fuel Systems	4
AUT 107	Advanced Engine Repair	4
AUT 268	Special Topics in Automotives	3
HSS 105	Technology and Culture	3
<b>Total Semester Hours</b>		<b>14</b>
<b>Total Required Credit Hours</b>		<b>76</b>

<sup>1</sup> General education course

<sup>2</sup> MAT 110 or MAT 120 is recommended if placement allows for students who intend to pursue the BAS.MFG degree.

## General Motors Automotive Service Educational Program or Honda/Acura Professional Automotive Career Training specialization

First Semester	Hours	
AUT 100	Intro to Automotive Hazardous Materials	1
AUT 159	Tools, Equipment, and Reference Manuals	3
AUT 132	Automotive Electricity	4
AUT 103	Engine Reconditioning	4
COL 105	Freshman Seminar	3
<b>Total Semester Hours</b>		<b>15</b>
Second Semester		
AUT 231	Automotive Electronics	4
AUT 112	Braking Systems	4
AUT 122	Suspension and Alignment	4
Cooperative Work Experience (CWE) <sup>2</sup>		1
ENG 165	Professional Communications	3
<b>Total Semester Hours</b>		<b>16</b>
Third Semester		
AUT 116	Manual Transmission and Axle	4

AUT 149	Ignition and Fuel Systems	4
AUT 241	Automotive Air Conditioning	4
Cooperative Work Experience (CWE) <sup>2</sup>		1
MAT 155	Contemporary Mathematics (or higher Math) <sup>3</sup>	3
<b>Total Semester Hours</b>		<b>16</b>
Fourth Semester		
AUT 275	Alternate Technology Vehicles	3
AUT 152	Automatic Transmission	4
AUT 143	Active Devices and Sensors	4
Cooperative Work Experience (CWE) <sup>2</sup>		1
PSY 103	Human Relations <sup>1</sup>	3
Select one of the following:		3
HIS 101	Western Civilization to 1689	
HIS 122	History, Technology, and Society	
PSC 201	American Government	
HIS 201	American History: Discovery to 1877	
ECO 105	Introduction to Economic Principles	
<b>Total Semester Hours</b>		<b>18</b>
Fifth Semester		
AUT 247	Electronic Fuel Systems	4
AUT 107	Advanced Engine Repair	4
AUT 268	Special Topics in Automotives	3
Cooperative Work Experience (CWE) <sup>2</sup>		1
HSS 105	Technology and Culture	3
<b>Total Semester Hours</b>		<b>15</b>
<b>Total Required Credit Hours</b>		<b>80</b>

<sup>1</sup> General education course

<sup>2</sup> Students must complete a cooperative work experience (co-op) course each semester with the appropriate specialization dealership.

<sup>3</sup> MAT 110 or MAT 120 is recommended if placement allows for students who intend to pursue the BAS.MFG degree.