

# AUTOMOTIVE SERVICE AND TECHNOLOGY, ASSOCIATE OF SCIENCE (AS)

## Overview

The A.S. degree is designed for second year automotive students. The well-rounded student graduating from the program will be a leader, prepared to own or manage a business or to transfer to a four-year university. Students can complete courses required for the one-year certificate in the first year of study. Advanced automotive courses can be taken with general education requirements during the second year. Second year students often work in a part-time job and receive credit for Automotive Work Experience.

## Requirements

### Associate Degree Graduation Requirements

Complete all of the following:

- All Department Requirements listed below with a "C" or better or "P" in each course (at least 20% of the department requirements must be completed through SBCC).
- One of the following three General Education options:
  - OPTION 1: A minimum of 18 units of SBCC General Education Requirements (<https://catalog.sbccc.edu/degrees-certificates-awards/#associateddegreeestext>) (Areas A-D) and Institutional Requirements (Area E) and Information Competency Requirement (Area F) OR
  - OPTION 2: IGETC (<https://catalog.sbccc.edu/transfer-curricula/#igetctext>) Pattern OR
  - OPTION 3: CSU GE Breadth (<https://catalog.sbccc.edu/transfer-curricula/#csugebtext>) Pattern
- A total of 60 degree-applicable units (SBCC courses numbered 100 and higher).
- Maintain a cumulative GPA of 2.0 or better in all units attempted at SBCC.
- Maintain a cumulative GPA of 2.0 or better in all college units attempted.
- A minimum of 12 units through SBCC.

Code	Title	Units
<b>Department Requirements</b>		
AUTO 120	Automotive Business and Soft Skills	4
AUTO 130	Automotive Maintenance & Light Repair	4.5
AUTO 140	Automotive Engines	4.5
AUTO 150	Automotive Brakes, Suspension, & Steering Systems	4.5
AUTO 160	Automotive Electricity and Electronic Systems	4.5
AUTO 170	Automotive Engine Performance	4.5
AUTO 180	Automotive Heating and Air Conditioning Systems	3
AUTO 190	Automotive Drivetrain Systems	4.5

AUTO 200	Automotive Advanced Diagnosis & ADAS	3
AUTO 210	Automotive Hybrid and Electric Vehicle Systems	4.5
<b>Total Units</b>		<b>41.50</b>

## Learning Outcomes

- Students will develop skills to advance their knowledge as automotive technicians.
- Students will conduct themselves on the job as professionals, including practicing safety precautions to prevent accidents.
- Students will become lifelong learners and advocates for the automotive industry.

## Recommended Sequence

Make an appointment with your SBCC academic counselor through Starfish to create a Student Education Plan that reflects a recommended course sequence for this program that is tailored to your individual needs.

How to schedule an Academic Counseling appointment ([http://www.sbccc.edu/starfish/howtos/starfish\\_appt\\_how\\_to.pdf](http://www.sbccc.edu/starfish/howtos/starfish_appt_how_to.pdf)).

## Sample Program of Study: AS Degree (Two Years)

Course	Title	Units
<b>First Year</b>		
<b>Fall Semester</b>		
AUTO 101	Introduction to Auto Mechanics	3
AUTO 111	Engine Rebuilding	7
MATH 095	Elementary Algebra (or higher) <sup>1</sup>	5
ENG 110 or ENG 110H	Composition and Reading <sup>1</sup> or Composition and Reading, Honors	4
<b>Units</b>		<b>19</b>
<b>Spring Semester</b>		
AUTO 110	Fundamentals of Automotive Servicing	4
AUTO 114 or AUTO 115	Automotive Power Train <sup>2</sup> or Automotive Electricity	7
Lab Science <sup>1</sup>		4
Oral Communication <sup>1</sup>		3
Physical Education <sup>1</sup>		1
<b>Units</b>		<b>19</b>
<b>Second Year</b>		
<b>Fall Semester</b>		
AUTO 113 or AUTO 112	Automotive Fuel and Air Conditioning Systems <sup>3</sup> or Brakes, Suspension and Steering	4.6
AUTO 116	Engine Performance	7
History or Political Science <sup>1</sup>		3
Physical Education <sup>1</sup>		1
<b>Units</b>		<b>15.60</b>
<b>Spring Semester</b>		
AUTO 113 or AUTO 112	Automotive Fuel and Air Conditioning Systems <sup>3</sup> or Brakes, Suspension and Steering	4.6

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AUTO 114 or AUTO 115	Automotive Power Train <sup>2</sup> or Automotive Electricity	7
Humanities/Multicultural <sup>1</sup>		3
Select one course from the following:		2-4
AUTO 217	Automotive Specialty I <sup>4</sup>	
AUTO 218	Automotive Specialty II <sup>4</sup>	
AUTO 290	Work Experience In Automotive Service And Technology <sup>4</sup>	
<b>Units</b>		<b>16.60-18.60</b>
<b>Total Units</b>		<b>70.20-72.20</b>

<sup>1</sup> General Ed. Requirements: See this Catalog for complete course listings.

<sup>2</sup> AUTO 114 Automotive Power Train (Fall Semester), AUTO 115 Automotive Electricity (Spring Semester)

<sup>3</sup> AUTO 113 Automotive Fuel and Air Conditioning Systems (Fall Semester), AUTO 112 Brakes, Suspension and Steering (Spring Semester)

<sup>4</sup> Recommended but not required for either Certificate of Achievement or AS Degree.