



# Automotive Technology Certificate

FULL TIME

This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability.

Catalog: 2025-26

Total Units: 49

## First Year

### Semester 1

12 Units

CAT.	COURSE	UNIT	PREREQUISITES
RE	AT 100 Technical Basics for the Automotive Professional	3	
Req	AT 105 Mathematics for Automotive Technology	3	
Req	AT 110 Automotive Brakes	3	
Req	AT 180 Automotive Data Acquisition	3	

### Semester 2

12 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 130 Manual Drive Trains and Axles	3	
Req	AT 313 Automatic Transmission and Transaxles	3	
Req	AT 314 Automotive Engine Repair	3	
Req	AT 330 Automotive Electrical Systems	3	

## Second Year

### Semester 3

12 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 181 Electrical Fundamentals and Multimeter Basics	3	
Req	AT 331 Advanced Automotive Electrical Systems	3	
Req	AT 333 California State Smog Check Inspector Training	6	AT 314

### Semester 4

13 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 332 Engine Performance & Electronic Engine Controls	6	AT 331 and 333
Req	AT 310 Heating and Air-Conditioning Systems	3	
Req	AT 311 Suspension and Steering Systems	3	

## CAREER PATH

### Career Options:

This certificate prepares students for entry-level positions in the automotive industry.

### Scheduling Notes:

- The semesters that these courses are available may vary. See the course schedule for their availability.

### Other Notes:

- This certificate prepares students for all nine Automotive Service Excellence (ASE) certifications, including Advanced Engine Performance (L-1). It also fulfills the Bureau of Automotive Repair (BAR) requirements for CA State Smog Check Inspector and CA State Smog Check Repair Technician test candidates.
- An internship (AT 298) is highly recommended as it opens up potential employment opportunities. Students can earn at least 1 unit for related paid or unpaid work experience including volunteer and internship positions through AT 298. See the [Work Experience website](#) for more information.
- This certificate can be started in the fall as well. [See a counselor](#) to adjust the course work.

CAT.	COURSE	UNIT	PREREQUISITES
RE	AT 298 Work Experience in Automotive Technology	1	

#### EXPLANATION OF CATEGORIES

RE	Restricted Elective	A course selected from a list of elective courses specified for this program in the course list in the catalog, which can be replaced with another course from the same list
Req	Required Core	A course that is required for this program

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