



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: 2024-25

Total Units: 49

Start Term: Spring

First Year

Semester 1 (Spring) 12 Units

CAT.	COURSE	TITLE	UNIT
RE	AT 100 ¹	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

¹ or AT 103

Semester 2 (Fall) 12 Units

CAT.	COURSE	TITLE	UNIT
Req	AT 130	Manual Drive Trains and Axles	3
Req	AT 311	Suspension and Steering Systems	3
Req	AT 313	Automatic Transmission and Transaxles	3
Req	AT 314	Automotive Engine Repair	3

CAREER PATH

Career Options:

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

Scheduling Notes:

- AT 330 is scheduled during the 1st 8 weeks and AT 331 during the 2nd 8 weeks in the spring, so they can be taken in the same semester in the spring.
- AT 333 is scheduled during the 1st 8 weeks and AT 332 during the 2nd 8 weeks in the fall, so they can be taken in the same semester in the fall.

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.

Second Year

Semester 3 (Spring) 12 Units

CAT.	COURSE	TITLE	UNIT
Req	AT 181	Electrical Fundamentals and Multimeter Basics	3
Req	AT 310	Heating and Air-Conditioning Systems	3
Req	AT 330	Automotive Electrical Systems	3
Req	AT 331	Advanced Automotive Electrical Systems	3

Semester 4 (Fall) 13 Units

CAT.	COURSE	TITLE	UNIT
Req	AT 333	California State Smog Check Inspector Training	6
Req	AT 332	Engine Performance & Electronic Engine Controls	6
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
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EXPLANATION OF CATEGORIES

Req	Required Core	A course that is required for this program
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