



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: 2026-27

Total Units: 58

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 180 Automotive Data Acquisition	3	
Req	AT 181 Electrical Fundamentals and Multimeter Basics	3	

Semester 2

12 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 110 Automotive Brakes	3	
Req	AT 130 Manual Drive Trains and Axles	3	
Req	AT 311 Suspension and Steering Systems	3	
RC	AT 314 ¹ Automotive Engine Repair	3	

¹ AT 314 is not part of this certificate but is a prerequisite to AT 333.

Second Year

Semester 3

12 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 310 Heating and Air-Conditioning Systems	3	
Req	AT 330 Automotive Electrical Systems	3	
RC	AT 333 ² California State Smog Check Inspector Training	6	AT 314

² AT 333 is not part of this certificate but is a prerequisite to AT 332.

CAREER PATH

Career Options:

This program prepares students for entry-level positions in the automotive industry with emphasis on alternative fuel and electric vehicle drive systems and complete automotive systems diagnosis and repair.

Scheduling Notes:

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

Other Notes:

- 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.
- At the end of semester 5, students qualify for the **Air Conditioning Service** certificate, the **Automotive Suspension and Steering** certificate, and the **Automotive Brakes** certificate.

Semester 4

12 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 331 Advanced Automotive Electrical Systems	3	
Req	AT 341 Alternative Fuels and Advanced Technology Vehicles	3	
Req	AT 343 Electric Vehicle Construction, Diagnosis and Repair	3	AT 100
Req	AT 345 Hybrid Electric Vehicle Technology, Service and Repair	3	AT 100

Third Year

Semester 5

10 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 332 Engine Performance & Electronic Engine Controls	6	AT 331 and 333
Req	AT 347 Advanced Hybrid and Electric Vehicle Technology Service and Repair	3	AT 100
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
RC	Recommended Course	A course that is not part of this program but is included in its roadmap