Automotive Analysis Certificate

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: 38

First Year

Semester 1 — 6 Units

CAT.	COURSE	UNIT	PREREQUISITES
RE	AT 100 Technical Basics for the Automotive Professional	3	
Req	AT 105 Mathematics for Automotive Technology	3	

[1] AT 314 is not part of this certificate, but AT 333 has a prerequisite of AT 314.

Semester 2 — 6 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 180 Automotive Data Acquisition	3	
RC	AT 314[1] Automotive Engine Repair	3	

Second Year

Semester 3 — 5 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 181 Electrical Fundamentals and Multimeter Basics	3	
Req	AT 188 Aftermarket Scan Tool Use and Operation	2	

Semester 4 — 5 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 189 Digital Storage Oscilloscope Use and Operation	2	
Req	AT 330 Automotive Electrical Systems	3	

Third Year

Semester 5 — 9 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 331 Advanced Automotive Electrical Systems	3	

CAREER PATH

Career Options:

- Drivability Service Technician
- Smog Check Technician

Scheduling Notes:

- AT 332 is offered in the fall.
- AT 188 and 189 are offered occasionally. 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.

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 333 California State Smog Check Inspector Training	6	AT 314

Semester 6   7 Units

CAT.	COURSE	UNIT	PREREQUISITES
Req	AT 332 Engine Performance & Electronic Engine Controls	6	AT 331 and 333
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