



# Automotive Analysis Certificate

PART 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: 38

## First Year

### Semester 1 12 Units

CAT.	COURSE	TITLE	UNIT
Req	AT 100 <sup>1</sup>	Technical Basics for the Automotive Professional	3
Req	AT 105	Mathematics for Automotive Technology	3
Req	AT 180	Automotive Data Acquisition	3
RC	AT 314 <sup>2</sup>	Automotive Engine Repair	3

<sup>1</sup> or AT 103

<sup>2</sup> AT 314 is not part of this certificate, but AT 333 has a prerequisite of AT 314.

### Semester 2 10 Units

CAT.	COURSE	TITLE	UNIT
Req	AT 181	Electrical Fundamentals and Multimeter Basics	3
Req	AT 188	Aftermarket Scan Tool Use and Operation	2
Req	AT 189	Digital Storage Oscilloscope Use and Operation	2
Req	AT 330	Automotive Electrical Systems	3

## Second Year

### Semester 3 9 Units

CAT.	COURSE	TITLE	UNIT
Req	AT 331	Advanced Automotive Electrical Systems	3
Req	AT 333	California State Smog Check Inspector Training	6

### Semester 4 7 Units

CAT.	COURSE	TITLE	UNIT
Req	AT 332	Engine Performance & Electronic Engine Controls	6
RE	AT 298	Work Experience in Automotive Technology	1

## CAREER PATH

### Career Options:

- Drivability Service Technician
- Smog Check Technician

### Scheduling Notes:

- AT 332 is offered in the fall.
- AT 181, 188, and 189 are offered occasionally. See the course schedule for their availability.

### Other Notes:

- An internship (AT 298) is required 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.

### EXPLANATION OF CATEGORIES

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

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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