



# 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: 2025-26

Total Units: 38

## First Year

### Semester 1

12 Units

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

<sup>1</sup> AT 314 is not part of this certificate, but AT 333 has a prerequisite of AT 314.

### Semester 2

10 Units

| CAT. | COURSE   | UNIT | PREREQUISITES |
|------|--|------|---------------|
| Req  | AT 181<br>Electrical Fundamentals and Multimeter Basics  | 3    |               |
| Req  | AT 188<br>Aftermarket Scan Tool Use and Operation        | 2    |               |
| Req  | AT 189<br>Digital Storage Oscilloscope Use and Operation | 2    |               |
| Req  | AT 330<br>Automotive Electrical Systems                  | 3    |               |

## Second Year

### Semester 3

9 Units

| CAT. | COURSE   | UNIT | PREREQUISITES |
|------|--|------|---------------|
| Req  | AT 331<br>Advanced Automotive Electrical Systems         | 3    |               |
| Req  | AT 333<br>California State Smog Check Inspector Training | 6    | AT 314        |

### Semester 4

7 Units

| CAT. | COURSE  | UNIT | PREREQUISITES  |
|------|---|------|----------------|
| Req  | AT 332<br>Engine Performance & Electronic Engine Controls | 6    | AT 331 and 333 |
| RE   | AT 298<br>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

|     |                     |  |
|-----|---------------------|--|
| 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   |

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