



Automotive Analysis A.S. Degree

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: 2025-26

GE Pattern: local AA/AS

Total Units: 60

First Year

Semester 1

15 Units

| CAT. | COURSE | UNIT | PREREQUISITES | GE AREA |
|------|---|------|---------------|---------|
| RE | AT 100 Technical Basics for the Automotive Professional | 3 | | |
| Req | AT 105 Mathematics for Automotive Technology | 3 | | L2 |
| Req | AT 180 Automotive Data Acquisition | 3 | | |
| RC | AT 314 ¹ Automotive Engine Repair | 3 | | |
| GE | ENGL C1000 Academic Reading and Writing or | 3 | | L1A |
| | ENGL C1000H ^H Academic Reading and Writing - Honors | 3 | | |

¹ AT 314 is not part of this degree, but AT 333 has a prerequisite of AT 314.

Semester 2

14 Units

| CAT. | COURSE | UNIT | PREREQUISITES | GE AREA |
|------|--|------|---------------|---------|
| 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 | | |
| GE | any Area L1B (Oral Communication & Critical Thinking) course | 3 | | L1B |
| GE | any Area L7A (Physical Education) course | 1 | | L7A |

Second Year

Semester 3

15 Units

| CAT. | COURSE | UNIT | PREREQUISITES | GE AREA |
|------|--------|------|---------------|---------|
|------|--------|------|---------------|---------|

CAREER PATH

Career Options:

- Drivability Service Technician
- Smog Check Technician

Advising Notes:

- This degree can be completed using either the local AA/AS general education (GE) pattern or the Cal-G ETC transfer GE pattern. See a counselor to determine which pattern is best for you based on your academic goals.
- Students can substitute ESLW 340 for ENGL C1000/C1000H (formerly known as ENGWR 300/480).
- **Elective Courses:** any elective courses numbered 100-499, or having a 4-digit number starting with C.

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. This course also works toward satisfying GE Area L7B. See the Work Experience website for more information.

| CAT. | COURSE | UNIT | PREREQUISITES | GE AREA |
|------|--|------|---------------|---------|
| Req | AT 331 Advanced Automotive Electrical Systems | 3 | | |
| Req | AT 333 California State Smog Check Inspector Training | 6 | AT 314 | |
| GE | any Area L3 (Arts & Humanities) course | 3 | | L3 |
| GE | any Area L5 (Natural Sciences) course | 3 | | L5 |

Semester 4

16 Units

| CAT. | COURSE | UNIT | PREREQUISITES | GE AREA |
|------|---|------|----------------|---------|
| Req | AT 332 Engine Performance & Electronic Engine Controls | 6 | AT 331 and 333 | |
| RE | AT 298 ² Work Experience in Automotive Technology | 2 | | L7B |
| GE | any Area L4 (Social & Behavioral Sciences) course | 3 | | L4 |
| GE | any Area L6 (Ethnic Studies) course | 3 | | L6 |
| Elec | any elective course | 2 | | |

² Only 1 unit of AT 298 is required in the major, but 2 units are required for GE area L7B.

^H honors courses

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 |
| GE | General Education | A course that fulfills a specific general education requirement for a degree, which can be replaced with another course that meets the same requirement |
| Elec | Degree Elective | A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree |