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: 2026-27

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 College Composition **or** ENGL C1000H[H] Honors College Composition	3 3		L1A

[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

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-GETC 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

Second Year

Semester 3

15 Units

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

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

EXPLANATION OF CATEGORIES		
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

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