



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: 2024-25

GE Pattern: local AA/AS

Total Units: 63

First Year

Semester 1

15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	AT 100 ¹	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 ²	Automotive Engine Repair	3	
GE	ENGWR 300 / 480 ^H	College Composition	3	Ila WC

¹ or AT 103.

² AT 314 is not part of this degree, but AT 333 has a prerequisite of AT 314.

Semester 2

15 Units

CAT.	COURSE	TITLE	UNIT	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	MATH 300	Introduction to Mathematical Ideas	3	IIb MC
GE		any Area IIIb (Life Development Skills) course	2	IIIb

Second Year

Semester 3

16 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	AT 331	Advanced Automotive Electrical Systems	3	
Req	AT 333	California State Smog Check Inspector Training	6	
GE		any Area I (Humanities) course	3	I
GE		any PE activity course	1	IIIa
GE		any Area Va (American Institutions) course	3	Va

Semester 4

17 Units

CAREER PATH

Career Options:

- Drivability Service Technician
- Smog Check Technician

Advising Notes:

- Students can substitute ESLW 340 for ENGWR 300/480.

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. This course also works toward satisfying GE Area IIIb. See the [Work Experience website](#) for more information.

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	AT 332	Engine Performance & Electronic Engine Controls	6	
RE	AT 298 ³	Work Experience in Automotive Technology	2	IIIb
GE		any Area IV (Natural Sciences) course	3	IV
GE		any Area Vb (Social & Behavioral Sciences) course	3	Vb
GE		any Area VI (Ethnic/Multicultural Studies) course	3	VI

³ Only 1 unit of AT 298 is required in the major, but 2 units are required for GE area IIIb.

^H honors courses

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
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
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

Graduation Requirement

A course that fulfills a specific graduation requirement which can be replaced by another course that meets the same graduation requirement.

MC = Math Competency

WC = Writing Competency