



Green Vehicle Technology 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: 78

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		
Req	AT 181 Electrical Fundamentals and Multimeter Basics	3		
GE	ENGL C1000 Academic Reading and Writing or	3		L1A
	ENGL C1000H^H Academic Reading and Writing - Honors	3		

Semester 2

15 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	AT 110 Automotive Brakes	3		
RE	AT 130 Manual Drive Trains and Axles	3		
Req	AT 311 Suspension and Steering Systems	3		
RC	AT 314¹ Automotive Engine Repair	3		
GE	any Area L1B (Oral Communication & Critical Thinking) course	3		L1B

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

Second Year

Semester 3

12 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	AT 310 Heating and Air-Conditioning Systems	3		
Req	AT 330 Automotive Electrical Systems	3		

CAREER PATH

Career Options:

This program prepares students for entry-level positions in the automotive industry with emphasis on alternative fuel and electric vehicle drive systems and complete automotive systems diagnosis and repair.

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).

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.
- At the end of semester 5 students qualify for the **Green Vehicle Technology** certificate, the **Air Conditioning Service** certificate, the **Automotive Suspension and Steering** certificate, and the **Automotive Brakes** certificate.

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
RC	AT 333² California State Smog Check Inspector Training	6	AT 314	

² AT 333 is not part of this degree but is a prerequisite to AT 332.

Semester 4

12 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	AT 331 Advanced Automotive Electrical Systems	3		
Req	AT 341 Alternative Fuels and Advanced Technology Vehicles	3		
Req	AT 343 Electric Vehicle Construction, Diagnosis and Repair	3	AT 100	
Req	AT 345 Hybrid Electric Vehicle Technology, Service and Repair	3	AT 100	

Third Year

Semester 5

12 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
Req	AT 332 Engine Performance & Electronic Engine Controls	6	AT 331 and 333	
Req	AT 347 Advanced Hybrid and Electric Vehicle Technology Service and Repair	3	AT 100	
RE	AT 298³ Work Experience in Automotive Technology	2		L7B
Elec	any Area L7A (Physical Education) course⁴	1		L7A

³ Only 1 unit of AT 298 is required in the major, but 2 units are required for GE area L7B.

⁴ Students in majors (like this one) with 45 units or more of required coursework are exempt from the Area L7 general education requirement. [See a counselor](#) if you wish to waive this requirement.

Semester 6

12 Units

CAT.	COURSE	UNIT	PREREQUISITES	GE AREA
GE	any Area L3 (Arts & Humanities) course	3		L3
GE	any Area L4 (Social & Behavioral Sciences) course	3		L4
GE	any Area L5 (Natural Sciences) course	3		L5
GE	any Area L6 (Ethnic Studies) course	3		L6

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
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
RC	Recommended Course	A course that is not part of this program but is included in its roadmap
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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