



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		LIA
	ENGL C1000H¹ 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 LIB (Oral Communication & Critical Thinking) course	3		LIB

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-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).

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

Published April 24, 2025