



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: 82

## First Year

### Semester 1

15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
RE	AT 100	Technical Basics for the Automotive Professional	3	
Req	AT 105	Mathematics for Automotive Technology	3	
Req	AT 180	Automotive Data Acquisition	3	
Req	AT 181	Electrical Fundamentals and Multimeter Basics	3	
GE	ENGWR 300 / 480 <sup>H</sup>	College Composition	3	Ila <b>WC</b>

### Semester 2

15 Units

CAT.	COURSE	TITLE	UNIT	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 314 <sup>1</sup>	Automotive Engine Repair	3	
GE	MATH 300	Introduction to Mathematical Ideas	3	IIb <b>MC</b>

<sup>1</sup> AT 314 is not part of this degree but is a prerequisite to AT 333.

## Second Year

### Semester 3

14 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	AT 310	Heating and Air-Conditioning Systems	3	
Req	AT 330	Automotive Electrical Systems	3	
RC	AT 333 <sup>2</sup>	California State Smog Check Inspector Training	6	
GE		any Area IIIb (Life Development Skills) course	2	IIIb

<sup>2</sup> AT 333 is not part of this degree but is a prerequisite to AT 332.

### Semester 4

15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	AT 331	Advanced Automotive Electrical Systems	3	
Req	AT 341	Alternative Fuels and Advanced Technology Vehicles	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:

- Students can substitute ESLW 340 for 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. 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	TITLE	UNIT	GE AREA
Req	AT 343	Electric Vehicle Construction, Diagnosis and Repair	3	
Req	AT 345	Hybrid Electric Vehicle Technology, Service and Repair	3	
GE		any Area I (Humanities) course	3	I

## Third Year

### Semester 5

13 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	AT 332	Engine Performance & Electronic Engine Controls	6	
Req	AT 347	Advanced Hybrid and Electric Vehicle Technology Service and Repair	3	
Req	AT 298 <sup>3</sup>	Work Experience in Automotive Technology	1	
GE		any Area IV (Natural Sciences) course	3	IV

<sup>3</sup> or AT 140

### Semester 6

10 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
GE		any Area IIIa (Physical Education) course	1	IIIa
GE		any Area Va (American Institutions) course	3	Va
GE		any Area Vb (Social & Behavioral Sciences) course	3	Vb
GE		any Area VI (Ethnic/Multicultural Studies) course	3	VI

#### 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

### 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

