



# Automotive Component Service Technician 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: 60

## First Year

### Semester 1

15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
RE	AT 100 <sup>1</sup>	Technical Basics for the Automotive Professional	3	
Req	AT 105	Mathematics for Automotive Technology	3	
Req	AT 110	Automotive Brakes	3	
Req	AT 180	Automotive Data Acquisition	3	
GE	ENGWR 300 / 480 <sup>H</sup>	College Composition	3	Ila <b>WC</b>

<sup>1</sup> or AT 103

### Semester 2

15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	AT 130	Manual Drive Trains and Axles	3	
Req	AT 311	Suspension and Steering Systems	3	
Req	AT 313	Automatic Transmission and Transaxles	3	
Req	AT 314	Automotive Engine Repair	3	
GE	MATH 300	Introduction to Mathematical Ideas	3	Iib <b>MC</b>

## Second Year

### Semester 3

15 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	AT 140	Advanced Automotive Skill and Speed Development	3	
Req	AT 181	Electrical Fundamentals and Multimeter Basics	3	
Req	AT 298 <sup>2</sup>	Work Experience in Automotive Technology	2	IIIb
Req	AT 310	Heating and Air-Conditioning Systems	3	
Req	AT 330	Automotive Electrical Systems	3	
GE		any Area IIIa (PE Activity) course	1	IIIa

<sup>2</sup> Only 1 unit of AT 298 is required in the major, but 2 units are required to fulfill GE area IIIb.

### Semester 4

15 Units

## CAREER PATH

### Career Options:

This degree prepares students for employment as a technician, shop foreman, or service manager for new car dealers, automotive repair shops, and fleet operators.

### Advising Notes:

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

### 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
GE		any Area I (Humanities) course	3	I
GE		any Area IV (Natural Sciences) course	3	IV
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

<sup>H</sup> 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
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

### 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