



Automotive Component Service Technician Certificate

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

Total Units: 37

First Year

Semester 1

12 Units

CAT.	COURSE	TITLE	UNIT
RE	AT 100 ¹	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

¹ or AT 103

Semester 2

12 Units

CAT.	COURSE	TITLE	UNIT
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

CAREER PATH

Career Options:

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

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. See the [Work Experience website](#) for more information.

Second Year

Semester 3

13 Units

CAT.	COURSE	TITLE	UNIT
Req	AT 140	Advanced Automotive Skill and Speed Development	3
Req	AT 181	Electrical Fundamentals and Multimeter Basics	3
Req	AT 310	Heating and Air-Conditioning Systems	3
Req	AT 330	Automotive Electrical Systems	3
Req	AT 298	Work Experience in Automotive Technology	1

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