

Automotive Technology, Certificate

Advancements in technology have greatly affected today's automotive technician. Being a good mechanic is not enough. Today a technician must possess excellent mechanical skills, be knowledgeable of electronics, be able to diagnose complex problems, and be committed to keeping pace with future advancements. More than 100,000 jobs are available to qualified applicants, but technical training and hands-on experience are required.

Students are trained on late-model vehicles with modern equipment used in a classroom and laboratory setting. Students must purchase their own books, supplies, and tools as required on the tool list.

Admission is conditional and depends on the student's ability to perform the essential functions identified for this program. Reasonable accommodations are considered.

Program: [Automotive Technology](#)

Type: Certificate

Area I: Written Composition

Item #	Title	Credits
ENG 101	English Composition I	3

Area II: Humanities and Fine Arts

Item #	Title	Credits
	Speech	3

Area III: Natural Sciences and Mathematics

Item #	Title	Credits
MTH 116	Mathematical Applications	3

Area V: Career and Technical Courses

Item #	Title	Credits
	ORT 100 OR ORI 101	1
CIS 146	Microcomputer Applications	3
ASE 101	Fundamentals of Automotive Technology	3
ASE 112	Electrical Fundamentals	3
ASE 121	Braking Systems	3
ASE 122	Steering and Suspension	3
ASE 124	Automotive Engines	3
ASE 130	Drive Train and Axles	3
ASE 133	Motor Vehicle Air Conditioning	3
ASE 212	Advanced Electrical and Electronic Systems	3
ASE 224	Manual Transmission/Transaxle	3
ASE 230	Automatic Transmission/Transaxle	3
ASE 239	Engine Performance	3
ASE 244	Engine Performance and Diagnostics	3
ASE 246	Automotive Emissions	3
ASE 263	Hybrid and Electric Vehicles	3
	Total credits:	Total Credits
		55

Course Sequencing

Automotive Technology Certificate Suggested Course Sequence First Semester

Item #	Title	Credits
ASE 101	Fundamentals of Automotive Technology	3
ASE 112	Electrical Fundamentals	3
ASE 121	Braking Systems	3
CIS 146	Microcomputer Applications	3
MTH 116	Mathematical Applications	3
	ORT 100 OR ORI 101	1

Upon successful completion of all Semester 1 courses students are:

- Eligible to take ASE A-1 Engine Repair Exam
- Eligible to take ASE A-5 Brakes Exam
- Eligible to take ASE A-6 Electrical/Electronic Systems Exam

Automotive Technology Certificate Suggested Course Sequence Second Semester

Item #	Title	Credits
ENG 101	English Composition I	3
ASE 122	Steering and Suspension	3
ASE 124	Automotive Engines	3
ASE 130	Drive Train and Axles	3

Upon successful completion of all Semester 2 courses students are:

- Eligible to take ASE A-4 Steering and Suspension Exam
- Eligible to take ASE A-3 Manual Drive Train and Axles Exam

Automotive Technology Certificate Suggested Course Sequence Third Semester

Item #	Title	Credits
	Speech	3
ASE 133	Motor Vehicle Air Conditioning	3
ASE 212	Advanced Electrical and Electronic Systems	3
ASE 239	Engine Performance	3

Upon successful completion of all Semester 3 courses students are:

- Eligible to take ASE A-7 Heating and Air Conditioning Exam

Automotive Technology Certificate Suggested Course Sequence Fourth Semester

Item #	Title	Credits
ASE 224	Manual Transmission/Transaxle	3
ASE 230	Automatic Transmission/Transaxle	3
ASE 244	Engine Performance and Diagnostics	3
ASE 246	Automotive Emissions	3
ASE 263	Hybrid and Electric Vehicles	3

Upon successful completion of all Semester 4 courses students are:

- Eligible to take the ASE A-2 Automatic Transmission/Transaxle Exam
- Eligible to take ASE A-8 Engine Performance Exam
- Eligible to take the L-3 Hybrid/Electric Vehicle Specialist Certification Exam