

AUTOMOTIVE TECHNOLOGY

AAS

Guided Pathway/Map

NOTE: The Guided Pathway below contains all the coursework required for degree/certificate completion. However, courses may be offered or taken in other semesters as long as prerequisites are met. Courses may be available days, nights, hybrid, and online.

	Course #	Course Name	Sem. Hours
Semester 1	ORI 101 OR ORT 100	Orientation to College OR Orientation for Career Students	1
	ASE101	Fundamentals of Automotive Technology	3
	ASE112	Electrical Fundamentals	3
	ASE121	Braking Systems	3
	CIS146	Microcomputer Applications	3
	MTH116	Mathematical Applications	3
		Eligible to take ASE A-1 Engine Repair Certification Exam	Semester Total: 16
		Eligible to take ASE A-5 Brakes Certification Exam	
		Eligible to take ASE A-6 Electrical/Electronics Systems Certification Exam	
Semester 2	ENG101	English Composition I	3
	ASE122	Steering and Suspension	3
	ASE124	Automotive Engines	3
	ASE130	Drive Train and Axles	3
		Eligible to take ASE A-4 Steering and Suspension Certification Exam	Semester Total: 12
		Eligible to take ASE A-3 Manual Drive Train and Axles Certification Exam	
Semester 3	Area II	Humanities/Fine Arts Elective	3
	ASE133	Motor Vehicle Air Conditioning	3
	ASE212	Advanced Electrical and Electronic Systems	3
	ASE239	Engine Performance	3
		Eligible to take ASE A-7 Heating and Air Conditioning Certification Exam	Semester Total: 12

AUTOMOTIVE TECHNOLOGY

AAS

Semester 4	Area III	Math/Science Elective	3-4
	ASE224	Manual Transmission/Transaxle	3
	ASE230	Automatic Transmissions/Transaxle	3
	ASE263	Hybrid and Electric Vehicles	3
		Eligible to take ASE A-2 Automatic Transmission/Transaxle Certification Exam	Semester Total: 12-13
		Eligible to take ASE L-3 Hybrid/Electric Vehicle Specialist Certification Exam	
Semester 5	Area IV	History/Social/Behavioral Science Elective	3
	SPH106 OR SPH107	Fundamentals of Oral Communication OR Fundamentals of Public Speaking	3
	ASE246	Automotive Emissions	3
	ASE244	Engine Performance and Diagnostics	3
		Eligible to take ASE A-8 Engine Performance Certification Exam	Semester Total: 12
		TOTAL HOURS REQUIRED FOR AAS	64-65

AUTOMOTIVE TECHNOLOGY

CERTIFICATE

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	Course #	Course Name	Sem. Hours
Semester 1	ORI 101 OR ORT 100	Orientation to College OR Orientation for Career Students	1
	CIS146	Microcomputer Applications	3
	MTH116	Mathematical Applications	3
	ASE101	Fundamentals of Automotive Technology	3
	ASE112	Electrical Fundamentals	3
	ASE121	Braking Systems	3
		Eligible to take ASE A-1 Engine Repair Certification Exam	Semester Total: 16
		Eligible to take ASE A-5 Brakes Certification Exam	
		Eligible to take ASE A-6 Electrical/Electronic Systems Certification Exam	
Semester 2	ENG 101	English Composition I	3
	ASE122	Steering and Suspension	3
	ASE124	Automotive Engines	3
	ASE130	Drive Train and Axles	3
		Eligible to take ASE A-4 Steering and Suspension Certification Exam	Semester Total: 12
		Eligible to take ASE A-3 Manual Drive Train and Axles Certification Exam	
Semester 3	SPH106 OR SPH 107	Fundamentals of Oral Communication OR Fundamentals of Public Speaking	3
	ASE133	Motor Vehicle Air Conditioning	3
	ASE212	Advanced Electrical and Electronic Systems	3
	ASE239	Engine Performance	3
		Eligible to take ASE A-7 Heating and Air Conditioning Certification Exam	Semester Total: 12

AUTOMOTIVE TECHNOLOGY

CERTIFICATE

Semester 4	ASE224	Manual Transmission/Transaxle	3
	ASE230	Automatic Transmission/Transaxle	3
	ASE244	Engine Performance and Diagnostics	3
	ASE246	Automotive Emissions	3
	ASE263	Hybrid and Electric Vehicles	3
		Eligible to take the ASE A-2 Automatic Transmission/Transaxle Certification Exam	Semester Total: 15
		Eligible to take the ASE A-8 Engine Performance Certification Exam	
		Eligible to take the ASE L-3 Hybrid/Electric Vehicle Specialist Certification Exam	
			Program Total: 55

Basic Automotive, Truck, and Tractor Service and Repair

STC

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	Course #	Course Name	Sem. Hours
Semester 1	ASE101	Fundamentals of Automotive Technology	3
	ASE112	Electrical Fundamentals	3
	ASE121	Braking Systems	3
	ASE122	Steering and Suspension	3
	ASE124	Automotive Engines	3
		Eligible to take ASE A-1 Engine Repair Certification Exam Eligible to take ASE A-5 Brakes Certification Exam Eligible to take ASE A-6 Electrical/Electronic Systems Certification Exam Eligible to take ASE A-4 Steering and Suspension Certification Exam	Semester Total: 15
Semester 2	ASE130	Drive Train and Axles	3
	ASE133	Motor Vehicle Air Conditioning	3
	ASE239	Engine Performance	3
	ASE291	Co-Op	3
		Eligible to take ASE A-7 Heating and Air Conditioning Certification Exam Eligible to take ASE A-8 Engine Performance Certification Exam	Semester Total: 12
			Program Total: 27

AUTOMOTIVE TECHNOLOGY

STC

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	Course #	Course Name	Sem. Hours
Semester 1	ASE101	Fundamentals of Automotive Technology	3
	ASE112	Electrical Fundamentals	3
	ASE121	Braking Systems	3
	ASE122	Steering and Suspension	3
		Eligible to take ASE A-1 Engine Repair Certification Exam Eligible to take ASE A-5 Brakes Certification Exam Eligible to take ASE A-6 Electrical/Electronic Systems Certification Exam Eligible to take ASE A-4 Steering and Suspension Certification Exam	Semester Total:12
Semester 2	ASE124	Automotive Engines	3
	ASE133	Motor Vehicle Air Conditioning	3
	ASE239	Engine Performance	3
		Eligible to take ASE A-7 Heating and Air Conditioning Certification Exam Eligible to take ASE A-8 Engine Performance Certification Exam	Semester Total: 9
			Program Total: 21

Lube Technician

STC

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	Course #	Course Name	Sem. Hours
Semester 1	ASE101	Fundamentals of Automotive Technology	3
	ASE112	Electrical Fundamentals	3
	ASE121	Braking Systems	3
	ASE122	Steering and Suspension	3
		ELIGIBLE TO TAKE ASE A-1 ENGINE REPAIR CERTIFICATION EXAM Eligible to take ASE A-5 Brakes Certification Exam Eligible to take ASE A-6 Electrical/Electronic Systems Certification Exam Eligible to take ASE A-4 Steering and Suspension Certification Exam	Semester Total:12

