



# PATHWAYS

Your Guide  
to Completion

## AUTOMOTIVE TECHNOLOGY Associate of Applied Science Degree

	Course #	Course Name	Credit Hours
Semester 1	ORI 101 OR ORT 100	Orientation to College OR Orientation for Career Students	1
	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
		<b>Eligible to take ASE A-1 Engine Repair Certification Exam</b> <b>Eligible to take ASE A-5 Brakes Certification Exam</b> <b>Eligible to take ASE A-6 Electrical/Electronics Systems Certification Exam</b>	<b>Semester Total: 16</b>
Semester 2	ENG 101	English Composition I	3
	ASE 122	Steering and Suspension	3
	ASE 124	Automotive Engines	3
	ASE 130	Drive Train and Axles	3
		<b>ELIGIBLE FOR STACKABLE STC – Lube Technician</b> <b>Eligible to take ASE A-4 Steering and Suspension Certification Exam</b> <b>Eligible to take ASE A-3 Manual Drive Train and Axles Certification Exam</b>	<b>Semester Total: 12</b>
Semester 3	Area II Elective	Humanities/Fine Arts Elective	3
	ASE 133	Motor Vehicle Air Conditioning	3
	ASE 212	Advanced Electrical and Electronic Systems	3
	ASE 239	Engine Performance	3
		<b>ELIGIBLE FOR STACKABLE STC – Automotive Technology</b> <b>Eligible to take ASE A-7 Heating and Air Conditioning Certification Exam</b>	<b>Semester Total: 12</b>
Semester 4	Area III Elective	Math/Science Elective	3-4
	ASE 224	Manual Transmission/Transaxle	3
	ASE 230	Automatic Transmissions/Transaxle	3
	ASE 263	Hybrid and Electric Vehicles	3
		<b>Eligible to take ASE A-2 Automatic Transmission/Transaxle Certification Exam</b> <b>Eligible to take ASE L-3 Hybrid/Electric Vehicle Specialist Certification Exam</b>	<b>Semester Total: 12-13</b>
Semester 5	Area IV Elective	History/Social/Behavioral Science Elective	3
	SPH 106 OR SPH 107	Fundamentals of Oral Communication OR Fundamentals of Public Speaking	3
	ASE 246	Automotive Emissions	3
	ASE 244	Engine Performance and Diagnostics	3
		<b>Eligible to take ASE A-8 Engine Performance Certification Exam</b> <b>ELIGIBLE FOR STACKABLE CERTIFICATE - Automotive Technology</b>	<b>Semester Total: 12</b>
		<b>ELIGIBLE FOR AAS – Automotive Technology</b>	<b>Program Total: 64-65</b>

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## AUTOMOTIVE TECHNOLOGY Certificate

	Course #	Course Name	Credit Hours
Semester 1	ORI 101/ ORT 100	Orientation to College <b>OR</b> Orientation for Career Students	1
	CIS 146	Microcomputer Applications	3
	MTH 116	Mathematical Applications	3
	ASE 101	Fundamentals of Automotive Technology	3
	ASE 112	Electrical Fundamentals	3
	ASE 121	Braking Systems	3
			<b>Eligible to take ASE A-1 Engine Repair Certification Exam</b> <b>Eligible to take ASE A-5 Brakes Certification Exam</b> <b>Eligible to take ASE A-6 Electrical/Electronic Systems Certification Exam</b>
Semester 2	ENG 101	English Composition I	3
	ASE 122	Steering and Suspension	3
	ASE 124	Automotive Engines	3
	ASE 130	Drive Train and Axles	3
		<b>Eligible for STC – Lube Technician</b> <b>Eligible to take ASE A-4 Steering and Suspension Certification Exam</b> <b>Eligible to take ASE A-3 Manual Drive Train and Axles Certification Exam</b>	<b>Semester Total: 12</b>
Semester 3	SPH 106/ SPH 107	Fundamentals of Oral Communication <b>OR</b> Fundamentals of Public Speaking	3
	ASE 133	Motor Vehicle Air Conditioning	3
	ASE 212	Advanced Electrical and Electronic Systems	3
	ASE 239	Engine Performance	3
		<b>ELIGIBLE FOR STACKABLE STC – Automotive Technology</b> <b>Eligible to take ASE A-7 Heating and Air Conditioning Certification Exam</b>	<b>Semester Total: 12</b>
Semester 4	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
		<b>Eligible to take the ASE A-2 Automatic Transmission/Transaxle Certification Exam</b> <b>Eligible to take the ASE A-8 Engine Performance Certification Exam</b> <b>Eligible to take the ASE L-3 Hybrid/Electric Vehicle Specialist Certification Exam</b>	<b>Semester Total: 15</b>
		<b>ELIGIBLE FOR CERTIFICATE - Automotive Technology</b>	<b>Program Total: 55</b>

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# PATHWAYS

Your Guide  
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<b>AUTOMOTIVE TECHNOLOGY Short-Term Certificate</b>			
	<b>Course #</b>	<b>Course Name</b>	<b>Credit Hours</b>
Semester 1	ASE 101	Fundamentals of Automotive Technology	3
	ASE 112	Electrical Fundamentals	3
	ASE 121	Braking Systems	3
	ASE 122	Steering and Suspension	3
		<b>ELIGIBLE FOR STACKABLE STC – Lube Technician</b> 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	<b>Semester Total: 12</b>
Semester 2	ASE 124	Automotive Engines	3
	ASE 133	Motor Vehicle Air Conditioning	3
	ASE 239	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	<b>Semester Total: 9</b>
		<b>ELIGIBLE FOR STC – Automotive Technology</b>	<b>Program Total: 21</b>

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# PATHWAYS

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<b>LUBE TECHNICIAN Short-Term Certificate</b>			
	<b>Course #</b>	<b>Course Name</b>	<b>Credit Hours</b>
Semester 1	ASE 101	Fundamentals of Automotive Technology Eligible to take ASE G-1 General Repair Certification Exam	3
	ASE 112	Electrical Fundamentals	3
	ASE 121	Braking Systems Eligible to take ASE A-5 Brakes Certification Exam	3
	ASE 122	Steering and Suspension Eligible to take ASE A-4 Steering and Suspension Certification Exam	3
		<b>ELIGIBLE FOR STACKABLE STC – Lube Technician</b> Eligible to take ASE G-1 General Repair Certification Exam Eligible to take ASE A-5 Brakes Certification Exam Eligible to take ASE A-4 Steering and Suspension Certification Exam	<b>Semester Total: 12</b>
		<b>ELIGIBLE FOR STC – Lube Technician</b>	<b>Program Total: 12</b>

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## BASIC AUTOMOTIVE, TRUCK, AND TRACTOR SERVICE & REPAIR Short-Term Certificate

	Course #	Course Name	Credit Hours
Semester 1	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
		<b>ELIGIBLE FOR STACKABLE STC - Lube Technician</b> <b>Eligible to take ASE A-1 Engine Repair Certification Exam</b> <b>Eligible to take ASE A-5 Brakes Certification Exam</b> <b>Eligible to take ASE A-6 Electrical/Electronic Systems Certification Exam</b> <b>Eligible to take ASE A-4 Steering and Suspension Certification Exam</b>	<b>Semester Total: 15</b>
Semester 2	ASE 130	Drive Train and Axles	3
	ASE 133	Motor Vehicle Air Conditioning	3
	ASE 239	Engine Performance	3
	ASE 291	Co-Op	3
		<b>Eligible to take ASE A-7 Heating and Air Conditioning Certification Exam</b> <b>Eligible to take ASE A-8 Engine Performance Certification Exam</b>	<b>Semester Total: 12</b>
		<b>ELIGIBLE FOR STC - Basic Automotive, Truck, and Tractor Service &amp; Repair</b>	<b>Program Total: 27</b>

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## DIESEL & HEAVY EQUIPMENT MECHANIC Short-Term Certificate Dual Enrollment

	Course #	Course Name	Credit Hours
Semester 1	DEM 104	Basic Engines	3
	DEM 105	Preventive Maintenance	3
Semester 2	DEM 111	Equipment Safety/Mechanical Fundamentals	3
	DEM 156	CDL License Test Preparation	3
			<b>Semester Total: 12</b>
		<b>ELIGIBLE FOR STC – Diesel &amp; Heavy Equipment Mechanic</b>	<b>Program Total: 12</b>

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