

# AIR CONDITIONING AND REFRIGERATION

## Associate in Applied Science Degree

### Guided Pathway/Map

**NOTE:** The Guided Pathway below contain 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 ORI 105	College Orientation OR Orientation and Student Success	1-3
	MTH116	Mathematical Applications	3
	ACR111	Principles of Refrigeration	3
	ACR112	HVAC/R Service Procedures	3
	ACR113	Refrigeration Piping Practices	3
	ACR121	Principles of Electricity for HVAC	3
		<b>ELIGIBLE FOR STACKABLE STC – Basic HVAC Technician</b>	Semester Total:16-18
Semester 2	ACR122	HVAC/R Electrical Circuits	3
	ACR123	HVAC/R Electrical Components	3
	ACR210	Trouble Shooting HVAC/R Systems	3
	CIS146	Microcomputer Applications	3
		<b>ELIGIBLE FOR STACKABLE STC – HVAC Electrical Technician</b>	Semester Total: 12
Semester 3	ACR119	Fundamentals of Gas Heating Systems Gas Heat (Gas Heat Ready to Work certification exam)	3
	ACR147	Refrigeration Transition and Recovery (EPA Certification Exam)	3
	ACR148	Heat Pump Systems I	3
	ACR149	Heat Pump Systems II (Heat Pump Ready to Work certification exam)	3
	ENG101	English Composition I	3
		<b>ELIGIBLE FOR STACKABLE STC – Basic HVAC Gas Heat and Heat Pump Technician</b>	Semester Total: 15

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Semester 4	Area II	Science/Math Elective	3-4
	SPH106 OR SPH107	Fundamentals of Oral Communication OR Fundamentals of Public Speaking	3
	PSY200	General Psychology	3
	ACR132	Residential Air Conditioning	3
			Semester Total: 12-13
Semester 5	Area II	Humanities/Fine Arts Elective	3
	ACR134	Ice Machines	3
	ACR203	Commercial Refrigeration	3
	ACR192	HVAC Apprenticeship/Internship	3
	BUS100	Introduction to Business	3
		<b>ELIGIBLE FOR AAS – AIR CONDITIONING AND REFRIGERATION</b>	Semester Total: 15
			Program Total: 70-73

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## Certificate

### Guided Pathway/Map

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	Course #	Course Name	Sem. Hours
Semester 1	ORI 101	College Orientation	1
	MTH116	Mathematical Applications	3
	ACR111	Principles of Refrigeration	3
	ACR112	HVAC/R Service Procedures	3
	ACR113	Refrigeration Piping Practices	3
	ACR121	Principles of Electricity for HVAC	3
		<b>ELIGIBLE FOR STACKABLE STC – Basic HVAC Technician</b>	Semester Total:16
Semester 2	ACR122	HVAC/R Electrical Circuits	3
	ACR123	HVAC/R Electrical Components	3
	ACR210	Trouble Shooting HVAC/R Systems	3
	CIS146	Microcomputer Applications	3
		<b>ELIGIBLE FOR STACKABLE STC – HVAC Electrical Technician</b>	Semester Total: 12
Semester 3	ACR119	Fundamentals of Gas Heating Systems Gas Heat (Gas Heat Ready to Work certification exam)	3
	ACR147	Refrigeration Transition and Recovery (EPA Certification Exam)	3
	ACR148	Heat Pump Systems I	3
	ACR149	Heat Pump Systems II (Heat Pump Ready to Work certification exam)	3
	ENG101	English Composition I	3
		<b>ELIGIBLE FOR STACKABLE STC – Basic HVAC Gas Heat and Heat Pump Technician</b>	Semester Total: 15

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## Certificate

Semester 4	SPH106 OR SPH107	Fundamentals of Oral Communication OR Fundamentals of Public Speaking	3
	ACR132	Residential Air Conditioning	3
	ACR134	Ice Machines	3
	ACR192	HVAC Apprenticeship/Internship	3
	ACR203	Commercial Refrigeration	3
			Semester Total: 15 Program Total: 58

# AIR CONDITIONING AND REFRIGERATION

## Short Certificate

### Guided Pathway/Map

**NOTE:** The Guided Pathway below contain 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	ACR111	Principles of Refrigeration	3
	ACR112	HVAC/R Service Procedures	3
	ACR121	Principles of Electricity for HVAC	3
	ACR122	HVAC/R Electrical Circuits	3
	ACR123	HVAC/R Electrical Components	3
		<b>ELIGIBLE FOR STACKABLE STC – Basic HVAC Technician</b>	Semester Total:15
Semester 2	ACR119	Fundamentals of Gas Heating Systems Gas Heat (Gas Heat Ready to Work certification exam)	3
	ACR147	Refrigeration Transition and Recovery (EPA Certification Exam)	3
	ACR148	Heat Pump Systems I	3
	ACR149	Heat Pump Systems II (Heat Pump Ready to Work certification exam)	3
		<b>ELIGIBLE FOR STACKABLE STC – Basic HVAC Gas Heat and Heat Pump Technician</b>	Semester Total: 12
		<b>Short Certificate</b>	Program Total: 27