



**AIR CONDITIONING AND REFRIGERATION**  
**Associate of Applied Science Degree**

	Course #	Course Name	Credit Hours
Semester 1	ORI 101/ ORT 100	Orientation to College <b>OR</b> Orientation for Career Students	1
	MTH 116/ Higher	Mathematical Applications <b>OR</b> Higher	3
	ACR 111	Principles of Refrigeration	3
	ACR 112	HVAC/R Service Procedures	3
	ACR 113	Refrigeration Piping Practices	3
	ACR 121	Principles of Electricity for HVAC	3
		<b>Semester Total: 16</b>	
Semester 2	ACR 122	HVAC/R Electrical Circuits	3
	ACR 123	HVAC/R Electrical Components	3
	ACR 210	Trouble Shooting HVAC/R Systems	3
	CIS 146	Microcomputer Applications	3
		<b>Semester Total: 12</b>	
Semester 3	ACR 119	Fundamentals of Gas Heating Systems Gas Heat (Gas Heat Ready to Work Certification Exam)	3
	ACR 147	Refrigeration Transition and Recovery (EPA Certification Exam)	3
	ACR 148	Heat Pump Systems I	3
	ACR 149	Heat Pump Systems II (Heat Pump Ready to Work Certification Exam)	3
	ENG 101	English Composition I	3
		<b>ELIGIBLE FOR STACKABLE STC – Basic HVAC Technician</b> <b>ELIGIBLE FOR STACKABLE STC – Air Conditioning &amp; Refrigeration</b>	<b>Semester Total: 15</b>
Semester 4	Area III Elective	Science/Math Elective	3 - 4
	SPH 106/ SPH 107	Fundamentals of Oral Communication <b>OR</b> Fundamentals of Public Speaking	3
	PSY 200	General Psychology	3
	ACR 132	Residential Air Conditioning	3
		<b>Semester Total: 12 - 13</b>	
Semester 5	Area II Elective	Humanities/Fine Arts Elective	3
	ACR 134	Ice Machines	3
	ACR 203	Commercial Refrigeration	3
	ACR 209	Commercial Air Conditioning Systems	3
	BUS 100	Introduction to Business	3
		<b>Semester Total: 15</b>	
		<b>ELIGIBLE FOR STACKABLE CERTIFICATE – Air Conditioning &amp; Refrigeration</b> <b>ELIGIBLE FOR AAS – Air Conditioning &amp; Refrigeration</b>	<b>Program Total: 70 - 71</b>

**NOTE:** The Guided Pathway provided above includes all the necessary coursework for degree/certificate fulfillment. However, courses can be offered or taken in alternate semesters, provided prerequisites are fulfilled. Courses may be scheduled during daytime, evening, hybrid, or online sessions. For specific course requirements, consult the ALABAMA TRANSFERS GUIDE @ <https://alabamatransfers.com> or contact the transfer institution.



## AIR CONDITIONING AND REFRIGERATION Certificate

	Course #	Course Name	Credit Hours
Semester 1	ORI 101/ ORT 100	Orientation to College <b>OR</b> Orientation for Career Students	1
	MTH 116	Mathematical Applications OR Higher	3
	ACR 111	Principles of Refrigeration	3
	ACR 112	HVAC/R Service Procedures	3
	ACR 113	Refrigeration Piping Practices	3
	ACR 121	Principles of Electricity for HVAC	3
		<b>Semester Total: 16</b>	
Semester 2	ACR 122	HVAC/R Electrical Circuits	3
	ACR 123	HVAC/R Electrical Components	3
	ACR 210	Trouble Shooting HVAC/R Systems	3
	CIS 146	Microcomputer Applications	3
		<b>Semester Total: 12</b>	
Semester 3	ACR 119	Fundamentals of Gas Heating Systems Gas Heat ( <b>Gas Heat Ready to Work certification exam</b> )	3
	ACR 147	Refrigeration Transition and Recovery ( <b>EPA Certification Exam</b> )	3
	ACR 148	Heat Pump Systems I	3
	ACR 149	Heat Pump Systems II ( <b>Heat Pump Ready to Work certification exam</b> )	3
	ENG 101	English Composition I	3
		<b>ELIGIBLE FOR STACKABLE STC – Basic HVAC Technician ELIGIBLE FOR STACKABLE STC – Air Conditioning &amp; Refrigeration</b>	<b>Semester Total: 15</b>
Semester 4	SPH 106/ SPH 107	Fundamentals of Oral Communication <b>OR</b> Fundamentals of Public Speaking	3
	ACR 132	Residential Air Conditioning	3
	ACR 134	Ice Machines	3
	ACR 203	Commercial Refrigeration	3
	ACR 209	Commercial Air Conditioning Systems	3
		<b>Semester Total: 15</b>	
		<b>ELIGIBLE FOR CERTIFICATE– Air Conditioning &amp; Refrigeration</b>	<b>Program Total: 58</b>

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# PATHWAYS

Your Guide  
to Completion

## AIR CONDITIONING AND REFRIGERATION Short-Term Certificate

	Course #	Course Name	Credit Hours
Semester 1	ACR 111	Principles of Refrigeration	3
	ACR 112	HVAC/R Service Procedures	3
	ACR 121	Principles of Electricity for HVAC	3
	ACR 122	HVAC/R Electrical Circuits	3
	ACR 123	HVAC/R Electrical Components	3
			<b>Semester Total: 15</b>
Semester 2	ACR 119	Fundamentals of Gas Heating Systems Gas Heat ( <b>Gas Heat Ready to Work certification exam</b> )	3
	ACR 147	Refrigeration Transition and Recovery ( <b>EPA Certification Exam</b> )	3
	ACR 148	Heat Pump Systems I	3
	ACR 149	Heat Pump Systems II ( <b>Heat Pump Ready to Work certification exam</b> )	3
			<b>Semester Total: 12</b>
		<b>ELIGIBLE FOR STACKABLE STC – Basic HVAC Technician</b>	<b>Program Total:</b>
		<b>ELIGIBLE FOR STC – Air Conditioning and Refrigeration</b>	<b>27</b>

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# PATHWAYS

Your Guide  
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BASIC HVAC TECHNICIAN Short-Term Certificate			
	Course #	Course Name	Credit Hours
Semester 1	ACR 111	Principles of Refrigeration	3
	ACR 112	HVAC/R Service Procedures (EPA Certification Exam) *Section 608 Technician (EPA) Certification	3
			<b>Semester Total: 6</b>
Semester 2	ACR 121	Principles of Electricity for HVAC	3
	ACR 122	HVAC/R Electrical Circuits	3
	ACR 147	Refrigeration Transition and Recovery *Prior credit awarded if student passes EPA after ACR 112	3
			<b>Semester Total: 9</b>
		<b>ELIGIBLE FOR STC – Basic HVAC Technician</b>	<b>Program Total: 15</b>

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