

Air Conditioning/Refrigeration Technology

Associate in Occupational Technology (AOT)

Available: Shoals Campus

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Students desiring to receive the AOT Award must complete all major certificate courses, one minor certificate course of study, and the required credit hours of general education courses in Areas I, II, III, and IV. Upon completion of all the courses listed, students are eligible to receive the Associate in Occupational Technology Degree. Students desiring to take general education courses for transfer to another institution should consult an advisor for proper general education course selection.

Entering students are required to complete ORI 107. Transfer students are exempt from this requirement.

NOTE: Computer competency skills are embedded within one or more courses required in this curriculum.

Program: [Air Conditioning/Refrigeration Technology](#)

Entrance Requirements

- Submit a completed application;
- High School diploma or equivalent required;
- Age Requirement:
- Submit official high school/high school equivalent transcripts, if applicable;
- Submit official college transcripts, if applicable;
- Satisfy [Placement Testing](#) requirements.

Area I: Written Composition

Item #	Title	Credits:
	ENG 101 or ENG 100	3

Area II: Humanities and Fine Arts

Preferred ART 100 or MUS 101. *Note SPH107 or foreign language may NOT be the one course designated to fulfill the SACSCOC Core Requirement for Humanities and Fine Arts.

Item #	Title	Credits:
	Humanities and Fine Arts Elective	3

Area III: Natural Science and Mathematics

A minimum of 3 hours in MTH 116 or MTH 100 or Higher is required. The additional 3-4 hours of degree creditable coursework may be taken from disciplines of math, biology, chemistry, physical science, physics, environmental technology.

Preferred PHS 111

Item #	Title	Credits:
	MTH 116, MTH 100 or higher	3
	ACT Natural Science Elective	4

Area IV: History, Social and Behavioral Sciences

Courses may be taken from the disciplines of history, economics, geography, political science, psychology, and sociology.

Preferred HIS 101, PSY 200, or SOC 200

Please choose from one of the following History, Social, and Behavioral Science electives.

Item #	Title	Credits:
	Social and Behavioral Sciences Elective	3

Area V: Technical Concentration and Electives

Item #	Title	Credits:
ACR 111	Principles of Refrigeration	3
ACR 112	HVACR Service Procedures	3
ACR 113	Refrigeration Piping Practices	3
ACR 119	Fundamentals of Gas Heating Systems	3
ACR 121	Principles of Electricity for HVACR	3
ACR 123	HVACR Electrical Components	3
ACR 126	Commercial Heating Systems	3
ACR 132	Residential Air Conditioning	3
ACR 147	Refrigeration Transition and Recovery Theory	3
ACR 148	Heat Pump Systems I	3
ACR 181	Special Topics in Air Conditioning and Refrigeration I	3
ACR 195	Co-Op	3
ACR 203	Commercial Refrigeration	3
ACR 205	System Sizing and Air Distribution	3
ACR 209	Commercial Air Conditioning Systems	3

Minor Requirements: Plumbing Technology

Item #	Title	Credits:
PLB 111	Introduction to Plumbing	3
PLB 112	Plumbing Applications	3
PLB 113	Pipes & Fittings	3
PLB 114	Joining Pipes & Fittings	3

Minor Requirements: Electrical Technology

Item #	Title	Credits:
ELT 114	Residential Wiring Methods	3
ELT 115	Residential Wiring Methods II	3
ELT 131	Commercial/Industrial Wiring I	3
ELT 117	Ac/DC Machines	3

Minor Requirements: Welding (Fall and Spring Semester Minor)

Item #	Title	Credits:
WDT 108	SMAW Fillet/OFC	3
WDT 109	SMAW Fillet/Pac/Cac	3
WDT 122	SMAW Fillet/OFC Lab	3
WDT 123	SMAW Fillet/Pac/CAC Lab	3

Minor Requirements: Welding (Summer Semester Minor)

Item #	Title	Credits:
WDT 110	Industrial Blueprint Reading	3
WDT 119	Gas Metal Arc/Flux Cored Arc Welding Theory	3
WDT 124	Gas Metal Arc/Flux Cored Arc Welding Lab	3
WDT 219	Welding Inspection & Testing	3

MSSC Certified Production Technician

Item #	Title	Credits:
ADM 291	Mssc Safety Course	3
ADM 292	MSSC Quality Practices and Measurement Course	3
ADM 293	MSSC Manufacturing Processes and Production Course	3
ADM 294	MSSC Maintenance Awareness Course	3
	Minimum Credit Hours for Graduation:	72