

Air Conditioning/Refrigeration, STC

This program provides training in which students gain the skills, knowledge, and experience for employment in Heating Ventilation, Air Conditioning, and Refrigeration (HVAC/R) occupations.

The students will acquire techniques and skills necessary to install, maintain, repair, or replace HVAC/R equipment. The student will have the opportunity to learn various phases of the fundamental principles of controls and electrical systems associated with HVAC/R. Courses focus on residential and light commercial HVAC/R systems.

Students who complete all courses listed in a concentration will be awarded a short certificate. Admission is conditional and depends on the student's ability to perform the essential functions identified for this program. Reasonable accommodations are considered.

Program: [Air Conditioning/Refrigeration](#)

Type: Short Certificate

Area V: Career and Technical Courses

Item #	Title	Credits
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/R	3
ACR 122	HVAC/R Electric Circuits	3
ACR 123	HVAC/R Electrical Components	3
ACR 147	Refrigerant Transition and Recovery Theory	3
ACR 148	Heat Pump Systems I	3
ACR 210	Troubleshooting HVAC/R Systems	3
	Total credits:	27

Course Sequencing

Air Conditioning/Refrigeration Short Certificate (Ventress) Suggested Course Sequence FIRST SEMESTER

Item #	Title	Credits
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/R	3
ACR 147	Refrigerant Transition and Recovery Theory	3

Air Conditioning/Refrigeration Short Certificate (Ventress) Suggested Course Sequence SECOND SEMESTER

Item #	Title	Credits
ACR 122	HVAC/R Electric Circuits	3
ACR 123	HVAC/R Electrical Components	3
ACR 148	Heat Pump Systems I	3
ACR 210	Troubleshooting HVAC/R Systems	3