

Air Conditioning/ Refrigeration Mechanics

Certificate in Applied Science

Credit Requirements: 29 Semester Credit Hours

Day

The Air Conditioning/Refrigeration Mechanics program prepares students for entry-level positions in the residential and light commercial heating and air conditioning field.

Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses

First Semester – Fall

ACR 106	Basic Electricity for HVAC/R	4
ACR 108	Refrigeration Fundamentals	3
ACR 109	Tools and Service II	2
		Total 9

Second Semester – Spring

ACR 111	Gas Heating Principles	3
ACR 122	Principles of Air Conditioning	5
ACR 206	Advanced Electricity	2
		Total 10

Third Semester – Summer

ACR 131	Commercial Refrigeration	4
ACR 210	Heat Pumps	4
ACR 224	Codes and Ordinances	2
		Total 10

Air Conditioning/ Refrigeration Advanced Certificate

Certificate in Applied Science

Credit Requirements: 13 Semester Credit Hours

This certificate covers more advanced principles in ACR for individuals who have been in the field and desire more formal education or students who have an excellent understanding of basic ACR principles and desire more specific training on equipment and/or troubleshooting. It is strongly recommended that students who do not have a solid fundamental ACR foundation start with the ACR Beginning Certificate.

Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Fall Start

First Semester – Fall

ACR 210	Heatpumps	4
ACR 131	Commercial Refrigeration	4
		Total 8

Second Semester – Spring

ACR 111	Gas Heating	3
ACR 206	Advanced Electricity	2
		Total 5

Spring Start

First Semester – Spring

ACR 111	Gas Heating	3
ACR 206	Advanced Electricity	2
		Total 5

Second Semester – Fall

ACR 131	Commercial Refrigeration	4
ACR 210	Heatpumps	4
		Total 8

Automatic Transmission Repair Specialist

Certificate in Applied Science

Credit Requirements: 11 Semester Credit Hours

The Automatic Transmission Repair Specialist certificate program provides instruction on the theory, service and repair of automobile manual and automatic transmission, and transaxle and conventional drive axles. Graduates of this program should be able to perform most phases of transmission repair including diagnosis, disassembly, measurement, preassembly checks, reassembly and unit testing. Graduates with the required work experience should be prepared for the ASE certification tests in Automatic Transmission and Transaxle and Manual Drive Train and Axles.

Admission into this program requires a valid driver's license and qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

Recommended Sequence of Courses

First Semester – Spring

AUT 152	Automatic Transmission	4
AUT 153	Automatic Transmission Diagnosis	3
		Total 7