









Career and Technical Education Pathway Engineering and Applied Technology

Air Conditioning, Heating \$ Refrigeration Technology Diploma

The Air Conditioning, Heating, and Refrigeration Technology curriculum provides the basic knowledge to develop skills necessary to work with residential and light commercial systems. Topics include mechanical refrigeration, heating and cooling theory, electricity, controls, and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools, and instruments.

Diploma graduates will be able to assist in the startup, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. **Upon completion of the diploma, all diploma courses transfer towards the AAS degree. Students must earn a C or higher in all AHR and ELC classes.**

GENERAL EDUCATION COURS	ES (certificate general education is opti	onal)	
Course Prefix/Num	Course Title		
PHY 121*	Applied Physics I	4	_ SHC
<u>COM 110*</u>	Introduction to Communications	3	SHC
Total SHC for General Education Courses:		7	SHC
CORE COURSES			
Course Prefix/Num	Course Title		
<u>AHR 110</u>	Intro. to Refrigeration	5	SHC
AHR 111	HVACR Electricity	3	SHC
AHR 112	Heating Technology	4	SHC
AHR 113	Comfort Cooling	4	SHC
AHR 114	Heat Pump Technology	4	SHC
AHR 130	HVAC Controls	3	SHC
AHR 213	HVACR Building Code	2	SHC
Total SHC for Core Courses:		25	SHC
OTHER MAJOR COURSES			
Course Prefix/Num	Course Title		
AHR 160	Refrigerant Certification	1	SHC
AHR 170	Heating Lab	1	SHC
AHR 171	Comfort Cooling Lab	1	SHC
ELC 132	Electrical Drawings	2	SHC
<u>WBL 111</u>	Work-Based Learning I	1	SHC
<u>WLD 113</u>	Soldering and Brazing	2	SHC
			CIIC
Total SHC for Other Major Courses:		8	SHC
Total SHC for Program		40	

Estimated Costs:

Textbooks: \$150 per semester; Materials: \$30-95 a semester

^{*}Requires benchmark testing