

TRI-COUNTY
COMMUNITY COLLEGE

**A.A.S. IN
AIR CONDITIONING,
HEATING AND
REFRIGERATION
TECHNOLOGY**



Aaron Cope
Class of 2015
A.A.S. in Air Conditioning, Heating
and Refrigeration Technology

2018-2019

A.A.S. IN AIR CONDITIONING, HEATING AND REFRIGERATION TECHNOLOGY

(A35100) 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. In addition, the AAS degree covers residential building codes, residential system sizing, and advanced comfort systems.

Diploma graduates should be able to assist in the startup, preventive maintenance, service, repair, and/or installation of residential and light commercial systems. AAS degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

Fall Semester 1			Lecture	Lab	Credit
ACA	111	College Student Success	1	0	1
ENG	111	Writing & Inquiry	3	0	3
AHR	110	Introduction to Refrigeration	2	6	5
ELC	112	DC/AC Electricity	2	6	5
ELC	118	National Electrical Code	1	2	2
ELC	119	NEC Calculations	1	2	2
			Total	18	

Spring Semester 1			Lecture	Lab	Credit
MAT	110	Math Measurement & Literacy	2	2	3
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1
AHR	112	Heating Technology	2	4	4
AHR	113	Comfort Cooling	2	4	4
AHR	130	HVAC Controls	2	2	3
			Total	19	

Fall Semester 2			Lecture	Lab	Credit
ENG	114	Professional Research & Reporting	3	0	3
AHR	114	Heat Pump Technology	2	4	4
AHR	115	Refrigeration Systems	1	3	2
AHR	125	HVACR Electronics	2	2	3
AHR	133	HVAC Servicing	2	6	4
			Total	16	

Spring Semester 2			Lecture	Lab	Credit
AHR	211	Residential System Design	2	2	3
AHR	212	Advanced Comfort Systems	2	6	4
AHR	213	HVACR Building Code	1	2	2
		*Humanities Gen Ed Requirement	3	0	3
		*Social Science Gen Ed Requirement	3	0	3
			Total	15	

TOTAL HOURS 68

**Please see the section titled "General Education Requirements for A.A.S. programs" at the end of the Program of Study section for specific courses that fulfill these requirements.*

2018-2019

DIPLOMA IN AIR CONDITIONING, HEATING AND REFRIGERATION TECHNOLOGY

(D35100)

			Lecture	Lab	Credit
ENG	111	Writing & Inquiry	3	0	3
AHR	110	Introduction to Refrigeration	2	6	5
ELC	112	DC/AC Electricity	2	6	5
ELC	118	National Electrical Code	1	2	2
ELC	119	NEC Calculations	1	2	2
MAT	110	Math Measurement & Literacy	2	2	3
ELC	131	Circuit Analysis I	3	3	4
ELC	131A	Circuit Analysis I Lab	0	3	1
AHR	112	Heating Technology	2	4	4
AHR	113	Comfort Cooling	2	4	4
AHR	130	HVAC Controls	2	2	3
				Total	36

2018-2019

CERTIFICATE IN AIR CONDITIONING, HEATING AND REFRIGERATION TECHNOLOGY

(C35100)

			Lecture	Lab	Credit
AHR	110	Introduction to Refrigeration	2	6	5
AHR	112	Heating Technology	2	4	4
AHR	113	Comfort Cooling	2	4	4
ELC	112	DC/AC Electricity	2	6	5
				Total	18

2018-2019