

# PROGRAMS

## AIR CONDITIONING, HEATING AND REFRIGERATION TECHNOLOGY

**Contact(s):** Samuel Benton

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 should be able to assist in the startup, preventive maintenance, service, repair, and/or installation of residential and light commercial systems.

### Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze and evaluate a broad variety of AHR technologies
- Exhibit industry standard skills and competencies
- Exhibit industry standards and competencies for Air Conditioning, Heating and Refrigeration design technologies

### Air Conditioning, Heating and Refrigeration Technology Diploma - D35100

First Year		
Fall		Credit Hours
ACA 111	College Student Success	1
AHR 110	Introduction to Refrigeration	5
AHR 111	HVACR Electricity	3
AHR 112	Heating Technology	4
ENG 101 or ENG 111	Applied Communications I Writing and Inquiry	3
	Credit Hours	16
Spring		Credit Hours
AHR 113	Comfort Cooling	4
AHR 114	Heat Pump Technology	4
AHR 133	HVAC Servicing	4
AHR 160	Refrigerant Certification	1
MAT 110	Mathematical Measurement and Literacy	3
WBL 110 or WBL 111	World of Work Work-Based Learning I	1
	Credit Hours	17
Summer		Credit Hours
AHR 130	HVAC Controls	3
AHR 212	Advanced Comfort Systems	4
AHR 250	Heating, Ventilating, and Air	2
	Credit Hours	9
	Total Credit Hours	42

### Air Conditioning, Heating and Refrigeration Technology Diploma (Part-time Pathway)

Term 1		Credit Hours
ACA 111	College Student Success	1

## Programs

AHR 110	Introduction to Refrigeration	5
AHR 111	HVACR Electricity	3
	Credit Hours	9
<b>Term 2</b>		<b>Credit Hours</b>
AHR 113	Comfort Cooling	4
AHR 114	Heat Pump Technology	4
MAT 110	Mathematical Measurement and Literacy	3
	Credit Hours	11
<b>Term 3</b>		<b>Credit Hours</b>
AHR 130	HVAC Controls	3
AHR 250	Heating, Ventilating, and Air	2
	Credit Hours	5
<b>Term 4</b>		<b>Credit Hours</b>
AHR 112	Heating Technology	4
ENG 101 or ENG 111	Applied Communications I Writing and Inquiry	3
	Credit Hours	7
<b>Term 5</b>		<b>Credit Hours</b>
AHR 133	HVAC Servicing	4
AHR 160	Refrigerant Certification	1
WBL 110 or WBL 111	World of Work Work-Based Learning I	1
	Credit Hours	6
<b>Term 6</b>		<b>Credit Hours</b>
AHR 212	Advanced Comfort Systems	4
	Credit Hours	4
	Total Credit Hours	42

### Basic HVACR Certificate - C35100B

<b>First Year</b>		
<b>Fall</b>		<b>Credit Hours</b>
ACA 111	College Student Success	1
AHR 110	Introduction to Refrigeration	5
AHR 111	HVACR Electricity	3
AHR 112	Heating Technology	4
AHR 160	Refrigerant Certification	1
	Credit Hours	14
	Total Credit Hours	14

### Intermediate HVACR Certificate - C35100I

<b>First Year</b>		
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<b>Fall</b>		<b>Credit Hours</b>
	Credit Hours	0
<b>Spring</b>		<b>Credit Hours</b>
AHR 113	Comfort Cooling	4
AHR 114	Heat Pump Technology	4
AHR 133	HVAC Servicing	4
AHR 160	Refrigerant Certification	1
	Credit Hours	13
<b>Summer</b>		<b>Credit Hours</b>
AHR 130	HVAC Controls	3
AHR 212	Advanced Comfort Systems	4
AHR 250	Heating, Ventilating, and Air	2
	Credit Hours	9
	Total Credit Hours	22

**Air Conditioning, Heating & Refrigeration - CCP**

<b>First Year</b>		
<b>Fall</b>		<b>Credit Hours</b>
ACA 111	College Student Success	1
AHR 110	Introduction to Refrigeration	5
AHR 111	HVACR Electricity	3
	Credit Hours	9
<b>Spring</b>		<b>Credit Hours</b>
AHR 113	Comfort Cooling	4
AHR 114	Heat Pump Technology	4
AHR 160	Refrigerant Certification	1
	Credit Hours	9
	Total Credit Hours	18