

Air Conditioning, Heating, and Refrigeration Technology Diploma (D35100) – 40-41 Credit Hours

2022 - 2023

Fall – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
AHR 110	<i>Intro to Refrigeration</i> (1 st 8 week) (S) (A)	2	6	5
AHR 112	<i>Heating Technology</i> (2 nd 8 week) (A)	2	4	4
AHR 111	<i>HVACR Electricity</i> (1 st 8 week) (A)	2	2	3
ENG 111	Writing and Inquiry	3	0	3
Total				15

Fall – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
AHR 113	<i>Comfort Cooling</i> (A)	2	4	4
AHR 151	HVAC Duct Systems I	1	3	2
AHR 130	<i>HVACR Electronics</i> (2 nd 8 weeks) (A)	1	3	3
	Mathematics Elective with Lab			3-4
CIS 110	Introduction to Computers (A) or <i>Choose one of the following groups:</i>	2	2	3
WBL 110	World of Work and ★★	0	0	1
WBL 111	Work-Based Learning I and ★★	0	10	1
WBL 115	Work-Based Learning Seminar I ★★	1	0	1
	or			
WBL 112	Work-Based Learning I and ★★	0	20	2
WBL 115	Work-Based Learning Seminar I ★★	1	0	1
Total				15-16

Major Electives				
Course Number	Course Name	Lec	Lab	Credit
AHR 115	Refrigeration Systems (2nd 8 week)	1	3	2
<i>AHR 180</i>	<i>HVACR Customer Relations</i>	<i>1</i>	<i>0</i>	<i>1</i>
AHR 213	HVACR Building Code (A)	1	2	2
AHR 211	Residential System Design (A)	2	2	3
AHR 140	All-Weather Systems	1	3	2
AHR 152	HVAC Duct Systems II	1	3	2
AHR 240	Hydronic Heating	1	3	2

- ★ - Designates classes preparing students to sit for NATE certification tests
- (A)** – Students may receive credit for this course by successfully completing the articulated non-credit course, or submitting evidence of an articulated industry certification.
See: <https://spcc.edu/credit-articulation-at-spcc/>
- (S)** – Designates recommended classes for students starting in spring of the first year

Spring – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
AHR 114	<i>Heat Pump Technology</i> ★	2	4	4
	Major Electives			3
	Major Electives			3
Total				10

Bold – Core Courses (no substitutes)

Highlighted Yellow – Heating Fundamentals Certificate (C31100B)

Italics – Heat Pump Certificate (C35100C)

★★ – Students must speak with the Director of Work-Based Learning before selecting WBL courses.

Major Electives (cont.)				
Course Number	Course Name	Lec	Lab	Credit
AHR 133	HVAC Servicing	2	6	4
AHR 250	HVAC System Diagnostics	0	4	2
WLD 112	Basic Welding Processes	1	3	2