

Air Conditioning, Heating, and Refrigeration Technology AAS (A35100) – 68 Credit Hours

2020 - 2021

Fall – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
AHR 110	Intro to Refrigeration (A)	2	6	5
AHR 112	Heating Technology (2nd 8 week) (A)	2	4	4
AHR 111	HVACR Electricity (1st 8 week) (A)	2	2	3
AHR 113	Comfort Cooling (A)	2	4	4
Total				16

Fall – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
AHR 115	Refrigeration Systems	1	3	2
ENG 111	Writing and Inquiry	3	0	3
AHR 151	HVAC Duct Systems I	1	3	2
AHR 255	Indoor Air Quality (2 nd 8 week)	1	2	2
	Mathematics Elective			3
	Social/Behavioral Science Elective	3	0	3
	Major Elective			3
Total				18

Major Electives				
Course Number	Course Name	Lec	Lab	Credit
AHR 133	HVAC Servicing	2	6	4
AHR 250	HVAC System Diagnostics	0	4	2
BPR 115	Elc/Fluid Power Diagrams	1	2	2
BUS 280	REAL Small Business	4	0	4
WBL 110	World of Work	1	0	1
WBL 111	Work-Based Learning I (and)	0	0	1
WBL 115	Work-Based Learning Seminar I	1	0	1

- ★ - Designates classes preparing students to sit for NATE certification tests
- ★★ - Designates classes preparing students to sit for NC H3-II contractor license.
- (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/>

Spring – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
CIS 110	Introduction to Computers (S) (A)	2	2	3
AHR 125	HVACR Electronics (A)	1	3	3
AHR 114	Heat Pump Technology ★	2	4	4
AHR 213	HVACR Building Code (S) ★★ (A)	1	2	2
AHR 211	Residential System Design (S) ★★ (A)	2	2	3
	Communications Elective			3
Total				18

Spring – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
AHR 180	HVACR Customer Relations	1	0	1
AHR 212	Advanced Comfort Systems	2	6	4
AHR 240	Hydronic Heating	1	3	2
	Humanities/Fine Arts Elective	3	0	3
	Major Elective			6
Total				16

Major Electives (cont.)				
Course Number	Course Name	Lec	Lab	Credit
WBL 121	Work-Based Learning II	1	0	1
ELC 131	Circuit Analysis I	3	3	4
ELC 131A	Circuit Analysis I Lab	0	3	1
HYD 110	Hydraulics/Pneumatics I (A)	2	3	3
<i>ISC 112</i>	<i>Industrial Safety (A)</i>	2	0	2
WLD 112	Basic Welding Processes	1	3	2
AHR 152	HVAC Duct Systems II	1	3	2
AHR 140	All-Weather Systems	1	3	2

Bold – Core Courses (no substitutes)

Highlighted Yellow – Heating Fundamentals Certificate (C31100B)

Italics – Heat Pump Certificate (C35100C)

(S) – Designates recommended classes for students starting in spring of the first year