

Air Conditioning, Heating, and Refrigeration Technology

D 35 10 0 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 should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems.

General Education Courses

<i>Communications</i>	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Clinical</i>	<i>Credits</i>
COM 101 Workplace Communications		S1	3	0	0	3
ENG 102 Applied Communications II		F1	3	0	0	3

Major Courses: Core

<i>Core courses</i>	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Clinical</i>	<i>Credits</i>
AHR 110 Introduction to Refrigeration		F1	2	6	0	5
AHR 111 HVAC/R Electricity		F1	2	2	0	3
AHR 112 Heating Technology		F1	2	4	0	4
AHR 113 Comfort Cooling		F1	2	4	0	4
AHR 114 Heat Pump Technology	[AHR 110 or AHR 113]	S1	2	4	0	4
AHR 120 HVACR Maintenance		S1	1	3	0	2
AHR 130 HVAC Controls	[AHR 111 or ELC 111]	S1	2	2	0	3
AHR 160 Refrigerant Certification		S1	1	0	0	1
AHR 180 HVAC/R Customer Service		S1	1	0	0	1
AHR 255 Indoor Air Quality		S1	1	2	0	2

Other Required Hours

<i>Courses</i>	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Clinical</i>	<i>Credits</i>
CIS 111 Basic PC Literacy		F1	1	2	0	2
COE 111 Co-op Work Experience I	[2.0 GPA/9 CrHrs in Major]	S1	0	0	10	1

Total Semester Hours Required for Diploma:

38

Air Conditioning, Heating, and Refrigeration Technology

C 35 10 0I Certificate: Entry Level I

	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Credits</i>
AHR 110 Intro to Refrigeration		F1	2	6	5
AHR 111 HVAC/R Electricity		F1	2	2	3
AHR 112 Heating Technology		F1	2	4	4
AHR 113 Comfort Cooling		F1	2	4	4

Total Semester Hours Required for Certificate:

16

C 35 10 0II Certificate: Entry Level II

	<i>[prerequisite]</i>	<i>Seq</i>	<i>Class</i>	<i>Lab</i>	<i>Credits</i>
AHR 114 Heat Pump Technology	[AHR110 or AHR 113]	S1	2	4	4
AHR 120 HVAC Maintenance		S1	1	3	2
AHR 130 HVAC Controls	[AHR 111 or ELC 111]	S1	2	2	3
AHR 160 Refrigerant Certification		S1	1	0	1
AHR 180 HVAC/R Customer Service		S1	1	0	1
AHR 255 Indoor Air Quality		S1	1	2	2

Total Semester Hours Required for Certificate:

13



College of The Albemarle
 Air Conditioning, Heating, &
 Refrigeration Technology (D 35 10 0)
 Graduation Check Sheet – 2009-2011 Catalog

Listed below are the requirements for your degree program. It is your responsibility to keep this sheet up-to-date and review it with your advisor to know what you need to graduate. Complete the Graduation Application one semester prior to the intended date of graduation.

Title	Sequence	Credit	Grade	Semester
I. GENERAL EDUCATION COURSES				
Communications				
COM-101 Workplace Communications	S1	3	_____	_____
ENG 102 Applied Communications II	F1	3	_____	_____
II. MAJOR COURSES: CORE				
AHR 110 Introduction to Refrigeration	F1	5	_____	_____
AHR 111 HVAC/R Electricity	F1	3	_____	_____
AHR 112 Heating Technology	F1	4	_____	_____
AHR 113 Comfort Cooling	F1	4	_____	_____
AHR 114 Heat Pump Technology[P=AHR110 or AHR113]	S1	4	_____	_____
AHR 120 HVAC Maintenance	S1	2	_____	_____
AHR 130 HVAC Controls[P=AHR111 or ELC111]	S1	3	_____	_____
AHR 160 Refrigerant Certification	S1	1	_____	_____
AHR 180 HVAC/R Customer Service	S1	1	_____	_____
AHR 255 Indoor Air Quality	S1	2	_____	_____
III. OTHER REQUIRED HOURS				
CIS 111 Basic PC Literacy	F1	2	_____	_____
COE 111 Co-op Work Experience I [P=2.0 GPA/9 CrHrs in Major]	S1	1	_____	_____
Total Semester Hours Required for Diploma		38		



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Listed below are the requirements for your degree program. It is your responsibility to keep this sheet up-to-date and review it with your advisor to know what you need to graduate. Complete the Graduation Application one semester prior to the intended date of graduation.

Title	Sequence	Credit	Grade	Semester
II. MAJOR COURSES: CORE				
AHR 110 Introduction to Refrigeration	F1	5	_____	_____
AHR 111 HVAC/R Electricity	F1	3	_____	_____
AHR 112 Heating Technology	F1	4	_____	_____
AHR 113 Comfort Cooling	F1	4	_____	_____
Total Semester Hours Required for Certificate		16		



College of The Albemarle
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 Graduation Check Sheet – 2009-2011 Catalog

Listed below are the requirements for your degree program. It is your responsibility to keep this sheet up-to-date and review it with your advisor to know what you need to graduate. Complete the Graduation Application one semester prior to the intended date of graduation.

Title	Sequence	Credit	Grade	Semester
II. MAJOR COURSES: CORE				
AHR 114 Heat Pump Technology[<i>P=AHR110 or AHR113</i>]	S1	4	_____	_____
AHR 120 HVAC Maintenance	S1	2	_____	_____
AHR 130 HVAC Controls[<i>P=AHR111 or ELC111</i>]	S1	3	_____	_____
AHR 160 Refrigerant Certification	S1	1	_____	_____
AHR 180 HVAC/R Customer Service	S1	1	_____	_____
AHR 255 Indoor Air Quality	S1	2	_____	_____
Total Semester Hours Required for Certificate		13		