Air Conditioning, Heating and Refrigeration Technology

The Air Conditioning, Heating and Refrigeration Technology (AHR) curriculum provides the basic knowledge for developing the skills necessary to work with residential and light commercial systems.

Topics include heating, comfort cooling, refrigeration, electricity and schematic diagrams, along with residential and commercial controls methodologies. Two nationally recognized certificates in Building Automation are available along with extensive exposure to industry tools, instruments and safety. The diploma program covers air conditioning, furnaces, heat pumps, tools and instruments. While the Associate in Applied Science degree also covers mechanical and fuel gas codes, residential and commercial system sizing, and advanced comfort systems, including light commercial applications.

Throughout the program students are exposed to the Critical Core; an articulated pathway so students achieve proficiency in Critical Thinking, (Written/Oral) Communication, Personal Growth & Cultural Literacy, and Information Technology & Quantitative Literacy. The Critical Core empowers all AHR students to academic, professional and personal success.

Diploma graduates are able to assist in the start-up, preventive maintenance, service, repair, and installation of residential and light commercial systems. A.A.S. degree graduates are also able to demonstrate an understanding of system selection, air balancing, advanced system operations, and proper applications.

Visit Career Coach for career information.

Air Conditioning, Heating and Refrigeration Technology (A35100)

Degree Awarded
An A.A.S. Degree in Air Conditioning, Heating and Refrigeration Technology is awarded by the College upon completion of this program.

Admissions
• Completion of a high school diploma is required for entering A.A.S. program.
• Many courses have prerequisites or co-requisites. Check the Courses section for details.

Contact Information
For more information, call the program office at 704.330.4446 or the Construction Technologies Division at 704.330.4408.

Visit Career Coach for career information.

General Education Requirements
EN 111 Writing and Inquiry 3.0
EN 112 Writing and Research in the Disciplines 3.0

Take 1 course from the following:
MAT 110 Mathematical Measurement and Literacy 3.0
MAT 171 Precalculus Algebra 3.0

Select 3 credits of the following:
ECO 251 Principles of Microeconomics 3.0
ECO 252 Principles of Macroeconomics 3.0
HIS 111 World Civilizations I 3.0
HIS 112 World Civilizations II 3.0
HIS 131 American History I 3.0
HIS 132 American History II 3.0
SOC 101 Introduction to Sociology 3.0

Select 3 credits of the following:
ART 111 Art Appreciation 3.0
ART 114 Art History Survey I 3.0
ART 115 Art History Survey II 3.0
HUM 120 Cultural Studies 3.0
HUM 130 Myth in Human Culture 3.0
MUS 110 Music Appreciation 3.0
MUS 112 Introduction to Jazz 3.0
PHI 215 Philosophical Issues 3.0
PHI 240 Introduction to Ethics 3.0
REL 110 World Religions 3.0

Select 3 credits of the following:
ART 111 Art Appreciation 3.0
ART 114 Art History Survey I 3.0
ART 115 Art History Survey II 3.0
HUM 120 Cultural Studies 3.0
HUM 130 Myth in Human Culture 3.0
MUS 110 Music Appreciation 3.0
MUS 112 Introduction to Jazz 3.0
PHI 215 Philosophical Issues 3.0
PHI 240 Introduction to Ethics 3.0
REL 110 World Religions 3.0

Major Requirements
AHR 110 Introduction to Refrigeration 5.0
AHR 112 Heating Technology 4.0
AHR 113 Comfort Cooling 4.0
AHR 114 Heat Pump Technology 4.0
AHR 115 Refrigeration Systems 2.0
AHR 130 HVAC Controls 3.0
AHR 140 All-Weather Systems 2.0
AHR 160 Refrigerant Certification 1.0
AHR 180 HVAC Customer Relations 1.0
AHR 211 Residential System Design 3.0
AHR 212 Advanced Comfort Systems 4.0
AHR 213 HVAC Building Code 2.0
AHR 215 Commercial HVAC Controls 2.0
AHR 225 Commercial System Design 3.0
AHR 255 Indoor Air Quality 2.0
AHR 263 Energy Management 2.0
BPR 130 Print Reading-Construction 3.0
ELC 111 Introduction to Electricity 3.0

Select 3 credits of the following:
AHR 293 Selected Topics in HVACR 3.0
BUS 230 Small Business Management 3.0
ELC 117 Motors and Controls 3.0
ELC 125 Diagrams and Schematics 3.0
ELC 128 Introduction to Programmable Logic Controller 3.0
ELC 220 Photovoltaic System Technology 3.0

Technical Electives

Air Conditioning, Heating and Refrigeration Technology Diploma (D35100)

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. A.A.S. degree graduates should be able to demonstrate an understanding of system selection and balance and advanced systems.

Diploma Awarded

A Diploma in Air Conditioning, Heating and Refrigeration Technology is awarded by the college upon completion of this program.

Graduates may apply for advanced standing in the Air Conditioning, Heating and Refrigeration Technology Degree Program.

Note: Basic tools are required for some courses. A list may be obtained from the instructor.

Admissions

• Completion of a high school diploma or equivalent is required as the foundation of a career in this area.
• Many courses have prerequisites or co-requisites; check the Courses section for details.

Contact Information

For more information, call the program office at 704.330.4479 or the Construction Technologies Division at 704.330.4408.

Notes: Students who have completed a diploma level general education course must take the appropriate associate degree general education course if they choose to pursue the higher credential.

General Education Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ENG 111</td>
<td>Writing and Inquiry</td>
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<tr>
<td>MAT 110</td>
<td>Mathematical Measurement and Literacy</td>
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Major Requirements

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AHR 110</td>
<td>Introduction to Refrigeration</td>
<td>5.0</td>
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<tr>
<td>ELC 111</td>
<td>Introduction to Electricity</td>
<td>3.0</td>
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<tr>
<td>AHR 112</td>
<td>Heating Technology</td>
<td>4.0</td>
</tr>
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<td>AHR 113</td>
<td>Comfort Cooling</td>
<td>4.0</td>
</tr>
<tr>
<td>AHR 114</td>
<td>Heat Pump Technology</td>
<td>4.0</td>
</tr>
</tbody>
</table>

Total Credits 71

Air Conditioning, Heating and Refrigeration Technology Certificates (C35100)

Specialization Certificates

The certificates listed below can be earned in the Air Conditioning, Heating and Refrigeration (A35100) program.

• Air Conditioning, Heating and Refrigeration Technology with a Specialization in Heating Service (C35100-C1) (p. 2)
• Air Conditioning, Heating and Refrigeration Technology with a Specialization in Air Conditioning Service (C35100-C2) (p. 3)
• Air Conditioning, Heating and Refrigeration Technology with a Specialization in All Weather Systems Service (C35100-C3) (p. 3)
• Air Conditioning, Heating and Refrigeration Technology with a Specialization in Commercial System Design and Maintenance (C35100-C4) (p. 3)
• Air Conditioning, Heating and Refrigeration Technology with a Specialization in Refrigeration Service (C35100-C5) (p. 3)
• Air Conditioning, Heating and Refrigeration Technology with a Specialization in HVAC Contracting (C35100-C6) (p. 3)
• Air Conditioning, Heating and Refrigeration Technology with a Specialization in AHR Controls (C35100-C7) (p. 3)
• Air Conditioning, Heating and Refrigeration Technology with a Specialization in Introduction to Energy (C35100-C8) (p. 3)
• Air Conditioning, Heating and Refrigeration Technology with a Specialization in Apartment/Rental Maintenance (C35100-C9) (p. 3)
• Air Conditioning, Heating and Refrigeration Technology with a Specialization in Indoor Air Quality & Energy Management (C35100-10) (p. 4)

Admissions

• Completion of a high school diploma or equivalent is encouraged as the foundation of a career in this area.
• Many courses have prerequisites or co-requisites. Check the Courses section for details.

Contact Information

For more information, call the program office at 704.330.4479 or the Construction Technologies Division at 704.330.4408.

Air Conditioning, Heating and Refrigeration Technology with a Specialization in Heating Service (C35100-C1)

Major Requirements
### Air Conditioning, Heating and Refrigeration Technology with a Specialization in Air Conditioning Service (C35100-C2)

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>AHR 110</td>
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</tr>
<tr>
<td>ELC 111</td>
<td>Introduction to Electricity</td>
<td>3.0</td>
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<tr>
<td>AHR 112</td>
<td>Heating Technology</td>
<td>4.0</td>
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<td>AHR 130</td>
<td>HVAC Controls</td>
<td>3.0</td>
</tr>
<tr>
<td>AHR 180</td>
<td>HVACR Customer Relations</td>
<td>1.0</td>
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<tr>
<td>or WBL 111</td>
<td>Work-Based Learning I</td>
<td></td>
</tr>
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<td><strong>Total Credits</strong></td>
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</table>

### Air Conditioning, Heating and Refrigeration Technology with a Specialization in All Weather Systems Service (C35100-C3)

**Note:** Requires a prerequisite of C35100-C2. This certificate is also available to students enrolled in Career and College Promise.

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHR 110</td>
<td>Introduction to Refrigeration</td>
<td>5.0</td>
</tr>
<tr>
<td>AHR 112</td>
<td>Heating Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>AHR 114</td>
<td>Heat Pump Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>AHR 213</td>
<td>HVACR Building Code</td>
<td>2.0</td>
</tr>
<tr>
<td>AHR 140</td>
<td>All-Weather Systems</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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</table>

### Air Conditioning, Heating and Refrigeration Technology with a Specialization in HVAC Contracting (C35100-C6)

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHR 211</td>
<td>Residential System Design</td>
<td>3.0</td>
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<tr>
<td>AHR 213</td>
<td>HVACR Building Code</td>
<td>2.0</td>
</tr>
<tr>
<td>AHR 225</td>
<td>Commercial System Design</td>
<td>3.0</td>
</tr>
<tr>
<td>BPR 130</td>
<td>Print Reading-Construction</td>
<td>3.0</td>
</tr>
<tr>
<td>BUS 230</td>
<td>Small Business Management</td>
<td>3.0</td>
</tr>
<tr>
<td>or BUS 139</td>
<td>Entrepreneurship I</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
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</table>

### Air Conditioning, Heating and Refrigeration Technology with a Specialization in AHR Controls (C35100-C7)

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ELC 111</td>
<td>Introduction to Electricity</td>
<td>3.0</td>
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<tr>
<td>AHR 130</td>
<td>HVAC Controls</td>
<td>3.0</td>
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<td>AHR 212</td>
<td>Advanced Comfort Systems</td>
<td>4.0</td>
</tr>
<tr>
<td>ELC 125</td>
<td>Diagrams and Schematics</td>
<td>2.0</td>
</tr>
<tr>
<td>ELC 128</td>
<td>Introduction to Programmable Logic Controller</td>
<td>3.0</td>
</tr>
<tr>
<td>AHR 215</td>
<td>Commercial HVAC Controls</td>
<td>2.0</td>
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<tr>
<td><strong>Total Credits</strong></td>
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### Air Conditioning, Heating and Refrigeration Technology with a Specialization in Introduction to Energy (C35100-C8)

**Major Requirements**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>AHR 110</td>
<td>Introduction to Refrigeration</td>
<td>5.0</td>
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<tr>
<td>AHR 112</td>
<td>Heating Technology</td>
<td>4.0</td>
</tr>
<tr>
<td>ELC 111</td>
<td>Introduction to Electricity</td>
<td>3.0</td>
</tr>
<tr>
<td>EUS 110</td>
<td>Introduction to Electric Utility Industry</td>
<td>4.0</td>
</tr>
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<td><strong>Total Credits</strong></td>
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</tr>
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</table>

### Air Conditioning, Heating and Refrigeration Technology Certificate with a Specialization in Apartment/Rental Maintenance (C35100-C9)

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHR 110</td>
<td>Introduction to Refrigeration</td>
<td>5.0</td>
</tr>
<tr>
<td>AHR 160</td>
<td>Refrigerant Certification</td>
<td>1.0</td>
</tr>
<tr>
<td>AHR 180</td>
<td>HVACR Customer Relations</td>
<td>1.0</td>
</tr>
<tr>
<td>ELC 110</td>
<td>Residential Wiring</td>
<td>4.0</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>
Air Conditioning, Heating and Refrigeration Technology

WOL 110 Basic Construction Skills 3.0

Total Credits 14

Air Conditioning, Heating and Refrigeration Technology Certificate Specialization in Indoor Air Quality and Energy Management (C35100-10)

This certificate is available to high school students through Career and College Promise.

Major Requirements

BPR 130 Print Reading-Construction 3.0
AHR 211 Residential System Design 3.0
AHR 215 Commercial HVAC Controls 2.0
AHR 255 Indoor Air Quality 2.0
AHR 263 Energy Management 2.0
ELC 111 Introduction to Electricity 3.0

Total Credits 15

AHR 110. Introduction to Refrigeration. 5.0 Credits. Class-2.0. Clinical-0.0. Lab-6.0. Work-0.0

This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components: refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade.

AHR 111. HVACR Electricity. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-4.0. Work-0.0

This course introduces electricity as it applies to HVACR equipment. Emphasis is placed on power sources, interaction of electrical components, wiring of simple circuits, and the use of electrical test equipment. Upon completion, students should be able to demonstrate good wiring practices and the ability to read simple wiring diagrams.

AHR 112. Heating Technology. 4.0 Credits. Class-2.0. Clinical-0.0. Lab-4.0. Work-0.0

This course covers the fundamentals of heating including oil, gas, and electric heating systems. Topics include safety, tools and instrumentation, system operating characteristics, installation techniques, efficiency testing, electrical power, and control systems. Upon completion, students should be able to explain the basic oil, gas, and electrical heating systems and describe the major components of a heating system.

AHR 113. Comfort Cooling. 4.0 Credits. Class-2.0. Clinical-0.0. Lab-4.0. Work-0.0

This course covers the installation procedures, system operations, and maintenance of residential and light commercial comfort cooling systems. Topics include terminology, component operation, and testing and repair of equipment used to control and produce assured comfort levels. Upon completion, students should be able to use psychrometrics, manufacturer specifications, and test instruments to determine proper system operation.

AHR 114. Heat Pump Technology. 4.0 Credits. Class-2.0. Clinical-0.0. Lab-4.0. Work-0.0

This course covers the principles of air source and water source heat pumps. Emphasis is placed on safety, modes of operation, defrost systems, refrigerant charging, and system performance. Upon completion, students should be able to understand and analyze system performance and perform routine service procedures. This course covers the principles of air source and water source heat pumps. Emphasis is placed on safety, modes of operation, defrost systems, refrigerant charging, and system performance. Upon completion, students should be able to understand and analyze system performance and perform routine service procedures. Prerequisites: Take One: AHR 110 or AHR 113

AHR 115. Refrigeration Systems. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0

This course introduces refrigeration systems and applications. Topics include defrost methods, safety and operational control, refrigerant piping, refrigerant recovery and charging, and leak testing. Upon completion, students should be able to assist in installing and testing refrigeration systems and perform simple repairs. Prerequisites: Take AHR 110

AHR 125. HVACR Electronics. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0. Work-0.0

This course introduces the common electronic control components in HVAC systems. Emphasis is placed on identifying electronic components and their functions in HVAC systems and motor-driven control circuits. Upon completion, students should be able to identify components, describe control circuitry and functions, and use test instruments to measure electronic circuit values and identify malfunctions. Prerequisites: Take One: AHR 111, ELC 111, or ELC 112

AHR 130. HVAC Controls. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0. Work-0.0

This course covers the types of controls found in residential and commercial comfort systems. Topics include electrical and electronic controls, control schematics and diagrams, test instruments, and analysis and troubleshooting of electrical systems. Upon completion, students should be able to diagnose and repair common residential and commercial comfort system controls. Prerequisites: Take One: AHR 111, ELC 111, or ELC 112

AHR 140. All-Weather Systems. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0

This course covers the principles of combination heating and cooling systems including gas-electric, all-electric, and oil-electric systems. Topics include PTAC’s and package and split-system units. Upon completion, students should be able to understand and perform routine maintenance procedures. Prerequisites: Take One: AHR 112 or AHR 113

AHR 160. Refrigerant Certification. 1.0 Credit. Class-1.0. Clinical-0.0. Lab-0.0. Work-0.0

This course covers the requirements for the EPA certification examinations. Topics include small appliances, high pressure systems, and low pressure systems. Upon completion, students should be able to demonstrate knowledge of refrigerants and be prepared for the EPA certification examinations.
AHR 180. HVACR Customer Relations. 1.0 Credit. Class-1.0. Clinical-0.0. Lab-0.0. Work-0.0
This course introduces common business and customer relation practices that may be encountered in HVACR. Topics include business practices, appearance of self and vehicle, ways of handling customer complaints, invoices, telephone communications, and warranties. Upon completion, students should be able to present themselves to customers in a professional manner, understand how the business operates, complete invoices, and handle complaints.

AHR 211. Residential System Design. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0. Work-0.0
This course introduces the principles and concepts of conventional residential heating and cooling system design. Topics include heating and cooling load estimating, basic psychrometrics, equipment selection, duct system selection, and system design. Upon completion, students should be able to design a basic residential heating and cooling system.

AHR 212. Advanced Comfort Systems. 4.0 Credits. Class-2.0. Clinical-0.0. Lab-6.0. Work-0.0
This course covers water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pump systems including variable speed drives and controls. Emphasis is placed on the application, installation, and servicing of water-source systems and the mechanical and electronic control components of advanced comfort systems. Upon completion, students should be able to test, analyze, and troubleshoot water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pumps. Prerequisites: Take AHR 114

AHR 213. HVACR Building Code. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-2.0. Work-0.0
This course covers the North Carolina codes that are applicable to the design and installation of HVACR systems. Topics include current North Carolina codes as applied to HVACR design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of North Carolina codes that apply to specific areas of the HVACR trade.

AHR 215. Commercial HVAC Controls. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0
This course introduces HVAC control systems used in commercial applications. Topics include electric/electronic control systems, pneumatic control systems, DDC temperature sensors, humidity sensors, pressure sensors, wiring, controllers, actuators, and controlled devices. Upon completion, students should be able to verify or correct the performance of common control systems with regard to sequence of operation and safety. Prerequisites: Take One: AHR 111, ELC 111, or ELC 112

AHR 225. Commercial System Design. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-3.0. Work-0.0
This course covers the principles of designing heating and cooling systems for commercial buildings. Emphasis is placed on commercial heat loss/gain calculations, applied psychrometrics, air-flow calculations, air distribution system design, and equipment selection. Upon completion, students should be able to calculate heat loss/gain, design and size air and water distribution systems, and select equipment.

AHR 235. Refrigeration Design. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0. Work-0.0
This course covers the principles of commercial refrigeration system operation and design. Topics include walk-in coolers, walk-in freezers, system components, load calculations, equipment selection, defrost systems, refrigerant line sizing, and electric controls. Upon completion, students should be able to design, adjust, and perform routine service procedures on a commercial refrigeration system. Prerequisites: Take AHR 110

AHR 240. Hydronic Heating. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0
This course covers the accepted procedures for proper design, installation, and balance of hydronic heating systems for residential or commercial buildings. Topics include heating equipment; pump, terminal unit, and accessory selection; piping system selection and design; and pipe sizing and troubleshooting. Upon completion, students should be able to assist with the proper design, installation, and balance of typical hydronic systems. Prerequisites: Take AHR 112

AHR 245. Chiller Systems. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0
This course introduces the fundamentals of liquid chilling equipment. Topics include characteristics of water, principles of water chilling, the chiller, the refrigerant, water and piping circuits, freeze prevention, purging, and equipment flexibility. Upon completion, students should be able to describe the components, controls, and overall operation of liquid chilling equipment and perform basic maintenance tasks. Prerequisites: Take AHR 110

AHR 255. Indoor Air Quality. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-2.0. Work-0.0
This course introduces the techniques of assessing and maintaining the quality of the indoor environment in residential and commercial structures. Topics include handling and investigating complaints, filter selection, humidity control, testing for sources of carbon monoxide, impact of mechanical ventilation, and building and duct pressures. Upon completion, students should be able to assist in investigating and solving common indoor air quality problems.

AHR 263. Energy Management. 2.0 Credits. Class-1.0. Clinical-0.0. Lab-3.0. Work-0.0
This course covers building automation computer programming as currently used in energy management. Topics include night setback, duty cycling, synchronization, schedule optimization, and anticipatory temperature control. Upon completion, students should be able to write programs utilizing the above topics and connect computer systems to HVAC systems. Prerequisites: Take One: AHR 125 or AHR 215

AHR 293. Selected Topics in HVACR. 3.0 Credits. Class-2.0. Clinical-0.0. Lab-2.0. Work-0.0