

## East Central College

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## Admissions Office

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## Division

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East Central College is accredited by the Higher Learning Commission and a participant in the Academic Quality Improvement Program (AQIP)

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## THE CAREER

People are continually seeking ways to make their environment more comfortable and improve energy efficiency. Today's heating, ventilation and air-conditioning systems control the temperature, humidity and the total air quality in residential, commercial, industrial and other buildings. Refrigeration systems make it possible to store and transport food, medicine and other perishable items.

Heating, ventilation, air-conditioning and refrigeration (HVAC/R) mechanics and installers—also called technicians—set-up, maintain and repair such systems. These professionals are currently in demand as the industry is experiencing faster than average job growth, per the U.S. Bureau of Labor Statistics.

## PROFESSIONAL TRAITS

Those pursuing a career in this field should:

- Be able to identify, troubleshoot and resolve related mechanical issues
- Have a basic understanding of electricity
- Possess solid customer service skills
- Be punctual and reliable
- Have good hand-eye coordination and pay close attention to details
- Be in good physical condition

## EMPLOYMENT & SALARY INFORMATION

Median annual earnings of heating, air-conditioning and refrigeration mechanics and installers were \$42,530 in May 2010, according to the U.S. Bureau of Labor Statistics. Salaries ranged from below \$26,490 (lowest 10 percent) to more than \$66,930 (top 10 percent).

Median yearly wages in the industries employing the largest numbers of these technicians were:

Building Equipment Contractors	\$40,630
Commercial and Industrial Machinery and Equipment Repair	\$43,460
Direct Selling Establishments	\$44,210
Hardware, Plumbing and Heating Equipment Wholesalers	\$46,540

## THE PROGRAM

The goal of the East Central College HVAC/R Program is to empower graduates who hold this degree to be the top hiring candidates among regional employers. To this end, experienced faculty offer high-quality, hands-on instruction to students using the most current methods, equipment and systems.

The two-year degree plan includes air conditioning, ventilation, heating and refrigeration theory, and the design and construction of the equipment. Students also learn the basics of set-up, maintenance and repair. This training prepares them to enter the workforce as HVAC/R technicians upon graduation.

ECC students have the choice of two tracks of study including day or evening classes, and a full-time or part-time schedule. They are encouraged to contact the program coordinator for more information and advisement.

## ADMISSIONS REQUIREMENTS

Students must have completed:

- ✓ High school diploma or the equivalent (documentation sent to the registration office)
- ✓ Application for admission
- ✓ A placement test as specified by the college (some courses require minimum placement results)

## TRANSFER OPTIONS

The AAS degree is designed for students seeking employment immediately upon graduation. However, many of the credits, particularly the general education electives received with this degree, may qualify as transfer credit at four-year schools.

These decisions are made solely by the bachelor degree-granting institution, not East Central. Students seeking to transfer are advised to contact the institution of their choice before beginning a program or reviewing other degrees and coursework offered through ECC.

### PROGRAM OF STUDY

AAS Program: 61-62 credit hours

This program of study is for a full-time student; part-time study is also available. Please contact an academic advisor for full course options. All academic schedules are subject to change. For the most current schedule, or to view the Certificate Program, visit [www.eastcentral.edu](http://www.eastcentral.edu).

## YEAR 1

### FALL SEMESTER

COURSE	HOURS
FS 1000 Campus Orientation/ FS 1001 Foundation Seminar <sup>CA</sup>	1
HVC 1004 Introduction to Heating and Cooling <sup>CA</sup>	4
HVC 1011 Refrigerant Recovery/EPA Certification <sup>CA</sup>	1
HVC 1104 Refrigerant A/C Installation <sup>CA</sup>	4
HVC 1204 Forced Air Heating I <sup>CA</sup>	4
HVC 1304 Heating and Equipment Installation <sup>CA</sup>	4
<b>Total Hours</b>	<b>18</b>

### SPRING SEMESTER

COURSE	HOURS
HVC 1443 Energy Audit and Green Technology <sup>CA</sup>	3
HVC 2104 Refrigerant A/C Installation II	4
HVC 2204 Forced Air Heating II	4
HVC 2304 Heating and Equipment Installation II	4
<b>Total Hours</b>	<b>15</b>

### OTHER PROGRAM OPTIONS:

HVC 1551 HVAC Internship	1
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## YEAR 2

### FALL SEMESTER

COURSE	HOURS
EN 1223 English Comp I or EN 1233 Honors English Comp I <sup>CA</sup>	3
HI 1000 Constitutions Study Module PS 1000	0
History or Pol. Science Requirement	3
Mathematics Requirement (MT 1303 or higher) <sup>CA</sup>	3
Elective (CS or BU)	3
Communications Elective	3
<b>Total Hours</b>	<b>15</b>

### SPRING SEMESTER

COURSE	HOURS
EN 1403 Technical Writing	3
HVC 2404 Commercial Chilled Water Application	4
HVC 2553 HVAC Capstone I - (Customer Service/Employee Skills & EM 1030 Heartsaver First Aid )	3
HVC 2000 HVAC/R Assessment	0
Science Requirement w/o lab	3
<b>Total Hours</b>	<b>13</b>

<sup>CA</sup> Courses are part of the Certificate of Achievement