

# Heating/Ventilation/AC/Refrigeration (HVACR) AAS Degree

This program will prepare individuals to apply technical knowledge and skills to sheet metal ducts for heating/AC and ventilation systems. They will form, shape, bend and fold extruded metals, including the creation of new products using hand tools and machines such as brakes, shears, rolls, and welders.

## First Year

FALL SEMESTER		Credit Hours
BEL 161	Basic Electricity I	3
HAC 160	Air Conditioning I	3
HAC 111	Basic Sheet Metal Layout	3
HEA 160	Heating I	3
OSH 102	OSHA General Industry	3
<b>TOTAL HOURS</b>		<b>15</b>

SPRING SEMESTER		Credit Hours
BEL 162	Basic Electricity II	3
ENG 111	English Composition I	3
HAC 260	Air Conditioning II	3
HAC 211	Advanced Sheet Metal Layout	2
HEA 260	Heating II	3
<b>TOTAL HOURS</b>		<b>14</b>

## Second Year

FALL SEMESTER		Credit Hours
COM 111	Business Computer Systems	4
HAC 130	Commercial Refrigeration I	3
HAC 113	Electrical Controls and Circuitry	3
HAC 220	Installation of HVAC Systems	3
MAT 110	General Education Mathematics	4
<b>TOTAL HOURS</b>		<b>17</b>

SPRING SEMESTER		Credit Hours
HAC 212	Advanced Heating Systems	3
HAC 213	Advanced Electrical Controls and Circuitry	3
HAC 230	Commercial Refrigeration II	3
PSY 211	Introduction to Psychology	3
SPC 111	Speech	3
<b>TOTAL HOURS</b>		<b>15</b>

**Career Cluster:** Manufacturing

**Career Pathway:** Production

### Possible Career Opportunities:

A/C Tech (Air Conditioning Technician) \* Service Technician \* Systems Mechanic  
 HVAC Installer (Heating, Ventilation, Air Conditioning Installer)  
 HVAC Mechanic (Heating, Ventilation, Air Conditioning Mechanic)  
 HVAC Service Tech (Heating, Ventilation, Air Conditioning Service Technician)  
 HVAC Technician (Heating, Ventilation, Air Conditioning Technician)  
 HVAC Specialist (Heating, Ventilation, and Air Conditioning Specialist)  
 HVAC Technician (Heating, Ventilation, and Air Conditioning Technician)  
**O\*NET Links:** [www.onetonline.org](http://www.onetonline.org)  
 SOC Codes: 49-9021



### **Current In-District Rate Semester Credit Hour:**

\$125.00 per Credit Hour    \$15.00 Technology Fee/per Credit Hour    Lab fees Vary

#### **Semester One Fall** – total cost - \$2,218.00

\$30.00 Lab fee for Basic Electricity I (BEL 161)  
 \$50.00 Lab fee for Basic Sheet Metal Layout (HAC 111)  
 \$20.00 Lab fee for Air Conditioning I (HAC 160)  
 \$18.00 Lab fee for Heating I (HEA 160)

#### **Semester Two Spring** – total cost - \$2,110.00

\$30.00 Lab fee for Basic Electricity II (BEL 162)  
 \$55.00 Lab fee for Air Conditioning II (HAC 260)  
 \$50.00 Lab fee for Advanced Sheet Metal Layout (HAC 211)  
 \$15.00 Lab fee for Heating II (HEA 260)

#### **Semester Three (Second Year) Fall** – total cost - \$2,540.00

\$50.00 Lab fee for Electrical Controls & Circuitry (HAC 113)  
 \$30.00 Lab fee for Business Computer Systems (COM 111)  
 \$50.00 Lab fee for Commercial Refrigeration I (HAC 130)  
 \$30.00 Lab fee for Installation of HVAC Systems (HAC 220)

#### **Semester Four Spring** – total cost - \$2,190.00

\$50.00 Lab fee for Advanced Heating Systems (HAC 212)  
 \$20.00 Lab fee for Advanced Electrical Controls and Circuitry (HAC 213)  
 \$20.00 Lab fee for Commercial Refrigeration II (HAC 230)

**Total projected program cost:** \$9,058.00

Books not included in projected cost.

*\*Some courses may be available for online instruction.  
 Additional \$30 per class fee will apply.*

### Contact Information:

#### **Admissions**

**Email:** admissions@shawneec.edu

**Phone:** 618.634.3200



Shawnee  
Community College