

# Fort Scott Community College

## Program of Study

# Heating, Ventilation, and Air Conditioning

## Associate of Applied Science

A program that prepares individuals to apply technical knowledge and skills to repair, install, service and maintain the operating condition of heating, air conditioning, and refrigeration systems. Includes instruction in diagnostic techniques, the use of testing equipment and the principles of mechanics, electricity, and electronics as they relate to the repair of heating, air conditioning and refrigeration systems.

FSCC offers an Associate of Applied Science degree in Heating, Ventilation and Air Conditioning (HVAC). This program prepares students for careers in residential, commercial, and industrial HVAC systems through hands-on training and classroom instruction. Students in the program have the opportunity to obtain their OSHA 10, E.P.A. 608 Refrigerant, NCCER Level 1, Level 2, and Level 3 certifications, providing them with industry-recognized credentials that demonstrate technical competence and workplace readiness.

### AAS in Heating, Ventilation, and Air Conditioning

<b>Required Courses: 39 Credit hours</b>			
<b>Course ID</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Notes</b>
HVC 1414	HVAC Fundamentals	4	Fall
HVC 1424	HVAC Fundamentals Lab	4	Fall
HVC 1434	Electrical Fundamentals	4	Fall
HVC 1533	Electrical Fundamentals Lab	3	Fall
HVC 1211	EPA 608	1	Fall
HVC 1221	Workplace Skills	1	Fall
HVC 1231	HVAC Safety Orientation/OHSA 10	1	Fall
HVC 1233	Sheet Metal Fabrication	3	Spring
HVC 1633	Air Conditioning Design	3	Fall
HVC 2382	Motors & Controls	2	Spring
HVC 2433	Residential Controls	3	Spring
HVC 2443	Residential Controls Lab	3	Spring
HVC 2413	Heating System Fundamentals	3	Spring
HVC 2513	Heating Lab	3	Spring

HVC 1481	HVAC Special Project	1	Spring
<b>General Education Courses: 23 Credit Hours</b>			
EDU 1212	First Year Experience	2	
ENG 1013	English 101	3	
SPE 1093	Public Speaking	3	
PHS	<a href="#">Natural &amp; Physical Science</a>	5	
MAT	AGS Math Elective	3	
ENG 2813	Technical Writing	3	
BUS 1273	Introduction to Business	3	
EDU 2301	Capstone	1	
	<b>Total</b>	<b>62</b>	

## Semester Plan – AAS in Heating, Ventilation, and Air Conditioning

Fall 1 Semester	
Course	Credits
First Year Experience	2
HVAC Fundamentals	4
HVAC Fundamentals Lab	4
Electrical Fundamentals	4
Electrical Fundamentals Lab	3
EPA 608	1
<b>Total</b>	<b>18</b>

Spring 1 Semester	
Course	Credits
Heating System Fundamentals	3
Heating Lab	3
Residential Controls	3
Residential Controls Lab	3
Motors & Controls	2
English 101	3
<b>Total</b>	<b>17</b>

Fall 2 Semester	
Course	Credits
Workplace Skills	1
Air Conditioning Design	3
Natural & Physical Science	5
Public Speaking	3
HVAC Safety Orientation/OHSA 10	1
AGS Math Elective	3
<b>Total</b>	<b>16</b>

Spring 2 Semester	
Course	Credits
HVAC Special Project	1
Introduction to Business	3
Sheet Metal Fabrication	3
Technical Writing	3
Capstone	1
<b>Total</b>	<b>11</b>

*Last updated 06/17/2026.*