

Fort Scott Community College

Certificate Requirements

Heating, Ventilation, and Air Conditioning Certificate B

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 Certificate B 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.

Certificate B in Heating, Ventilation, and Air Conditioning

Required Courses: 36 Credit Hours			
Course ID	Course Title	Credit Hours	Notes
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 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

	Total	36	
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Semester Plan – Certificate B in Heating, Ventilation, Air Conditioning, and Refrigeration

Fall 1 Semester	
Course	Credits
HVAC Fundamentals	4
HVAC Fundamentals Lab	4
Electrical Fundamentals	4
Electrical Fundamentals Lab	3
EPA 608	1
HVAC Safety Orientation/OHSA 10	1
Air Conditioning Design	3
Total	20

Spring 1 Semester	
Course	Credits
Motors & Controls	2
Residential Controls	3
Residential Controls Lab	3
Heating System Fundamentals	3
Heating Lab	3
HVAC Special Project	1
Workplace Skills	1
Total	16

Last updated 06/17/2026.