

Fort Scott Community College

Program of Study

Heating, Ventilation, Air Conditioning & Refrigeration (HVAC) Associate of Applied Science

The HVAC program also offers a two-year associate of Applied Science degree to interested students. Graduates will be able to install, diagnose and repair residential, commercial and industrial systems. Employment opportunities are found in air conditioning dealerships, institutional maintenance, grocery chains, manufacturing, and small business ownership. Today, one out of every seven individuals is self-employed. This hands-on educational program also includes detailed instruction on:

1. How to evaluate and determine the amount of heating, air conditioning or refrigeration capacity to accomplish a particular task
2. Air conditioning, heating and refrigeration devices, techniques and systems
3. Maintenance and operation of a system that meets the requirements for the task

Students enrolling in the HVAC program must score at the 9th grade reading level on the Nelson-Denny test prior to acceptance in the program.

A student must be making satisfactory progress in or have successfully completed 1st semester program course work to continue in the program or enroll for the spring semester.

Students will be given the opportunity to sit for EPA refrigerant handling certification and other industry credentials that are nationally recognized from coast to coast. The program is overseen by an advisory board consisting of industry representatives and instructors to make sure the curriculum is aligned with the state standard, up to date and responsive to current industry practices.

Suggested Curriculum:

FIRST SEMESTER	
EDU 1211	College Orientation 1
HVC 1414	HVAC Fundamentals 4
HVC 1424	HVAC Fundamentals Lab 4
HVC 1434	Electrical Fundamentals 4
HVC 1533	Electrical Fundamentals Lab 3
HVC 1211	EPA 608 1
Total Hours 17	
SECOND SEMESTER	
HVC 2413	Heating 3
HVC 2513	Heating Lab 3
HVC 2433	Residential Controls..... 3
HVC 2443	Residential Controls Lab..... 3
HVC 2382	Motors & Controls 2
ENG 1013	English 101 3
Total Hours 17	

THIRD SEMESTER	
HVC 1221	Workplace Skills..... 1
HVC 2423	A/C Design 3
PHS 1215	Intro to Physical Science 5
Int. Algebra or Higher 3
SPE 1093	Public Speaking..... 3
HVC 1231	Safety Orientation 1
Total Hours..... 16	
FOURTH SEMESTER	
HVC 1481	Special Project..... 1
BUS 1283	Intro to Entrepreneurship..... 3
HVC 2463	A/C Equipment Analysis 3
HVC 2473	A/C Equipment Analysis Lab 3
ENG 1023	English 102 or Technical Writing, ENG 2813.. 3
EDU 2511	Capstone 1
Total Hours..... 14	