

## Heating, Ventilation, Air Conditioning & Refrigeration +7221

(Offered at KC - Longview)

The Heating, Ventilation, Air Conditioning & Refrigeration Program prepares students for entry-level work in the field of heating, ventilation, air conditioning, and refrigeration. The curriculum consists of one certificate, which will lead directly to an associate of applied science degree. Students are required to purchase their own basic hand tools from a list made available on the first class day. Classes begin every August.

First Semester		
Course		Semester Hours
HART 1407	Refrigeration Principles	4
HART 1441	Residential Air Conditioning	4
HART 1401	Basic Electricity for HVAC	4
HART 1391	Special Topics in Heating, Air Conditioning & Refrigeration—Professional Development	3
		15
Second Semester		
Course		Semester Hours
HART 1403	Air Conditioning Control Principles	4
HART 2434	Advanced Air Conditioning Controls	4
HART 2436	Air Conditioning Troubleshooting	4
ENGL 1301	Composition I	3
		15
Third Semester		
Course		Semester Hours
HART 1445	Gas and Electric Heating	4
HART 2449	Heat Pumps	4
HART 2445	Residential Air Conditioning Systems Design	4
HART 1382	Cooperative Education-Heating, Air Conditioning, Ventilation, & Refrigeration Maintenance Technology/Technician	3
	Social or Behavior Science Elective	3
		18

Fourth Semester		
Course		Semester Hours
MATH ....	MATH 1332 or MATH 1342 or higher	3
	Humanities or Fine Arts Elective	3
	Speech Elective	3
HART 1383	Cooperative Education-Heating, Air Conditioning, Ventilation, & Refrigeration Maintenance Technology/Technician**	3
		12
		Total Hours 60

+ Course of study identification number.

\*\* Capstone Experience.

**Note:** A student who completes the required courses with an overall average of C may receive an Associate of Applied Science degree.