HEATING, VENTILATION, AND AIR CONDITIONING

In the heating, ventilation, and air conditioning program students study the physical, mechanical, and chemical principles of refrigeration and air conditioning with emphasis on electrical controls and motors. Students gain proficiency in blueprint reading, sheet metal construction, proper ventilation installation, heating and cooling diagnosis, and installation of residential and commercial equipment. The program prepares students for skilled positions installing and servicing electrical, heating, and cooling systems.

(Enrollment into this program is limited and is based on the date of application.)

Required Program of Study for Associate of Applied Science Degree (2 years)

FIRST YEAR

Fall Semester

Course	Credits
HVAC 1010 Electricity for HVAC	2.5
HVAC 1020 Electricity for HVAC Lab	4
HVAC 1110 Basic Refrigeration Principles	2.5
HVAC 1120 Basic Refrigeration Principles Lab	4
HVAC 1130 Sheet Metal	3
INFO 1000 Basic Computer Applications*	2
	18

Spring Semester

Course	Credits
HVAC 1210 HVAC Controls	3
HVAC 1220 HVAC Controls Lab	4
HVAC 1250 Residential Air Conditioning	3
HVAC 1260 Residential Air Conditioning Lab	4
MATH 1020 Technical Mathematics I*	3
CAPL 1290 Introduction to Job Search and Employment*	1
	18

Summer

Course	Credits
HVAC 1300 Cooperative Internship I	6
	6

*See general education requirements.

SECOND YEAR

Fall Semester

Course	Credits
HVAC 2010 Heating Technology	2.5
HVAC 2020 Heating Technology Lab	4
HVAC 2210 Heat Pump Technology	2.5
HVAC 2220 Heat Pump Technology Lab	4
ECON 1010 Personal and Business Finance*	2
HVAC 2230 Physics of Building Science* **OR** INDT 1040 Industrial Process Dynamics*	2
	17

Spring Semester

Course	Credits
HVAC 2110 Commercial Refrigeration	3
HVAC 2120 Commercial Refrigeration Lab	4
HVAC 2310 Commercial Air Conditioning and Refrigeration	3
HVAC 2320 Commercial Air Conditioning and Refrigeration Lab	4
ENGL 1050 Workplace Communication*	3
PSYC 1000 Human Relations*	2
	19

Total Credit Hours 78