Heating, Ventilation, Air Conditioning and Refrigeration Technician Option (HVA.HVT.AAS)

Associate in Applied Science

Engineering/Manufacturing and Industrial Technology

Auburn Hills Campus

This program leads to an Associate in Applied Science degree with specialization in Heating, Ventilation, Air Conditioning and Refrigeration.

The program is designed to qualify students for occupations and careers in air conditioning, heating and refrigeration, system designers, estimators, manufacturers' representatives, equipment fabricators, application technicians, salespeople, installation mechanics, service people, maintenance mechanics and many other related skilled and semi-skilled positions.

High school graduates who completed state-approved career and technical education (CTE) programs may be eligible to receive college credit for work completed while in high school.

Heating, Ventilation, Air Conditioning and Refrigeration Technician Option program webpage

Full Time - Heating, Ventilation, Air Conditioning and Refrigeration Technician Option program plan example

Code	Title	Credit Hours
Major Requirements		
HVA 1114	Introduction to Refrigeration	4
HVA 1120	Sheet Metal Layout and Fabrication	3
HVA 1150	Basic Principles of HVACR Controls	4
HVA 1210	Domestic and Commercial Refrigeration	4
HVA 1220	Commercial Refrigeration II	3
HVA 1310	Heating, Ventilation, Air Conditioning and Refrigeration Design I	4
HVA 1430	Residential and Commercial Control Systems	4
HVA 1522	Refrigeration Code	2
HVA 1610	Heating Technology I	4
HVA 1630	Heating Technology II	3
HVA 1650	Troubleshooting Air Conditioning	2
HVA 1700	Heating Regulations	2
HVA 1800	Advanced Controls	3
Complete one of the following two courses:		3
HVA 1390	Heating, Ventilation, Air Conditioning and Refrigeration Design II	3
or HVA 2510	Direct Digital Controls	3
Required Supportive Courses		
APP 2170[1]	Applied Technology	4
ENG 1350[2,3]	Business Communications	3
Recommended Elective		
HVA 1404	Cooperative Internship	4
or HVA 2400	Energy Management	4
Total Credit Hours for Program-Related Courses		**56**
Communication / English (3-credits)		0 or 3
May be satisfied with ENG-1510 or ENG-1540. This course will apply toward the Communication/English requirement or the Written Communication requirement, but not both. (http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#communication-english)		
Fine Arts / Humanities (3-credits)		3
Complete 3 credits from Fine Arts/Humanities courses listed in the General Education Distribution List (http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#fine-arts-humanities)		
Mathematics / Science (3-credits)		3
Complete 3 credits from Mathematics/Science courses listed in the General Education Distribution List (http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#mathematics-science)		
Social Science (3-credits)		3
Complete 3 credits from Social Science courses listed in the General Education Distribution List (http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#social-science)		
Written Communication (3-credits)		0 or 3
May be satisfied with ENG-1350, ENG-1510 or ENG-1540. ENG-1510 and ENG-1540 will apply toward the Communication/English requirement or the Written Communication requirement, but not both. (http://catalog.oaklandcc.edu/graduation-requirements/general-education-distribution/#written-communication)		
Total Credit Hours		**61**

1 Prospective transfer students should substitute PHY 1610.
2 Prospective transfer students should substitute ENG 1510.
3 Course may be used to meet General Education requirements.

A minimum cumulative 2.00 grade point average (GPA) overall is required for graduation.