



HEATING, VENTILATION AND AIR CONDITIONING

- Associate of Applied Science
- College Certificate

About The Program

The Heating, Ventilation and Air Conditioning (HVAC) program provides an opportunity for students to develop their skills and competencies for entry-level positions in a variety of related fields. The curriculum focuses on the ability to maintain, install and repair climate control devices in residential, industrial and commercial buildings. The program provides students with training in the layout and design of cooling and heating systems, the use of the latest tools, gauges and testing equipment used in the field, troubleshooting and inspection of equipment.

The program prepares students for state and local licensing exams. Students with prior HVAC training and experience background may be eligible to waive certain courses.

Career Potential

- Air Conditioning and Refrigeration Conditioning
- Heating Technician
- HVAC Installer
- Stationary Engineer
- Sheet Metal Technician
- Self-Employed
- Sales and Marketing Engineer

Admission Requirements

To be admitted into Heating, Ventilation and Air Conditioning (HVAC) program students must:

- Fulfill all WCCCD admission requirements.
- Declare program intent on the WCCCD admission application or change program intent at the campus admission office.
- Fulfill course placement requirements based on the COMPASS test.
- Students must complete WCCCD program admission applications during the semester they are enrolled in any HVAC course and turn in the program application to the Campus Academic Officer.

Associate of Applied Science Degree Requirements

GENERAL EDUCATION COURSES

ENG 119	English I	3
	American Government Requirement	3
	English Requirement	3
	Natural Science Lab Requirement	4
	Social Science Requirement	3
	Humanities Requirement	3
	Elective: HVA or DRT courses	6

CAREER COURSES

HVA 101	Basic Refrigeration	4
HVA 102	Hermetic Systems	2
HVA 106	Basic Heating	4
HVA 107	Heating Controls	2

CAREER COURSES

(ANY 27 CREDITS FROM THE FOLLOWING COURSES)

HVA 103	Commercial Refrigeration	2
HVA 104	Air Conditioning I	4
HVA 105	Air Conditioning II	4
HVA 108	Refrigeration Controls	4
HVA 109	Ventilating and Duct Fabrication	4
HVA 110	Forced Air and Hydronic Heating	4
HVA 111	Applied Electricity in Air Conditioning and Heating	3
HVA 112	Refrigerant Recovery, Recycling and Reclamation	2
HVA 113	Refrigeration Code and Regulations	2
HVA 114	Heating Code and Regulations	2
HVA 201	Introduction to Boiler Plant Maintenance	3
HVA 202	Steam I	3
HVA 203	Steam II	3
HVA 204	Boiler Room Accessories	3

PROGRAM TOTAL CREDITS

77

* Program totals may not include prerequisite work.

College Certificate Requirements

CAREER COURSES REQUIRED

HVA 101	Basic Refrigeration	4
HVA 102	Hermetic Systems	2
HVA 106	Basic Heating	4
HVA 107	Heating Controls	2

CAREER COURSES

(ANY 18 CREDITS FROM THE FOLLOWING COURSES)

HVA 103	Commercial Refrigeration	2
HVA 104	Air Conditioning I	4
HVA 105	Air Conditioning II	4
HVA 108	Refrigeration Controls	4
HVA 109	Ventilating and Duct Fabrication	4
HVA 110	Forced Air and Hydronic Heating	4
HVA 111	Applied Electricity in Air Conditioning and Heating	3
HVA 112	Refrigerant Recovery, Recycling and Reclamation	2
HVA 113	Refrigeration Code and Regulations	2
HVA 114	Heating Code and Regulations	2
HVA 201	Introduction to Boiler Plant Maintenance	3
HVA 202	Steam I	3
HVA 203	Steam II	3
HVA 204	Boiler Room Accessories	3

CERTIFICATE TOTAL CREDITS

30

* Certificate totals may not include prerequisite work.

District Office

801 West Fort Street Detroit, MI 48226

General Information Number:
(313) 496-2600

Career Program Hotline: 800-300-2118

Information Website: www.wcccd.edu

E-mail: info@wcccd.edu

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