

## 2021-22 ACADEMIC PROGRAMS

### HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION - RESIDENTIAL (CTHVRR)

#### Certificate

This certificate program prepares students for entry-level jobs in:

- HVAC contracting and servicing companies;
- Hospitals, schools and other public institutions; and
- Apprenticeships in large manufacturing plants and supply houses.

In these commercial, residential, or institutional settings, students combine their diagnostic and repair skills with customer relations skills to service heating, ventilation, and air conditioning equipment. This program gives students knowledge and opportunity to become EPA certified by taking 608 licensing exam.

This is a **high demand, high skill** and **high wage** program as defined by the [Michigan Community College Network](#).

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#### Description

This program prepares students for entry-level jobs in HVAC contracting companies, HVAC servicing companies, hospitals, schools and other public institutions, and apprenticeships in large manufacturing plants and supply houses. In these commercial, residential, or institutional settings students combine their diagnostic and repair skills with customer relations skills to service heating, ventilation, and air conditioning equipment. This program also helps prepare students for the third class refrigeration licensure examination.

#### Articulation

Eastern Michigan University, several BS degrees.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php>.

#### Course Requirements

##### Major/Area Requirements

Class	Title	Minimum Credits
HVA 101	Heating, Ventilation and Air Conditioning I	4
HVA 102	HVAC Sheet Metal Fabrication	4
HVA 103	Heating, Ventilation and Air Conditioning II	4
HVA 105	Residential and Light Commercial Heating Systems	4
HVA 107	Residential and Light Commercial Air Conditioning Systems	4
HVA 108	Residential HVAC Competency Exams and Codes	3
WAF 104	Soldering and Brazing	2
Total		25

#### Total Credits Required: 25

Accurate as of 03/03/2021 Information is subject to change without notice.