

2021-22 ACADEMIC PROGRAMS

HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION (APHVCR)

Associate in Applied Science

This associate degree program is a capstone to the Heating, Ventilation, Air Conditioning and Refrigeration - Commercial Trade Advanced Certificate. It provides solid preparation for entry-level management positions or transfer to 4-year colleges or universities offering bachelor degrees in HVACR, technology management, and other technically oriented fields.

This program also provides opportunities to obtain advanced certifications which are recognized throughout the heating, ventilation, and air-conditioning industry.

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

Career Outlook

HVACR technicians can work as:

- Service technicians for heating and air conditioning businesses
- Maintenance, repair and installation workers for HVACR contracting firms
- Facilities professionals for residential and commercial properties
- Independent contractors

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Description

This program is a capstone to the Heating, Ventilation, Air Conditioning and Refrigeration - Commercial Trade Advanced Certificate. It provides a rigorous heating, ventilation, air-conditioning and refrigeration (HVACR) background with solid preparation for entry-level management positions or transfer to four-year programs offering bachelor degrees in HVACR, technology management, and other technically oriented fields. This program also provides opportunities to obtain advanced certifications which are recognized throughout the heating, ventilation and air-conditioning industry.

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

First Semester

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
	Math Elective(s)	3
Total		15

Second Semester

Class	Title	Minimum Credits
HVA 105	Residential and Light Commercial Heating Systems	4
HVA 107	Residential and Light Commercial Air Conditioning Systems	4
HVA 202	Air System Layout and Design	3
WAF 104	Soldering and Brazing	2
Total		13

Third Semester

Class	Title	Minimum Credits
HVA 108	Residential HVAC Competency Exams and Codes	3
	Writing Elective(s)	3
	Arts/Human. Elective(s)	3
Total		9

Fourth Semester

Class	Title	Minimum Credits
HVA 201	Energy Audits	4
HVA 203	Refrigeration Systems	3
HVA 205	Hydronic Systems	4
	Nat. Sci. Elective(s)	3
Total		14

Fifth Semester

Class	Title	Minimum Credits
HVA 207	Commercial Industry Standards with Competency Exams	3
	Soc. Sci. Elective(s)	3
	Speech/Comp. Elective(s) 2	3
Total		9

Total Credits Required: 60

Accurate as of 09/24/2021 Information is subject to change without notice.