



Wayne
County
Community
College
District

Heating, Ventilation and Air Conditioning (HVAC)

PAY

The median annual wage of heating, air conditioning, and refrigeration mechanics and installers was \$51,390 in May 2022.

JOB OUTLOOK

Employment of heating, air conditioning, and refrigeration mechanics and installers is projected to grow 6 percent from 2022 to 2032, faster than the average for all occupations.

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, December 15, 2023, Heating, Air Conditioning, and Refrigeration Mechanics and Installers, on the Internet at <https://www.bls.gov/ooh/installation-maintenance-and-repair/heating-air-conditioning-and-refrigeration-mechanics-and-installers.htm>

ABOUT THE PROGRAM

The Heating, Ventilation and Air Conditioning (HVAC) Associate of Applied Science Degree 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 may be eligible to waive certain courses.



WHAT DO HEATING, VENTILATION AND AIR CONDITIONING (HVAC) MECHANICS AND INSTALLERS DO?

Heating, air conditioning, and refrigeration mechanics and installers—often referred to as HVACR technicians—work on heating, ventilation, cooling, and refrigeration systems that control the air quality in many types of buildings.

WHERE DO THEY WORK?

Heating, air conditioning, and refrigeration mechanics and installers mostly work in residential homes, schools, hospitals, office buildings, or factories. Their work sites may be very hot or cold because the heating and cooling system they must repair is broken. Working in cramped spaces is common. Most HVAC mechanics and installers work full-time.



Recommended Sequence of Courses

HVAC: Associate of Applied Science (A.A.S.)

CR. No.	COURSE TITLE	CREDITS
---------	--------------	---------

SEMESTER 1

DRT 101	Blueprint Reading	3
ENG 119	English I	3
HVA 100	Introduction to HVAC and Hermetic Systems	5
MAT 113	Intermediate Algebra	3
SEMESTER TOTAL		14

SEMESTER 2

HVA 103	Commercial Refrigeration	4
HVA 106	Basic Heating and Heating Controls	5
HVA 108	Refrigeration Controls	4
SEMESTER TOTAL		13

SEMESTER 3

HVA 104	Air Conditioning I	4
HVA 105	Air Conditioning II	4
HVA 120	Advanced Heating and Heating Controls	3
SEMESTER TOTAL		11

SEMESTER 4

HVA 110	Forced Air and Hydronic Heating	4
HVA 118	Codes and Regulations	3
Elective:	Humanities	3
PS 101	American Government	3
SEMESTER TOTAL		13

SEMESTER 5

HVA 111	Applied Electricity in Air Conditioning and Heating	3
ENG 134	Technical Communications	3
Elective:	Natural Science w/Lab	4
Elective:	Social Science	3
SEMESTER TOTAL		13

HVAC: AAS PROGRAM TOTAL64

Note: Program total hours may not include prerequisites.

