

**HEATING, VENTILATION AND AIR CONDITIONING (HVA)
ASSOCIATE IN APPLIED SCIENCE DEGREE**

This curriculum provides students with the necessary skills for entry-level technical positions in the Heating, Ventilation and Air Conditioning industry. Graduates will be trained for employment as installers, service technicians, building maintenance craftsmen and counter sales personnel.

PROGRAM OUTCOMES:

The Morton College HVAC/R Program provides the foundation for a lifetime of learning to students seeking a career in, or career advancement within, the Heating, Ventilating, Air Conditioning and Refrigeration Industry. The program is committed to providing local employers with skilled HVAC/R technicians. Graduates will have the skills needed to enter the workforce, along with the skills required to adapt to a fast paced industry that is changing every day. The Morton College HVAC/R Program will constantly assess student learning as well as the program curriculum to verify that the demands of the HVAC/R Industry and our Graduates are being met. Our Career Certificate Program will guide students directly into the HVAC/R Industry. Our Associates in Applied Science Degree in Heating, Ventilation, and Refrigeration will provide further student professional development, as well as being the foundation for transfer to a four year HVAC/R Engineering University.

FIRST SEMESTER		CREDIT HOURS
HVA	101	Basic Refrigeration 3
HVA	102	Basic Heating and Air Conditioning 3
HVA	110	Electricity for HVAC/R..... 3
MAT	100	Occupational Mathematics 3
		General Education Requirements 4
		<hr/> Total 16

SECOND SEMESTER		
HVA	103	Intermediate Refrigeration 3
HVA	104	Intermediate Heating and Air Conditioning..... 3
HVA	120	Basic Sheet Metal Fabrication..... 3
PHS	103*	Physical Science I 4
		General Education Requirements 3
		<hr/> Total 16

EDUCATIONAL PROGRAMS

THIRD SEMESTER

HVA	105	Basic HVAC Controls.....	3
HVA	201	Commercial Refrigeration.....	3
HVA	202	Heat Load Calculation and System Design.....	3
		General Education Requirements	4
			<hr/> Total 13

FOURTH SEMESTER

HVA	203	Commercial Air Conditioning and Refrigeration	3
HVA	204	Hydronic Comfort Systems.....	3
HVA	206	Refrigerant Handling/EPA Exam Review.....	3
HVA	253	Successful Career & Life Strategies.....	2
		General Education Requirements	6
			<hr/> Total 17

Overall Total 62

NOTES:

We suggest that all HVAC program students successfully complete the commercial refrigeration and residential heating/air conditioning competency exams offered by the Air Conditioning and Refrigeration Institute. We strongly recommend students seeking employment in the HVAC industry successfully complete a refrigerant handling certification exam administered by an EPA recognized testing organization.

* This course may be applied toward general education credits and are suggested as the minimum course requirement for graduating students.