

Air Conditioning, Heating and Refrigeration Technology

Associate of Applied Science Degree: 10-601-1
Campus: Fond du Lac

Description

The rapid regulation of the air conditioning, heating and refrigeration industry means high demand for qualified and certified technicians for residential and commercial applications.

The Heating, Ventilating, Air Conditioning and Refrigeration (HVAC/R) program teaches students how to install, repair and perform preventative maintenance for heating, air conditioning and refrigeration equipment. Coursework emphasizes efficient operation of equipment to ensure the lowest possible energy cost that the design allows. Students integrate the electronic controls from the equipment to the building or computer-operated environmental network. In addition, students study how to make the indoor living environment comfortable, air balancing, occupant comfort conditions, and indoor air quality testing.

This program offers extensive hands-on training. Students work with residential furnaces and air conditioning units and learn about commercial heating and cooling and building equipment, such as chillers, and refrigeration equipment, such as icemakers, walk-in freezers and many other pieces of equipment.

HVAC/R technicians should be good analytical thinkers and problem solvers.

Program Outcomes

- Install residential heating, ventilation and air conditioning equipment.
- Commission (start up) and service residential heating, ventilating and air conditioning equipment.
- Install commercial heating, ventilation and air conditioning equipment.
- Commission (start up) and service commercial heating, ventilating and air conditioning equipment.
- Install commercial refrigeration equipment.
- Commission (start up) and service commercial refrigeration equipment.

Career Opportunities

- Refrigeration Servicing Technician
- Service Representative
- Air-Conditioning Technician
- Heating Technician
- Air Balancing Technician
- Facility Maintenance

Statewide Yearly Salary Range for Recent Graduates

\$20,796 - \$77,994

Admission Process

- Submit the college admission application.
- Submit the \$30 one-time fee.
- Submit high school/other official college transcripts.
- Take the college placement assessment (ACCUPLACER, ACT or other).
- Meet with an admissions specialist to determine the best course sequencing and prerequisites (required for this program).
- Check with Admissions if any additional steps are required.



Course Number	Course Title	Year	2009-2010					2010-2011			
			Cr.	S	F	W	P	S	F	W	P
Technical Studies Courses											
419-105	Introduction to Pneumatic and Programmable Logic Controllers	2									
601-107	Electricity and Electronics HVAC	3									
601-108	Heating, Ventilation and Air Conditioning (HVAC) Schematics	2									
601-109	HVAC/R Code	1									
601-116	Hydronic Environmental Systems	3									
601-118	Air Distribution	2									
601-120	Fundamentals of Refrigeration	2									
601-121	Refrigeration Service Techniques	2									
601-122	Residential Air Conditioning	3									
601-123	Residential Heating Systems	3									
601-127	Fundamentals of Building Controls	2									
601-128	Building Control Systems Applications	3									
601-129	Commercial Food Service Refrigeration	3									
601-130	Supermarket Refrigeration	3									
601-132	Indoor Air Quality	2									
601-134	Commercial Heating and Air Conditioning	4									
General Studies Courses											
801-195	Written Communication	3									
801-196	Oral and Interpersonal Communication	3									
804-106	Introduction to College Mathematics (or)	3									
804-113	College Technical Math 1A										
809-166	Introduction to Ethics: Theory and Application	3									
809-195	Economics	3									
809-196	Introduction to Sociology	3									
809-199	Psychology of Human Relations	3									
	Students must choose an additional six credits of electives.	6									
Schedule a Course			Academic Planner								
An Air Conditioning, Heating and Refrigeration Technology Exit Assessment is a graduation requirement for the program.											
Institutional Requirements											
890-125	Student Success - take 1st semester										
103-159	Computer Literacy/Advanced Standing - take 1st semester										
890-130	Career Development - take 3rd semester										

Semester Codes: S - Summer F - Fall W - Winter P - Spring

For information on how program credits transfer to a four-year college, please visit us at www.morainepark.edu/academics/transfer.

For course descriptions, please visit our Web site at www.morainepark.edu.