

CONSTRUCTION TECHNOLOGY - HVAC/R, ASSOCIATE IN APPLIED SCIENCE DEGREE

NMC Code 654

The AAS in HVAC/R provides in-depth training and knowledge to those students who seek to have a well-balanced foundation of not only technical skills, but soft skills as well. Students completing this degree will find a wide range and availability of job opportunities. HVAC/R technicians have been in demand for installations, maintenance, repair, and support for industries ranging from private home owners to hospitals, manufacturers, and breweries. Technical training includes heating, ventilating, air-conditioning, and refrigeration systems for residential through commercial/industrial applications. The curriculum is designed by the industry and aligned with national competency standards (EPA certification). Focus is on hands-on training in our state-of-the-art facility. Information: (231) 995-2777.

Within this degree students will have the opportunity to earn the following: Mechanical Contractor License and EPA Certification.



Requirements Major Requirements

Course	Title	Credits
General Education Requirements		
ENG 111	English Composition	4
Select one of the following:		3-4
BUS 231	Professional Communications	
ENG 112	English Composition	
ENG 220	Technical Writing	

Any Group 1 Humanities course		3
Math Competency ¹		4
Select one of the following:		4
ENV 117	Meteorology & Climatology	
PHY 121	General Physics I	
ENV 103	Earth Science	
Any Group 1 Social Sciences course		3
Occupational Specialty Requirements		
CAR 100	Introductory Craft Skills	2
ELE 105	Beg Residential Electrical	3
ELE 142	Industrial Electrical	3
ELE 146	Adv. Industrial Electrical	3
EGY 145	Geothermal Technology	3
HVA 101	Introduction to HVAC/R	3
HVA 106	Fundamentals of Heating	3
HVA 122	Refrigeration Fundamentals	3
HVA 126	Residential and Commercial A/C	3
HVA 132	Commercial A/C & Refrigeration	3
HVA 136	EPA Certification	3
PLU 101	Introduction to Plumbing	3
PLU 105	Plumbing Components	3
PLU 121	Commercial Plumbing	3
Total Credits		62-63

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Placement into MTH 122 Trigonometry **or** higher, **or** completion of MTH 121 College Algebra

Note: This program requires a minimum of 60 credits. Courses tested out or waived must be replaced with approved program electives.

Course Sequence Guide

Course	Title	Credits
Year 1		
Fall		
ENG 111	English Composition	4
Social Science: Any Group 1 course		3
PLU 101	Introduction to Plumbing	3
HVA 101	Introduction to HVAC/R	3
CAR 100	Introductory Craft Skills	2
Credits		15
Spring		
Select one of the following:		3-4
ENG 112	English Composition	
ENG 220	Technical Writing	
BUS 231	Professional Communications	
ELE 105	Beg Residential Electrical	3
PLU 105	Plumbing Components (Spring only)	3
HVA 106	Fundamentals of Heating	3
HVA 122	Refrigeration Fundamentals	3
Credits		15-16

Year 2**Fall**

EGY 145	Geothermal Technology (Fall only)	3
PLU 121	Commercial Plumbing	3
ELE 142	Industrial Electrical	3
ELE 146	Adv. Industrial Electrical	3
HVA 126	Residential and Commercial A/C	3
Credits		15

Spring

MTH 121	College Algebra	4
Select one of the following:		4
ENV 103	Earth Science	
ENV 117	Meteorology & Climatology	
PHY 121	General Physics I	
Humanities: Any Group 1 course		3
HVA 132	Commercial A/C & Refrigeration	3
HVA 136	EPA Certification	3
Credits		17
Total Credits		62-63

The responsibility for determining the transferability of this degree and courses to another institution is the sole responsibility of the student.