



HVAC/R-Energy Management Engineering Technology A.A.S.

Curriculum Code: 1257

Effective: Fall 2021 – Summer 2026

Description

This degree is for students interested in pursuing a Bachelor of Science Degree in HVAC/R Energy Management Engineering Technology. As this is a transfer engineering degree, be aware that this pathway contains a higher math requirement and students may need additional math prerequisite classes depending upon math placement levels.

Additional Information

Students who have already completed DCTM 102, ELTE 102, METS 102, or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for HVAC 102. Any of these courses may also be used to fulfill the prerequisite for HVAC 110.

Contact Information

Contact the Heating and Air Conditioning Program, West Campus Building, Room M127, telephone number 517-483-1570 or Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

General Education – Applied Degrees, Recommended Courses

- English Composition or Applied English
Program of Study Required Courses will meet this requirement
- English Composition (Second Course)/Communications or Applied Communications
Program of Study Required Courses will meet this requirement
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
Program of Study Required Courses will meet this requirement
- Mathematics or Applied Mathematics
Program of Study Required Courses will meet this requirement
- Natural Sciences Lab or Applied Science and Technology Lab
Program of Study Required Courses will meet this requirement

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
COMM 130	Fundamentals Public Speaking	3 / 3
ENGL 121	Composition I	4 / 4
ENGL 124	Technical Writing	3 / 3
GEOG 200	World Regional Geography	4 / 4
HUMS 160	Mythology	4 / 4
HVAC 100	Fundamentals of HVAC	3 / 3
HVAC 102	Industrial/Construction Safety	2 / 3

Course Code	Course Title	Credit / Billing Hours
HVAC 110	Applied Electricity I	3 / 4
HVAC 111	Applied Electricity II	3 / 4
HVAC 120	Heating I	3 / 4
HVAC 130	Air Conditioning I	3 / 4
HVAC 201	Mechanical Code	4 / 4
HVAC 220	Heating II	3 / 4
HVAC 221	Introduction to Hydronics	3 / 4
HVAC 230	Air Conditioning II	3 / 4
HVAC 240	Refrigeration I	3 / 4
HVAC 241	Refrigeration II	3 / 4
HVAC 251	Fund of Direct Digital Control	3 / 4
MATH 126	Precalculus	5 / 5
PHYS 120	The Art of Physics	4 / 5

Total Credit Hours

66 credits / 78 billing hours

Recommended Course Sequence

Semester I	Semester II
ENGL 124	ENGL 121
HUMS 160	HVAC 111
HVAC 100	HVAC 120
HVAC 102	HVAC 130
HVAC 110	MATH 126

Semester III	Semester IV
COMM 130	GEOG 200
HVAC 220	HVAC 201
HVAC 221	HVAC 241
HVAC 230	HVAC 251
HVAC 240	PHYS 120