LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 0832 (Effective Fall 2018 – Summer 2023)

Heating and Air Conditioning C.A. Pathway

Students will receive instruction on how to install, service, and maintain heating, air conditioning, and refrigeration systems, including sheet metal and electrical, to prepare for entry-level positions. Students completing this certificate may use the credits towards the Heating and Air Conditioning Associate in Applied Science Degree (0836).

For More 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.

Semester I	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements *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 103, HVAC 105 and HVAC 110.*			
HVAC 100	Fundamentals of HVAC	Reading Level 3 and Writing Level 2	3 / 3
HVAC 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
HVAC 103	HVAC/R Piping	Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2	3 / 4
HVAC 105	Sheet Metal Fab & Installation	Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	2 / 3
HVAC 110	Applied Electricity I	Minimum 2.0 in (HVAC 102 or DCTM 102 or ELTE 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
		Credits	**13 / 17**

Semester II	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
HVAC 111	Applied Electricity II	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 120	Heating I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 130	Air Conditioning I	Minimum 2.0 in (HVAC 100 and HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
		Credits	**9 / 12**
Semester III	**Course Title**	**Prerequisites**	**Credit/Billing Hours**
Program of Study Requirements			
HVAC 220	Heating II	Minimum 2.0 in (HVAC 111 and HVAC 120) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 221	Introduction to Hydronics	Minimum 2.0 in HVAC 120 and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 230	Air Conditioning II	Minimum 2.0 in (HVAC 111 and HVAC 130) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 240	Refrigeration I	Minimum 2.0 in (HVAC 230 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
		Credits	**12 / 16**
		Total Credits	**34 / 45**