

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 1478
(Effective Fall 2018 –
Summer 2023)

Geothermal Technician C.A. Pathway

This certificate is intended to prepare students to work as an entry-level geothermal technician. Geothermal technicians are involved in various aspects of the installation and maintenance of all types and sizes of geothermal systems. Technicians need a working knowledge of all geothermal concepts and design principles.

For More Information

Contact the Energy Management Program at the West Campus Building, Room M103, telephone number (517) 483-5338 or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

Semester I	Course Title	Prerequisites	Credit/Billing Hours
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Program of Study Requirements

Students who have already completed ELTE 102, HVAC 102, METS 102 or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for DCTM 102. Any of these courses may also be used to fulfill the prerequisite for HVAC 103 and HVAC 110.

DCTM 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
HVAC 100	Fundamentals of HVAC	Reading Level 3 and Writing Level 2	3 / 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 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			11 / 14

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			
AEET 215	Geothermal Technology	Reading Level 3 and Writing Level 4	3 / 4
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 3
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
Credits			9 / 11
Semester IV	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
HVAC 201	Mechanical Code	Minimum 2.0 in (HVAC 120 and HVAC 130) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 4
HVAC 231	Heat Pump	Minimum 2.0 in HVAC 130 and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
Credits			7 / 8
Total Credits			36 / 45