

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Geothermal Technician  
Certificate of Achievement

Curriculum Code: 1478 (Effective Fall 2016 – Summer 2021)

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.

### PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

### INFORMATION

Contact the Energy Management Program, West Campus Building, Room M103, telephone number (517) 483-5338 (Website: [www.lcc.edu/design/alternative/](http://www.lcc.edu/design/alternative/)) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

### REQUIREMENTS

**TOTAL: 40 CREDITS**

CODE	TITLE	CREDIT HOURS
AEET 215	Geothermal Technology	3
DCTM 102	Industrial/Construction Safety (See Note 1)	2
DCTM 103	Codes and Specifications	3
ELTE 111	Intro to Industrial Automation	4
HVAC 100	Fundamentals of HVAC	3
HVAC 103	HVAC/R Piping (See Note 1)	3
HVAC 110	Applied Electricity I (See Note 1)	3
HVAC 111	Applied Electricity II	3
HVAC 120	Heating I	3
HVAC 130	Air Conditioning I	3
HVAC 201	Mechanical Code	4
HVAC 230	Air Conditioning II	3
HVAC 231	Heat Pump	3
<b>MINIMUM TOTAL</b>		<b>40</b>

**NOTES:**

1. 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.
2. To receive a certificate of achievement from Lansing Community College, a student must maintain a grade point average of 2.0 or above in the courses required for the certificate.

**SUGGESTED COURSE SEQUENCE**

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

<b>I</b>	<b>II</b>	<b>III</b>	<b>IV – Fall Only</b>
ELTE 111	DCTM 103	HVAC 201	AEET 215
DCTM 102	HVAC 111	HVAC 230	HVAC 231
HVAC 100	HVAC 120		
HVAC 103	HVAC 130		
HVAC 110			