

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Building Maintenance  
Certificate of Achievement

Curriculum Code: 1481 (Effective Fall 2015 – Summer 2020)

Graduates of this curriculum will be well versed in all aspects of building maintenance. Building Maintenance Technicians work on systems that control temperature, humidity, and air quality of enclosed spaces. These technicians must be able to maintain the aesthetic and structural integrity of buildings. They may also be responsible for maintenance and upkeep of mechanical, plumbing, and electrical equipment, as well as grounds keeping. They should be versatile enough to do routine painting, drywall plastering, woodworking, and pool maintenance as well as some custodial work. Technicians must have a strong mechanical aptitude, be self-motivated, willing to accept challenges, have a structured approach to problem solving and the ability to work well with others.

### 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 Utility & Energy Systems Program, West Campus Building, Room M127, telephone number (517) 483-1570 (Website: [www.lcc.edu/utility/hvac/](http://www.lcc.edu/utility/hvac/)) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

### REQUIREMENTS

**TOTAL: 35 CREDITS**

CODE	TITLE	CREDIT HOURS
BLDT 120	Structural Framing	4
DCTM 100	Intro to the Built Environment	3
ELTE 112	Basic Wiring Installation	2
HVAC 100	Fundamentals of HVAC	3
HVAC 102	Industrial/Construction Safety (See Note 1)	2
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 220	Heating II	3
HVAC 221	Introduction to Hydronics	3
HVAC 230	Air Conditioning II	3

**LIMITED CHOICE REQUIREMENTS****TOTAL: 7-12 CREDITS**Complete the indicated number of credits from **EACH CHOICE** listed below.

<b>CHOICE 1: Trade Related</b>		<b>7-12 Credits</b>
BLDT 130	Building Exterior Construction	4
BLDT 140	Building Interior Construction	4
DCTM 101	Drafting/Intro to CAD	3
HVAC 103	HVAC/R Piping (See Note 1)	3
HVAC 105	Sheet Metal Fab & Installation (See Note 1)	2
HVAC 240	Refrigeration I	3
WELD 103	Combination Welding	4
<b>MINIMUM TOTAL</b>		<b>42</b>

**NOTES:**

1. 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, HVAC 103 and HVAC 105.
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>
BLDT 120	DCTM 100	ELTE 112
HVAC 100	HVAC 111	HVAC 220
HVAC 102	HVAC 120	HVAC 221
HVAC 110	HVAC 130	HVAC 230
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