

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Heating and Air Conditioning/Building Maintenance  
Certificate of Achievement

Curriculum Code: 0832 (Effective Fall 2008 – Summer 2013)

Students in this program may select either the Heating, Air Conditioning and Refrigeration specialty (HVAC/R) or the Building Maintenance specialty. Students selecting the HVAC/R option 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 selecting the building maintenance option will learn through practical hands-on courses that will provide them with the necessary technical knowledge and skills needed for an entry-level position in the maintenance of residential and commercial buildings.

### PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

### INFORMATION

Contact the Manufacturing Engineering Technologies Department, West Campus Building, Room M103, telephone number (517) 483-1339 (Website: [www.lcc.edu/manufacturing/hvac/](http://www.lcc.edu/manufacturing/hvac/)) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5510.

### REQUIREMENTS

CODE	TITLE	TOTAL: 23 CREDITS CREDIT HOURS
HVAC 100	Fundamentals of HVAC	3
HVAC 105	Sheet Metal Fab & Installation	2
HVAC 110	Applied Electricity I	3
HVAC 111	Applied Electricity II	3
HVAC 120	Heating I	3
HVAC 130	Air Conditioning I	3
HVAC 220	Heating II	3
HVAC 230	Air Conditioning II	3

### LIMITED CHOICE REQUIREMENTS

TOTAL: 11-12 CREDITS

Complete the indicated number of credits from EACH CHOICE listed below.

#### CHOICE 1: HVAC Specialty (Choose one subchoice)

11-12 Credits

##### Subchoice 1A: HVAC/R Technician

HVAC 101	HVAC/R Piping	2
HVAC 221	Introduction to Hydronics	3
HVAC 240	Refrigeration I	3
HVAC 241	Refrigeration II	3

##### Subchoice 1B: Building Maintenance Technician

BLDT 101	Basic Woodworking (See Note 1)	2
BLDT 121	Residential Framing	4
BLDT 126	Interior Carpentry	4
BLDT 132	General Home Maintenance	2

MINIMUM TOTAL

34

**NOTE:**

1. Students who have experience in woodworking should see a program advisor about taking BLDR 112–Wood Project Lab in place of BLDT 101.

**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 or counselor for help with adjustments.

**Subchoice 1A: HVAC/R Technician**

I	II	III	IV
HVAC 100	HVAC 111	HVAC 220	HVAC 221
HVAC 101	HVAC 120	HVAC 230	HVAC 241
HVAC 105	HVAC 130	HVAC 240	
HVAC 110			

**Subchoice 1B: Building Maintenance Technician**

I	II	III
BLDT 101	BLDT 121	BLDT 126
HVAC 100	HVAC 111	BLDT 132
HVAC 105	HVAC 120	HVAC 220
HVAC 110	HVAC 130	HVAC 230