

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

**Curriculum Code:
1481 (Effective Fall
2017 – Summer
2022)**

Building Maintenance C.A. Pathway

Semester I	Course Title	Prerequisites	Credit/ Billing Hours
Program of Study Requirements			
BLDT 120	Structural Framing	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
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 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	3 / 4

Trade Electives - <i>Select 1</i>			
<i>8-12 total elective credits required for this certificate. Courses may not be duplicated.</i>			
BLDT 130	Building Exterior Construction	Minimum 2.0 in ((DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 140	Building Interior Construction	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
DCTM 101	Drafting/Intro to CAD	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 4
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	2 / 3
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
WELD 103	Combination Welding	Reading Level 3 and Writing Level 2	4 / 6
Credits			14-16 / 19-22

Semester II	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
DCTM 100	Intro to the Built Environment	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 4
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
Trade Electives - <i>Select 1</i> <i>8-12 total elective credits required for this certificate. Courses may not be duplicated.</i>			
BLDT 130	Building Exterior Construction	Minimum 2.0 in ((DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 140	Building Interior Construction	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
DCTM 101	Drafting/Intro to CAD	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 4
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 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
WELD 103	Combination Welding	Reading Level 3 and Writing Level 2	4 / 6
Credits			15-16 / 20-22

Semester III	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
ELTE 112	Basic Wiring Installation	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	2 / 3
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

Trade Electives - <i>Select 1</i>			
<i>8-12 total elective credits required for this certificate. Courses may not be duplicated.</i>			
BLDT 130	Building Exterior Construction	Minimum 2.0 in ((DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
BLDT 140	Building Interior Construction	Minimum 2.0 in (DCTM 102 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 4 and Writing Level 4 and Math Level 4	4 / 6
DCTM 101	Drafting/Intro to CAD	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 4
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 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
WELD 103	Combination Welding	Reading Level 3 and Writing Level 2	4 / 6
Credits			14-15 / 19-21
Total Credits			43-47 / 58-65