

LANSING COMMUNITY COLLEGE			
Computer, Engineering/Manufacturing Industrial Technologies			
Curriculum Code: 0836 (Effective Fall 2017 – Summer 2022)	Heating and Air Conditioning A.A.S. Pathway		
Semester I	Course Title	Prerequisites	Credit/ Billing Hours
Writing Core Area - <i>Select 1</i>			
ENGL 124 (formerly WRIT 124)	Technical Writing	(Reading Level 5 and Writing Level 6) or AASD 105 concurrently	3 / 3
Program of Study Requirements			
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 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 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
Credits			16 / 20

Semester II	Course Title	Prerequisites	Credit/Billing Hours
Math Core Area - <i>Select 1</i>			
MATH 115	Technical Math II	(Minimum 2.0 in MATH 114 within 2 years or Math Level 5 within 2 years) and Reading Level 5	4 / 4
Global Perspectives and Diversity Core Area - <i>Select 1</i>			
HUMS 213	World Civilizations to 1600	Reading Level 5 and Writing Level 6	4 / 4
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			17 / 20
Semester III	Course Title	Prerequisites	Credit/Billing Hours
Communication Core Area - <i>Select 1</i>			
COMM 130 (formerly SPCH 130)	Fund of Public Speaking	Reading Level 5 and Writing Level 6	3 / 3

Program of Study Requirements			
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
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
Trade Related Electives - <i>Select 1</i> <i>Courses may not be duplicated</i>			
AEET 215	Geothermal Technology	Reading Level 3 and Writing Level 4	3 / 4
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
DCTM 101	Drafting/Intro to CAD	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 4
ELTE 141	National Electric Code I	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 4
ELTE 150	Electric Motor Maintenance	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
WELD 103	Combination Welding	Reading Level 3 and Writing Level 2	4 / 6
Credits			17-19 / 22-25

Semester IV	Course Title	Prerequisites	Credit/ Billing Hours
Science Core Area - <i>Select 1</i>			
PHYS 120	The Art of Physics	Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 107 concurrently or MATH 109 concurrently)	4 / 5
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
HVAC 241	Refrigeration II	Minimum 2.0 in HVAC 240 and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4
HVAC 251	Fund of Direct Digital Control	Minimum 2.0 in HVAC 230 and Reading Level 3 and Writing Level 2 and Math Level 3	3 / 4

Trade Related Electives - <i>Select 1</i>			
<i>Courses may not be duplicated</i>			
AEET 215	Geothermal Technology	Reading Level 3 and Writing Level 4	3 / 4
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
DCTM 101	Drafting/Intro to CAD	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 4
ELTE 141	National Electric Code I	Minimum 2.0 in (ELTE 109 or ELTE 110 or HVAC 110) and Reading Level 3 and Writing Level 2 and Math Level 3	4 / 4
ELTE 150	Electric Motor Maintenance	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
WELD 103	Combination Welding	Reading Level 3 and Writing Level 2	4 / 6
Credits			20-21 / 25-27
Total Credits			70-73 / 87-92