

LANSING COMMUNITY COLLEGE			
Computer, Engineering/Manufacturing Industrial Technologies			
Curriculum Code: 1606 (Effective Fall 2017 – Summer 2022)	Energy Management Specialist A.A.S. Pathway		
Semester I	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>			
MGMT 234	Diversity in the Workplace	Reading Level 5 and Writing Level 6	3 / 3
Program of Study Requirements			
DCTM 100	Intro to the Built Environment	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 4
DCTM 102 <i>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 classes may also be used to fulfill the prerequisite for HVAC 110.</i>	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
HVAC 100	Fundamentals of HVAC	Reading Level 3 and Writing Level 2	3 / 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			18 / 21

Semester II	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			
AEET 120	Residential Energy	Reading Level 3 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
Credits			15 / 19

Semester III	Course Title	Prerequisites	Credit/ Billing Hours
Program of Study Requirements			
AEET 215	Geothermal Technology	Reading Level 3 and Writing Level 4	3 / 4
AEET 216	Solar Energy Technologies	Reading Level 3 and Writing Level 4 and Math Level 4	3 / 4
AEET 220	Energy Modeling	Minimum 2.0 in AEET 120 and Reading Level 4 and Writing Level 4 and Math Level 5	3 / 3
DCTM 103	Codes and Specifications	Reading Level 4 and Writing Level 4 and Math Level 4	3 / 3
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
Credits			15 / 18
Semester IV	Course Title	Prerequisites	Credit/Billing Hours
Science Core Area - <i>Select 1</i>			
BIOL 120	Environmental Science	(Reading Level 5 or AASD 105 concurrently) and Writing Level 6	4 / 6
CHEM 135	Chemistry in Society	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 5
PHYS 200	Intro Physics With Application	Reading Level 5 and Writing Level 6 and Math Level 5	4 / 5
Communication Core Area - <i>Select 1</i>			
COMM 110 (formerly SPCH 110)	Oral Comm in the Workplace	(Reading Level 5 and Writing Level 6) or AASD 104 concurrently	3 / 3

Program of Study Requirements			
AEET 256	Building Commissioning	Minimum 2.0 in (DCTM 103 or AEET 251) and Reading Level 5 and Writing Level 6 and Math Level 5	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
Capstone Project - <i>Select 1</i>			
AEET 275	Sustainable Building Design	Department Approval	4 / 6
AEET 280	Alternative Energy Practicum	Department Approval	4 / 4
Credits			17 / 20-23
Total Credits			65 / 78-81