

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 1480
(Effective Fall 2018 –
Summer 2023)

Energy Auditor C.A. Pathway

Professional Energy Efficiency Technicians are involved in the inventory and evaluation of a wide variety of energy producing systems. Technicians will deal with the integration of building, electrical and HVAC systems along with those in alternative energy systems. The Technician will need a working knowledge of “green” building concepts and energy efficient design principles. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

For More Information

Contact the Energy Management Program, West Campus Building, Room M103, telephone number (517) 483-5338 or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

Semester I	Course Title	Prerequisites	Credit/Billing Hours
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Program of Study Requirements

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.

DCTM 100	Intro to the Built Environment	Reading Level 4 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
DCTM 102	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 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
Credits			11 / 14

Semester II	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
AEET 120	Residential Energy	Reading Level 3 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
CITN 115	IoT & Automation Fundamentals	Reading Level 4 and Writing Level 4	5 / 6
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
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
AEET 216	Solar Energy Technologies	Reading Level 3 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
AEET 219	Wind Energies	Reading Level 3 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	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 or minimum 2.0 in MATH 105 or MATH 106)	3 / 3
Credits			14 / 17-18

Semester III	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
AEET 275	Sustainable Building Design	Department Approval	4 / 6
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
AEET 216	Solar Energy Technologies	Reading Level 3 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
AEET 219	Wind Energies	Reading Level 3 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	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 or minimum 2.0 in MATH 105 or MATH 106)	3 / 3
Credits			7 / 9-10
Total Credits			32 / 40-42