

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Energy Management Specialist
Associate in Applied Science Degree

Curriculum Code: 1606 (Effective Fall 2016 – Summer 2021)

Energy Management Specialists are involved in the commissioning, evaluation, planning, design, installation, and maintenance of a wide variety of energy systems in the built environment. The energy efficiency specialist will need a working knowledge of energy efficient building concepts and energy efficient design principles. Students completing this curriculum may also be eligible to apply for the Certificate of Completion in Alternative Energy Engineering Technology (1486). **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor before enrolling in any course.

PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

INFORMATION

Contact the Energy Management Program, West Campus Building, Room M103, telephone number (517) 483-5338 (Website: www.lcc.edu/design/alternative/) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

REQUIREMENTS

TOTAL: 42 CREDITS

CODE	TITLE	CREDIT HOURS
AEET 120	Residential Energy	3
AEET 215	Geothermal Technology	3
AEET 216	Solar Energy Technologies	3
AEET 219	Wind Energies	3
AEET 220	Energy Modeling	3
AEET 251	Commercial Energy Systems	4
AEET 256	Building Commissioning	3
DCTM 100	Intro to the Built Environment	3
DCTM 102	Industrial/Construction Safety (See Note 1)	2
DCTM 103	Codes and Specifications	3
HVAC 100	Fundamentals of HVAC	3
HVAC 110	Applied Electricity I	3
HVAC 120	Heating I	3
HVAC 130	Air Conditioning I	3

LIMITED CHOICE REQUIREMENTS**TOTAL: 20–25 CREDITS**Complete the indicated number of credits from **EACH CHOICE** listed below.**CHOICE 1: [General Education Core Areas](#)****12–17 Credits**

(Click the link above for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area.)

Communication Core Area	3–4
Global Perspectives and Diversity Core Area	3–4
Mathematics Core Area	3–5
Science Core Area (See Note 2)	0
Writing Core Area	3–4

Subchoice 1A: Science Choice**4 Credits**

BIOL 120	Environmental Science	4
CHEM 135	Chemistry in Society	4
PHYS 200	Intro Physics With Application	4

CHOICE 2: Capstone Project**4 Credits**

AEET 275	Sustainable Building Design	4
AEET 280	Alternative Energy Practicum	4

MINIMUM TOTAL**62****NOTES:**

- 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.
- Students completing “Subchoice 1A” have fulfilled the requirements for this Core area. Consult with an advisor for other courses that may fulfill the requirements for this Core area.

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 for help with adjustments.

I	II	III	IV
DCTM 100	AEET 120	AEET 215	AEET 219
DCTM 102	HVAC 120	AEET 216	AEET 256
HVAC 100	HVAC 130	AEET 220	Lim.Ch.1
HVAC 110	Lim.Ch.1	AEET 251	Lim.Ch.1
Lim.Ch.1	Lim.Ch.1	DCTM 103	Lim.Ch.2