

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 1022
(Effective Fall 2018 –
Summer 2023)

Customer Energy Specialist A.A.S. Pathway

This curriculum is designed to give students the technical knowledge and customer relations skills to determine customer energy needs in the negotiation, design, installation, and application of utility facilities. They negotiate barriers in order to supply energy from the road or nearest energy supply center to the outside of a building under construction. Customer energy specialists are employed by utility companies, governmental agencies, heating and cooling contractors, the construction industry, and engineering and architectural firms. 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 Electrical Technology Program at the West Campus Building, Room M127, telephone number (517) 483-1570 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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Writing Core Area - *Select 1*

ENGL 124	Technical Writing	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	3 / 3
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Program of Study Requirements

Students who have already completed DCTM 102, HVAC 102, METS 102 or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for ELTE 102. Any of these classes may also be used to fulfill the prerequisite for ELTE 108, ELTE 109 and ELTE 111.

BUSN 118	Introduction to Business	Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently) and Writing Level 4	3 / 3
CITA 110	Intro to Microsoft Office	Reading Level 4	3 / 3
ELTE 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3

Electives - <i>Select at least 1 course for a minimum of 4 credits</i> <i>Courses may not be duplicated</i>			
CIVL 120	Surveying	Minimum 2.0 in MATH 114 or Math Level 5	4 / 6
ELTE 111	Intro to Industrial Automation	Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or concurrently)) and Reading Level 3 and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6
ELTE 141	National Electrical 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
GRET 100	GIS Principles & Applications	None	3 / 4
GRET 210	Global Positioning Systems	None	3 / 4
METD 100	Basic Mechanical Drafting	Reading Level 3 and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
Credits			15-17 / 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
Program of Study Requirements			
ACCG 101	Accounting Info for Management	Reading Level 4 and Math Level 4	3 / 3
ELTE 108 <i>(1st 8 weeks)</i>	Practical Electricity I	Minimum 2.0 in (ELTE 102 or DCTM 102 or HVAC 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)	2 / 3
ELTE 109 <i>(2nd 8 weeks)</i>	Practical Electricity II	Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or concurrently)) and Reading Level 3 and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	2 / 3
ENGL 121	Composition I	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	4 / 4
Credits			15 / 17

Semester III	Course Title	Prerequisites	Credit/Billing Hours
Science Core Area - <i>Select 1</i>			
BIOL 120	Environmental Science	(Reading Level 5 or ENGL 099 concurrently) and Writing Level 6	4 / 6
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
PHYS 200	Intro To Applied Physics	Reading Level 5 and Writing Level 6 and (Math Level 5 or MATH 109 concurrently)	4 / 5
Program of Study Requirements			
DCTM 101	Drafting/Intro to CAD	Reading Level 4 and Writing Level 4 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
LEGL 215	Business Law-Basic Principles	None	3 / 3
MGMT 150	Managing Customer Relations	Reading Level 5 and Writing Level 6	3 / 3
MKTG 200	Principles of Marketing	Reading Level 5 and Writing Level 6	3 / 3
Credits			16 / 18-19

Semester IV	Course Title	Prerequisites	Credit/Billing Hours
Communication Core Area - <i>Select 1</i>			
COMM 110	Oral Comm in the Workplace	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	3 / 3
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
Electives - <i>Select at least 2 courses for a minimum of 8 credits</i> <i>Courses may not be duplicated</i>			
CIVL 120	Surveying	Minimum 2.0 in MATH 114 or Math Level 5	4 / 6
ELTE 111	Intro to Industrial Automation	Minimum 2.0 in ((ELTE 102 or DCTM 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and (ELTE 108 or concurrently)) and Reading Level 3 and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6
ELTE 141	National Electrical 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
GRET 100	GIS Principles & Applications	None	3 / 4
GRET 210	Global Positioning Systems	None	3 / 4
METD 100	Basic Mechanical Drafting	Reading Level 3 and Writing Level 2 and (Math Level 3 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4
Credits			14-15 / 16-18
Total Credits			60-63 / 67-74