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# Customer Energy Specialist Certificate



Engineering/Manufacturing & Industrial Technology

This program is designed to provide students with the competencies, knowledge and skills to function as a beginning Customer Energy Specialist for Consumers Energy. Completion does not guarantee employment.

Minimum credits:	48
Minimum cumulative GPA:	2.0
Minimum grade in all courses:	2.0
Minimum JCC credits:	12
MACRAO agreement:	No

### GENERAL EDUCATION REQUIREMENTS – (12 credits)

ENG 131 Writing Experience	.3
ENG 232 Technical & Business Writing	.3
MTH 120 Beginning Algebra or higher	.3
SPH 231 Communication Fundamentals	.3

### BUSINESS RELATED REQUIREMENTS – (16 credits)

ACC 216 Financial Counting Concepts or or ACC 231 Principles of Accounting I	.4
BUA230 Principles of Marketing or BUA100 Contemporary Business	.3
BUA121 Leadership or BUA120 Human Relations in Business	.3
BUA250 Business Law I	.3
CIS 101 Introduction to Computer Systems	.3

### TECHNICAL CORE REQUIREMENTS – (15 credits)

CAD 131 Computer Assisted Drafting I(AutoCAD)	.3
CAD 132 Computer Assisted Drafting II (AutoCAD)	.3
PHY131 Conceptual Physics or PHY 160 Industrial Physics	.2
ELT 120 Circuit Analysis I	.4
ELT 125 Circuit Analysis II	.3

### ELECTIVES

Select electives from any of the following disciplines: BIO, CEM, EGR, GEO, NSC, CPS, CIS or choose from the following courses: ELT 150, ELT 152, ELT 215 or from any additional MTH course at a higher level than used for the general education requirement to meet the 48 credits required for the certificate.