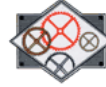




www.jccmi.edu

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
BUA 230 Principles of Marketing or BUA 100 Contemporary Business	3
BUA 121 Leadership or BUA 120 Human Relations in Business	3
BUA 250 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.