

Industrial Technologies

Offered at MCC-Business & Technology

A.A.S. INTE Industrial Electrical Emphasis

201806 Revised 11/2016 (Fall 2017)

General Education Requirements	Credits	Semester Taken	Prerequisites
COLL 100 First Year Seminar	1		
ENGL 101 Composition and Reading I	3		ENGL 90 with a minimum grade of S or appropriate placement score
ENGL 215 Technical Writing or SPAN 100 Beginning Occupational Spanish	3		ENGL 101 (ENGL 215)
HIST 120 United States History to 1865 or HIST 121 United States History Since 1865 or POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics	3		
COMM 100 Fundamentals of Speech	3		ENGL 90 with a minimum grade of S or appropriate placement score.
Option 1: MATH 103 Technical Mathematics I or MATH 103R Technical Mathematics I w/ review or MATH 120 College Algebra or MATH 104 Technical Mathematics II or MATH 130 Trigonometry Option 2: MATH 150 PreCalculus or higher	5-8		MATH 31 with a grade of S or appropriate placement (MATH 103 and MATH 104) MATH 95 with a grade of C or appropriate placement (MATH 120 and MATH 150) MATH 120 or appropriate placement score (MATH 130)
Any course numbered 100 or higher from the following disciplines: ART, ANTH, COMM, ECON, ENGL, FOREIGN LANGUAGE, GEOG (Except 104,110 or GIS Courses), HIST, HUMN, MUSI, PHIL, POLS, PSYC, SIGN, SOS, SOCI, THEA	3-5		
Minimum Total General Education Credit Hours	20		
Core Program Requirements			
EHSS 111 Introduction to Health & Safety for General Industry	1		
INTE 107 Industrial Electrical Safety	2		
INTE 112 Industrial Electrical DC Principles	2		Concurrent enrollment or completion of MATH 103 or higher
INTE 113 Industrial Electrical AC Principles	2		INTE 112 or equivalent
INTE 115 Electrical Print Reading	3		INTE 113
INTE 124 Employment Strategies for Technical Careers	2		
INTE 140 Fundamentals of Industrial Machine Repair	3		
INTE 175 Electric Motor Controls I	3		HVAC 109 or INTE 115
Industrial Electrical Program Requirements			
INTE 142 National Electric Code	3		INTE 113
INTE 225 Industrial Electrical Print Reading	3		INTE 115
INTE 271 Programmable Logic Controller I	4		INTE 113 and 175 with a grade of C or higher
INTE 273 Variable Speed Motors and Drives	3		INTE 175 and 271
INTE 275 Electric Motor Controls II	3		INTE 175
INTE 276 Electrical and PLC Troubleshooting	4		INTE 275 and INTE 271, co-requisites
INTE 281 Industrial Robotics	4		INTE 271 or concurrent enrollment
Total Credit Hours Required	63-68		