

Industrial Technologies

Offered at MCC-Business & Technology

A.A.S. INTE Industrial Electrical Emphasis

201806 Revised 11/2018 (Fall 2019)

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 <i>or</i> SPAN 100 Beginning Occupational Spanish	3		ENGL 101 (ENGL 215)
HIST 120 United States History to 1865 <i>or</i> HIST 121 United States History Since 1865 <i>or</i> POLS 135 Introduction to Political Science <i>or</i> POLS 136 Introduction to U.S. National Politics <i>or</i> 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 <i>or</i> MATH 120 College Algebra and MATH 104 Technical Mathematics II <i>or</i> MATH 130 Trigonometry Option 2: MATH 150 PreCalculus or higher	5-6		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, SOSOC, 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 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	61-64		