

# Industrial & Engineering Technology

## Industrial Technologies

*Offered at MCC-Business & Technology*

### A.A.S. INTE Industrial Electrical Emphasis

201806 Revised 11/2016 (Fall 2017)

COLL 100	First Year Seminar	1		
General Education Requirements		Credits	Semester Taken	Prerequisites
ENGL 101	Composition and Reading I	3		ENGL 30/90 or ENGL 90 or appropriate placement test score
ENGL 215	Technical Writing <b>or</b>	3		ENGL 101 (ENGL 215)
SPAN 100	Beginning Occupational Spanish			
HIST 120	United States History to 1865 <b>or</b>	3		
HIST 121	United States History Since 1865 <b>or</b>			
POLS 135	Introduction to Political Science <b>or</b>			
POLS 136	Introduction to American National Politics <b>or</b>			
POLS 137	Introduction to State and Local Politics			
COMM 100	Fundamentals of Speech	3		ENGL 30/90 or appropriate placement test score
<b>Option 1:</b>		5-8		MATH 40/40L or appropriate placement test score (MATH 103), MATH 103 (MATH 104), MATH 110 or appropriate placement test score (MATH 120), MATH 120 or appropriate placement test score (MATH 130) MATH 110 or satisfactory score on math placement test (MATH 150).
MATH 103	Technical Mathematics I <b>or</b>			
MATH 103R	Technical Mathematics I w/ review <b>or</b>			
MATH 120	College Algebra <b>or</b>			
MATH 120R	College Algebra w/ review <b>and</b>			
MATH 104	Technical Mathematics II <b>or</b>			
MATH 130	Trigonometry			
<b>Option 2:</b>		3-5		
MATH 150	PreCalculus or higher			
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				
<b>Minimum Total General Education Credit Hours</b>		<b>20</b>		
<b>Core Program Requirements</b>				
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		CSIS 100 or CSIS 115 or higher
INTE 140	Fundamentals of Industrial Machine Repair	3		
INTE 175	Electric Motor Controls I	3		HVAC 109 or INTE 115
<b>Industrial Electrical Program Requirements</b>				
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
<b>Total Credit Hours Required</b>		<b>63-68</b>		