

Industrial Technologies

AAS INTE – Instrumentation & Controls Emphasis

201827 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 90 with a minimum grade of S or appropriate placement score
ENGL 215 SPAN 100	Technical Writing or Occupational Spanish	3		ENGL 101 (ENGL 215)
HIST 120 HIST 121 POLS 135 POLS 136 POLS 137	United States History to 1865 or United States History Since 1865 or Introduction to Political Science or Introduction to American National Politics or Introduction to State and Local Politics	3		
Option 1: MATH 103 MATH 103R MATH 120 MATH 104 MATH 130 Option 2: MATH 150	Technical Mathematics I or Technical Mathematics I w/ review or College Algebra or Technical Mathematics II or Trigonometry 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)
COMM 100	Fundamentals of Speech	3		ENGL 90 with a minimum grade of S or appropriate placement score.
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, SOSC, SOCI, THEA		3-5		
Minimum Total General Education Credit Hours		18		
Core Program Requirements				
INTE 107	Industrial Electrical Safety	2		
EHSS 111	Introduction to Health and Safety for General Industry	1		
INTE 112	Industrial Electrical DC Principles	2		Concurrent enrollment or completion of MATH 103R 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
Specific Program Requirements				
CSIS 110	Information and Technology Fundamentals	3		
CSIS 123	Programming Fundamentals	3		MATH 40/40L or higher or appropriate score on placement test
INTE 270	Instrumentation & Process Control	3		HVAC 201 or INTE 271
INTE 271	Programmable Logic Controllers I	4		INTE 113, INTE 175 with a grade of C or higher
INTE 272	Programmable Logic Controllers II	3		INTE 115 and INTE 271
INTE 276	Electrical and PLC Troubleshooting	4		INTE 275 and INTE 271 as co-requisites
INTE 279	Networking for Automated Systems	3		INTE 271
INTE 280	Networking- HMI for the PLC	4		INTE 272
INTE 291	Process Control Capstone	4		INTE 270 and INTE 272
Total Credit Hours Required		70-75		