

Academic & Career PATHWAYS

Associate of Applied Science (A.A.S.)

Industrial Technologies - Industrial Electrical – Full-Time Advising Guide

If you enjoy always learning new technology and hands on learning, careers in the industrial technology program will prepare you for jobs related to the repair and installation of automation, robotics and programming of machines in manufacturing, energy and utilities.

	Course	Degree Requirements Met	Credits	Action Steps
Semester 1				
<input type="checkbox"/>	ENGL101 Composition & Reading I	General Education Requirement	3	<ul style="list-style-type: none"> Meet with Student Success Advisor to build degree plan
<input type="checkbox"/>	MATH 120 College Algebra OR MATH 102 Technical & Business Math Choose one	Mathematics Requirement	3	
<input type="checkbox"/>	INTE 107 Industrial Electrical Safety	Core Program Requirement	2	
<input type="checkbox"/>	MATH 104 Technical Mathematics I/MATH 130 Trigonometry or MATH150 (if not completed earlier) Choose one	Mathematics Requirement	3	
<input type="checkbox"/>	INTE 112 Industrial Electrical DC Principles	Core Program Requirement	2	
<input type="checkbox"/>	INTE 113 Industrial Electrical AC Principles	Core Program Requirement	2	
<input type="checkbox"/>	COMM 100 Fundamentals of Speech	General Education Requirement	3	
Total Semester Credits			18	
Semester 2				
<input type="checkbox"/>	ENGL 215 Technical Writing OR SPAN 100 Beginning Occupational Spanish	General Education Requirement	3	<ul style="list-style-type: none"> Meet with Student Success Advisor Complete Civics Exam with 70% or higher
<input type="checkbox"/>	EHSS 111 Introduction to Health and Safety for General Industry	Core Program Requirement	1	
<input type="checkbox"/>	INTE 140 Fundamentals of Industrial Machine Repair	Core Program Requirement	3	
<input type="checkbox"/>	INTE 115 Electrical Print Reading	Core Program Requirement	3	
<input type="checkbox"/>	INTE 175 Electric Motor Controls I	Core Program Requirement	3	
<input type="checkbox"/>	HIST 120 United States History to 1865 HIST 121 United States History since 1865 OR POLS 136 Introduction to U.S. National Politics Choose one	General Education Requirements	3	
<input type="checkbox"/>	ELECTIVE Choose any course 100 level or higher if semester total is less than 15	Elective	1-2	
Total Semester Credits			17-18	



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Semester 3				
<input type="checkbox"/>	INTE 142 National Electric Code (NEC)	Program Requirement	3	<ul style="list-style-type: none"> ▪ Meet with Student Success Advisor ▪ Meet with Career Center
<input type="checkbox"/>	INTE 225 Industrial Electrical Print Reading	Program Requirement	3	
<input type="checkbox"/>	INTE 271 Programmable Logic Controller I	Program Requirement	4	
<input type="checkbox"/>	INTE 273 Variable Speed Motors and Drives	Program Requirement	3	
<input type="checkbox"/>	ELECTIVE <i>Choose any course 100 level or higher if semester total is less than 15</i>	Elective	1-2	
Total Semester Credits			14-15	
Semester 4				
<input type="checkbox"/>	INTE 275 Electric Motor Controls II	Program Requirement	3	<ul style="list-style-type: none"> ▪ Meet with Student Success Advisor ▪ Apply for Graduation ▪ Apply for jobs
<input type="checkbox"/>	INTE 276 Electrical and PLC Troubleshooting	Program Requirement	4	
<input type="checkbox"/>	INTE 281 Industrial Robotics	Program Requirement	4	
<input type="checkbox"/>	ELECTIVE <i>Choose any course 100 level or higher if semester total is less than 15</i>	Elective	1-2	
Total Semester Credits			13-14	
Credits Required for A.A.S. Degree			60 – 63*	
<i>*The A.A.S. in Industrial Technologies - Industrial Electrical requires a minimum of 60.0 - 63.0 total credits to graduate. When selecting a course from multiple options, please consider the number of credits for each course to ensure meeting the minimum requirements for graduation.</i>				

This Pathway Map is an advising tool designed for full-time students and identifies the course recommendations for timely degree completion. All pathway maps can be modified to fit the individual needs of students. All students are encouraged to meet with their success advisor to develop an individualized completion plan that best meets their goals, interests, and objectives. Degree requirements and prerequisite information can be found here: [Industrial Electrical](#)

Please note:

Courses may require a prerequisite or appropriate placement, see the [Academic Catalog](#) for additional information.