



# Academic & Career PATHWAYS

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

### Industrial Technologies - Millwright 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
<b>Semester 1</b>				
<input type="checkbox"/>	ENGL101 Composition & Reading I	General Education Requirement	3	<ul style="list-style-type: none"> <li>Meet with Student Success Advisor to build degree plan</li> </ul>
<input type="checkbox"/>	COMM 100 Fundamentals of Speech	General Education Requirement	3	
<input type="checkbox"/>	MATH 102 Technical and Business Math <b>OR</b> MATH 120 College Algebra <b>Choose one</b>	General Education Requirement	3	
<input type="checkbox"/>	INTE 107 Industrial Electrical Safety	Program Requirement	2	
<input type="checkbox"/>	EHSS 111 Introduction to Health & Safety	Program Requirement	1	
<input type="checkbox"/>	WELD 110 Welding Industry Fundamentals	Specific Program Requirement	3	
<b>Total Semester Credits</b>			<b>15</b>	
<b>Semester 2</b>				
<input type="checkbox"/>	MATH 104 Technical Mathematics II MATH 130 Trigonometry <b>OR</b> MATH 150 PreCalculus <b>Choose one</b>	General Education Requirement	3-5	<ul style="list-style-type: none"> <li>Meet with Student Success Advisor</li> <li>Meet with <a href="#">Career Center</a></li> </ul>
<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"/>	CIMM 101 Machine Shop Safety	Specific Program Requirement	1	
<input type="checkbox"/>	CIMM 102 Basic Lathe Operation	Specific Program Requirement	1	
<input type="checkbox"/>	CIMM 103 Basic Mill Operation	Specific Program Requirement	1	
<input type="checkbox"/>	WELD 120 Thermal Cutting Processes Lecture	Specific Program Requirement	1	
<input type="checkbox"/>	WELD 121 Thermal Cutting Processes Lab	Specific Program Requirement	2	
<b>Total Semester Credits</b>			<b>13-15</b>	
<b>Semester 3</b>				
<input type="checkbox"/>	INTE 140 Industrial Machine Repair	Core Program Requirement	3	<ul style="list-style-type: none"> <li>Meet with Student Success Advisor</li> </ul>
<input checked="" 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"/>	HVAC 230 Sheet Metal Layout and Fabrication	Specific Program Requirement	4	
<input type="checkbox"/>	INTE 150 Fluid Power Fundamentals of Hydraulics and Pneumatics	Specific Program Requirement	3	
<b>Total Semester Credits</b>			<b>16</b>	



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<b>Semester 4</b>				
<input type="checkbox"/>	INTE 240 Advanced Machine Repair	Specific Program Requirement	3	<ul style="list-style-type: none"> <li>▪ Meet with Student Success Advisor</li> <li>▪ Complete <a href="#">Civics Exam</a> with 70% or higher</li> <li>▪ Apply for Graduation</li> <li>▪ Apply for jobs</li> </ul>
<input type="checkbox"/>	INTE 260 Industrial Pipefitting and Plumbing Fundamentals	Specific Program Requirement	3	
<input type="checkbox"/>	INTE 151 Industrial Rigging	Specific Program Requirement	3	
<input checked="" type="checkbox"/>	ENGL 215 Technical Writing <b>OR</b> SPAN 100 Spanish	General Education Requirement	3	
<input checked="" type="checkbox"/>	HIST 120 United States History to 1865 HIST 121 United States History since 1865 <b>OR</b> POLS 136 Introduction to U.S. National Politics <b>Choose one</b>	Civics Requirement	3	
<input type="checkbox"/>	ELECTIVE COURSE <b>Choose <a href="#">any course</a> 100 level or higher</b>	Elective	3	
<b>Total Semester Credits</b>			<b>18</b>	
<b>Credits Required for A.A.S. Degree</b>			<b>61-64</b>	
<p><i>*The A.A.S. in Industrial Technologies - Millwright requires a minimum of 61 – 64 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></p>				

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 Technologies - Millwright](#)

Please note:

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