



Curriculum Evaluation			Automation and Robotics		
<i>Certificate of Program Completion (Catalog Year: 2025, Required Hours: 900, Credits: 30)</i>					
Core (Required Hours: 720, Credits: 24)					
<i>Industrial Technician (Required Hours: 720, Credits: 24)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
IAMT 1100	Industrial Safety and Workplace Relations	1.00	30.00	4	
IAMT 1201	Automation Maintenance Basics	2.00	60.00	11	
IAMT 1000	Electronic Fundamentals for Industrial Automation	4.00	120.00	5	
IAMT 1301	Industrial Mechanics	4.00	120.00	12	
IAMT 1250	Fluid Power Hydraulics	2.00	60.00	14	
IAMT 1450	Fluid Power Pneumatics	2.00	60.00	15	
IAMT 1600	Electrical Motor Controls	4.00	120.00	15	
IAMT 1750	Automatic Controls Troubleshooting	2.00	60.00	6	IAMT 1450, IAMT 1600
IAMT 2000	Programmable Logic Controllers I	3.00	90.00	12	
Emphasis (Required Hours: 180, Credits: 6)					
<i>Automation Technician (Required Hours: 180, Credits: 6)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
IAMT 1005	Renewable Energy	2.00	60.00	4	
IAMT 1150	Lean Manufacturing (Six Sigma)	1.00	30.00	4	
IAMT 1500	Electric Motors/Drives	3.00	90.00	9	
IAMT 1850	Electrical Equipment Basics	1.00	30.00	5	
HVAC 1900	HVAC Refrigeration	3.00	90.00	1	
IAMT 2010	Human Machine Interface (HMI) Programming	3.00	90.00	5	
IAMT 2025	Industrial Robotics	3.00	90.00	8	
IAMT 2027	UAV/Drone Technology	3.00	90.00	1	
IAMT 2030	Semiconductor Devices	4.00	120.00	11	IAMT 1000
IAMT 2050	Programmable Logic Controllers II	3.00	90.00	8	IAMT 2000
IAMT 2060	Controls Integration	3.00	90.00	5	IAMT 1250, IAMT 1450, IAMT 1600, IAMT 2000
IAMT 2070	Building Control Panels	3.00	90.00	5	IAMT 1600, IAMT 2000
IAMT 2105	FANUC IR Vision Systems	1.00	30.00	8	
IAMT 2115	Vision Systems Basics	1.00	30.00	11	
IAMT 2200	Instrumentation - Process Control	3.00	90.00	6	
IAMT 2250	Process Technology Equipment and System Operators	3.00	90.00	6	
IAMT 2305	Microcontroller/Microprocessor Programming	2.00	60.00	9	
IAMT 2400	Electronics Assembly and Soldering	2.00	60.00	7	
IAMT 2055	Aerospace Technician	2.00	60.00	11	
IAMT 2910	Final Project	3.00	90.00	6	
IAMT 2125	Industrial Networking	3.00	90.00	5	
IAMT 2950	Automation and Robotics Externship	2.00	90.00	1	
AEID 1445	Interpreting Engineering Drawings	1.00	30.00	7	
WWSK 1500	Job Seeking Skills	1.00	30.00	6	
WELD 1001	Introduction to Welding	2.00	60.00	5	

IAMT 2090	Advanced Robotics	1.00	30.00	1	
IAMT 2005	Servo Motors/Drives	1.00	30.00	1	
IAMT 2080	Programmable Logic Controllers III	3.00	90.00	1	
WKSK 1400	Workplace Success	2.00	60.00	3	
Additional Electives (Required Hours: 0)					
<i>Automation and Robotics (Required Hours: 0)</i>		Credits	Hours	Modules	Prerequisite Course Number(s)
IAMT 0010	Automation and Robotics Orientation	-	1.00	1	