Industrial Automation Maintenance, Certificate 24-25 catalog

Description: This certificate program is for students interested in robotics and their use in industrial settings. Students will learn concepts of electricity, programmable logic controllers, motors, hydraulics, robotics, and the integration of robotic systems.

Completion Time: 2 Years

Part-time course schedule (You do not have to follow this exact schedule. It is meant to show the courses needed.)

Year 1

Fall Semester

❑	**Success Skills for the 21st Century**	GNST 100	*3 Cr.*
❑	**Electrical Circuit Analysis***	ATMN 110	*3 Cr.*
❑	**Industrial Applied Algebra**	INDS 122	*2 Cr.*

Spring Semester

❑	**Industrial Motors and Controls**	ATMN 140	*4 Cr.*
❑	**Industrial Control Systems-Allen Bradley**	ATMN 160	*4 Cr.*
❑	Choose 1		
	Pneumatics	INDS 106	*3 Cr.*
	Hydraulics	INDS 107	*3 Cr.*

Year 2

Fall Semester

❑	**Industrial Networking**	ATMN 175	*2 Cr.*
❑	**Advanced PLC**	ATMN 260	*3 Cr.*
❑	**Industrial Automation I**	ATMN 270	*3 Cr.*

Spring Semester

❑	**Industrial Automation II**	ATMN 275	*3 Cr.*
❑	**Automation Maintenance**	ATMN 280	*3 Cr.*
❑	**Industrial Automation Integration**	ATMN 285	*3 Cr.*

Total Credits: 36

*ATMN 110 requires knowledge of algebra and manipulation of variables. INDS 122 is a pre-requisite but may be allowed to enroll along with ATMN 110 depending on mathematics background. PLease contact Student Success Center with questions.

Academic Advising: You should meet with an academic counselor prior to registering for classes.

Note: Prerequisite courses may apply to this program. A minimum of 30 unduplicated credits (100 level or higher) are required for all certificate programs.

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Year 3

Spring Semester

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❑	**Automation Maintenance**	ATMN 280	*3 Cr.*
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