

Industrial Automation Technology, A.A.S.

26-27 catalog

Full-time

Description: This 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

This is suggested course sequencing. Please see a counselor or advisor for individual adjustments.

Year 1

Fall Semester

☐ Success Skills for the 21st Century	GNST 100	3 Cr.
☐ Electrical Circuit Analysis*	ATMN 110	3 Cr.
☐ Freshman English I	ENGL 100	3 Cr.
☐ Industrial Applied Algebra	INDS 122	2 Cr.
☐ Oral Communication Requirement		3 Cr.

Spring Semester

☐ Industrial Motors and Controls	ATMN 140	4 Cr.
☐ ????	ATMN 271	4 Cr.
☐ Industrial Applied Geometry	INDS 124	2 Cr.
☐ Choose 1		
Pneumatics	INDS 106	3 Cr.
Hydraulics	INDS 107	3 Cr.
United States History Since 1865	HIST 251	3 Cr.

Summer Session

☐ Industrial Networking	ATMN 175	2 Cr.
☐ Advanced PLC	ATMN 260	3 Cr.
☐ Mathematics Requirement		4 Cr.

Year 2

Fall Semester

☐ Industrial Control Systems-Allen Bradley	ATMN 160	4 Cr.
☐ ????	ATMN 276	? Cr.
☐ Humanities Requirement		3-4 Cr.
☐ Choose 1		
American Political System	POLI 240	3 Cr.
United States History to 1865	HIST 250	3 Cr.
Pneumatics	INDS 106	3 Cr.
Hydraulics	INDS 107	3 Cr.

*Students must take one Social Science class (POLI 240, HIST 250, HIST 251) AND either INDS 106 or INDS 107)

Spring Semester

☐ Automation Maintenance	ATMN 280	3 Cr.
☐ Industrial Automation Integration	ATMN 285	3 Cr.
☐ Laboratory Science Requirement		4 Cr.
☐ Industrial Applied Right Angle and Oblique Trigonometry	INDS 127	2 Cr.

Total Minimum Credits: 60

*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 60 unduplicated credits (100 level or higher) are required for all associate degree programs.

Part-time

Description: This 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: 4.5 Years

This is suggested course sequencing. Please see a counselor or advisor for individual adjustments.

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 Applied Geometry	INDS 124	2 Cr.

Year 2

Fall Semester

☐ Industrial Control Systems-Allen Bradley	ATMN 160	4 Cr.
☐ Humanities Requirement		3-4 Cr.

Spring Semester

☐ ????	ATMN 271	4 Cr.
☐ Freshman English I	ENGL 100	3 Cr.
☐ Industrial Applied Right Angle and Oblique Trigonometry	INDS 127	2 Cr.

Year 3

Fall Semester

☐ ????	ATMN 276	? Cr.
☐ Laboratory Science Requirement		4 Cr.

Spring Semester

☐ Automation Maintenance	ATMN 280	3 Cr.
☐ Industrial Automation Integration	ATMN 285	3 Cr.

Year 4

Fall Semester

☐ Industrial Networking	ATMN 175	2 Cr.
☐ Mathematics Requirement		4 Cr.

Spring Semester

☐ Oral Communication Requirement		3 Cr.
☐ Choose 1		
Pneumatics	INDS 106	3 Cr.
Hydraulics	INDS 107	3 Cr.
United States History Since 1865	HIST 251	3 Cr.

Year 5

Fall Semester

☐ Advanced PLC	ATMN 260	3 Cr.
☐ Choose 1		
American Political System	POLI 240	3 Cr.
United States History to 1865	HIST 250	3 Cr.
Pneumatics	INDS 106	3 Cr.
Hydraulics	INDS 107	3 Cr.

*Students must take one Social Science class (POLI 240, HIST 250, HIST 251) AND either INDS 106 or INDS 107)

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 60 unduplicated credits (100 level or higher) are required for all associate degree programs.

*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.

Courses in italics may be taken in the summer term.

Total Minimum Credits: 60

Industrial Automation Technology, A.A.S.

26-27 catalog

Full-time spring start

Description: This 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: 3 Years

This is suggested course sequencing. Please see a counselor or advisor for individual adjustments.

Year 1

Spring Semester

☐ Success Skills for the 21st Century	GNST 100	3 Cr.
☐ Freshman English I	ENGL 100	3 Cr.
☐ Mathematics Requirement		4 Cr.

Fall Semester

☐ Electrical Circuit Analysis*	ATMN 110	3 Cr.
☐ Industrial Applied Algebra	INDS 122	2 Cr.
☐ Oral Communication Requirement		3 Cr.
☐ Laboratory Science Requirement		4 Cr.

*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 60 unduplicated credits (100 level or higher) are required for all associate degree programs.

Year 2

Spring Semester

☐ Industrial Motors and Controls	ATMN 140	4 Cr.
☐ ????	ATMN 271	4 Cr.
☐ Industrial Applied Geometry	INDS 124	2 Cr.

Fall Semester

☐ Industrial Control Systems-Allen Bradley	ATMN 160	4 Cr.
☐ ????	ATMN 276	? Cr.
☐ Humanities Requirement		3-4 Cr.

Year 3

Spring Semester

☐ Automation Maintenance	ATMN 280	3 Cr.
☐ Industrial Automation Integration	ATMN 285	3 Cr.
☐ Industrial Applied Right Angle and Oblique Trigonometry	INDS 127	2 Cr.
☐ Choose 1		
Pneumatics	INDS 106	3 Cr.
Hydraulics	INDS 107	3 Cr.
United States History Since 1865	HIST 251	3 Cr.

Fall Semester

☐ Industrial Networking	ATMN 175	2 Cr.
☐ Advanced PLC	ATMN 260	3 Cr.
☐ Choose 1		
American Political System	POLI 240	3 Cr.
United States History to 1865	HIST 250	3 Cr.
Pneumatics	INDS 106	3 Cr.
Hydraulics	INDS 107	3 Cr.

*Students must take one Social Science class (POLI 240, HIST 250, HIST 251) AND either INDS 106 or INDS 107)

Total Minimum Credits: 60