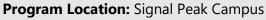
Area of Interest: Industrial Technology & Skilled Trades Degree: Automated Industrial Technology, Associate of Applied Science Stackable Certificate 1: Automated Industrial Technology I Stackable Certificate 2: Automated Industrial Technology II College Catalog: <u>2025-2026</u>



**Program Description:** The Associate in Applied Science (AAS) in Automated Industrial Technology prepares students to troubleshoot, maintain and repair a variety of automated electro-mechanical, product assembly, process control, and product distribution systems that use programmable controls and other methodologies to accomplish system management. These systems include robotic, mechanical, hydraulic, pneumatic, electrical and electronic devices. Through this degree, graduates will gain the skills to define, integrate, install, program, and maintain complex control systems. Additionally, students will gain the communication, problem solving, and professional skills needed to be successful in this field. The Automated Industrial Technology courses are designed to prepare students for industry recognized certifications. Certificates of Completion (CCL) in Automated Industrial Technology I and II are also available.

ollege

## Contact Information: Advising: <u>itst.advisor@centralaz.edu</u> Area of Interest Website: Industrial Technology and Skilled Trades - Central Arizona Co

Area of Interest Website: Industrial Technology and Skilled Trades - Central Arizona College (centralaz.edu)

Leg	end					
Bold Course = Required Course Recommended Co			ourse (R)		Stackable Certificate (SC)	
Written Communication (WC)         Oral Communication (OC)			Arts/Humanities (AH)		Social/Behavioral Science (SB)	
Lab Science (LS) Mathematics (M)				(	Core Course (CC)	
		<b>r 1- <u>SPRING START</u></b> ents-Find your suggested starting point for <u>Englis</u>	h/Reading 8	<u>k Math</u> courses.		
		COURSE	CREDITS	SEMESTER/GRA	DE NOTES	
SC1	CC	AIT100 Industrial Safety	1			
SC1	CC	AIT105 Maintenance Operations	3			
SC1	CC	AIT110 Mechanical Power Transmission Systems	3			
SC1	CC	AIT115 Hydraulic Systems	3			
SC1	CC	AIT120 Pneumatic Systems	3			
SC1	CC	AIT125 DC and AC Components and Circuits	3			
		Semester Credits:	16	Meet with your	CAC advisor each semester!	
	Semester 2- FALL Students <u>MUST</u> complete SC1 Before enrolling in SC2.					
Stu	dents					
510	dents	<u>MUST</u> complete SC1 Before enrolling in S COURSE	C2. CREDITS	SEMESTER/GRA	DE NOTES	
SC2				SEMESTER/GRA	DE NOTES	
SC2		COURSE AIT205 Power Electronics and Variable	CREDITS	SEMESTER/GRA	DE NOTES	
SC2	cc cc	COURSE AIT205 Power Electronics and Variable Frequency Drives AIT210 Programmable Logic Controller	CREDITS 3	SEMESTER/GRA	DE NOTES	
SC2 SC2	cc cc	COURSE AIT205 Power Electronics and Variable Frequency Drives AIT210 Programmable Logic Controller Programming and Troubleshooting	CREDITS 3 3	SEMESTER/GRA	DE NOTES	
SC2 SC2 SC2	сс сс сс	COURSE AIT205 Power Electronics and Variable Frequency Drives AIT210 Programmable Logic Controller Programming and Troubleshooting AIT215 Process Control Systems	CREDITS 3 3 4	SEMESTER/GRA	DE NOTES	
SC2 SC2 SC2 SC2	сс сс сс сс	COURSEAIT205 Power Electronics and Variable Frequency DrivesAIT210 Programmable Logic Controller Programming and TroubleshootingAIT215 Process Control SystemsAIT225 Industrial Motors and Motor Control	CREDITS         3         3         4         3		DE NOTES	
SC2 SC2 SC2 SC2 SC2	сс сс сс сс сс	COURSEAIT205 Power Electronics and Variable Frequency DrivesAIT210 Programmable Logic Controller Programming and TroubleshootingAIT215 Process Control SystemsAIT225 Industrial Motors and Motor ControlAIT270 Robotics I	CREDITS         3         4         3         3         4         3         3			
SC2 SC2 SC2 SC2 SC2	сс сс сс сс сс	COURSE AIT205 Power Electronics and Variable Frequency Drives AIT210 Programmable Logic Controller Programming and Troubleshooting AIT215 Process Control Systems AIT225 Industrial Motors and Motor Control AIT270 Robotics I Semester Credits	CREDITS         3         4         3         3         4         3         3		resources and opportunities!	

Document revised 04/10/2025

Ser	Semester 3- SPRING				
		COURSE	CREDITS	SEMESTER/GRADE	NOTES
	WC	ENG121 Applied Technical Writing (R) <u>or</u> ENG101 College Composition I	3		
	AH	Arts & Humanities course	3		
	М	MAT106 Technical Math I or higher	3-4		
	СС	AIT275 Robotics II	3		
		Semester Credits:	12-13	Apply for graduation	and attend career events!

Ser	Semester 4- FALL					
		COURSE	CREDITS	SEMESTER/GRADE	NOTES	
	OC	COM100 Fundamentals of Human Communication or higher	3			
	SB	Social & Behavioral Science course	3			
	LS	Physical & Biological Science course	4			
	СС	WLD221 Gas Tungsten Arc Welding (R) or any 3-credit WLD course	3			
		Semester Credits:	13	Finish strong-don't g	et distracted before finals!	
		Total Degree Credits:	60-61			
		Total AIT I Certificate Credits:	16			
		Total AIT II Certificate Credits:	16			
	Arizona Resident Tuition for 2025-2026 is \$75 per credit hour, see Paying for College. Financial aid may be available.					

## **Career Information**

CAC Career Center: centralaz.edu/career FREE CAC career resources and assistance.

O\*NET OnLine: Visit onetonline.org and search for:

**Occupations in Automated Industrial Technology, including:** 

- Education needed for specific occupations
- Occupation tasks, knowledge, skills and abilities
- Salary/wages for specific occupations (\$)

Transfer Information

**CAC University Transfer Center:** <u>centralaz.edu/transfer</u> FREE CAC transfer resources and assistance.

Note: Use this Program MAP as a guide to choose courses with your<br/>advisor and track progress towards milestones and completion of<br/>program. Work with an advisor to customize your plan to align with your<br/>specific career and/or transfer goals.Part-Tir<br/>the need<br/>semester

**Part-Time Students:** Plans can be modified to fit the need of part-time students by adding more semesters.

Student Name:	Advisor Name:
Student ID Number: 880	Date: