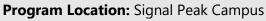
Area of Interest: Industrial Technology & Skilled Trades Degree: Automated Industrial Technology, Associate of Applied Science Stackable Certificate 1: Automated Industrial Technology I Stackable Certificate 2: Automated Industrial Technology II College Catalog: <u>2025-2026</u>



Program Description: The Associate in Applied Science (AAS) in Automated Industrial Technology prepares students to troubleshoot, maintain and repair a variety of automated electromechanical, 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.

Central

College

Contact Information: Advising: itst.advisor@centralaz.edu

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

Lege						1	
Bold Course = Required Course Recommended Course					Stack	Stackable Certificate (SC)	
Written Communication (WC) Oral Communication (OC)			Arts/H	umanities (AH)	1	Social/Behavioral Science (SB)	
Lab Science (LS) Mathematics (M)				Core Course (CC)			
Sem	este	r 1: <u>FALL START</u>					
		ents-Find your suggested starting	point for Englis	h/Reading 8	<u>& Math</u> courses	5.	
		COURSE		CREDITS	SEMESTER/GR		NOTES
SC1	CC	AIT100 Industrial Safety		1			
SC1	CC	AIT105 Maintenance Operations		3			
SC1	CC	AIT110 Mechanical Power Transm	ission Systems	3			
SC1	CC	AIT115 Hydraulic Systems		3			
SC1	CC	AIT120 Pneumatic Systems		3			
SC1	CC	AIT125 DC and AC Components a	nd Circuits	3			
		Semester Credits:		16	Meet with your CAC advisor each semester!		
Sem	este	r 2: SPRING					
Stuc	lents	MUST complete SC1 Before	enrolling in S	C2.			
		COURSE		CREDITS	SEMESTER/GR	RADE	NOTES
SC2	СС	AIT205 Power Electronics and Var Frequency Drives	iable	3			
SC2	СС	AIT210 Programmable Logic Cont Programming and Troubleshootin		3			
SC2	CC	AIT215 Process Control Systems		4			
SC2	CC	AIT225 Industrial Motors and Mo	tor Control	3			
SC2	CC	AIT270 Robotics I		3			
		Se	emester Credits	16	Research care	er resc	ources and opportunities!

Sur	Summer Only					
		COURSE	CREDITS	SEMESTER/GRADE	NOTES	
	CC	MET289 Advanced Technology Capstone	3			
Ser	Semester 3: FALL					
		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			
	CC	AIT275 Robotics II	3			
		Semester Credits:	12-13	Apply for graduation	n and attend career events!	

Ser	Semester 4: SPRING					
		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 get 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: centralaz.edu/transfer FREE CAC transfer resources and assistance.

Note: Use this Program MAP as a guide to choose courses with your advisor and track progress towards milestones and completion of program. Work with an advisor to customize your plan to align with your specific career and/or transfer goals.

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: