

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: [2025-2026](#)



Program Location: Signal Peak Campus

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.

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

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

Legend

Bold Course =Required Course		Recommended Course (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)	

Semester 1: FALL START

New Students-Find your suggested starting point for [English/Reading & Math](#) courses.

		COURSE	CREDITS	SEMESTER/GRADE	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: SPRING

Students **MUST** complete SC1 Before enrolling in SC2.

		COURSE	CREDITS	SEMESTER/GRADE	NOTES
SC2	CC	AIT205 Power Electronics and Variable Frequency Drives	3		
SC2	CC	AIT210 Programmable Logic Controller Programming and Troubleshooting	3		
SC2	CC	AIT215 Process Control Systems	4		
SC2	CC	AIT225 Industrial Motors and Motor Control	3		
SC2	CC	AIT270 Robotics I	3		
Semester Credits			16	Research career resources and opportunities!	

Summer Only					
		COURSE	CREDITS	SEMESTER/GRADE	NOTES
	CC	MET289 Advanced Technology Capstone	3		

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		
	M	MAT106 Technical Math I or higher	3-4		
	CC	AIT275 Robotics II	3		
Semester Credits:			12-13	Apply for graduation and attend career events!	

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		
	CC	WLD221 Gas Tungsten Arc Welding (R) <u>or</u> 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:	
<ul style="list-style-type: none"> • 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: