

Area of Interest: Computer Technology, Engineering and Math
Degree: Software Development, Associate of Applied Science (AAS)
Stackable Certificates: Computer Programming & Software Development
College Catalog: [2024-2025](#)



Program Location: All Campuses

Program Description: The Software Development AAS concentrates on analysis and design of algorithms through a variety of programming languages; teaching the programming skills necessary to prepare students for a career in the fast-growing software industry or to transfer to a 4-year college or university.

Contact Information: Andres Gonzalez (Faculty) andres.gonzalez@centralaz.edu

Advising: stem.advisor@centralaz.edu

Area of Interest Website: [Computer Technology, Engineering and Math - Central Arizona College \(centralaz.edu\)](#)

Legend

Bold Course=Required Course

Recommended Course **(R)**

AGEC Course list (Arizona General Education Curriculum)

Written Communication (WC)	Oral Communication (OC)	Arts/Humanities (AH)	Social/Behavioral Science (SB)
Lab Science (LS)	Mathematics (M)	Core Course (CC)	Transfer Elective (TE)

Semester 1: New Students-Find your suggested starting point for [English/Reading & Math courses](#).

		COURSE	CREDITS	SEMESTER/GRADE	NOTES
SC	CC	CIS120 Survey of Computer Information Systems	3		
	CC	CIS121 Windows Operating System Fundamentals	3		
SC	CC	CIS123 Introduction to Programming	3		
	M	BUS101 Business Mathematics or MAT118 Essential Mathematics or higher	3-4		MAT151 College Algebra is strongly recommended for Transfer Students.
	WC	ENG101 College Composition I or ENG121 Applied Technical Writing	3		
Semester Credits:			15-16	Meet with your CAC advisor each semester!	

Semester 2

		COURSE	CREDITS	SEMESTER/GRADE	NOTES
SC	CC	CIS112 Web Design Fundamentals with HTML	3		
	CC	CIS115 Customer Service & Workplace Success	3		
SC	CC	CIS178 Database Fundamentals & Programming	3		
SC	CC	CIS216 Java Programming	4		
R	SB	ECN200 Contemporary Economic Issues	3		
Semester Credits:			16	Research Career and Transfer Opportunities!	

Semester 3					
		COURSE	CREDITS	SEMESTER/GRADE	NOTES
SC	CC	CIS162 Comparative Programming Languages	3		
SC	CC	CIS213 Linux Server	3		
SC	CC	CIS231 Object Oriented Programming & Data Structures	4		
SC	CC	CIS176 Python Programming	3		
	AH	AGEC Arts & Humanities course	3		
Semester Credits:			16	Apply for graduation & attend transfer events!	

Semester 4					
		COURSE	CREDITS	SEMESTER/GRADE	NOTES
SC	CC	CIS218 C++ Programming	4		
	CC	CIS233 Web Application Development using PHP	3		
R	OC	COM259 Professional Communications	3		
	LS	AGEC Biological & Physical Sciences course	4		
Semester Credits:			14	Finish Strong-don't get distracted before finals!	
Total Degree Credits:			61-62		
Total Certificate Credits:			33		
Arizona Resident Tuition 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: Visit onetonline.org. search for Occupations in Cybersecurity Intern. Cybersecurity Analyst, Penetration Tester

- Education needed for specific occupations. Associate Degree or certificate=13%
- Occupation tasks, knowledge, skills, and abilities Problem Solving, Critical Thinking, Active Listening, Customer Service, Integrity
- Salary/wages for specific occupations (\$60,000 annually)

Transfer Information

CAC University Transfer Center: centralaz.edu/transfer FREE CAC transfer resources and assistance.

[AZTransfer Computer Information Systems Major Guide](#) has a list of transfer programs at ASU, NAU, or UA.

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: