

Area of Interest: Computer Technology, Engineering and Math

Degree: Associate of Arts (AA)

Pathway: Mathematics

Certificate: AGEC-A

College Catalog: 2024-2025



Program Location: All Campuses

Program Description: The Mathematics Pathway is designed to transfer to a university major where students can specialize in one of these areas: actuarial sciences, statistics, secondary education with math concentration, cryptology, cartography, topology, data science, and research.

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

Area of Interest Website: centralaz.edu/areasofinterest

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)

Special Awareness Requirements for transfer degrees met through courses on the AGEC Course list.

Cultural Awareness (**CU**)

Global/Historical Awareness (**GI/HI**)

Intensive Writing (**IW**)

Semester 1: New Students-Find your suggested starting point for English/Reading & Math courses.

		COURSE	CREDITS	SEMESTER/GRADE	NOTES
SC	WC	ENG101 College Composition I	3		
SC	OC	COM100 Fundamentals of Human Communication or higher	3		
SC	AH	Select an AGEC Arts & Humanities course	3		
SC	M	MAT221 Analytical Geometry & Calculus I	4		Math prerequisites may be needed. Consult with <u>Academic Advisor</u> .
	SB	EDU221 Introduction to Education*	3		
Semester Credits:			16	Meet with your CAC advisor each semester!	

Semester 2

		COURSE	CREDITS	SEMESTER/GRADE	NOTES
SC	WC	ENG102 College Composition II	3		
SC	AH	Select an AGEC Arts & Humanities course	3		
SC	SB	POS220 US & Arizona Constitution*	3		
R	TE	MAT231 Analytical Geometry & Calculus II	4		
	TE	Transfer Elective course	3		
Semester Credits:			16	Research Career and Transfer Opportunities!	

Semester 3

		COURSE	CREDITS	SEMESTER/GRADE	NOTES
SC	LS	PHY121 University Physics I: Mechanics	4		Fall only
R	TE	MAT241 Analytical Geometry & Calculus III	4		
R	TE	CIS216 Java Programming*	4		Secondary Education students select *EDU222 Intro to Special Education in place of CIS216.
	TE	Transfer Elective course	3		
Semester Credits:			15	Apply for graduation & attend transfer events!	

Semester 4

		COURSE	CREDITS	SEMESTER/GRADE	NOTES
SC	AH/ SB	Art & Humanities or Social/Behavioral Science course	3		
SC	LS	PHY122 University Physics II: Electricity & Magnetism	4		Spring only
R	TE	MAT275 Modern Differential Equations	4		
R	TE	CIS231 Object Oriented Programming & Data Structures*	4		Secondary Education students select *EDU230 Cultural Values in place of CIS231.
Semester Credits:			15	Finish Strong-don't get distracted before finals!	
Total Degree Credits:			62		

Arizona Resident Tuition is \$75 per credit hour, see [Paying for College](#). Financial aid may be available.

Transfer Information

Transfer Options List*

Data Science	Mathematics	Secondary Ed. - Mathematics	Transfer Electives
CIS216 Java Programming	CIS216 Java Programming	POS220 US & Arizona Constitution	Select courses that transfer as elective or better to one public university to complete AA degree. Consult the Course Equivalency Guide . Work with an advisor to select appropriate courses for your degree pathway.
CIS231 Object Oriented Programming & Data Structures		EDU221 Introduction to Education EDU222 Introduction to Special Education EDU230 Cultural Values in Education	

AZTransfer Mathematics Major Guide has a list of transfer programs at ASU, NAU, or UA.

Note: Some programs require a foreign language requirement (CAC offers Spanish or Sign Language)

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

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 Mathematics, including:

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

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: