Area of Interest: Computer Technology, Engineering & Math

Degree: Associate of Science (AS)

Pathway: Engineering **Certificate:** AGEC-S

College Catalog: <u>2024-2025</u>



Program Description: Engineering is the application of scientific and mathematical knowledge to design and build structures and products widely used in our everyday life. Engineers are problem solvers and seek solutions that

Central

College

contribute to the comfort and betterment of society. **Contact Information:** stem.advisor@centralaz.edu

Area of Interest Website: centralaz.edu/academics/areas-of-interest/								
Leg	gend							
Bolo	d Cours	se= Required Course		Recommended Course (R) ; see AGEC List, AZTransfer Major Guide, or an advisor for transfer options.				
AGEC Course list (Arizona General Education Curriculum)								
Written Communication (WC) Oral Communication (OC) And Communication (OC)				Arts/Humanities (AH)		Social/Behavioral Science (SB) Transfer Elective (TE)		
Lab Science (LS) Mathematics (M) Special Awareness Requirements for transfer degrees met through								
				orical Awareness (GI/HI)				
Semester 1 New Students-Find your suggested starting point for English/Reading & Math courses.								
		COURSE		CREDITS	SEMESTER/GRADE	NOTES		
	WC	ENG101 College Composition I		3				
	LS	CHM151 General Chemistry I		4		Prerequisite/Corequisite: CHM090 Preparation for College Chemistry. Consult advisor for additional options.		
	М	MAT221 Analytical Geometry and Calculus I or higher		4		Math prerequisites may be needed. Consult with <u>Academic Advisor</u> .		
R	TE	EGR102 Introduction to Engineering		3				
		Semester Credits:		14	Meet with your CAC advisor and plan your path!			
Semester 2								
		COURSE		CREDITS	SEMESTER/GRADE	NOTES		
	WC	ENG102 College Composition II		3				
	АН	Select an AGEC Arts and Humanities course		3				
	SB	Select an AGEC Social and Behavioral Science course		3				
	LS	CHM152 General Chemistry II		4				
R	TE	MAT231 Analytical Geometry and Calculus II		4				
		Semester Credits:		17	Research career and transfer opportunities!			
Ser	neste	r 3						
		COURSE		CREDITS	SEMESTER/GRADE	NOTES		
	АН	Select an AGEC Arts & H	umanities course	3				
	CC	PHY121 University Phys	sics I: Mechanics	4		Fall only		
R	TE	MAT241 Analytical Geom	netry and Calculus III	4				
	TE	Transfer Elective Options		4				
			Semester Credits:	15	Apply for graduation	and attend transfer events!		

Semester 4						
		COURSE	CREDITS	SEMESTER/GRADE	NOTES	
R	SB	ECN201 Principles of Macroeconomics	3			
	CC	PHY122 University Physics II: Electricity & Magnetism	4		Spring only	
R	TE	MAT275 Modern Differential Equations	4			
	TE	Transfer Elective Options	5			
		Semester Credits:	16	Finish strong-don't g	h strong-don't get distracted before finals!	
		Total Degree Credits:	62			
		Total Certificate Credits:	38			
	Arizona Resident Tuition for 2024-2025 is \$75 per credit hour; see <u>Paying for College</u> . Financial aid may be available.					

Transfer Information

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

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

Transfer Option Course List

Aerospace Engineering	Chemical Engineering	Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering
EGR222 Circuits I (Spring Only)	CHM235 General Organic Chemistry I	BIO181 General Biology I or GLG101 Physical Geology	EGR120 Digital Design Fundamentals (Fall Only)	EGR120 Digital Design Fundamentals (Fall Only)	EGR222 Circuits I (Spring Only)
MAT242 Elementary Linear Algebra	CHM236 General Organic Chemistry II	EGR222 Circuits I (Spring Only)	EGR222 Circuits I (Spring Only)	EGR222 Circuits I (Spring Only)	MAT242 Elementary
	MAT242 Elementary Linear Algebra	MAT242 Elementary Linear Algebra	CIS216 Java Programming	CIS216 Java Programming	
			CIS231 Object Oriented Programming/Data Structures		

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 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: