

Area of Interest: Industrial Technology & Skilled Trades

Certificate: Unmanned Aircraft Systems Pilot

College Catalog: [2024-2025](#)



Program Location: This certificate will be taught hybrid in person/online with lab sessions.

Program Description: This is a practical application of safety concepts and introduction to site specific safety considerations for small UAS operations. Students will be able to apply concepts of unmanned aviation safety to unmanned operations; conduct pre-flight risk assessments; perform checklist procedures; record and track remote pilot and maintenance requirements; create safety analysis for new locations; understand remote sensing concepts for different industry clusters; distinguish between and identify appropriate datalink configurations; manipulate unmanned aircraft safety features and utilization of features for operations. This certificate provides knowledge and experience-based application of safety concepts and introduction to site specific safety considerations for small UAS operations. Students will be able to demonstrate concepts of unmanned aviation safety to unmanned operations; conduct pre-flight risk assessments; perform initial qualification maneuvers to practical testing standards; demonstrate psycho-motor skills necessary for safe flight; demonstrate safe attitudes toward professional operations; demonstrate aeronautical decision-making skills; operate in GPS denied environment; demonstrate response to simulated emergency situations and use of safety systems.

Contact Information: Jordan Porterfield jordan.porterfield@centralaz.edu (Faculty)

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)

AGEC Course list (Arizona General Education Curriculum) and other degree requirements.

Written Communication (**WC**) Oral Communication (**OC**) Arts/Humanities (**AH**) Social/Behavioral Science (**SB**)

Lab Science (**LS**) Mathematics (**M**) Core Course (**CC**) Elective (**E**)

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
CC	UAS171 UAS Visual Line of Sight Ground	8		
Semester Credits:		8	Meet with your CAC advisor each semester!	

Semester 2

	COURSE	CREDITS	SEMESTER/GRADE	NOTES
CC	UAS172 UAS Visual Line of Sight Flight	4		
CC	MAT151 College Algebra, Standard or Higher	4		
Semester Credits		8	Research career resources and opportunities!	
Total Certificate Credits:		16		

Arizona Resident Tuition for 2024-2025 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 Diesel 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: