# UNMANNED AIRCRAFT SYSTEMS, ASSOCIATE IN APPLIED SCIENCE



Associate in Applied Science: AAS 3184 61-68 Credits Program Contact Bashir Khalil | 480-988-8112 | bashir.khalil@cqc.edu

## **Program Description**

The Associate in Applied Science (AAS) in Unmanned Aircraft Systems (UAS) program prepares students for entry level positions in the UAS industry by providing foundational knowledge and skills in UAS mission planning, applications, maintenance, laws and regulations, data analytics, and project management using UAS platforms. Program content includes an introduction to UAS flight, history, avionics, sensors, communications systems and selectable paths including data analysis and applications such as emergency responders, geographic information systems, precision agriculture, and in commercial and government sectors. Students will prepare for and conduct unmanned flights similar to those commonly performed in the industry observing Federal Aviation Administration's (FAA) regulations that govern sUAS operations. This program helps prepare students for the FAA Part 107 Certification.

### **Program Notes**

Students must earn a grade of "C" or better for all courses required within the program. Overall program minimum GPA = 2.00.

++ indicates any suffixed course may be selected.

#### **Admission Criteria**

Students wishing to enroll in the Unmanned Aircraft Systems program must complete an application process before being officially accepted into the program.

### **Program Requirements**

Program Prerequisites: None

Code Required Course	Title s	Credits	Semester
AET208	Aviation Safety	3	
FYE101	Introduction to College, Career and Personal Success	1-3	
or FYE103	Exploration of College, Career and Personal Success		
PHY111	General Physics I	4	
UAS100	sUAS Batteries and Electronics	5	

UAS101	Introduction to Unmanned Aircraft Systems Operation	3	
UAS107	Unmanned Aircraft Systems Operator Certification	3	
UAS205	sUAS Instruments and Autopilot Programming and Uses	3	
UAS206	sUAS Instrument and Autopilot Flight Lab	2	
UAS207	sUAS Dynamics and Design	5	
UAS208	sUAS Dynamics and Design Lab	2	
UAS211	sUAS Ground Control Stations, Telemetry, and Communications	3	
UAS212	sUAS Maintenance Lab	2	
UAS215	sUAS Commercial Flight Training	3	
General Educatio	n		
Core			
First-Year Compos	ition		
ENG101	First-Year Composition	3	
or ENG107 ENG102	First-Year Composition for ESL First-Year Composition	3	
or ENG108	First-Year Composition for ESL		
Oral Communicati			
Select one of the	5	3	
COM100	Introduction to Human Communication		
COM110	Interpersonal Communication		
COM225	Public Speaking		
COM230	Small Group Communication		
Critical Reading			
Select one of the	-	0-3	
CRE101	College Critical Reading and Critical Thinking		
Or equivalent a assessment	as indicated by		
Mathematics			
Select one of the following:		3-5	

See https://www.cgc.edu/CourseDescriptions for current course description information.

• •	he Humanities, Arts		
and Design area			
Social and Behavioral Sciences			
Any approved general education		3	
course(s) in the			
Behavioral Scier	ices area		
Natural Sciences			
Any approved ge	eneral education	4	
	Natural Sciences		
course(s) in the			
course(s) in the area			
		61-68	

<sup>1</sup> for which MAT187 Precalculus is a prerequisite