

# AIRWAY SCIENCE TECHNOLOGY - FLIGHT EMPHASIS, ASSOCIATE IN APPLIED SCIENCE



**APPLIED  
TECHNOLOGY**

Associate in Applied Science: AAS 3707

65-85 Credits

Program Contact

Bashir Khalil | 480-988-8112 | bashir.khalil@cgcc.edu

## Program Description

The Associate in Applied Science (AAS) in Airway Science Technology, Flight Emphasis program is designed to prepare students to apply technical knowledge and skills to the flying of commercial, corporate, or private aircraft. Program content includes private, instrument, commercial single-engine, commercial multi-engine, and flight instructor certifications. The program develops students' willingness to learn, critical thinking, organizational skills, initiative, reliability, accountability, communication, and resource management skills. During the program, students will be provided the resources and training required for Federal Aviation Administration (FAA) written and practical examinations.

## Program Notes

### Flight Policies

Flight and simulator training costs are the responsibility of the student. These include hourly costs for aircraft and flight instruction, tuition, fees, and other expenses. Once students have commenced flight training within the CGCC Airway Science, Flight Emphasis program, they will not receive college credit for flight instruction received at flight schools other than the school or schools with which Maricopa County Community College District has currently contracted for such instruction.

Students must meet FAA Aviation English Language Standards and complete Transportation Security Administration (TSA) Citizenship Verification (United States citizens) or Alien Flight School Program Application (non-United States citizens). By enrolling in this program, students agree to submit to random drug testing. Students must complete a security threat assessment for airport apron access.

### Medical Certificates

A current medical certificate is required for all students planning to begin flight training. The physical examination must be performed by a medical doctor who is a designated Aviation Medical Examiner. Students are advised to obtain their medical certificates well in advance of beginning the flight program. This will ensure that medical problems or physical limitations that may alter career plans can be addressed before entering flight courses.

There are three types of medical certificates - Class III, Class II, and Class I, but students are advised to obtain a Class I certificate if they are planning a career in professional flight.

Students using Veteran Affairs education benefits must have at least a Class II medical certificate, but Class I is recommended, before beginning 200-level flight courses.

Flight labs must be taken concurrently with the appropriate ground courses. Attendance is mandatory in the aviation ground school courses in accordance with Federal Aviation Regulation (FAA) Part 141. Failure to meet these attendance requirements will disqualify the student for FAA pilot certification.

Aviation and related courses from other colleges and universities may transfer to CGCC. All aviation courses, flight or non-flight, are reviewed by the Aviation Program Coordinator for applicability.

### Transfer of Pilot Ratings

Students who have pilot certificates or ratings from a college level program may apply for prior learning assessment. Students should complete this process before enrolling in any 200-level ground or flight courses.

In all cases, it is the responsibility of the student to initiate the process.

After three failed attempts in any flight or ground course, excluding withdrawals, students must seek division approval for re-enrollment.

Students must earn a grade of C or better for all courses required within the program. Overall program minimum GPA = 2.50.

## Admission Criteria

All students must currently possess a Valid FAA Medical Certificate

## Program Prerequisites

Students must consult with a Program Director, as the program prerequisites may be waived as requirements to the program for those students who have FAA Private Pilot Certificates and/or have course equivalents as indicated by assessment.

Code	Title	Credits	Semester
A division/program approved FAA Pilot Certificate OR		0	_____
AET107 & AET110	Private Pilot Ground School and Private Pilot Flight	5-6	_____
or AET112	Private Pilot Flight-Test Course		_____

## Program Requirements

Code	Title	Credits	Semester
<b>Required Courses</b>			
AET115	Aviation Meteorology	3	_____

AET207 & AET210 & AET217 & AET220	Attitude Instruments and Navigation and Commercial Flight Lab I and Instrument Procedures and Instrument Flight Lab	8	_____	PSY101 & SOC101 & POS140 & COM263	Introduction to Psychology and Introduction to Sociology and Comparative Government and Elements of Intercultural Communication	_____
AET208	Aviation Safety	3	_____	<b>General Education</b>		
AET213 & AET221	Aerodynamics and Performance and Commercial Flight Lab II	4	_____	<b>Core</b>		
AET203 & AET222	Basic Airplane Systems and Commercial Flight Lab III	4	_____	First-Year Composition	6	_____
AET229	Crew Resource Management	3	_____	Select two of the following:		
AET237 & AET240	Multiengine Airplane Pilot Ground School and Multiengine Airplane Pilot Flight Lab	3	_____	ENG101	First-Year Composition (Select two of the following:)	_____
AET227 & AET230	Certified Flight Instructor: Airplane, Single Engine Land Ground School and Certified Flight Instructor: Airplane, Single Engine Land Flight Lab	6	_____	or ENG107	First-Year Composition for ESL	_____
AET225	Advanced Aircraft Systems	4	_____	ENG102	First-Year Composition	_____
AET239	Commercial Flight Lab IV	1	_____	or ENG108	First-Year Composition for ESL	_____
UAS107	Unmanned Aircraft Systems Operator Certification	3	_____	<b>Oral Communication</b>		
FYE101 or FYE103	Introduction to College, Career and Personal Success  Exploration of College, Career and Personal Success	1-3	_____	Select one of the following:		
Recommended for Transfer: University of North Dakota		0-12	_____	COM100	Introduction to Human Communication	3
				COM110	Interpersonal Communication	_____
				COM225	Public Speaking	_____
				COM230	Small Group Communication	_____
				<b>Critical Reading</b>		
				Select one of the following:		
				CRE101	College Critical Reading and Critical Thinking	0-3
				Or equivalent as indicated by assessment		
				<b>Mathematics</b>		
				Select one of the following:		
				MAT120	Intermediate Algebra	3-6
				MAT121	Intermediate Algebra	_____
				MAT122	Intermediate Algebra	_____
				MAT126	Intermediate Algebra with Review	_____
				<b>Distribution</b>		
				<i>Humanities, Arts and Design</i>		
				Any approved general education course(s) from the Humanities, Arts and Design area	3	_____
				<i>Social and Behavioral Sciences</i>		

Any approved general education course(s) in the Social and Behavioral Sciences area		3	_____
<i>Natural Sciences</i>			
PHY101	Introduction to Physics	4	_____
<b>Total Credits</b>		<b>65-85</b>	_____