

# AVIATION SCIENCE, CERTIFICATE OF ACHIEVEMENT

Financial Aid Eligible

Banner Code: 1\_CT\_AVSC

Control Number: 22436

This program of study academically prepares men and women of all ages for entry into the world of commercial aviation. In addition to airline flying many positions are available worldwide for trained commercial pilots. Businesses large and small hire corporate pilots for executive transport. Government agencies, both federal and state, hire commercial pilots for law enforcement, land management, wildlife management and staff logistics. Pilots are also in demand for fire suppression, emergency medical transportation and charter.

The curriculum is designed for students with no flying experience. Courses will systematically prepare individuals academically for the certificates and ratings required to operate aircraft as a commercial pilot. In addition, flight lab courses are offered as suggested electives enabling the student to complete all aspects of their training under the auspices of the college and to accrue the flight hours necessary for licensing as a commercial pilot.

The course of study can be tailored to individual requirements. The small business owner who only needs to use an aircraft for personal transportation can end their training with the 2 and preparation for the Instrument rating. A student seeking a career as a professional pilot would progress through the curriculum to earn a Commercial Pilot Certificate of Specialization along with a Turbine Transition Skill Certificate. All training is conducted in accordance with labs are conducted in accordance with an approved FAR Part 141 syllabus.

## Program Outcomes

1. Develop the analytical and critical thinking skills necessary for completion of flight training and successful completion of federally administered written examinations for licensing as pilots.
2. Develop the analytical and critical thinking skills necessary for completion of aviation ground school academic courses giving them the background knowledge necessary to enter the air transportation industry as professionals in non-flying occupations.

## Certificate Requirements

Orange Coast College offers two types of certificate awards in career programs designed to prepare the graduate to enter a particular field of employment. At least 3 units in an advanced course from the certificate must be completed at OCC.

1. **Certificate of Achievement** - 8 units or more in a state-approved program. Certificates of Achievement are not automatically awarded. A petition must be filed in Enrollment Services or online at the beginning of the semester in which the student will be completing his or her final requirements. The petitioning periods are listed in the Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/>) section of this catalog.
2. **Certificate of Specialization** - 16 units or less in a locally approved program. Certificates of Specialization are not automatically

awarded, not printed on official academic transcripts, and there is no acknowledgment of completion given at graduation. Please contact the division for details regarding the submission of petitions as procedures for each division vary. Most division offices prefer that students complete all of the required courses and then provide a copy of the transcript while some divisions allow petitions for Certificates of Specialization before finishing.

### Minimum Grade Requirement

In order to be awarded a certificate, students are required to obtain a grade of "C" or better in all program-required courses. Grades of "CR" or "P" will be accepted whereas "CR" or "P" meets the equivalency of a "C" or better. A list of certificate programs can be found in the Programs A-Z (<https://catalog.cccd.edu/orange-coast/programs-study/>) section of this catalog. Check with a counselor to determine the requirements for completion.

Course	Title	Units
<b>Required Courses</b>		
APT A130	Private Pilot Aviation Ground School	5
APT A132	Aviation Navigation	3
APT A133	Aviation-Meteorology	3
APT A146	Advanced Aircraft & Engines	3
APT A180	Basic Air Transportation	3
Subtotal		17

## Tracks

### Track 1

Course	Title	Units
APT A134	Instrument Pilot Aviation Ground School	3
APT A138	Aerodynamics	3
APT A139	Commercial Pilot Aviation Ground School	3
Subtotal		9

### Track 2

Course	Title	Units
APT A110	Introduction to Airport Operations	3
APT A115	Introduction to Flight Operations	3
APT A145	Airline Transport Pilot Ground	3
Subtotal		9

## Electives

Course	Title	Units
Select six units of the following (courses above may not fulfill elective units):		
APT A110	Introduction to Airport Operations	
APT A115	Introduction to Flight Operations	
APT A120	Private Pilot Flight Lab	
APT A121	Instrument Pilot Flight Lab	
APT A122	Commercial Pilot Flight Lab	
APT A123	Private Pilot Advanced Flight Lab	
APT A124	Advanced Commercial Pilot Flight Lab	
APT A126	Multi-Engine Aircraft Operations Lab	
APT A140	Flight Instructor Ground School	
APT A145	Airline Transport Pilot Ground	

<b>Course</b>	<b>Title</b>	<b>Units</b>
APT A146	Advanced Aircraft & Engines	
APT A192	Human Factors and Crew Resource Management	
ACCT A101	Financial Accounting	
ACCT A102	Managerial Accounting	
ECON A170	Microeconomics	
ECON A175	Macroeconomics	
Subtotal		6

**Total Units: 32**