

AIRFRAME, ASSOCIATE IN SCIENCE DEGREE

Banner Code: 1_AS_AMAF
Financial Aid Eligible

This program provides training for the student who desires to be an Airframe Technician. The training received enables the technician to return to service an airplane, related part, and appliance after performing, supervising or inspecting its maintenance or alterations. This Certificate of Achievement can be acquired in two semesters, one intersession, and one summer school session.

This certificate would enable students to achieve employment at local aircraft manufacturing and repair facilities.

Complete the Airframe Certificate of Achievement and the Associate in Science graduation requirements as outlined in the Graduation Requirements section of the catalog.

Program Outcomes

1. Students successfully completing the Orange Coast College Aviation Maintenance Technology program will have the necessary skills and training for proficiency in taking written, oral and practical exams for AIRFRAME certification which may be required for employment.
2. Working craftsmen will be able to improve or develop additional proficiencies required for professional growth or advancement in their current employment. All qualification training and tests are prescribed and follow the guide of the Federal Aviation.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/associate-degree/>) and General Education (<https://catalog.cccd.edu/orange-coast/general-education-patterns/>).

Course	Title	Units
Required Courses		
AMT A150	General Maintenance Records - FAA	4
AMT A151	General Electricity - FAA	3
AMT A152	General Airframe & Powerplant Fuel Systems - FAA	2
AMT A153	General Materials, Processes & Welding - FAA	3
AMT A154	General Weight & Balance, Math & Physics - FAA	3
AMT A155	General Blueprint Reading & Drafting - FAA	2
AMT A160	Airframe & Powerplant Electricity - FAA	6
AMT A161	Airframe Sheet Metal & Composite Structural Repair - FAA	5.5
AMT A162	Airframe Assembly & Rigging, Pneumatics & Environmental Control Systems - FAA	3
AMT A163	Airframe Hydraulics and Landing Gear - FAA	4.5
AMT A180	Airframe and Powerplant Instrumentation FAA	2.5

Course	Title	Units
AMT A181	Airframe Communication and Navigation Systems - FAA	2
Total Units		40.5

Program approved by the Federal Aviation Administration (FAA).

Completion of the above enables the student to take the FAA Airframe written examination.

Requirement	Units
Program Major Units	40.5
AS General Education Option 1, 2, or 3	Varies
Transferable electives to satisfy unit requirement	Varies
Total Minimum Degree Units	60

Program Sequence

These sequences at Orange Coast College are general course curriculum maps for students to finish all major and general education requirements for two-year completion of degrees, and/or fulfillment of transfer requirements. The course sequence may include course prerequisites and other placement requirements. **Students are advised to meet with an Orange Coast College Counselor to review course selections and sequences to ensure that completion of this program will meet a student's transfer and career goals.**

Some courses in this program may be offered once per academic year.

Course	Title	Units
Year 1		
Semester 1		
AMT A150	General Maintenance Records - FAA	4
AMT A151	General Electricity - FAA	3
AMT A152	General Airframe & Powerplant Fuel Systems - FAA	2
AMT A153	General Materials, Processes & Welding - FAA	3
AMT A154	General Weight & Balance, Math & Physics - FAA	3
Units		15
Semester 2		
AMT A160	Airframe & Powerplant Electricity - FAA	6
AMT A161	Airframe Sheet Metal & Composite Structural Repair - FAA	5.5
AMT A162	Airframe Assembly & Rigging, Pneumatics & Environmental Control Systems - FAA	3
AMT A181	Airframe Communication and Navigation Systems - FAA	2
Units		16.5
Intersession		
AMT A180	Airframe and Powerplant Instrumentation FAA	2.5
AMT A155	General Blueprint Reading & Drafting - FAA	2
Units		4.5

Course	Title	Units
Summer		
AMT A163	Airframe Hydraulics and Landing Gear - FAA	4.5
Units		4.5
Year 2		
Semester 1		
Select one of the following or satisfy Math competency (completion of High School Algebra 2 with a "C" or better):		3-4
MATH A030 or MATH A045	Intermediate Algebra ¹ or Combined Elementary and Intermediate Algebra	
OCC AS GE AREA A1- CHOOSE ONE		3
OCC AS GE AREA C1- CHOOSE ONE		3
OCC AS GE AREA D- CHOOSE ONE		3
Units		12-13
Semester 2		
OCC AS GE AREA A2- CHOOSE ONE ²		3-4
OCC AS GE AREA B- CHOOSE ONE		3-4
OCC AS GE AREA C2- CHOOSE ONE		3
Units		9-11
Total Units		61.5-64.5

¹ Math A030 or higher OR take 3-4 degree applicable elective units if math competency was met through completion of High School Algebra 2 with a "C" or better; *100-level Math courses satisfy AS Math Requirement and OCC AS GE AREA A2

² OCC AS GE AREA A2 - Required if 100-level MATH will not be taken to meet Math competency. If MATH A100 or higher will be taken, then needs to take 3-4 degree applicable elective units