

UNMANNED AIRCRAFT SYSTEMS, CERTIFICATE OF ACHIEVEMENT

Banner Code: 1_CN_UMA

Control Number: 38209

Not Financial Aid Eligible

The program curriculum allows students to explore the entirety of unmanned aircraft systems. Courses highlight specific characteristics of different aircraft, how they are built, and the fundamentals of control and propulsion systems. Students will explore how unmanned aircraft systems integrate into the larger aviation systems, including safety policies, regulations, and automation procedures.

The program can be tailored to meet the needs of individual students without any prior unmanned aircraft systems operating experience. Upon completion of the program students will be prepared to become commercial FAA Part 107 Unmanned Aircraft Systems operators, technicians, and programmers, or photo/videographers in various industry sectors in a broad range of applications.

Program Outcome

Students will develop the analytical and critical thinking skills necessary for completion of UAS training and successful completion of federally administered knowledge examinations for remote pilot certification.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/certificates/#achievementtext>).

Course	Title	Units
Required Courses		
APT A131	Introduction to Unmanned Aircraft Systems	3
APT A160	Introduction to UAS Automation	4
ELEC A100	Electronic Problem Solving	3
FILM A228	Photogrammetry and Volumetric Image Capture	3
<i>Restricted Electives</i>		
Select six units from the following:		6
APT A151	Unmanned Aircraft Systems Lab	
APT A152	Unmanned Aircraft Systems Advanced Lab	
ELEC A111	D.C. Circuits	
ELEC A223	Embedded Control Systems	
FILM A110	Film Production 1	
PHOT A180	Introduction to Professional Photography	
Total Units		19

Program Sequence

These sequences at Orange Coast College are curriculum maps for students to finish all requirements for the certificate. There may be advisories, prerequisites, or time requirements that students need to consider before following these maps. **Students are advised to meet with an Orange Coast College Counselor for alternate sequencing.**

Course	Title	Units
Year 1		
Semester 1		
APT A131	Introduction to Unmanned Aircraft Systems	3
FILM A228	Photogrammetry and Volumetric Image Capture	3
CERT RESTRICTED ELECTIVE (See Requirements)		3
Units		9
Semester 2		
APT A160	Introduction to UAS Automation	4
ELEC A100	Electronic Problem Solving	3
CERT RESTRICTED ELECTIVE (See Requirements)		3
Units		10
Total Units		19