Aeronautical & Aviation Technology

(Airframe and Powerplant)

Program Requirements

The course requires two years of study, including summers. Fall and spring semesters are 15 units each and the summer sessions are 7.5 units each. The program is a total of 75 units. Students completing this course of study will earn college credits that are also applicable toward an associate degree with the completion of specific general education requirements.

Both morning and evening classes are available, Monday through Friday.

A typical two-year course includes:

- Summer: **AERO 120** Aircraft General I
- Fall: **AERO 240** Aircraft Powerplant I
- Spring: **AERO 241** Aircraft Powerplant II
- Summer: **AERO 121** Aircraft General II
- Fall: **AERO 230** Aircraft Airframe I
- Spring: **AERO 231** Aircraft Airframe II

ANTELOPE VALLEY COLLEGE

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ANTELOPE VALLEY COLLEGE

Aeronautical & Aviation Technology

Airframe & Powerplant

Who is the program for?

The Aeronautical & Aviation Technology (Airframe and Powerplant Technician) program is designed for individuals who want to pursue a career in aviation maintenance. This program will prepare them to become certified aviation maintenance technicians who are able to work on all U.S. certified aircraft. Completing the Aeronautical & Aviation Technology (Airframe and Powerplant) program qualifies a person to test for the FAA Mechanics License. Obtaining the A&P license allows entry into a career with respected, dedicated people who are highly motivated to ensuring the safety of aviation around the world.

What will I learn?

Students will learn how to accomplish maintenance on various aircraft. They will study airframe structures, system and engine maintenance and operation. In addition, when they complete the program they will have gained extensive knowledge of the various aspects of aircraft including structures, hydraulics, fuel and electrical systems, fire controls, engines, landing controls and more.

What careers are possible in this field?

This program prepares individuals who would like a career in the local aerospace industry. Technicians can work on aircraft ranging in size from small, single-engine general aviation planes and helicopters to large commercial jetliners.

The aviation maintenance field is projected to have a severe shortage of aviation maintenance technicians within the next 3–5 years, however, opportunities are plentiful for the next 15–20 years.

The AVC Airframe and Powerplant program is a Federal Aviation Administration approved FAR (Federal Aviation Regulations) part 147 Aircraft Maintenance School.

Program Costs

Enrollment fees for in-state students are the low California Community College Enrollment Fee, currently $46 per unit as of 2018. Additional tuition will be charged to students who qualify as nonresidents including out-of-state students and international students.*

Airframe and Powerplant students are eligible for grants, fee waivers or loans through the AVC Financial Aid office. Over 80% of AVC students qualify for fee waivers! Scholarships are also available, awarded by the local Chapter of the 99s and the Aero Club of Southern California.

Students do not need to purchase tool kits. A basic Snap-On tool kit is provided by the college for the student's use.

**As of 2018, the tuition for out-of-state is $258 per semester unit, payable at the time of registration. Nonresidents are also required to pay the $46 enrollment fee and a Capital Outlay fee of $20 per unit for a total of $324 per semester unit. The tuition rate is recalculated each year based on cost per student and is therefore subject to change. Additional information regarding residency requirements may be obtained from the Admissions and Records office.*