

# FLIGHT OPERATIONS CERTIFICATE OF ACHIEVEMENT

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This certificate program in Flight Operations is designed for students interested in careers as a pilot in general aviation, commercial aviation, or military aviation. This certificate prepares students for employment or transfer to other colleges, and includes Federal Aviation Administration approved curricula in basic ground school, advanced ground school, and instrument ground school. Through the San Bernardino Valley College Flying Club students have the opportunity to gain flight experience at a nominal cost as they prepare for the private pilot, commercial pilot, or instrument pilot ratings.

Code	Title	Units
<b>Required Courses</b>		
AERO 021	Aviation Fundamentals	3
AERO 022	Private Pilot Ground School <sup>1</sup>	6
AERO 024	Aircraft Powerplants	3
AERO 025	Flight Safety	2
AERO 026	Airframe Structures	3
AERO 040	Instrument Ground School	4
AERO 046	Aviation Weather	3
<b>Total Units</b>		<b>24</b>

<sup>1</sup> AERO 022 may be waived if students have taken an equivalent course; students are encouraged to see the Department Chair to determine whether course is equivalent to AERO 022.

*Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.*

***This is a Gainful Employment Program***

## Program Learning Outcomes

At the completion of this program, students will be able to:

- Relate the basic principles of aircraft flight, airport layout, airplane construction, and types of airspace
- Relate the major aircraft structural components, and the aircraft systems and components and their relevance to aircraft operation
- Discuss the factors involved in aircraft flight safety
- Compare the different types of aircraft powerplants and discuss the advantages and disadvantages of each
- Decipher the different types of weather reports and forecast and determine if aircraft flight is safe
- Explain the basic principles of aircraft flight
- Outline how the different types of weather affect aircraft flight safety