

# FLIGHT OPERATIONS CERTIFICATE OF COMPLETION

This noncredit 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. 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.

Code	Title	Units
<b>Required Courses</b>		
AERO 621	Aviation Fundamentals	0
AERO 622	Private Pilot Ground School	0
AERO 624	Aircraft Powerplants	0
AERO 625	Flight Safety	0
AERO 626	Airframe Structures	0
AERO 640	Instrumental Ground School	0
AERO 646	Aviation Weather	0
<b>Total Hours</b>		<b>416-468</b>

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## 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