

SUMMER SPRINGBOARD
Look Inward. Go Upward.

# Aerospace Engineering Infosheet

**New student admissions for Summer 2027 are open**

## 2-Week Course

This is a two-week program where you'll focus on one course for the entire duration.

## Program Highlights

- Learn the fundamentals of flight mechanics, aerodynamics, propulsion systems, aircraft design, and more.
- Understand the key differences between aeronautical and astronautical engineering and use basic orbital mechanics.
- Engage with professionals in the field about the latest advancements in aerospace engineering and flight technology.

## 2027 Dates

UCLA:

- Session 1: June 21 - July 2
- Session 2: July 05 - July 17*
- Session 3: July 18 - July 30

University of Washington:

- Session 1: July 25 - August 6

*Sessions starting July 5th will start on Monday, not Sunday (due to the holiday). During the first week, classes meet Tuesday through Friday, followed by Monday through Friday in week two.

## Academic Program Overview

With companies like Boeing, SpaceX, Relativity Space, The Aerospace Corporation, Northrop Grumman, and NASA's Jet Propulsion Laboratory in both Los Angeles and Seattle, there's no better place to dive into the field of Aerospace Engineering than with Summer Springboard this summer. Have you ever wondered how a rocket works or how an aircraft stays airborne? What does it take to launch a person or satellite into space? Our Aerospace Engineering program offers students the opportunity to explore the physics and dynamics of air and spacecraft through basic orbital mechanics.

Students will engage in hands-on design challenges, ultimately creating and launching their own glider or rocket. They will also have the chance to visit aerospace companies and organizations in both Los Angeles and Seattle, as well as hear from experienced professionals in the field. In the past, students have benefited from guest speakers affiliated with the American Institute of Aeronautics and Astronautics, The Aerospace Corporation, and more.

While previous foundational knowledge in certain subjects is recommended (R) or strongly recommended (SR), it is not required: algebra (SR), geometry (R), trigonometry (R), calculus (SR), and physics (SR).

## Excursions

Students will have the chance to visit companies, labs, or organizations in the aerospace engineering industry, as well as hear from experienced professionals in the field. In 2026, students at UCLA were able to visit the NASA Jet Propulsion Laboratory and The Aerospace Corporation. In 2026, students at UW visited and toured four aerospace labs on UW's campus and went to the Museum of Flight.

Note for UCLA students: Excursions to local aerospace companies will require proof of U.S. Citizenship or permanent residency due to contracts those companies hold with the federal government.

# Instructors

### UCLA - Dr. Vincent Phong (2026)

Dr. Vincent Phong had received his B.S., M.S. and Ph.D. in mechanical and aerospace engineering from the University of California, Irvine, where his research area focused on methods of identifying and reducing noise from propulsion systems. He currently is a propulsion engineer at the Aerospace Corporation, where he conducts applied experimental research to help investigate and mitigate propulsion system technology risk.

### UCLA - Dr. Andres Garcia Jimenez (2026)

Dr. Andres Garcia Jimenez is a researcher in the Propulsion Science Department at The Aerospace Corporation, where he serves as a principal investigator (PI) and leads research on oxygen compatibility and ignition risks of materials used in rocket propulsion systems.

### University of Washington - To Be Announced

Courses are taught by accomplished and passionate faculty recruited from many area colleges, universities and professional forums. Each faculty member is selected for their subject area expertise and proven ability to both challenge and captivate students.

## Course Structure

There are nine 3-hour class sessions over the two-week course. During week one, students have class from 9am-12pm Monday - Friday. During week two, students have class from 9am-12pm Monday through Thursday. Afternoons in both weeks are dedicated to students' preferred College Readiness Workshops (CRW), True You, and Academics in Action, with Academics in Action including academic excursions, guest speakers, and course-related activities, such as an instructor-led project or student-led, independent study.

# Tuition Information:

**Apply by November 30 to lock in the lowest prices of the year. Tuition increases on December 1**

### Residential Students:

- **Includes:** all meals, lodging, excursions, academic course, weekend excursions
- **Excludes**: optional airport pickup and drop off service (available for an additional fee)
- **Price**: UCLA: $6,298; University of Washington: $5,798

### Commuter Students:

- **Includes:** lunch, academic course, excursions, programming from 9am to 5pm, Monday-Friday
- **Excludes:** lodging, breakfast, dinner, weekend excursions
  - Weekend excursions can be added on for $125 per day
- **Price**: UCLA: $3,298; University of Washington**:** $2,998

### Supplements:

- **Application Fee**: Starting at $99 (mandatory, non-refundable)
- **Course Supplement:** $250 tuition (mandatory)
- **Tuition Protection Plan**: Allows for cancellation for any reason up until the day of the program. Click here for more info.

## Typical Schedule

| | |
|---|---|
| 8AM | Breakfast |
| 9AM | Academic Course / Commuter Student Arrival |
| 12PM | Lunch |
| 1:30PM | Academics in Action or Recreational Activity |
| 3:30PM | CRWs, True You, or Academics in Action |
| 5-5:15PM | Commuter Student Departure |
| 6PM | Dinner |
| 7PM | Clubs |
| 10:30PM | Night Checks |

Schedule above is a sampler; real schedules may vary based on program and academic track.

More info on Airport Transfer

More info on Unaccompanied Minor Service

Apply Now!

**Important Note for UCLA Program:**

Applications for the Aerospace Engineering course close early and will not be accepted after May 1, 2027.

Summer Springboard programs are not run by our campus partners (with the exception of Cal Poly, University of Washington Foster School of Business, and NYSID which are run in partnership with SSB). Universities and their affiliated departments and partners do not control and are not responsible or liable in any manner for any part of the Summer Springboard program.