



**SUMMER
SPRINGBOARD**
Look Inward. Go Upward.

Aerospace Engineering Infosheet

New student admissions for
Summer 2024 are open.



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.



2024 Dates

UCLA (\$5,998)

- Session 1: June 23 - July 05
- Session 2: July 07 - July 19

University of Washington (\$5,498)

- Session 1: July 21 - August 02



Academic Program Overview

With companies like Boeing, SpaceX, Relativity Space, The Aerospace Corporation, Northrop Grumman, and NASA's Jet Propulsion Laboratory - to name a few - located nearby, there's no better place to launch into the field of Aerospace Engineering than with Summer Springboard in Los Angeles this summer. Ever wonder how a rocket works or how an aircraft stays airborne? What is actually needed to launch a person or satellite into space? Our Aerospace Engineering program on the campus of UCLA offers students the chance to understand the physics and dynamics of air and spacecraft using basic orbital mechanics. Students will participate in hands-on design challenges, ultimately designing and launching their own glider or rocket. Students will have the chance to visit companies or organizations in the aerospace engineering industry, as well as hear from experienced professionals in the field. In the past, students have heard from guest speakers affiliated with the American Institute of Aeronautics and Astronautics, The Aerospace Corporation, and more. Note: Excursions to local aerospace companies will require proof of U.S. Citizenship due to contracts those companies hold with the federal government. Previous foundational knowledge in the following classes is either recommended (R) or strongly recommended (SR), but not required: algebra (SR), geometry (R), trigonometry (R), calculus (SR), and physics (SR).



Excursions

Students will have the chance to visit companies or organizations in the aerospace engineering industry, as well as hear from experienced professionals in the field. In the past, students have heard from guest speakers affiliated with the American Institute of Aeronautics and Astronautics, The Aerospace Corporation, and more. Note: Excursions to local aerospace companies will require proof of U.S. Citizenship due to contracts those companies hold with the federal government.

Instructors

UCLA - Dr. Fabio Bendana

Dr. Fabio Bendana is a research scientist within the Propulsion Science department at The Aerospace Corporation. In addition to his role at Aerospace, Dr. Bendana is an instructor in the Mechanical and Aerospace Engineering department at UCLA, where he teaches an undergraduate- and graduate-level course on Rocket Propulsion Systems. Dr. Bendana received his Ph.D. in Mechanical Engineering from UCLA working on novel laser-based sensing technologies for advanced reacting flows. Additionally, he holds an M.S. in Mechanical Engineering from UCLA and a B.S. in both Aerospace Engineering and Mechanical Engineering from UCI.

Washington - TBA

Tuition Information:

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: See prices under 2024 dates

Commuter Students:

- Includes: lunch, academic course, excursions, programming from 9am to 6pm, Monday-Friday
- Excludes: lodging, breakfast, dinner, weekend excursions
 - Weekend excursions can be added on for \$125 per day
- Price: \$3,198

Supplements:

- Application fee: \$99 (mandatory, non-refundable)
- Tuition Protection Plan: Allows for cancellation for any reason up until the day of the program. Click [here](#) for more info.



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. Wednesday afternoons of each week are dedicated to students' course-specific academic excursion, guest speaker, or activity.



Typical Schedule



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[More info on Unaccompanied Minor Service](#)

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Summer Springboard programs are not run by our campus partners (with the exception of Cal Poly which is 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.

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