



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

# Fundamentals of Engineering Infosheet

**New student admissions for  
Summer 2025 are open.**



## Program Highlights

- Develop 3D solutions to design challenges to learn the fundamentals behind mechanical, civil, and biomedical engineering.
- At Berkeley, manufacture an artificial limb to replicate natural function and movement in real world situations.
- Design and build a scale model structure compliant with code, zoning, and budget requirements.
- Learn from professionals in the field about the latest advancements in engineering and technology.
- At UCSD, students will do a robotics project such as designing and building an obstacle-avoiding robot car.



## Academic Program Overview

Engineering is one of the top desired careers in many companies. These businesses are always in need of creative minds that can problem solve on their feet and help the company save money, solve issues, and expand their reach. If you are considering a career in Engineering, this course will help you explore what it takes to be an engineer. We will explore facets of mechanical, structural, civil, and electrical engineering in a hands-on, minds-on approach.



## Excursions

In the past, students in Berkeley have visited Circuit Launch, an innovative shared electronic and prototype lab and additive manufacturing facility, the Tesla Fremont Factory, NASA Ames Visitor Center, and the Intel headquarters. In San Diego, students visited the UCSD Structural Engineering Powell Laboratory, and the San Diego Airport Terminal 1 construction redevelopment site.



## 2025 Dates

### Berkeley (\$5,998)

- Session 2: June 22 - July 4
- Session 4: July 6 - July 18
- Session 6: July 20 - August 1

### UC San Diego (\$5,698)

- Session 1: June 29 - July 11
- Session 2: July 13 - July 25
- Session 3: July 27 - August 8

## Instructors

### Berkeley - TBA

Dr. Farhad Rostamian is currently a professor at UCLA teaching courses at both Anderson School of Management and Samueli School of Engineering. Prior to this academic position, he spent over 25 years making highly innovative and iconic products such as the pill camera (with Given Imaging), the camera for Apple's 1st iPhone (working directly with Steve Jobs), and sensors for disposable insulin pumps (with Medtronic). He has worked in Asia, Europe and the Americas. He holds five US and international patents. His passion lies, though, in education and mentorship. Click [here](#) to learn more!

### UC San Diego - Andrea Frank

Andrea (Andi) Frank is a Computer Science and Engineering PhD candidate studying robotics at UC San Diego's Contextual Robotics Institute. Andi has worked on a range of projects throughout her PhD, from how robots can learn to improvise tools out of household objects to how deep learning can improve human-robot teamwork in hospitals.

## 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 2025 dates

### 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:** \$3,298

[Apply Now!](#)

[More info on Airport Transfer](#)

[More info on Unaccompanied Minor Service](#)

2025\_V8



## 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 are dedicated to additional academic time (excursions, speakers).



## Typical Schedule



## Supplements:

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

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.