SUMMER SPRINGBOARD
Look Inward. Go Upward.

Fundamentals of Engineering Infosheet

New student admissions for summer 2026 are open

1-Week Course

This course is one week long, and you can extend your experience to as many as six weeks by adding additional one-week courses.

Program Highlights

- Develop 3D solutions to design challenges while learning the fundamentals of mechanical, civil and biomedical engineering
- Design and build a scale model structure that meets code, zoning and budget constraints
- Learn from professionals about the latest advancements in engineering and technology

2026 Dates

Yale

- Session 1: June 14 - June 20
- Session 3: June 28 - July 4
- Session 5: July 12 - July 18

Academic Program Overview

Engineering is one of the most in-demand career paths across industries. Companies are always looking for creative problem solvers who can innovate, cut costs and help drive growth.

If you're curious about what it takes to become an engineer, this course offers a hands-on, minds-on introduction. You'll explore key areas of the field, including mechanical, structural, civil and electrical engineering.

Excursions

In past years, students at Yale have toured the Yale Center for Engineering Innovation & Design to explore maker spaces and prototyping labs, visited the Peabody Museum's hands-on Engineering Lab to see how engineering principles solve real-world challenges, and observed faculty and graduate students working on innovative projects in Yale's research laboratories.

They have also visited the Connecticut Science Center in Hartford, which features more than 150 interactive STEM exhibits and engineering design challenges.

Instructors:

Aislinn Whalen - Session 1

Aislinn Whalen is a Ph.D. candidate in Chemical and Environmental Engineering at Yale University and an NSF Graduate Research Fellow — one of the most prestigious honors in American science. Her research focuses on nanomaterials synthesis and cutting-edge catalyst design, and she has presented her work at national conferences including the American Chemical Society and AIChE Annual Meeting.
Aislinn has served as a Yale Teaching Fellow and has mentored five Yale undergraduates through hands-on research projects, making her a natural and experienced guide for students stepping into the world of engineering for the first time.

Lauren Mazurowski - Sessions 3 & 5

Lauren is a 5th-year PhD Candidate and NSF Graduate Research Fellow at Yale, where her research focuses on sustainable engineering solutions for metal recovery and environmental challenges. She has interned at Apple applying green chemistry principles and was awarded a prestigious Fulbright Scholarship. She holds a B.S. in Environmental Engineering and M.S. in Civil and Environmental Engineering, with industry experience in environmental consulting and municipal design. As a passionate educator, Lauren placed 1st nationally at the NSF Engineering Research Center Perfect Pitch Competition and serves as a K-12 educator at the Yale Peabody Museum and judge for the Connecticut State Science Fair.

Tuition Information:

Residential Students:

- **Includes:** all meals, lodging, excursions, academic course and weekend excursions
- **Excludes**: optional airport pickup and drop off service (available for an additional fee)
- **Price**: $4,298 first week, $3,298 for each additional week

Commuter Students:

- **Includes:** lunch, academic course, excursions, programming from 9am to 5pm, Monday-Friday
- **Excludes:** lodging, breakfast, dinner and weekend excursions
  - Weekend excursions can be added on for $125 per day
- **Price:** $2,498 first week, $1,998 for each additional week

Supplements:

- **Application fee**: Starting at $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 five 4-hour class sessions over the one-week course. Students have class from 9am-1pm, Monday-Friday. Afternoons are dedicated to students' course-specific academic excursion, guest speaker or activity.

Typical Schedule

8AM	Breakfast
9AM	Academic Course / Commuter Student Arrival
11AM	15-Minute Break
11:15AM	Academic Course
1:15PM	Lunch/Free-Time
3PM	Academic Excursion/Lab
5PM	Commuter Students Depart
6PM	Dinner
7PM	Evening Activity
8:30PM	Free-Time
9:30PM	Back in Dorms

More info on Airport Transfer

More info on Unaccompanied Minor Service

Apply Now!

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2-Week Course

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

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.

2026 Dates

Berkeley ($5,998)

- Session 1: June 14 - June 26
- Session 3: June 28 - July 10
- Session 5: July 12 - July 24

UC San Diego ($5,998)

- Session 1: June 28 - July 10
- Session 2: July 12 - July 24
- Session 3: July 26 - August 7

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, the San Diego Airport Terminal 1 construction redevelopment site, and Sherline Products.

Instructors

Berkeley - Dr. Farhad Rostamian

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.

UC San Diego - Santosh KC

Dr. Santosh KC is an Assistant Professor of Mechanical Engineering at San Diego State University (SDSU). His research focuses on Materials Engineering and Materials Physics, with an emphasis on quantum mechanical computations.

UC San Diego - Denis Núñez (Sessions 2 & 3)

Denis Núñez is a Computer Science Professor at Southwestern College and a Computer Engineering Lecturer at San Diego State University. He holds a Bachelor of Science Summa Cum Laude in Electrical Engineering and a Master of Science in Systems Engineering. He is also the founder of Programming Journeys, a STEM education company that offers robotics and artificial intelligence courses for young learners, helping prepare the next generation of engineers and innovators.

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 2026 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

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.

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

8AM	Breakfast
9AM	Academic Course / Commuter Student Arrival
12PM	Lunch
1:30PM	Academic Excursions or Recreational Activity
3:30PM	College Readiness Workshop or True You
5PM-6:30PM	Commuter Student Departure
6PM	Dinner
7PM	Clubs
10:30PM	Night Checks

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