SUMMER SPRINGBOARD
Look Inward. Go Upward.

Middle School Fundamentals of Engineering Infosheet

Residential & Commuter Students

New student admissions for Summer 2026 are open.

Program Highlights

- Discover how engineers use creativity and science to solve real-world challenges.
- Dive into hands-on projects as you design and build models based on engineering principles.
- Learn how to plan, build, test and redesign your ideas while developing teamwork, creativity and problem-solving skills.
- Explore engineering fields like civil, mechanical and electrical through engaging activities and challenges.

2026 Dates

Berkeley ($2,998)

- Session 1: July 5 - July 10
- Session 2: July 12 - July 17
- Session 3: July 19 - July 24
- Session 4: July 26 - July 31

Middle School Course

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

Academic Program Overview

This course is a hands-on introduction to the exciting world of engineering and design. In this weeklong program, middle school students explore how engineers use creativity, science and innovation to solve real-world problems. Through a series of themed projects, students learn to think like engineers, using the design process to plan, build, test and redesign their creations. Each day focuses on a new branch of engineering, so students gain a broad understanding of how energy, motion and structure work together in our modern world.

Students will transform everyday materials into prototypes while building teamwork, problem-solving and creative thinking skills. By the end of the program, students will have gained a strong foundation in engineering principles and the confidence to see themselves as inventors, builders and changemakers.

Excursions

Students will engage with engineering researchers and professionals as part of their academic excursions, where guest speakers will share insight and encourage career exploration. They'll gain hands-on experience through visits to local tech companies, putting ideas into action. Outside of course-specific studies, students will explore everything the Bay Area and nearby Silicon Valley have to offer. With rich history, breathtaking sights, parks and famed landmarks at our fingertips, there's something for everyone to discover!

Instructors

Berkeley - Roya Nasimi

Dr. Roya Nasimi is an Assistant Professor of Civil Engineering at California State University, East Bay, where she joined in Fall 2023 as the program's first appointed civil engineering faculty member and helps lead core curriculum development. She directs the Dynamics and Smart Structures Lab (DSSL) and supports interdisciplinary programs. She earned her Ph.D. with distinction from the University of New Mexico and previously served as a postdoctoral researcher at the University of Nebraska–Lincoln on a U.S. Department of Defense–funded project that received the NATO Innovation Challenge Award in 2022.

Tuition Information:

Residential Students:

- **Includes:** all meals, lodging, excursions, Academic Course, and evening activities
- **Excludes**: optional airport pickup and drop off service (available for an additional fee)
- **Price**: See 2026 pricing by campus above

Commuter Students:

- **Includes:** lunch, academic course, excursions, programming from 9am to 5pm on Monday-Thursday and 9am to 2:30pm on Friday
- **Excludes:** lodging, breakfast, dinner, and evening activities
- **Price**: $1,598

Supplements:

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

More info on Airport Transfer

More info on Unaccompanied Minor Service

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Course Structure

There are five 3-hour class sessions over the one-week course. During the week, students have class from 9am-12pm, Monday - Friday (program check-out is 2:30 p.m. on Friday). Wednesday afternoon will be dedicated to additional academic time with possible excursions and/or guest speakers.

The Middle School programs operate separately from Summer Springboard high school programs with separate staff, accommodations, classes, and a more structured environment. For students completing grades 6-8.

Typical Schedule

8AM	Breakfast
9AM	Academic Course / Commuter Student Arrival
12PM	Lunch
1:30PM	Academic Excursions or Recreational Activity
3:30PM	Academic Skills Lab
5PM	Free-Time
5-6PM	Commuter Students Depart
6PM	Dinner
7PM	Evening Activity
8:30PM	Back in the Dorm
9:30PM	Mentor Check-In

summerspringboard.com (858) 780-5660 info@summerspringboard.com

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Commuter Only Students

Middle School Course

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

Program Highlights

- Discover how engineers use creativity and science to solve real-world challenges
- Design and build hands-on models that apply core engineering principles
- Plan, test and improve your ideas while building teamwork, creativity and problem-solving skills
- Explore civil, mechanical and electrical engineering through interactive activities and challenges

2026 Dates

NYU

- Session 1: June 22 - June 26
- Session 2: June 29 - July 3
- Session 3: July 6 - July 10
- Session 4: July 13 - July 17
- Session 5: July 21 - July 24

Academic Program Overview

This commuter-only program is a hands-on introduction to the exciting world of engineering and design. Over the course of one week, middle school students explore how engineers use creativity, science and innovation to solve real-world problems. Through themed projects, they learn to think like engineers by using the design process to plan, build, test and improve their creations. Each day focuses on a different branch of engineering, giving students a broad understanding of how energy, motion and structure shape the modern world.

Students transform everyday materials into working prototypes while building skills in teamwork, problem-solving and creative thinking. By the end of the program, they'll have a strong foundation in engineering principles and the confidence to see themselves as inventors, builders and changemakers.

Excursions

As part of their academic excursions, students will connect with leading engineers and researchers who share real-world insights and inspire career exploration. They'll apply what they've learned during visits to cutting-edge tech companies, where they'll see engineering in action across a range of industries. Beyond the classroom, students will dive into the energy of New York City. From historic landmarks and scenic parks to museums and cultural hotspots, the city offers endless opportunities to explore. It's the perfect backdrop for students to expand their engineering knowledge and discover what's possible.

Instructors

NYU - TBA

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.

Tuition Information:

Commuter Students:

- **Includes:** lunch, academic course, excursions and programming from 8:30 am to 5:00 pm on Monday and 9:00 am to 5:00 pm on Tuesday to Friday

- **Excludes:** lodging, breakfast, dinner and evening activities
- **Price**:
  - $1798

Supplements:

- Application fee: Starting at $99 (mandatory, non-refundable)
- $250 course supplement (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 five 3-hour class sessions over the one-week course. During the week, students have class from 8:30am - 12pm, Monday and 9am-12pm, Tuesday - Friday (program check-out is 5:00 p.m. on Friday). Wednesday afternoon will be dedicated to additional academic time with possible excursions and/or guest speakers.

The Middle School programs operate separately from Summer Springboard high school programs with separate staff, accommodations, classes, and a more structured environment. For students completing grades 6-8.

Typical Schedule

9AM	Academic Course / Student Arrival
12PM	Lunch
1:30PM	Academic Excursion
3:30PM	Academic Skill Lab
5PM	Students Depart

Please note: NYU Middle School sessions begin on the Monday of each session at 8:30 AM.

More info on Airport Transfer

More info on Unaccompanied Minor Service

Apply Now!