

SUMMER SPRINGBOARD
Look Inward. Go Upward.

Biomedical 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

- Gain a general understanding of the application of principles and problem-solving techniques
- Discover the variety of implantable medical devices, such as pacemakers and artificial hips, to more futuristic technologies such as stem cell engineering and the 3-D printing of biological organs
- Design and build a basic bio-medical prototype (i.e. prosthetic hand) while learning to analyze, design, and problem-solving
- Learn about current research in the bio-medical field and various career opportunities

2027 Dates

Georgia Tech:
- Session 1: June 13 - June 25

Duke:
- Session 1: June 27 - July 9
- Session 2: July 11 - July 23

UC San Diego:
- Session 1: June 20- July 2

Academic Program Overview

Do you love engineering, computers and also life sciences? Are you interested in designing devices to diagnose and treat diseases? The Summer Springboard Biomedical Engineering course exposes students to the basics of a career in one of the hottest engineering fields today. Students learn how multiple engineering fields, mathematics, chemistry and computer science are all intertwined to improve human health and how biomedical engineers use and apply modern biological principles in their engineering design process.

Excursions

Past excursions have included visits to Abbott and the Emory University Hospital Biomedical Engineering Clinical Lab. At Abbott, students toured the facilities and participated in a demonstration of CardioMEMS, an implantable pulmonary artery pressure monitoring platform. They also learned about Abbott's Mentis system simulator, which illustrates the implantation process of a CardioMEMS device. At the Emory University Hospital Biomedical Engineering Clinical Lab, students were captivated by the impact of technology on individuals who have experienced traumatic events, such as brain aneurysms. These excursions allowed students to think critically about their biomedical engineering coursework.

Instructors

Duke University & UC San Diego - 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.

Georgia Tech - Dr. Tara Urner

Dr. Tara Urner is a postdoctoral researcher in the Wallace H. Coulter Department of Biomedical Engineering at Emory University and Georgia Tech, where she develops low-cost, wearable optical sensors for monitoring brain health in children with sickle cell disease. These sensors make it possible to monitor brain blood flow frequently and safely at the bedside, in a way that is not currently feasible with traditional brain imaging, and could open new doors for protecting the brain health of children with sickle cell disease.

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**: Duke & Georgia Tech: $5,798; UCSD: $5,998

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
- **Prices:**
  - Duke: $2,998
  - Georgia Tech & UCSD: $3,298

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.

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.

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.

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!

2027_V2