

SUMMER SPRINGBOARD
Look Inward. Go Upward.

Biotechnology 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

- Work alongside scientists discovering treatments for various diseases.
- Start with molecule design and compound creation, and follow the process to the point of in vitro biological activity.
- Take part in a trypsin purification program as well as grow a protein in e-coli
- Learn how to harvest and isolate a protein, and see how it reacts to various compounds in an advanced research laboratory.
- Create a molecule, and test its biological results practicing the scientific method from hypothesis to conclusion

2027 Dates

MIT Campus

- Session 2: July 5 - July 17*
- Session 3: July 18 - July 30

*Sessions starting July 5th will start on Monday, not Sunday (due to the holiday). During the first week, classes meet Tuesday through Friday, followed by Monday through Friday in week two.

Academic Program Overview

As part of the overall Summer Springboard experience on the campus of MIT, this course takes place at LabCentral in Kendall Square. Are you interested in medicine, science, and technology? Is your goal to create a life-saving drug? This is a unique opportunity for high school students to gain real exposure and hands-on experience in a biotechnology lab using state-of-the-art equipment. The goal of this program is to provide students with intensive laboratory experience and a solid understanding of fundamental chemical processes common in prokaryotic and eukaryotic biology, as well as classical and molecular genetics, with an emphasis on gene expression and genetic engineering. The biotechnology industry draws from a variety of specialties, including microbiology, genetics, biochemistry, and information technology, all of which have a significant impact. In addition to lab work, students will have the opportunity to visit biotech incubators and hear from industry professionals.

Academics in Action

Explore biotechnology through afternoon activities, guest speakers, and time in the lab at LabCentral. Through instructor-led activities and independent study, students will connect classroom concepts to real-world practices and explore careers in the field.

Instructor - LabCentral

Summer Springboard is partnering with LabCentral, the premier biotech incubator in Kendall Square, Cambridge, to deliver the Biotechnology course. Students work with professionals in the field and learn in a lab for class every day. The daily lab experience will give students the opportunity to be surrounded by scientists, startups, and discoveries defining the future of medicine. The course is designed by professionals with deep roots in healthcare, life sciences, and education, and every activity connects classroom learning to the current field work.

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**: $6,798

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)
- **Biotechnology 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.

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!

Summer Springboard programs are not run by our campus locations. Universities and their affiliated departments are not responsible for the Summer Springboard program in any way. This program is not sponsored by MIT.

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