



educationunlimited®

Science Camps Co-ed

Science camps for rising 6th - 10th graders



**SAVE
\$100**

Register at least 21 days before the start of any EU program* and save \$100. Use code EARLY100. *Not valid on Camp Brainy Bunch.

Offered by Education Unlimited at

Stanford University | UC Berkeley

Massachusetts Institute of Technology | UCLA | Tufts University

Welcome

Science Camps Co-ed

Modeled after our long running Science Camp for Girls, the Science Camps Co-ed offer an opportunity for both male and female students to develop a love and appreciation for the sciences. Class sizes are kept small with average student teacher ratios of 1:10. Our curriculums aim to infuse summer fun with scientific exploration in a warm and supportive atmosphere that challenges students to think critically about the world in which they live. Through hands on experiments and daily labs, students will learn to ask the questions that matter. Lead by our strong science faculty, they will learn the process of scientific exploration.

A Science Camps Co-ed graduate will have:

- Participated in an in-depth variety of hands-on science learning and activities
- Gained confidence and experience in applying design thinking and research
- Learned from experienced and inspiring instructors
- Experienced a taste of college life
- Made lots of new friends from around the country or even globe!

sample schedule

7:30am	Overnight campers – wake up!
8:00am	Breakfast in the dining hall (overnight campers only)
8:30 – 9:00am	Day camper & extended day camper check-in
9:00am	“Major” lab session
	<i>Options vary by camp session and include: Engineering, Marine Science, Astronomy and Robotics</i>
12:00pm	Lunch in the dining hall (included for overnight and extended day campers; day campers can purchase an optional lunch package or bring a lunch)
1:00pm	Afternoon recreation / personal time
2:00pm	Science “minors” plus workshops
	<i>Afternoon workshops give campers an opportunity for informal science learning, as well as leadership and problem-solving training. Past minors included Forensic Science and Chemistry</i>
5:00pm	Day camper check-out
	<i>Dinner in the dining hall (overnight and extended day campers only)</i>
6:30pm	Evening recreation and activities
8:00 – 9:00pm	Extended day camper check-out
9:00pm	Floor check (overnight campers get ready for bed)
10:00pm	Room check & lights out!



Course Descriptions

Class overview



Before camp, each student will choose a science major that includes related labs and activities during their morning classroom sessions. Majors vary by location and length of the program.

Astronomy 6th - 8th

LOCATIONS STANFORD | UC BERKELEY | UCLA

DURATION 6 DAYS | 5 NIGHTS (OVERNIGHT)

5 DAYS (DAY CAMP)

In Astronomy, students will explore our solar system and the universe beyond! We'll start out by revisiting and simulating the Big Bang theory, then study the surface of the sun, explore light diffraction, and build our own water rockets. Campers will also have the opportunity to retrace Galileo's footsteps and explore the universe as he did – through the lens of a simple, refracting telescope that's easy enough to assemble in camp, yet powerful enough to see the Jovian moons and Saturn.

Astrophysics 9th - 10th

LOCATIONS STANFORD | MIT | TUFTS

DURATION 6 DAYS | 5 NIGHTS (OVERNIGHT)

5 DAYS (DAY CAMP)

Students will explore advanced topics in cosmology such as supermassive black holes, the spacetime fabric and mapping the large-scale structure of the cosmos, culminating with Einstein's Theory of Relativity. The curriculum will be supported by computational simulations of dark matter and galactic formation, physical demonstration, student-led discussions and thought experiments. Observational astronomy will be interlaced into the course using solar and night sky observational telescopes. Their final research projects will be incorporate real data from working telescopes and research laboratories.

Neuroanatomy 9th - 10th

LOCATIONS MIT | STANFORD | TUFTS | UCLA

DURATION 6 DAYS | 5 NIGHTS (OVERNIGHT)

5 DAYS (DAY CAMP)

Students will learn the anatomy and physiology of various systems in the brain, including the cerebral cortex, various sub-cortical structures, visual system, somatosensory system, and motor system in the brain and spinal cord, and apply what they know to fictitious neurological patients. The culminating event on Friday will be a case-studies test where campers will "act" like neurologists to predict where a lesion in the brain or spinal cord is in a person, as well as "act like neuroradiologists in order to predict the symptoms and prognosis of patients with particular nervous system lesions.

Robotics 6th - 8th & 9th - 10th

LOCATIONS STANFORD | UC BERKELEY | UCLA | TUFTS

DURATION 6 DAYS | 5 NIGHTS (OVERNIGHT)

5 DAYS (DAY CAMP)

In this course, students will explore the emerging science of robot mechanics as they build and program their robot from scratch using the VEX robotics platform, remotely control it, experiment with light and pressure sensors, create drive trains for varying terrains, and play robotic sports. The curriculum explores electrical circuits and built power as well as communications systems for their robots, encouraging the use of design thinking to learn about the engineering process to brainstorm, design, construct, test, and redesign.

Science Minors and Enrichment Activities

fill up most of the afternoons and evenings to give students an opportunity for informal science learning, as well as leadership and problem-solving training. Past minors included Forensic Science and Chemistry. Students will also attend a mid-program excursion to a local science venue.

*DESCRIPTIONS, PROGRAM DURATION, ACTIVITIES, STAFF AND LOCATIONS LISTED ARE SUBJECT TO CHANGE.

*NEUROANATOMY AND ROBOTICS GRADES 9TH - 10TH SESSIONS DO NOT HAVE MINORS: CAMPERS WILL INSTEAD CONTINUE LEARNING MORE IN-DEPTH ABOUT THEIR MAJORS.

Selected Faculty

Profiles of our outstanding instructors



Gladys Velez Caicedo

Gladys Velez Caicedo is a technical instructor in the Department of Physics at the Massachusetts Institute of Technology (MIT). A graduate of Columbia University in New York City, Gladys holds a Bachelor of Science degree in astronomy & physics. Gladys has conducted high energy particle astrophysics at various labs around the world, such as Nevis Laboratories and as part of the VERITAS collaboration. Gladys developed a passion for high school education during her college years. While at Columbia, she established the Columbia Education Studies Program in 2011, designed to give high school students wide-range access to university education.

Gladys joined the Education Unlimited team in 2017. She developed the curriculum for the astrophysics summer camp program, offered as of summer 2018.

Vickie Obenchain

Vickie Obenchain has been teaching for Education Unlimited since 2008. Not only with the Education Unlimited program as a Marine Science and Astronomy instructor, but also with the A+ Middle School program.

She has two degrees in Environmental Science, a Bachelors of Science from Elon University, NC., and a Masters from Montclair State University, NJ. While she enjoys teaching during the summers for EU, she teaches the rest of the year at an independent school in Moraga, CA., as a K – 8th grade science teacher.

“If we’re going to out-innovate and out-educate the rest of the world, we’ve got to open doors for everyone.”

Former First Lady Michelle Obama

2018 Information

Dates and schedule

Day Camp Sessions

At most camp locations we offer special day-camp only sessions of the Science Camps Coed program. These programs feature a convenient 5-day schedule, with classes from approximately 9am to 5pm each day. Please note that due to the program's shorter duration, students at the day-camp program participate in a truncated version of the curriculum offered at overnight sessions.

"I can't choose the best part of camp, because I loved every part of it! The camp was sooooo much better than my expectations!"

Science Camp participant



2018 dates

LOCATION	SESSION	GRADE	LOCATION	SESSION	GRADE
Astronomy			Middle School Robotics		
Stanford	Jul 1 - Jul 7	6th - 8th	Stanford	Jul 1 - Jul 7	6th - 8th
UC Berkeley	Jul 8 - Jul 13	6th - 8th	UC Berkeley	Jul 8 - Jul 13	6th - 8th
UCLA	Jul 22 - Jul 27	6th - 8th	UCLA	Jul 30 - Aug 3	6th - 8th
Astrophysics			High School Robotics*		
Stanford	Jul 8 - Jul 14	9th - 10th	Stanford	Jul 8 - Jul 14	9th - 10th
Tufts	Jul 15 - Jul 21	9th - 10th	Tufts	Jul 15 - Jul 21	9th - 10th
MIT	Jul 30 - Aug 3	9th - 10th	MIT	Jul 30 - Aug 3	9th - 10th
Neuroanatomy*			*Neuroanatomy and Robotics Grades 9th - 10th sessions do not have minors: campers will instead continue learning more in-depth about their majors.		
Stanford	Jul 8 - Jul 14	9th - 10th			
Tufts	Jul 15 - Jul 21	9th - 10th			
MIT	Jul 30 - Aug 3	9th - 10th			
UCLA	Aug 5 - Aug 11	9th - 10th			

Join Us!

Education Unlimited

Regular Enrollment A check for full tuition or a deposit, (credited toward the total program cost), must accompany your application. Applicants are considered on a first come, first served basis except for Summer Focus, A+ Summer and CAPC Intensive, which are competitive. Applicants not accepted to the program will have their tuition payment returned, otherwise no refund of any kind is offered without the Cancellation Protection Plan.

Tuition Assistance Students with financial need are encouraged to call or write for tuition assistance information, or send an email to campinfo@educationunlimited.com. See website for details.

Mail the Following

- Completed application.
- Deposit check (\$495 deposit for programs under \$2,300; \$695 for programs \$2,300–\$3,500; \$995 for programs over \$3,500), including the Tuition Protection Plan fee, if desired (*it may not be added after application*). See website for details.
- International students add \$100.
- Wait for your enrollment confirmation! (*Please do not make any travel plans until you receive final program details*).

Sign me up for the following 2018 Camp:

Camp Name	Grade Range
Camp Location	
Camp Dates	Camp Tuition

I am ready to apply!

Enroll me as a (circle one):	Overnight Camper	Extended Day Camper	Day Camper
Student's Name	Age	Grade Fall 2018	
Home Address	City	State	Zip
Home Phone	Student Email		
Date of Birth			
Parent (No. 1) Name	Parent (No. 2) Name		
Work Phone	Work Phone		
Cell Phone	Cell Phone		
Email	Email		
School Name			
School Address	City	State	Zip
How did you first hear about the program?			

Reminder You must remit the \$495, \$695 or \$995 deposit with your completed application. Make checks payable to Education Unlimited. Without the Tuition Protection Plan (TPP) this deposit is non-refundable unless the student is not accepted into the program. We recommend that you purchase the TPP, which provides a full or partial refund, as explained in our enrollment policies. The fee for the Protection Plan is 10% of the total tuition before any discounts and must be purchased with this application. No refund of any kind is offered without the TPP. If you answer yes for the TPP, full payment for the Protection Plan must be sent in with this application. With TPP, cancel 31 days or more before camp and receive 100% refund of tuition, cancel 15 - 30 days before camp for a 70% refund, cancel 3 - 14 days before camp for 40% refund. Cancel 2 days before camp or fewer, no refund is provided.

TPP Payment Enclosed:	Yes	No	Total Enclosed \$
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I hereby give permission for my child to participate in the above indicated program. I am also indicating my agreement to, and full acceptance of, all terms and conditions of enrollment listed on the Education Unlimited website and this brochure. See www.educationunlimited.com/pages/enrollmentpolicies.

Signature of Parent	Date
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Please note: Each student's progress in the program is dependent on the individual student's motivation and abilities.

Contact

www.educationunlimited.com
campinfo@educationunlimited.com
510-548-6612

Mail to Education Unlimited

1700 Shattuck Avenue, #305
Berkeley, CA 94709



Education Unlimited®'s summer youth programs are independent of the listed Universities, their respective admissions offices and all other University programs and initiatives.

