Berkeley | EECS
Electrical Engineering and Computer Sciences

Photo credit: EECS Department

HOW TO USE THIS MAP

Use this map to help plan and guide your experience at UC Berkeley, including academic, co-curricular, and discovery opportunities. Everyone's Berkeley experience is different and activities in this map are suggestions. Always consult with your advisors whenever possible for new opportunities and updates.

CONNECT WITH US

Cal Day
Come to UC Berkeley's annual **Open House** in April for information sessions, campus tours, special talks, and more. See what events the EECS Department offers at **eecs.berkeley.edu/academics/undergraduate/calday**.

Golden Bear Orientation
Join your peers in the campus-wide UC Berkeley **orientation** program for all new students.

Events
Attend department events with students, faculty, and staff. Visit **eecs.berkeley.edu** for news and updates.

ADVISING

Prospective students can make an appointment to meet with a CS advisor at **berkeleycs.youcanbook.me**. Current students should make a CS advising appointment through CalCentral.

Drop-in CS advising is available. Please check **eecs.berkeley.edu/resources/undergrads/cs/advising** for the latest schedule.

Letters & Science College advising services can be found at **lsadvising.berkeley.edu**.

Visit **ue.berkeley.edu/majormaps** for the latest version of this major map.

Berkeley
Electrical Engineering & Computer Sciences - Computer Science Division
387 Soda Hall
Berkeley, CA 94720-1776
eecs.berkeley.edu

COMPUTER SCIENCE
Bachelor of Arts

Berkeley
UNIVERSITY OF CALIFORNIA

INTRODUCTION TO THE MAJOR

The **Computer Science** major (CS) deals with computer theory, methods of information processing, hardware and software design, and applications. The major combines a rigorous technical program with background in the liberal arts and sciences. The CS major prepares students for technical careers or graduate school programs related to EECS or CS.

All students admitted to the College of Letters & Science are admitted as undeclared students. To declare CS, students must achieve a cumulative grade point average of 3.30 in CS61A, CS61B, & CS70. All students who meet this criteria are admitted into the major.

CS Scholars   *Photo credit: EECS Department*

> " *CS isn't something I could've done alone, so I'm grateful for the community here.* "
>
> – *Steven Tan, CS student and CS Peer Advisor*

ONE DEPARTMENT, TWO PROGRAMS

There is no difference in the CS course content between the CS and EECS majors—the differences are what other subjects you would like to study and the admissions processes to the university and majors.

If you prefer greater flexibility in your coursework or have an interest double-majoring in an area outside engineering, the CS major might be a good choice. There is greater opportunity to explore other departments, like Economics, Business, and Music.

If you have a great interest in electrical engineering or in double-majoring in another engineering major, the EECS major may be better suited for you.

RELATED MAJORS

- There are many ways to get exposure to CS other than via the CS major. The following majors are avenues to study CS and to help prepare students for industry and graduate school: **Applied Math**, **Cognitive Science**, **Data Science**, and **Statistics**.

- The **CS minor** is also a great option that equips students for industry and graduate school.

COMPUTER SCIENCE

DESIGN YOUR JOURNEY

Bachelor of Arts

Berkeley
UNIVERSITY OF CALIFORNIA

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Explore your major	See CS **requirements and declaration policies**. Plan on 1 CS class & 1 math class/semester: Take **CS10** and/or **CS8** before CS61A, if no coding experience. See **math requirements and AP/IB policies** and find **calculus starting point**. Check in with a **CS major advisor**.	Complete the **CS prerequisite coursework** to declare your major. It is recommended to **apply to CS** by the end of your 2nd year. Use the **EECS website** to help guide your B.A. program, and the **HKN course guide** to think about future classes in CS/EE. Consider a **minor**.	Complete CS **lower-division requirements**; begin taking **upper-division courses**. Check-in with a **CS major advisor**. Participate in faculty advising each semester once declared. If eligible and interested in research, consider the **EECS Honors Program**.	Complete remaining CS **upper-division requirements**. Consider getting faculty permission to take CS graduate courses. Meet with a **CS advisor** to ensure CS requirements will be completed. Check-in with an **L&S advisor** to stay on track.
Connect and build community	New to CS? Apply to **CS Scholars**. Get support in classes from **resources and counselors**. Become familiar with **Disabled Students' Program**, **Gender Equity Resource Center**, **Undocumented Student Program**, **Educational Opportunity Program**.	Learn about **EECS student organizations**. Consider becoming an **Academic Intern, Reader, or Tutor** for a lower-division CS/EE class. Seek **CS Peer Advising** and ask questions on the **EECS 101 on Edstem**. Go to office hours of professors and GSIs.	Enjoy teaching and/or mentoring? Become an **EE/CS DeCal facilitator** or **CS Mentor**. Learn how to become an **Undergraduate Student Instructor** in future semesters. Consider applying to the **Accel Scholars Program**.	Give back by becoming a **CS peer advisor** or **tutor at the Student Learning Center**. Volunteer for EECS Departmental events like **CS Education Day** and **Cal Day**. See ways to **stay in touch with the EECS Department** after you graduate.
Discover your passions	Enroll in a **Freshman & Sophomore Seminar**. Look for CS/EE 24 & 39. Visit the **Office of Undergraduate Research and Scholarships** to learn about research opportunities. Take a **DeCal**, a student-facilitated course.	Assist a professor in their research through the **Undergraduate Research Apprenticeship Program**. Attend the **EECS Department Colloquium Series** to learn more about the field. Learn more about **research opportunities** available at UC Berkeley.	Explore **Beehive** and other **EECS research opportunities** for undergraduates. Learn about **upper-division technical electives** for your major outside CS. Join **CalTeach** to gain teaching skills and explore a career in education.	Carry out your own research project funded by **scholarships**. Attend events at the **Sutardja Center for Entrepreneurship & Technology** or the **Jacobs Institute for Design and Innovation**.
Engage locally and globally	Explore **study abroad** options now so you can incorporate them into your sophomore or junior year plans. Explore volunteer opportunities on campus.	Explore **study abroad options for CS** and meet with both a **CS major advisor** and your **L&S advisor** to confirm requirement fulfillment. Join **Bridging Berkeley** to become a math mentor to middle schoolers.	Interested in community outreach? Check out the opportunities available in **community outreach programs** for engineering students. Get matched with a graduate student mentor through **Berkeley Connect**.	Consider researching and applying for **scholarships** available to recent Berkeley graduates. If interested in graduate school, explore gap year opportunities prior to embarking on your next academic or career adventure.
Reflect and plan your future	Use the **Yearly Planner** to guide your career path. Join **Handshake** for Berkeley-specific career opportunities. Learn about career opportunities in EECS at the **Career Center**. Look for internship programs at various companies specific to first-year students.	Subscribe to the eecs-ugrad-jobs list-serv to learn about EECS **Info-sessions and Tech Talks**. Attend the **EECS Internship Fair**, **EECS & STEM Career Fairs**. Meet with the **Career Center** or **UPE** for resume help and interview practice.	Attend the Engineering and Tech Career Conference to prepare for recruiting season Utilize **job search tools** from the Career Center. Explore graduate school options by speaking with faculty members and **advisors**.	Continue to attend industry-related events. Take the GRE & seek letters of recommendation if interested in graduate school. View the **First Destination Survey** to find out what recent grads are doing.

WHAT CAN I DO WITH MY MAJOR?

Jobs and Employers

Application Developer, Workday
ASIC Engineer, Nvidia
Assoc. Publishing Producer, Google
Consultant, Bain and Company
Cyber Security Consultant, Deloitte
Data Analyst, Apple
Data Scientist, Nerdwallet
Front End Developer, HealthTap
Hardware Engineer, Apple
Infrastructure Engineer, Capital One
iOS Engineer, Mozilla
Machine Learning Engineer, eBay
Mobile Developer, Sony
Program Manager, Microsoft
R&D Engineer, Glint Photonics
Site Reliability Engineer, Google
Software Developer, Expedia
Software Engineer, AirBnB
Surface Warfare Officer, U.S. Navy
Teacher, Teach for India
Technology Analyst, Goldman Sachs
UX Designer, GoDaddy

Graduate Programs

Algebra and Numbers Theory
Artificial Intelligence and Robotics
Audiology and Hearing Sciences
Biological Sciences
Biostatistics
Chemistry
Computational Mathematics
Computer Engineering
Computer Graphics
Computer Science
Electrical Engineering
Industrial and Org. Psychology
Medicine
Physical Chemistry
Physics

Examples gathered from the **First Destination Survey** of recent Berkeley graduates.