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**.

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 and current EECS students can connect with an EECS advisor at **eecs.berkeley.edu/resources/undergrads/eecs/advising**. EECS advisors are located in 205 Cory Hall.

Engineering Student Services (ESS) advising is open to current EECS students and can be found at **engineering.berkeley.edu/students/advising-counseling/ess-advising/**. ESS Advisors are located in **230 Bechtel Engineering Center**.

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

Berkeley
Electrical Engineering & Computer Sciences
253 Cory Hall
Berkeley, CA 94720-1770
eecs.berkeley.edu

ELECTRICAL ENGINEERING AND COMPUTER SCIENCES

Berkeley
UNIVERSITY OF CALIFORNIA

Bachelor of Science

INTRODUCTION TO THE MAJOR

The **Electrical Engineering & Computer Sciences** (EECS) major combines the fundamentals of computer science and electrical engineering in one major. The EECS major prepares students:

- To pursue postgraduate education in electrical engineering, computer science, or related fields.
- For success in technical careers related to electrical and computer engineering, or computer science and engineering.
- To become leaders in fields related to electrical and computer engineering or computer science and engineering.

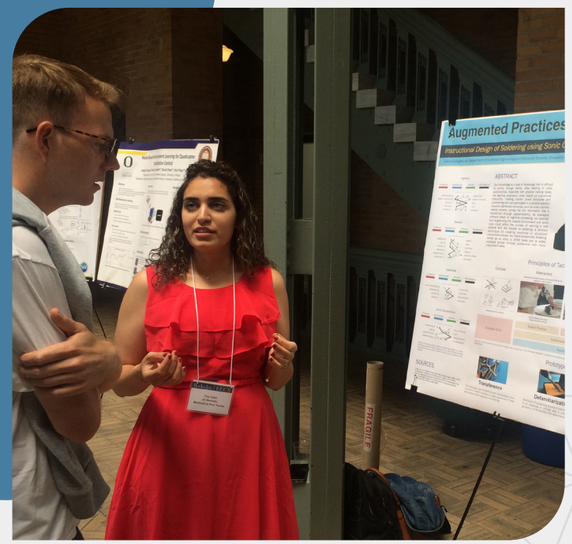

Photo credit: EECS Department

> *"EECS taught me to think outside the box, to approach problems and solve them."*
>
> *– Erica Maida, EECS student*

EECS OR COMPUTER SCIENCE (CS)?

There are a few differences in the computer science course content between the EECS and CS majors--the difference is what other subjects you'd like to study.

If you prefer greater flexibility in your coursework, or have an interest in double-majoring within L&S, then the CS major might be a good choice. There is greater opportunity to explore other departments, such as economics, statistics, business, and music.

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

AMPLIFY YOUR MAJOR

- Pursue your interests and challenge yourself by conducting research with EECS faculty.
- Get a competitive edge with **PREP** and **T-PREP** programs for new Engineering students.
- If eligible and interested in research, consider applying for the **EECS Honors Program**.
- **CS Mentors** is a student-run organization that provides a smaller classroom environment through group tutoring sessions.
- Explore study abroad options available to EECS majors on the **EECS Study Abroad page**.

ELECTRICAL ENGINEERING AND COMPUTER SCIENCES

Bachelor of Science

DESIGN YOUR JOURNEY

Berkeley
UNIVERSITY OF CALIFORNIA

Explore your major

FIRST YEAR

Review requirements for the **EECS major**, **COE** and **UC/Campus**.

Take intro courses **CS 10** and/or **DATA 8** if you have no prior coding experience.

Meet an advisor and map out a plan of study.

Refer to **sample study plans** for guidance.

Participate in **faculty advising** each semester.

SECOND YEAR

Finish completing **math and lower division EE & CS requirements**.

Use the **HKN course guide** to review possible future classes.

Consider a **minor**.

Check out a course at the **Jacob's Institute for Design** or sign up for a Maker Pass.

THIRD YEAR

Check-in with an **EECS advisor** to make sure you are on track to graduate.

If eligible and interested in research, consider the **EECS Honors Program**.

Consider applying to the **Accel Scholars Program** for mentoring & exposure to various career paths.

FOURTH YEAR

Finish completing any remaining requirements.

Meet with an **ESS** or **EECS advisor** to do a degree check and ensure you are on track to graduate.

Participate in general and/or the College of Engineering commencement.

Connect and build community

New to CS? Apply for the **CS Scholars Program**.

Get academic support from **resources and counselors**.

Become familiar with **Disabled Students' Program**, **Gender Equity Resource Center**, **Undocumented Student Program**, and **Educational Opportunity Program**.

Learn about **EECS student organizations**.

Go to professor or GSI office hours.

Consider becoming an **Academic Intern, Reader, or Tutor**.

Seek **CS** and **ESS** peer advising and ask questions on the **EECS 101 Ed Q&A forum**.

Enjoy teaching and/or mentoring? Become an **EE/CS DeCal** facilitator or **CS Mentor**. Learn about how to become an **Undergraduate Student Instructor** in future semesters.

Attend **EECS Department Colloquium Series** to learn more about the field.

Give back by becoming an **Engineering peer advisor** or **tutor at the Student Learning Center**.

Volunteer for EECS Departmental events such as **Cal Day**.

Explore 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**.

Learn more about **research opportunities** available at UC Berkeley.

Explore **Beehive** and other **EECS research opportunities** for undergraduates.

Join **CalTeach** to gain teaching skills and explore a career in education.

Apply for leadership roles through **student government**, **student organizations**, or **Golden Bear Orientation**.

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 EECS** and meet with both an **EECS major advisor** and your **ESS 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 careers 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 serve to learn about EECS **Info-sessions and Tech Talks**.

Attend the **EECS Internship Fair** and **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.

Explore graduate school options by speaking with faculty members and **advisors**.

Continue to attend industry related events.

Take the GRE & seek letter of recommendations if interested in graduate school.

Utilize **job search tools** from the Career Center.

View the **First Destination Survey** to find out what recent grads are doing.

WHAT CAN I DO WITH MY MAJOR?

Jobs and Employers

Audio Test Engineer, THX
Computing Technician, Pandora
Consultant, Google
CTO, Evolution Devices
Data Scientist, Proofpoint
Design Engineer, GM
Developer, Salesforce
Elect. Engineer, Northrop Grumman
Firmware Engineer, Fitbit
Graphics Software Engineer, Intel
Hardware Engineer, Amazon
Product Designer, Facebook
Programmer, Celect
Researcher, Signetron
Software Developer, Capital One
Software Engineer, Apple
Solutions Engineer, Cisco
Technical Asst., Ind. Light & Magic
Technology Associate, Bridgewater

Graduate Programs

Artificial Intelligence and Robotics
Business Administration
Computer Engineering
Computer Graphics
Computer Programming
Computer Science
Computer Engineering
Computer Graphics
Electrical Engineering
Information Technology
Materials Engineering
Mechanical Engineering

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

Updated Last: 06.05.2023