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.

“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.
### FIRST YEAR
- **Explore your major**
  - 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.

- **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.

- **Discover your passions**
  - Visit the Office of Undergraduate Research and Scholarships to learn about research opportunities.
  - Take a DeCal, a student-facilitated course.

- **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.

- **Reflect and plan your future**
  - Develop a plan for getting career ready.
  - Join Handshake for Berkeley-specific career opportunities.
  - Learn about careers in EECS at Berkeley Career Engagement.
  - Look for internship programs at various companies specific to first-year students.

### SECOND YEAR
- **Explore your major**
  - 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.

- **Connect and build community**
  - 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.

- **Discover your passions**
  - Assist a professor in their research through the Undergraduate Research Apprenticeship Program.
  - Learn more about research opportunities available at UC Berkeley.

- **Engage locally and globally**
  - 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.

- **Reflect and plan your future**
  - 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 Berkeley Career Engagement or UPE for resume help and interview practice.

### THIRD YEAR
- **Explore your major**
  - 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.

- **Connect and build community**
  - Enjoy teaching and/or mentoring? Become an EECS 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.

- **Discover your passions**
  - 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.

- **Engage locally and globally**
  - 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.

- **Reflect and plan your future**
  - 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.

### FOURTH YEAR
- **Explore your major**
  - 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**
  - 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**
  - Explore ways to stay in touch with the EECS Department.

- **Engage locally and globally**
  - 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.

- **Reflect and plan your future**
  - 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.

### WHAT CAN I DO WITH MY MAJOR?
- **Jobs and Employers**
  - Audio Test Engineer, THX
  - Computing Technician, Pandora
  - Consultant, Google
  - CTO, Evolution Devices
  - Data Scientist, Pointprop
  - Design Engineer, GM
  - Developer, Salesforce
  - Elect. Engineer, Northrop Grumman
  - Firmware Engineer, Fitbit
  - Graphics Software Engineer, Intel
  - Hardware Engineer, Amazon
  - Product Designer, Facebook
  - Programmer, Citect
  - Researcher, Signetron
  - Software Developer, Capital One
  - Software Engineer, Apple
  - Solutions Engineer, Cisco
  - Technical Ass't., Ind. Light & Magic
  - Technology Associate, Bridgewater
  - Technology Associate, California Honey Farms
  - Technology Director, Apple
  - Technology Manager, Apple

### Graduate Programs
- **Artificial Intelligence and Robotics**
- **Business Administration**
- **Computer Engineering**
- **Computer Graphics**
- **Computer Programming**
- **Computer Science**
- **Electrical Engineering**
- **Information Technology**
- **Materials Engineering**
- **Mechanical Engineering**

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