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.

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.

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
### COMPUTER SCIENCE

**Bachelor of Arts**

**Design Your Journey**

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<th><strong>FIRST YEAR</strong></th>
<th><strong>SECOND YEAR</strong></th>
<th><strong>THIRD YEAR</strong></th>
<th><strong>FOURTH YEAR</strong></th>
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<td><strong>Explore your major</strong></td>
<td><strong>Connecting with the community</strong></td>
<td><strong>Second Semester of Your Major</strong></td>
<td><strong>Fourth Year</strong></td>
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<td>See CS requirements and declaration policies</td>
<td>Complete the CS prerequisite coursework to declare your major.</td>
<td>Complete CS lower-division requirements, begin taking upper-division courses.</td>
<td>Complete remaining CS upper-division requirements.</td>
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<td>Plan on 1 CS class &amp; 1 math class/semester: Take CS10 and/or CS18 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.</td>
<td>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.</td>
<td>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.</td>
<td>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&amp;S advisor to stay on track.</td>
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<td><strong>Connect and build community</strong></td>
<td><strong>Discover your passions</strong></td>
<td><strong>Explore your major options</strong></td>
<td><strong>What can I do with my major?</strong></td>
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<td>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.</td>
<td>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 Plaza. Go to office hours of professors and GSIs.</td>
<td>Enjoy teaching and/or mentoring? Become an EECS/CS DeCal facilitator or CS Mentor. Learn how to become an Undergraduate Student Instructor in future semesters. Consider applying to the Accel Scholars Program.</td>
<td>Jobs and Employers: Application Developer, Workday; ASIC Engineer, Nvidia; Associate 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&amp;D Engineer, Gilt Photons; 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.</td>
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<td>Enroll in a Freshman &amp; Sophomore Seminar. Look for CS10 24 &amp; 29. Visit the Office of Undergraduate Research and Scholarships to learn about research opportunities. Take a DeCal, a student-facilitated course.</td>
<td>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.</td>
<td>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.</td>
<td>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.</td>
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<td><strong>Engage locally and globally</strong></td>
<td><strong>Reflect and plan your future</strong></td>
<td><strong>WHAT CAN I DO WITH MY MAJOR?</strong></td>
<td>Examples gathered from the First Destination Survey of recent Berkeley graduates.</td>
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<td>Explore study abroad options now so you can incorporate them into your sophomore or junior year plans. Explore volunteer opportunities on campus.</td>
<td>Explore study abroad options for CS and meet with both a CS major advisor and your L&amp;S advisor to confirm requirement fulfillment. Join Bridging Berkeley to become a math mentor to middle schoolers.</td>
<td>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.</td>
<td>WHAT CAN I DO WITH MY MAJOR? Jobs and Employers: Application Developer, Workday; ASIC Engineer, Nvidia; Associate 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&amp;D Engineer, Gilt Photons; 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.</td>
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<td><strong>Jobs and Employers</strong></td>
<td><strong>Graduate Programs</strong></td>
<td>Examples gathered from the First Destination Survey of recent Berkeley graduates.</td>
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**Jobs and Employers**

- Application Developer, Workday
- ASIC Engineer, Nvidia
- Associate 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, Gilt Photons
- 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.**

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