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, & statistics.

• The CS minor is also a great option that equips students for industry and graduate school.
### COMPUTER SCIENCE

**Bachelor of Arts**

#### DESIGN YOUR JOURNEY

**FIRST YEAR**
- **Explore your major**
  - See CS requirements and declaration policies
  - Plan on a CS class 1 & math class/semester. Take CS50 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

**SECOND YEAR**
- **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

- **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.

**THIRD YEAR**
- **Third Year**
  - 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.

**FOURTH YEAR**
- **Fourth Year**
  - 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.

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#### 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, Google
- 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 Career Destinations Survey of recent Berkeley graduates.