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## Chapter 3: The Bachelor of Arts Degree

### 3.1 Introduction

The Computer Science Division administers a major in [Computer Science](#)<sup>1</sup> for students in the College of Letters and Science. Graduates receive a Bachelor of Arts (B.A.) degree. The EECS Honors Degree Program and the Five-Year Bachelor/Masters Program are also open to L&S CS students. For more information, visit the [CS Letters and Science Website](#)<sup>2</sup>. There is also an L&S CS advisor to answer your questions and provide assistance (office: 377 Soda Hall, telephone: 510-642-7214). You may apply for admission to the major during the term in which you expect to complete all of your technical prerequisites.

### 3.2 Lower-Division Requirements

The following lower-division technical courses are required for entry into the Letters and Sciences major in Computer Science. You must take all of these courses for a grade, with the exception of EE 43.

- One year of college-level calculus and one course in linear algebra and differential equations (Math 1A, 1B, 54 or 54M).
- One course in discrete mathematics and probability theory (CS 70).
- One course in electronics: EE 42.
- We strongly recommend that you take EE 43 (a one-unit lab course) with EE 42. Alternatively, you can use EE 40 in place of EE 42.

*Note: EE 42 is not intended for EECS students; they should take EE 40 instead. For those students who might switch to EECS, take EE 40 instead of EE 42.*

- Completion of the lower-division sequence in computer science (CS 61A-B-C).
- You must complete 27 units of upper-division courses in the major. You must take all of these courses for a grade (none may be taken Passed/Not Passed).
  - Theory (CS 170)
  - Two software project courses from the following set:

CS 160	CS161	CS164	CS184
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<sup>1</sup> <http://ls-major.berkeley.edu/compsci.html>

<sup>2</sup> <http://ls.berkeley.edu/>

CS162	CS169	CS186	
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- Two additional CS courses
- Technical Electives from the approved list located at [http://www.eecs.berkeley.edu/csugrad/tech\\_electives.shtml](http://www.eecs.berkeley.edu/csugrad/tech_electives.shtml). It is also available at the L&S CS advisors' office (377 Soda Hall). The list includes courses from the fields of engineering, mathematics, statistics, linguistics, art, information management, psychology, economics, geophysics, business administration, cognitive science, and physics. All CS and EE courses offered for a letter grade are automatically approved as technical electives. You must submit requests for exceptions to these requirements in writing to the CS Advising Office. Such requests are subject to the approval of a Faculty Advisor.

### 3.3 Minor in Computer Science

A minor in computer science is available to all undergraduate students at Berkeley with a declared major, except CS and EECS majors, through the College of Engineering. The lower-division technical requirements are

- CS 70
- CS 61A
- CS 61B
- CS61C

Students approved for the minor are given the opportunity to take three upper-division CS courses subject to available space, but with higher priority than other non-CS majors. Applications and more information on the CS minor are available at the Computer Science Advising Office, 377 Soda Hall, 510-642-7214. Online applications are located at <http://www.eecs.berkeley.edu/Programs/eecsminor/forms/petition.pdf>.

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