



# COMPUTER SCIENCE MAJOR

## Transfer Requirements

**CAREER OPPORTUNITIES:** Computer Science is a rapidly changing field and one that has demand for highly trained professionals. An option within the Engineering Major focuses on the construction and design of a computer's electrical components, compilers and operating systems, and information transmission reliability. Within the Mathematics Major, a focus on computer science emphasizes artificial intelligence, computer graphics, database management systems, language and computation.

**NOTE:** Many programs are impacted, requiring high GPA and screening of prerequisites. Due to the competitive nature of the Computer Science major, students are advised to complete as many courses required for the major prior to transfer. \*Computer Science 3 & 10 are offered in the fall semester only; Computer Science 15P, 30, & Math 210 are offered in the spring semester only.

**CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS (CSUDH)** (2007-2008) <http://csc.csudh.edu>

Computer Science 3\*, 15P\*; Mathematics 190-191, 210\*; Physics 1A-1B-1C- 1D or Physics 130 & 132 & 134 at CSUDH.

**CALIFORNIA STATE UNIVERSITY, FULLERTON (CSUF)** (2007-2008)

[www.fullerton.edu/catalog/academic\\_departments/cpsc.asp](http://www.fullerton.edu/catalog/academic_departments/cpsc.asp)

Computer Science 2, 15P\*; Mathematics 190-191, 210\*; Biology 10 (or Biology 1A & 1B); and one of the following combinations: Physics 1A-1B-1C; or Geology 1, 2, 3, & 4 or Chemistry 1A and Chemistry 125 at CSUF.

**CALIFORNIA STATE UNIVERSITY, LONG BEACH (CSULB)** (2007-2008) [www.csulb.edu/colleges/coe/cecs](http://www.csulb.edu/colleges/coe/cecs)

Requirements for both the B.S. in Computer Science, option in Computer Engineering and the B.S. in Computer Science, option in Computer Science: Minimum grade of "C" in each course: Computer Science 1, 2, 3\*; Math 190; Physics 1A-1B-1C (Physics 1B-1C has a Math 191 prerequisite).

**CALIFORNIA STATE UNIVERSITY, LOS ANGELES (CSULA)** (2006-2007)

[www.calstate.edu/academics/ecst/cs](http://www.calstate.edu/academics/ecst/cs)

Bachelor of Science (Option under Mathematics and Computer Science) English 1C; Mathematics 190-191, 210\*, 220; Physics 2A-2B.

**CALIFORNIA STATE UNIVERSITY, NORTHRIDGE (CSUN)** (2007-2008) <http://python.ecs.csun.edu>

Computer Science 1, 2, 15P\*; Mathematics 190, 191; Select one sequence from: Biology 1A & 1B or 101 & 102, Chemistry 1A & 1B, Physics 1A & 1C. Select an additional science course outside of the sequence previously selected with corresponding lab: Biology 1A or 101, Chemistry 1A, Geography 1 & 6, Geology 1 & 3, Physics 1A, Geology 2 & 4.

A grade of "C" or better is required in all lower division major courses.

A minor in Computer Science is also available. Requirements: Computer Science 1, 2, 15P\*

**CALIFORNIA STATE UNIVERSITY, POMONA** (2006-2007) [www.csupomona.edu/~cs/](http://www.csupomona.edu/~cs/)

Biology 10; Computer Science 2, 3, 15P\*, 30; Mathematics 190, 191, 220, 270; Physics 1A, 1B, 1C

**SAN DIEGO STATE UNIVERSITY (SDSU)** (2007-2008) [www.cs.sdsu.edu](http://www.cs.sdsu.edu)

Computer Science 2, 3\*, 15P\*; Mathematics 150; 190 & 191 (must both be completed), 210\*, 270 and one sequence from Physics 1A & 1C or Chemistry 1A & 1B or Biology 1A & 1B or 101 & 102.

**CALIFORNIA STATE UNIVERSITY, SAN LUIS OBISPO** (2007-2008) [www.csc.calpoly.edu](http://www.csc.calpoly.edu)

One course from Computer Science 1 or 3\*, Computer Science 30\*; Mathematics 190-191, 210\*, 220, 270; Chemistry 1A & 1B OR Physics 1A-1B-1C-1D (or Physics 131, 132, 133 at Cal Poly). One additional science elective from Biology 10 or 1A or Chemistry 1A or 20 or Physics 1A or Microbiology 33.

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**UNIVERSITY OF CALIFORNIA, BERKELEY (UCB)** (2007-2008) [www.cs.berkeley.edu](http://www.cs.berkeley.edu)

*ECC's Computer Science 2 and 30 articulates as Berkeley's Computer Science 61B (students must complete COMPSCI 47B at UCB to complete the requirement). With few exceptions, transfer students must take CS 61A and 61C during their first semester(s) at Berkeley. The entire CS 61 series is also offered during the Berkeley summer session. The dept. recommends that students take these courses during the summer sessions prior to transfer.*

**B.S. in Electrical Engineering and Computer Science** (College of Engineering): Computer Science 2, 30\*; Mathematics 190-191, 220-270, 210\*; Physics 1A-1B-1C; English 1A & 1B; one additional science course from Chemistry 1A, 1B, 7A, 7B, Biology 1A-1B-1C or 101-102-1C, Physics 1D, Physiology 31; *Admission is highly competitive and courses taken in summer is not considered to be "work in progress" for fall selection purposes. Courses that are in a sequence must be completed in its entirety; no partial credit will be given.*

**B.A. Degree in Computer Science** (offered by the College of Letters and Science):— **requires either IGETC by the end of the spring term that precedes fall enrollment at UCB or** UCB's Reading & Composition, Foreign Language, and Quantitative Reasoning. Computer Science 2, 30\*; Mathematics 190, 191, 210\*, 270

**UNIVERSITY OF CALIFORNIA, DAVIS (UCD)** (2006-2008) [www.cs.ucdavis.edu](http://www.cs.ucdavis.edu)

**B.S. in Computer Science** (College of Letters and Science): Computer Science 1, 15P\*, 30\*; Mathematics 190, 191, 210\*, 220, 270; One of the following: Chemistry 1A-1B; or Physics 1A-1B-1C-1D.

**UNIVERSITY OF CALIFORNIA, IRVINE (UCI)** (2007-2008) [www.ics.uci.edu](http://www.ics.uci.edu)

**B.S. in Information and Computer Science**: Computer Science 2, 3\*, 30\*; Math 190, 191, 210\*, 270

**B. S. in Computer Science**: Computer Science 2, 3\*, 30 must be taken to receive credit for UCI's I&C Sci 21; Mathematics 190, 191, 210, 270; Philosophy 8; Science sequence chosen from: Physics 3A-3B or Physics 1A & 1B & 1D or 1A & 1C & 1D or Chemistry 1A-1B or Biology 101-102

**UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)** [www.cs.ucla.edu](http://www.cs.ucla.edu)

For the **B.S. in Computer Science**, **B.S. in Computer Science and Engineering**, or **B.S. in Mathematics with specialization in Computing**, please refer to the separate guide sheet in Engineering for UCLA.

**UNIVERSITY OF CALIFORNIA, RIVERSIDE (UCR)** (2007-2008) [www.cs.ucr.edu](http://www.cs.ucr.edu)

**B.S. in Computer Science**: Computer Science 1, 2, 15P\*, 30\*; Mathematics 190, 191, 220; Physics 1A-1B-1C.

Note: IGETC is not an appropriate general education program for this major. Refer to the Assist website ([www.assist.org](http://www.assist.org)) for the general education pattern specific to Engineering majors.

**UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD)** (2007-2008) [www.cse.ucsd.edu](http://www.cse.ucsd.edu)

**Computer Science B.A. and B.S.**: Computer Science 2, 3\*, 15P\*, 30\*; Math 190, 191, 210\*, 220, 270; Physics 1A, 1B, 1C

**LOYOLA MARYMOUNT UNIVERSITY (LMU)** (2006-2007) [www.lmu.edu](http://www.lmu.edu)

**Computer Science B.S.**: Computer Science 2, 3\*; Math 190, 191; At least 12 units of science electives including a 2-semester sequence of lab science from the following: Anatomy 32 & Physiology 31; Biology 1A & 1B; Chemistry 1A & 1B; Chemistry 7A & 7B; Physics 1A & 1C; Physics 3A & 3B.

**UNIVERSITY OF SOUTHERN CALIFORNIA (USC)** [www.cs.usc.edu](http://www.cs.usc.edu)

For the **B.S. in Computer Science** and **B.S. in Computer Engineering**, please refer to the separate guide sheet in Engineering for USC.

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