



# COMPUTER SCIENCE MAJOR

## Transfer Requirements

The following requirements for the major are subject to change without notice. To assure that this information is current, you should consult with a STEM counselor, or review articulation agreements via the Internet at [www.assist.org](http://www.assist.org)

**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.

### CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS (CSUDH) (2023-2024)

**BS Computer Science:** Computer Science 2, 3, and 16; Mathematics 190, 191, 210; Physics 1A-1B-1C- 1D or Physics 130 & 132 & 134 at CSUDH. The minor in Computer Science does not require physics.

**BA Computer Technology: General Track:** Computer Information System 13, 16; Computer Science 3; Mathematics 150, 180

**BA Computer Technology: Homeland Security Track:** Computer Information System 13, 16; Computer Science 2, 3, 16; Mathematics 150, 180

**BA Computer Technology: Professional Track:** Computer Information System 13, 16; Mathematics 150, 180

### CALIFORNIA STATE UNIVERSITY, FULLERTON (CSUF) (2022-2023)

**BS Computer Science:** Computer Science 1, 2, 3, 16, 40; Mathematics 190, 191, 210; Select 12 units from the following math and science (with corresponding lab) electives: Biology 10, 110, 120; Geology 1, 3, 2 & 4; Chemistry 1A, 1B; Math 220, 270

### CALIFORNIA STATE UNIVERSITY, LONG BEACH (CSULB) (2023-2024)

**BS Computer Science:** Computer Science 1 **or** 3 **or** 14; Computer Science 2, 16; Engineering 1; Math 190, 191, 210, 270; Chemistry 1A **or** Physics 1A-1B; Additional science electives from (select 1 from): Biology 10 **or** Anatomy 30 **or** Physiology 31 **or** Anatomy and Physiology 34A-34B)

**Note:** Major specific admissions requirements, please visit:

<https://www.csulb.edu/admissions/transfer-admission-eligibility>

### CALIFORNIA STATE UNIVERSITY, LOS ANGELES (CSULA) (2023-2024)

**BS Computer Science:** Computer Science 2, 3, 16; Mathematics 190, 91; Physics 1A

**Note:** Major specific admissions requirements, please visit:

<https://www.calstatela.edu/admissions/major-specific-criteria>

**CALIFORNIA STATE UNIVERSITY, NORTHRIDGE (CSUN) (2023-2024)**

**BS Computer Science:** Computer Science 1, 2, 16; Mathematics 190, 191, 210; Select a science elective w/lab from: Biology 110 **or** 120 **or** Geology 2 & 4. Select an additional science course outside of the sequence previously selected with corresponding lab: Chemistry 1A, Geography 1 & 6, Geography 9, Geology 1 & 3, Geology 2 & 4, Physics 1A

**CALIFORNIA STATE UNIVERSITY, POMONA (CPP) (2023-2024)**

**BS Computer Science:** Computer Science 2, 3, 16, 30; Mathematics 190, 191, 210; Physics 1A; Biology 10

**SAN DIEGO STATE UNIVERSITY (SDSU) (2021-2022)**

**BS Computer Science:** Mathematics 190, 191, 270; Physics 1A & 1C; Math 150. 7 additional CSCI courses needed that we do not offer at ECC (talk to a counselor)

**Note:** Please Review additional major prep through San Diego State's Transfer Admission Planner (TAP) at this link: <https://sunspot.sdsu.edu/pubred!/tap.disp>

**CALIFORNIA STATE UNIVERSITY, SAN LUIS OBISPO (2022-2023)**

**BS Computer Science:** Computer Science 1 **or** 3, 2, 16, 30; Mathematics 190, 191, 210, 220, 270; Engineering 9; ECHT 110; Select one sequence (12 quarter units) from: Chemistry 1A & 1B or Physics 1A, 1B, 1C, 1D; Select one science elective course from: Biology 8, 10, or 110, Microbiology 33. Select one additional science course outside of course previously selected from: Biology 8, 10, or 110, Chemistry 1A, Physics 1A or Microbiology 33

Note: Major specific admissions requirements, please visit:

<https://www.calpoly.edu/admissions/transfer-student/selection-criteria/major-specific-transfer-criteria>

**UNIVERSITY OF CALIFORNIA, BERKELEY (UCB) (2023-2024)**

**BA Computer Science:** Computer Science 2, 30; Mathematics 190, 191, 220, 270

**Notes:** this major is in the college of letters and science (L&S) which requires completion of IGETC or L&S requirements. However, starting with fall of 25 admissions, this major will be under the College of Computing, Data Science and Society at UCB and IGETC will no longer be required. Please make sure to consult with a counselor.

**UNIVERSITY OF CALIFORNIA, DAVIS (UCD) (2023-2024)**

**BS Computer Science:** Computer Science 1 **or** 3, 2, 30; Mathematics 190, 191, 210, 220

**Notes:** To be eligible for admissions, students must earn an overall UC-transferrable GPA of 3.10 or higher for this major. Strive to achieve your highest possible GPA to be most competitive. Candidates must complete courses comparable to the following UC Davis courses with a GPA of at least 3.40 for each of two course groups. It is recommended that candidates have already achieved the minimum required GPAs in the course(s) from the groups below that have been completed at the time of application and through the transfer academic update filing period. Courses must be taken for a letter grade, with no grade less than C. Advanced Placement (AP) or International Baccalaureate (IB) Higher Level examinations may satisfy UC Davis course equivalents.

**UNIVERSITY OF CALIFORNIA, IRVINE (UCI) (2023-2024)**

**BS Computer Science:** Computer Science 1, 30; Mathematics 190, 191, 210, 270

**BS Informatics:** Computer Science 1, 3, 30; Math 150 or Psychology 9A or Soci 109A

**BS Game Design and Interactive Media:** Computer Science 1, 30, Math 190, 191; Math 150 or Psychology 109A or Soci 109A

**BS Data Science:** Computer Science 1, 30; Math 190, 191, 210, 220, 270; Math 150 or Psychology 109A or Soci 109A

**Notes:** Students must have a cumulative GPA of 3.0 and grade of B or higher in all required courses

**UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)**

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

**UNIVERSITY OF CALIFORNIA, RIVERSIDE (UCR) (2022-2023)**

**BS Computer Science:** Computer Science 1 or 3, 30; Math 190, 191, 270; Physics 1A;

Select 3 courses from: Math 210, 220, Computer Science 2, Physics 1B or 1C

**BS Computer Science with Business Applications:** Business 150; Computer Science 1 or 3; Math 190, 191; Select 3 courses from: Math 210; Computer Science 2, 30; Economics 101, 102;

Strongly recommended: Math 220, 270

**Note:** IGETC is an acceptable general education program for this major or the Bourns College of Engineering Breadth, available from [www.assist.org](http://www.assist.org).

**UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD) (2022-2023)**

**BS CSE: Computer Science:** Computer Science 2, 3; Math 190, 191, 210, 220, 270; Select 2 courses from the following: Biology 110, 120; Chemistry 1A, 1B; Physics 1A, 1C

**BS CSE: Computer Science with specialization in Bioinformatics:** Computer Science 2, 3; Math 190, 191, 220, 270; Physics 1A; Biology 110, 120; Chemistry 1A, 1B, 7A

**BS Mathematics/Computer Science:** Computer Science 2, 3, Math 190, 191, 220, 270

**UNIVERSITY OF CALIFORNIA, SANTA CRUZ (UCSC) (2023-2024)**

**BA Computer Science:** Computer Science 2, 16; Mathematics 190, 191, 210, 220, 270

**BS Computer Science:** Computer Science 2, 16; Mathematics 190, 191, 210, 220, 270

**BS Computer Science: Computer Game Design:** Computer Science 2, 14, 16; Mathematics 190, 191, 210, 270;

**Note:** Transfer students are strongly encouraged to complete as many major preparatory courses as possible prior to enrolling at UCSC. Completion of all major preparatory courses is not an admissions requirement, but some majors require certain courses to be completed prior to transfer with a specified GPA, and completion or near completion of major preparatory courses will help students move more efficiently toward graduation after transfer.

**UNIVERSITY OF SOUTHERN CALIFORNIA (USC)**

For the B.S. in Computer Science, B.S. in Computer Engineering, B.S. Computer Science Games, and B.S. Computer Science/Business Administration please refer to the transfer planning guide on USC's website

**Useful Links:**

Transfer Planning Guide <https://camel2.usc.edu/TPG/SelectPgAgrmnt.aspx>

Articulation Agreements: <https://camel2.usc.edu/articagrmnt/artic.aspx>

Viterbi Admissions: <https://viterbiadmission.usc.edu/transfer/#stepstotransfer>