



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

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) (2021-2022)

BS Computer Science: Computer Science 2, 3, and 16; Mathematics 190, 191; 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) (2021-2022)

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, 101, 102; Geology 1, 3, 2 & 4; Chemistry 1A, 1B; Math 220, 270.

CALIFORNIA STATE UNIVERSITY, LONG BEACH (CSULB) (2021-2022)

BS Computer Science: Computer Science 2, 3; Engineering 1; Math 190, 191; 8 units of science approved electives from the following: Chemistry 1A or Physics 1A,1B (remaining units are to be taken from Biology 10 or Biology 17 & 18 **or** Anatomy 30 **or** Physiology 3 **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) (2021-2022)

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) (2021-2022)

BS Computer Science: Computer Science 1, 2, 16; Mathematics 190, 191, 210*; Select one sequence from: Biology 101 & 102 **or** Chemistry 1A & 1B **or** Physics 1A & 1C. Select an additional science course outside of the sequence previously selected with corresponding lab: Biology 101, Chemistry 1A, Geography 1 & 6, Geography 9, Geology 1 & 3, Geology 2 & 4, Physics 1A

CALIFORNIA STATE UNIVERSITY, POMONA (CPP) (2021-2022)

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, 210, 270; Physics 1A & 1C; one math course: either Math 150 **or** Psychology 9A **or** Sociology 109. 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 (2021-2022)

BS Computer Science: Computer Science 1 or 3, 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; One additional science elective from: Biology 8, 10, or 102, or Chemistry 1A or 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) (2021-2022)

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. 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.

UNIVERSITY OF CALIFORNIA, DAVIS (UCD) (2021-2022)

BS Computer Science: Computer Science 1 or 3, 30; Mathematics 190, 191, 210, 220, 270; Select 3 courses from the following: Biology 101, 102; Chemistry 1A, 1B; Physics 1A, 1B, 1C, 1D

Notes: Transfer students must earn an overall transfer GPA of 3.10 or higher to be competitive candidates for admission to this major. Strive to achieve your highest possible GPA in order 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) (2021-2022)

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

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

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

BS Data Science: Computer Science 1, 30; Math 190, 191, 220, 270, 210; Math 150 or Psychology 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) (2021-2022)

BS Computer Science: Computer Science 1 or 3, 2, 30; Math 190, 191, 210, 220, 270; Physics 1A-1B-1C;

BS Computer Science with Business Applications: Computer Science 1 or 3; Math 190, 191; Business 1A; 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.

UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD) (2021-2022)

BS CSE: Computer Science: Computer Science 2, 3; Math 190, 191, 210, 220, 270; Select 2 courses from the following: Biology 101, 102; 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 101, 102; Chemistry 1A, 1B, 7A

BS Mathematics/Computer Science: Computer Science 2, 3, Math 190, 191, 210, 220, 270

UNIVERSITY OF CALIFORNIA, SANTA CRUZ (UCSC) (2021-2022)

A 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>