Articulation Office – Counseling Services & Special Programs

ADVISEMENT INFORMATION FOR TRANSFER MAJORS

COMPUTER SCIENCE (CSUF, CSULB, SDSU, UCI, UCLA, UCSD)

Computer Science provides an in-depth study of computer science fundamentals and practice including: programming, operating systems, computer architecture, languages and translators, database systems, telecommunications, and software engineering.

Graduates of the Computer Science program are sought by the computer industry for positions as systems engineers, software engineers, applications programmers, program analysts, and sales representatives. Students interested in business applications should also refer to the Management Science/Information Systems options available under majors in Business Administration.

Listed below are Saddleback College (SC) courses that have been articulated with selected example universities, and represents lower-division preparation for the major. In addition, students are advised to complete General Education requirements prior to transfer.

Articulation agreements can change without notice at any point during your time at Saddleback College. Please refer to the college catalogs and websites of the transfer schools you are considering, as well as the state-wide articulation database for CSU and UC campuses, www.assist.org, for the most current information. Students are urged to contact a Saddleback College counselor to review this information on a regular basis.

THE FOLLOWING INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

CSU FULLERTON

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Each Computer Science major is required to complete a minimum of 124 units including general education. *A maximum of six (6) units of a grade of "D-" (.7) through "D+" (1.3) can count towards the Computer Science technical elective track,* mathematic and science courses only. ***A "C" average (2.0) and a grade of "C-" (1.7) or better is required in all courses applied to the major. Note: CSUF GE variation for CPSC majors waives lifelong learning requirement (area IV) and requires only 3 units for the development of world civilization (area II.A).***

All Computer Science students must select an elective track aimed at your specific career goals. There are five (5) tracks to choose from: Multimedia & Digital Game Technologies Track; Internet & Enterprise Computing Technologies Track; Software Engineering Track; Scientific Computing Track; and Customized Track.

Lower-Division Core Requirements: CIM 2A, CS 1B, 1D

Lower-Division Requirements in Related Fields:

Mathematics Requirements: MATH 3A, 3B; ***(Additional "Scientific Computing Track" Requirements):*** MATH 3C **and** MATH (24 **and** 26)

Physical Science Requirements: PHYS (4A **and** 4B) **or** CHEM (1A **and** CHEM 1B) **or** GEOL (1 **and** 2)

Biological Science Requirement: BIO 20

Students are advised to refer to the CSU Fullerton catalog, ASSIST at: **www.assist.org**, and the Department of Computer Science website at **http://cs.fullerton.edu/** for further information regarding this major.

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CSU LONG BEACH

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
Lower-Division Requirements: CS 1B, 1D, MATH 3A; PHYS 4A, 4B

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Lower-Division Requirements: CS 1B, CS 1D, MATH 3A, 26; CHEM (1A **and** 1B) **or** PHYS (4A **and** 4B)

Refer to the CSU Long Beach catalog, ASSIST at **www.assist.org**, and the Department of Computer Engineering & Computer Science (CECS) website at **www.csulb.edu/colleges/coe/cecs/** for additional information regarding program requirements.

SAN DIEGO STATE UNIVERSITY

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Lower-Division Preparation: CS 1B, 2B, (3A **and** 3B); MATH 3A, 3B, 10, 26; ***AND select one (1) sequence from the following:*** (BIO 3A **and** 3B **and** 3C) **or** (CHEM 1A **and** 1B); PHYS (4A **and** 4B)

Refer to the San Diego State University catalog, ASSIST at: **www.assist.org**, the San Diego State University Transfer Admission Planner website at **https://sunspot.sdsu.edu/pubred/!tap.disp** and the Department of Computer Science website at **http://arweb.sdsu.edu/es/admissions/ab/computerscience.htm** for information on selection criteria and program requirements.

UC IRVINE

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Students should select UC-transferable courses that do not focus strictly on learning a programming language but instead focus on topics such as object-oriented design, data structures, algorithms, and computer architecture, if such courses are available. *JAVA is strongly recommended as it is used in most programming-related courses.

Lower-Division Preparation: CS (1A **and** 4A **and** 4B), CS (1D **and** 4A **and** 4B), CS (3A **and** 3B); MATH (3A **and** 3B), 26; PHIL 12; ***AND three-quarter science sequence chosen from different disciplines:*** (BIO 3A **and** 3B) **or** (CHEM 1A **and** 1B) **or** (PHYS 4A **and** 4B) **or** (PHYS 4A **and** 4C)

BACHELOR OF SCIENCE IN INFORMATION AND COMPUTER SCIENCE (ICS)

****JAVA is strongly recommended as it is used in most programming-related courses. Students who transfer to UCI in need of completing any part of the sequence may find that it will take longer than two (2) years to complete their degree. There are also other transfer options available only through the ICS Student Affairs Office. Call (949) 824-5156 for more information.***

Lower-Division Preparation: CS (1A **and** 4A **and** 4B), CS (1D **and** 4A **and** 4B), CS (3A **and** 3B); MATH (3A **and** 3B), 26

Refer to the UC Irvine catalog, ASSIST at **www.assist.org**, and the Department of Computer Science website at **www.ics.uci.edu/computerscience/** for further details regarding both majors and UCI General Education Breadth requirements.

UC LOS ANGELES

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Admission to the Henry Samueli School of Engineering and Applied Science (HSSEAS) at UCLA is highly competitive. *The most important selection criteria are completion of the required preparatory courses and academic performance. A minimum UC-transferable cumulative GPA of 3.20 is required for consideration.* ***While IGETC certification is not recognized by (HSSEAS), students may reference the IGETC course list to make their course selections. For more information regarding this major and UCLA's transfer selection process, please refer to the following websites: www.engineer.ucla.edu and www.admissions.ucla.edu***

Lower-Division Requirements: CHEM 1A; MATH 3A, 3B, 3C, 24, 26; ENG(1A **and** ENG 1B); *PHYS (4A **and** 4B **and** 4C)

***NOTE:** Physics Series should be completed at one community college or at a community college within the same district where courses are exact equivalents.

Refer to the UC Los Angeles catalog and ASSIST at **www.assist.org** for additional information regarding this major. If you still have specific questions, you may email the (HSSEAS) admission office at **erkki@ea.ucla.edu.**

UC SAN DIEGO

IMPORTANT: ***Per UCSD, Science and Engineering (CSE) majors are highly impacted and subject to special screening criteria. For details regarding these programs and GPA requirements, refer to the UCSD catalog, ASSIST at www.assist.org, and the Department of Computer Science and Engineering website at: www.cse.ucsd.edu/index.php*** and ***www.cse.ucsd.edu/undergrad/undergradeduhome.html***.

BACHELOR OF ARTS IN COMPUTER SCIENCE

Lower-Division Preparation: CS (3A **and** 3B), (4A **and** 4B), 1D; MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Lower-Division Preparation: CS (3A **and** 3B), (4A **and** 4B), CS 1D, MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Lower-Division Preparation: CS (3A **and** 3B), (4A **and** 4B), CS 1D, MATH 3A, 3B, 3C, 24, 26; PHYS 4A, 4B, 4C

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NOTES:

- As each college/university has its own orientation to their Computer Science major, read the entire Computer Science major section in the catalog of each college/university to which you are considering transferring. Pay particular attention to the upper-division requirements.
- Contact each college/university that you are interested in. Ask them to send you information about their Computer Science program; selection criteria, GPA requirements, and other pertinent admissions information. Also, ask for information about their campus, services, housing, etc. Meet with college/university representatives when they visit Saddleback College.
- Visit each school to which you are considering transferring.
- Research careers related to your chosen major.
- For additional transfer information, consult Saddleback College's Transfer Student Home Page: **www.saddleback.edu/ss/tc/TRANSFERSTUDENTPAGE.html**, and ASSIST for CSU and UC campuses: **www.assist.org**