



# COMPUTER SCIENCE

## Transfer Major Advisement

SAC COURSES	CAL POLY POMONA*	CSU FULLERTON*	CSU LONG BEACH*	UC IRVINE	
				ICS	COMP SCI
COMPUTER SCIENCE 111, COMPUTER ORG		X	X	X	X
COMPUTER SCIENCE 112, JAVA PROG	X	2.2	3.1	X	X
COMPUTER SCIENCE 119, ASSEMBLY PROG	X		X	X	X
COMPUTER SCIENCE 121, PROG CONCEPTS		X	3.1	X	X
COMPUTER SCIENCE 131, DATA STRUCTURES	X	X	X	X	X
MATHEMATICS 180, CALCULUS	X	X	X	X	X
MATHEMATICS 185, CALCULUS	X	X		X	X
MATHEMATICS 280, INTER CALCULUS	X	2.2			
MATHEMATICS 290, LINEAR ALGEBRA	X	2.2	X	X	X
MATHEMATICS 295, DIFF EQUATIONS	X	2.2			
PHYSICS 217, ENGR PHYSICS	X	2.1	3.2		
PHYSICS 227, ENGR PHYSICS	X	2.1	3.2		
PHYSICS 237, ENGR PHYSICS	X				
OTHER	1.1	2.1, 2.2	3.2	4.1, 4.2	4.1, 4.3

X = Lower division preparation for the major.

\* = See Business Administration for Information Systems major requirements.

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| <p>1.1 <b>CPP:</b> Add Biology 109+109L.</p> <p>2.1 <b>CSUF:</b> Requirements in Related Fields: <i>Physical Science</i> (8 units)– Take one of the following combinations: Physics 217 &amp; 227; or Chemistry 219 &amp; 229; or Geology 101, 101L &amp; 201. <i>Biological Science</i> (3 units)–Take Biology 109 and 109L. A maximum of 6 units of grade “D” can count towards the elective track, mathematics, and science courses only. A grade of “C” or better is required in all courses applied to the major.</p> <p>2.2 <b>CSUF:</b> Take Computer Science 105 or 112 or 213. Students must select one of five tracks: Multimedia and Digital Game Technologies, Internet and Enterprise Computing Technologies, Software Engineering, Scientific Computing or Customized. For the Scientific computing track add Mathematics 280, 290, and 295.</p> <p>3.1 <b>CSULB:</b> Take Computer Science 112 or 121.</p> <p>3.2 <b>CSULB:</b> Add a minimum of 12 units of approved science electives to include either (Chemistry 219+229) or (Physics 217+227).</p> | <p>4.1 <b>UCI:</b> It is strongly recommended that transfer students enter UCI with knowledge of Java. Preference will be given to junior-level applicants with the highest grades overall, and who have satisfactorily completed the following required courses: 1) one year of college math consisting of courses equivalent to one year of discrete math if available; if not, first-year calculus; and 2) completion of one year of transferable computer science courses, including a least one course involving the concepts of object oriented programming. Additional coursework beyond the two courses required for admission is strongly recommended.</p> <p>4.2 <b>UCI:</b> Students may choose upper-division specializations in artificial intelligence, computer systems, implementation and analysis of algorithms, information systems, networks and distributed systems, or software systems.</p> <p>4.3 <b>UCI:</b> Add Philosophy 111. Add a sequence chosen from Physics (210+211) or (217+227) or (217+237) or Chemistry (219+229) or Biology 211+ (212 or 214).</p> |
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The major preparation listed above ONLY includes courses for which articulation exists. This information is based upon university course articulation and catalog information available at the time of publication. It is to be used as a guide for lower division preparation for the major and not as an official document. **It is the student's responsibility to check the current catalog and articulation for any additional course requirements, or for any changes which may occur. Students are advised to consult with a SAC counselor. Additional articulation information can be obtained at [www.assist.org](http://www.assist.org). (01/09)**