



CHEMISTRY

Transfer Major Advisement

SAC COURSES	CAL POLY POMONA	CSU FULLERTON	CSU LONG BEACH	UC IRVINE
BIOLOGY 211, CELLULAR/MOLECULAR	X	2.2	3.1, 3.2	
CHEMISTRY 219, GENERAL	X	X	X	X
CHEMISTRY 229, GENERAL	X	X	X	X
CHEMISTRY 239, QUANTITATIVE ANALYSIS	X		X	X
CHEMISTRY 249, ORGANIC CHEMISTRY I		2.1, 2.2		X
CHEMISTRY 259, ORGANIC CHEMISTRY II		2.1, 2.2		X
MATHEMATICS 180, ANALYTIC GEOMETRY/CALCULUS	X	X	X	X
MATHEMATICS 185, ANALYTIC GEOMETRY/CALCULUS	X	X	X	X
MATHEMATICS 280, INTERMEDIATE CALCULUS		2.1		X
PHYSICS 217, ENGINEERING PHYSICS I	X	2.1	3.1, 3.2	X
PHYSICS 227, ENGINEERING PHYSICS II	X	2.1	3.1, 3.2	X
PHYSICS 237, ENGINEERING PHYSICS III	X	2.1	3.1	
PHYSICS 279, COLLEGE PHYSICS I		2.1, 2.2	3.1, 3.2	
PHYSICS 289, COLLEGE PHYSICS II		2.1, 2.2	3.1, 3.2	
OTHER	1.1	2.1, 2.2	3.1, 3.2	4.1

X = Lower division preparation for the major.

- 1.1 **CPP:** Add Computer Science (121 or 213), Math 295, and Biology 211. Chemical Sciences, Industrial Chemistry, and Molecular Modeling and Simulation options are also offered. See www.assist.org for requirements for these options.
- 2.1 **CSUF:** *Bachelor of Science*—Take Physics 217, 227, 237 and add Math 280, 290 and 295. *Bachelor of Arts*—Take Physics 279 and 289, or 210 and 211. One year of foreign language (German, French, or Russian) is recommended for those students going on to graduate work. For both B.S. and B.A. take Chemistry 249 and 259 in lieu of upper division Organic Chemistry at CSUF. No upper division credit for 249 and 259 will be granted.
- 2.2 **CSUF:** *Bio-Chemistry*—Take Physics (279 and 289), or (210 and 211). Add Biology 211. Take Chemistry 249 and 259 in lieu of Chemistry 301A, 301B, 302A, and 302B at CSUF. No upper division credit for 249 and 259 will be granted.

- 3.1 **CSULB:** *Bachelor of Science*—Take Physics 217 and 227 and 237. Add Math 280 and Biology 212 and 214. *Bachelor of Arts*—Take Physics (279 and 289), or (217 and 227).
- 3.2 **CSULB:** *Bachelor of Science in Biochemistry*—Add Physics 279 and 289, or 217 and 227. Add Biology 211, 212, and 214.
- 4.1 **UCI:** Preference will be given to junior-level applicants with the highest grades overall, and who have satisfactorily completed one year of calculus and one year of general chemistry with laboratory. Optional concentrations are offered in Biochemistry and Chemistry Education.

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. (01/09)**