

## Guideline for Majors at Nearby 4 Year Institutions

**Major: *BIOCHEMISTRY***

Riverside Community College  
Counseling Department  
2009-2010

Date: 1/10

**NOTE: This Articulation Agreement is subject to periodic revision. Please consult the ASSIST website, [www.assist.org](http://www.assist.org), for up-to-date information.**

College or University	Transfer Requirements	Units	RCC Equivalents	Units	Remarks
<b>UC RIVERSIDE</b> 2009-2010	MATH 9ABC	4,4,4	MAT 1A,1B	4,4	*Grades of 'B' or higher required
	CHEM 1ABC	4,4,4	CHE 1A or 1AH, 1B or 1BH	5,5	
	BIOL 5ABC	4,4,4	BIO 11,12	5,5	<i>-IGETC not accepted.</i> Follow Coll. of Nat. & Ag. Sci. gen. ed. reqt's
	PHYSICS	15	PHY 4ABC or 2AB	8-12	
	CHEM (organic)	4,4,4	*CHE 12A,12B	5,5	
<b>NOTE:</b> An overall gpa of 2.70 in all transferable courses is required. In addition to Chem 1AB and Math 1AB, a third sequence (from either Biology or Physics or Organic Chemistry) must be completed prior to transfer.					<i>-Prioritize major reqt's above gen. educ.</i>
<b>CSU FULLERTON</b> 2009-2011	<u>B.S.degree:</u> CHEM 120AB	5,5	CHE 1A,1B	5,5	Recommended: BIO 12
	PHYS 211,212	4,4	PHY 2A,2B	4,4	
	MATH 150AB	4,4	MAT 1A,1B	4,4	
	Organic Chemistry	4,4	CHE 12A,12B	5,5	
	BIOL 172	5	BIO 11	5	
<b>CSU LONG BEACH</b> 2009-2010	CHEM 111AB	5,5	CHE 1A,1B	5,5	
	PHYS	4,4	PHY 2A,2B or 4A,4B	4,4	
	MATH 122,123	4,4	MAT 1A,1B	4,4	
	BIOL 211A,211B	5,5	BIO 11,12	5,5	
<b>CSU SAN BERNARDINO</b> 2009-2010	<u>B.S. degree:</u> CHEM 215,216	6,6	CHE 1A or 1AH CHE 1B or 1BH	5 5	**additional upper division options available at CSUSB
	**Organic Chem	12	**CHE 12A,12B	5,5	
	MATH 211-213	4,4	MAT 1A,1B	4,4	
	PHYS	5,5,5	PHY 4ABC or 2AB	8-12	
	BIOL 200-202	5,5,5	BIO 2AB,5,11 or 11,12	5,5,4,5 5,5	

College or University	Transfer Requirements	Units	RCC Equivalents	Units	Remarks
SAN DIEGO STATE UNIV. 2008-2009	CHEM 200	5	CHE 1A or 1AH	5	
	CHEM 201	5	CHE 1B or 1BH	5	
	CHEM 231	4	CHE 12A	5	
	BIO 201B	4	BIO 12	5	
	MATH 150,151,252	13	MAT 1A,1B,1C	4,4,4	
PHYS 195-196	8	PHY 4A,4B	8		

**THE MAJOR:**

Chemistry is concerned with the composition, structure, and properties of substances, the transformations of these substances into others by reactions, and the kinds of energy changes that accompany these reactions. Biochemists study the composition and actions of chemicals in living organisms.

The Biochemistry major is designed to prepare students for graduate studies, for entry into professional schools in the health sciences, and for careers in industries and businesses that depend on chemically based technology.

Biochemistry attempts to define living systems and processes in chemical terms. Its studies range from the determination of the three dimensional arrangement of atoms of complete molecules and how structure determines biological function, to the molecular understanding of such complex processes as development, mutagenesis, pathogenesis, and aging. Biochemistry provides an excellent foundation for research and teaching in the life sciences as well as for further study leading to professional work in any aspect of the health or environmental sciences.

**CAREER FIELDS:**

Biochemist	Health Administrator
Chemical Lab Technician	Medical Librarian
Chemist	Pharmacologist
Criminologist	Public Health Educator

*For further information on career options, please visit the Career Center.*