

**San Francisco State University**  
**Degree Roadmap: Bulletin Year 2007 - 2008**

February 21, 2008

**BS Degree in Biochemistry (670703)**

Minimum Number of Units in Major = 71

Bulletin URL: <http://www.sfsu.edu/~bulletin/current/programs/chemist.htm#670703> Key to Course Abbreviations: <http://www.sfsu.edu/~admisrec/reg/noindex/crsabbrev.html>

1st Semester Requirements		
Requirement	Recommended Courses	Units
Basic Information Competence		
Written English Proficiency	ENG 114	3
GE 1 Oral Communication	COMM 150	3
GE 2 Physical and Biological Sciences, Category A also satisfies Major Lower Division (See Note 1)	PHYS 111	3
Major Lower Division (See Note 1)	PHYS 112	1
Major Lower Division	CHEM 115	5
Note: Review the Bulletin for GE II requirement in the following areas: LLD-Lifelong Development; AERM-American Ethnic and Racial Minorities; L/F-Laboratory or Fieldwork		<b>Totals: 15</b>
2nd Semester Requirements		
Requirement	Recommended Courses	Units
GE 1 Critical Thinking		3
GE 2 Humanities and Creative Arts		3
Major Lower Division (See Note 1)	PHYS 121 & PHYS 122	4
Major Upper Division	CHEM 333 & CHEM 334	5
		<b>Totals: 15</b>
3rd Semester Requirements		
Requirement	Recommended Courses	Units
GE 1 Written Communication also satisfies University Written English Proficiency		3
GE 1 Quantitative Reasoning also satisfies Major Lower Division	MATH 226	4
GE 2 Physical and Biological Sciences, Category B also satisfies Major Lower Division	BIOL 230	5
Major Upper Division	CHEM 335	3
		<b>Totals: 15</b>
4th Semester Requirements		
Requirement	Recommended Courses	Units
GE 2 Behavioral and Social Sciences		3
GE 2 Humanities and Creative Arts		3
Major Lower Division	CHEM 215 & CHEM 216	5
Major Lower Division	MATH 227	4
Note: Take JEPET after 48 units earned to satisfy Written English Proficiency.		<b>Totals: 15</b>
5th Semester Requirements		
Requirement	Recommended Courses	Units
Written English Proficiency (if required)	ENG 414	0 to 3
GE 2 Physical and Biological Sciences, Category C		3
GE 2 Behavioral and Social Sciences		3
GE 2 Humanities and Creative Arts		3
Major Upper Division	CHEM 320	4
Major Upper Division	CHEM 340	3
		<b>Totals: 16 to 19</b>
6th Semester Requirements		
Requirement	Recommended Courses	Units
US History		3
GE 2 Behavioral and Social Sciences		3
GE 3		3
Major Upper Division	CHEM 341	3
Major Upper Division	CHEM 343	3
		<b>Totals: 15</b>
7th Semester Requirements		
Requirement	Recommended Courses	Units
US Government and California		3
GE 3		3
Major Upper Division (See Notes 2 & 3)	CHEM 300	3
Major Upper Division Elective (on advisement, see Note 5)		7
		<b>Totals: 16</b>
8th Semester Requirements		
Requirement	Recommended Courses	Units
GE 3		3
Major Upper Division (See Notes 2 & 4)	CHEM 301	3
Major Upper Division Elective (on advisement, see Note 5)		6
University Elective		0 to 2
		<b>Totals: 12 to 14</b>

Note: All courses required for the major must be completed with grades of C- or better.

Note 1: PHYS 220/222 and PHYS 240/242 may be substituted for PHYS 111/112 and PHYS 121/122.

Note 2: CHEM 351 and 353 may be substituted for CHEM 300 and 301 upon advisement.

Note 3: This course typically offered fall semester only.

Note 4: This course typically offered spring semester only.

Note 5: Consult with a major advisor regarding appropriate choice of major electives and be sure to check course prerequisites before enrolling.

Department Website: <http://www.chemistry.sfsu.edu/>