

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
1st Semester Total		15

Note: Review the Bulletin for GE II requirements in the following areas:
 LLD-Lifelong Development; AERM-American Ethnic and Racial Minorities; L/F-Laboratory or Fieldwork

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
2nd Semester Total		15

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
3rd Semester Total		15

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
4th Semester Total		15

5th Semester Requirements

Requirement	Recommended Courses	Units
University Written Eng Proficiency/GWAR		3
GE 2 Physical and Biological Sciences (If necessary to achieve 9 units)		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
5th Semester Total		19

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
6th Semester Total		15

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
7th Semester Total		16

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
8th Semester Total		12 to 14

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.

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>

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/>