

**San Francisco State University**  
**Degree Roadmap: Bulletin Year 2008 - 2009**

May 22, 2008

**BA Degree in Chemistry (671501)**

Minimum Number of Units in Major = 56

Bulletin URL: <http://www.sfsu.edu/~bulletin/current/programs/chemist.htm#671501> 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	CHEM 115	5
Major Lower Division (See Note 1)	PHYS 111 & PHYS 112	4
<b>Totals:</b>		<b>15</b>

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

**2nd Semester Requirements**

Requirement	Recommended Courses	Units
GE 1 Critical Thinking		3
Major Lower Division (See Note 1)	PHYS 121 & PHYS 122	4
Major Upper Division	CHEM 333 & CHEM 334	5
University Elective		3
<b>Totals:</b>		<b>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 Humanities and Creative Arts		3
Major Upper Division (See Note 2)	CHEM 335 & CHEM 336	6
<b>Totals:</b>		<b>16</b>

**4th Semester Requirements**

Requirement	Recommended Courses	Units
GE 2 Physical and Biological Sciences, Category B		3
GE 2 Behavioral and Social Sciences		3
Major Lower Division	CHEM 215 & CHEM 216	5
Major Lower Division	MATH 227	4
<b>Totals:</b>		<b>15</b>

**5th Semester Requirements**

Requirement	Recommended Courses	Units
University UD Written English Proficiency or University Elective		3
GE 2 Behavioral and Social Sciences		3
GE 2 Humanities and Creative Arts		3
Major Upper Division	CHEM 320	4
<b>Totals:</b>		<b>13</b>

**6th Semester Requirements**

Requirement	Recommended Courses	Units
US History		3
GE 2 Humanities and Creative Arts		3
GE 3		3
Major Upper Division	CHEM 422	4
Major Upper Division (See Notes 3 & 6)	CHEM 349	3
<b>Totals:</b>		<b>16</b>

**7th Semester Requirements**

Requirement	Recommended Courses	Units
US Government and California		3
GE 2 Physical and Biological Sciences, Category C		3
GE 3		3
Major Upper Division (See Notes 4 and 5)	CHEM 300	3
Major Upper Division Elective (on advisement, see Note 7)		2 to 3
<b>Totals:</b>		<b>14 to 15</b>

**8th Semester Requirements**

Requirement	Recommended Courses	Units
GE 2 Behavioral and Social Sciences		3
GE 3		3
Major Upper Division (See Notes 4 & 6)	CHEM 301	3
University Elective		6 to 7
<b>Totals:</b>		<b>15 to 16</b>

Note: All courses required for the major must be completed with grade of C- or better with one exception

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

Note 2: CHEM 338 may be substituted for CHEM 336.

Note 3: CHEM 340 may be substituted for CHEM 349.

Note 4: CHEM 351 and 353 may be substituted for CHEM 300 and 301 upon advisement.

Note 5: This course typically offered fall semester only.

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Note 6: This course typically offered spring semester only.

Note 7: 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/>