

San Francisco State University
Degree Roadmap: Bulletin Year 2008 - 2009
BS Degree in Biology - Marine Biology and Limnology (671119)

February 13, 2009

Minimum Number of Units in Major = 67

Bulletin URL: <http://www.sfsu.edu/~bulletin/current/programs/biologv.htm#671119> Key to Course Abbreviations: <http://www.sfsu.edu/~admisrec/reg/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 1 Quantitative Reasoning also satisfies Major Lower Division	MATH 226	4
Major Lower Division	CHEM 115	5
Totals:		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 Physical and Biological Sciences, Category A also satisfies Major Lower Division	PHYS 111	3
GE 2 Physical and Biological Sciences, Category B also satisfies Major Lower Division	BIOL 230	5
GE 2 Behavioral and Social Sciences		3
Major Lower Division	PHYS 112	1
Totals:		15

3rd Semester Requirements

Requirement	Recommended Courses	Units
GE 1 Written Communication also satisfies University Written English Proficiency	ENG 214	3
GE 2 Behavioral and Social Sciences		3
Major Lower Division	BIOL 240	5
Major Lower Division	CHEM 215 & CHEM 216	5
Totals:		16

4th Semester Requirements

Requirement	Recommended Courses	Units
US Government and California		3
GE 2 Physical and Biological Sciences, Category C		3
GE 2 Humanities and Creative Arts		3
Major Lower Division	MATH 227 or PHYS 121 & PHYS 122	4
Major Lower Division	CHEM 130	3
Totals:		16

5th Semester Requirements

Requirement	Recommended Courses	Units
US History		3
GE 2 Humanities and Creative Arts		3
GE 3		3
Major Upper Division	BIOL 355	3
Major Upper Division	BIOL 458	4
Totals:		16

6th Semester Requirements

Requirement	Recommended Courses	Units
University Elective or University UD Written English Proficiency		3
GE 2 Behavioral and Social Sciences		3
Major Upper Division	BIOL 337	3
Major Upper Division	BIOL 525 or BIOL 630	3
University Elective		3
Totals:		15

7th Semester Requirements

Requirement	Recommended Courses	Units
GE 2 Humanities and Creative Arts		3
GE 3		3
Major Upper Division	BIOL 534 or BIOL 580 or BIOL 582 or BIOL 585 & BIOL 586	3 to 5
Major Upper Division Elective (on Advisement)		3 to 5
Major Upper Division Elective (on Advisement)		3 to 5
Totals:		15 to 21

8th Semester Requirements

Requirement	Recommended Courses	Units
GE 3		3
Major Upper Division	BIOL 534 or BIOL 580 or BIOL 582 or BIOL 585 & BIOL 586	3 to 5
Major Upper Division Elective (on Advisement)		3 to 5
Major Upper Division Elective (on Advisement)		3 to 5
Totals:		12 to 18

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Note: A minimum of 40 upper division units must be completed for degree.

This roadmap is a recommendation only. It is designed so that no more than two majors science classes are taken in most semesters. Meet with a major advisor early to develop a customized course plan and to determine whether you can take a course earlier or later if desired.

Department Website: <http://www.sfsu.edu/~biology/>