

Recommended Coursework Strategy for B.S. in Marine Biology & Limnology - 4 year plan

Year 1		Year 2		Year 3		Year 4	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Chem 115 Gen Chem I (5)	Biol 230 Gen Biology I (5)	Biol 240 Gen Biology II (5)	Chem 130 Gen Org Chem (3)	Biol 355 Genetics (3)	Biol 337 Evolution (3)	Upper Division Requirement**	Upper Division Requirement**
Math 226* Calculus I (4)	Phys 111/112* Phys I+lab (3/1)	Chem215/216* Gen ChemII+lab (3/2)	Math 227* Calculus II* (4) OR Phys 121/122* Phys II+lab (3/1)	Biol 458 Biometry (4)	Biol 525 Plant Physiology (3) OR Biol 630 Animal Physiology (3)	Elective I***	Elective III***
						Elective II***	Elective IV***

***Lower Division Requirement includes 16 – 17 units selected from**

MATH 226 Calculus I (4)

MATH 227 Calculus II (4)

PHYS 111/112 General Physics I/Laboratory (3/1)

PHYS 121/122 General Physics II/Laboratory (3/1)

CHEM 215/216 General Chemistry II (3/2) Prereq: C or better in CHEM 115 and C- or better in 2 of the following courses:

PHYS 111, PHYS 121; PHYS 220, PHYS 230, or PHYS 240; MATH 226, MATH 227

****Upper Division Requirement includes 3 – 5 units selected from (courses offered different semesters)**

BIOL 534 Wetland Ecology (4)

BIOL 580 Limnology (3)

BIOL 582 Biological Oceanography (4)

BIOL 585/586 Marine Ecology/Laboratory (3/2)

*****Upper Division Requirement of 14 – 17 Elective units: obtain approval from major advisor before taking elective classes.**

Elective courses include courses from the alternates not used in fulfilling the requirements listed above or from below:

BIOL 450 Biology of the Protozoa

BIOL 451 Protozoology Laboratory (2)

BIOL 502 Biology of the Algae

BIOL 526 Plant Physiology Laboratory (2)

BIOL 532 Restoration Ecology (3)

BIOL 535 Remote Sensing of Wetlands and Coastal Zones (4)

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BIOL 555	Marine Invertebrate Zoology (4)
BIOL 556	Natural History of Marine Invertebrates (4)
BIOL 570	Biology of Fishes (4)
BIOL 575	Fisheries Biology
BIOL 583	Marine Microbial Ecology
BIOL 584	Marine Microbial Ecology Laboratory (1)
BIOL 585	Marine Ecology
BIOL 606	Behavior and Physiology of Marine Mammals
BIOL 631	Animal Physiology Laboratory (2)
GEOL 452	Coastal Processes
GEOL 465	Physical Oceanography
GEOL 642	Watershed Assessment (4)
MSCI 312-375	Any without duplicating courses taken at SFSU

This is a RECOMMENDATION only. It is designed so that two majors science classes are taken each semester (except in Year 4). It is certainly possible to take three science courses, if you can manage your time appropriately. Check the prerequisites of courses to see if you can take a course earlier in this scheme. Also, note that there is flexibility in the lower division requirements so that it is possible to schedule physics or calculus during the 3rd or 4th year—consult major advisor to customize this course plan.