

# Department of Biology Graduation Checklist

LD= \_\_\_\_\_ Student: \_\_\_\_\_ E-mail \_\_\_\_\_  
 UD= \_\_\_\_\_ Last First  
 Advisor: \_\_\_\_\_

## BACHELOR OF SCIENCE IN BIOLOGY: CONCENTRATION IN MARINE BIOLOGY AND LIMNOLOGY

<b>Lower Division Requirements (34-35 units)</b>		<i>Units</i>	<input type="checkbox"/>	<i>Equiv. Form if any (✓)</i>
BIOL 230	Introductory Biology I	5		
BIOL 240	Introductory Biology II	5		
CHEM 115	General Chemistry I: Essential Concepts of Chem.	5		
CHEM 130	General Organic Chemistry	3		

***Units selected from the following (16-17):***

CHEM 215/216	General Chemistry II: Quantitative AppL. of Chem. Concepts (3/2)			
MATH 226	Calculus I (4)			
MATH 227	Calculus II (4)			
PHYS 111/112	General Physics I and Laboratory (3/1)			
PHYS 121/122	General Physics II and Laboratory (3/1)			

***Total lower division requirements:.....*** **34-35**

### **Upper Division Requirements (32-33 units)**

BIOL 337	Evolution	3		
BIOL 355	Genetics	3		
BIOL 458	Biometry	4		

***Units selected from the following (3):***

BIOL 525	Plant Physiology (3)			
BIOL 630	Animal Physiology (3)			

***Units selected from the following (3-5):***

BIOL 534	Wetland Ecology (4)			
BIOL 580	Limnology (3)			
BIOL 582	Biological Oceanography (4)			
BIOL 585/586	Marine Ecology (3/2)			

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*Upper Division Electives:.....*

*14-17*

*NOTE: Upper division electives should be selected from alternatives not used in fulfilling the requirements listed above, or from the list below. Upon advisement, students may use other upper division biology courses or appropriate graduate courses as electives.*

BIOL 450	Biology of the Protozoa (3)			
BIOL 451	Protozoology Laboratory (2)			
BIOL 502	Biology of the Algae (3)			
BIOL 526	Plant Physiology Laboratory (2)			
BIOL 532	Restoration Ecology (3)			
BIOL 535	Remote Sensing of Wetlands and Coastal Zones (4)			
BIOL 555	Marine Invertebrate Zoology (4)			
BIOL 556	Natural History of Marine Invertebrates (4)			
BIOL 570	Biology of Fishes (4)			
BIOL 575	Fisheries Biology (3)			
BIOL 583	Marine Microbial Ecology (3)			
BIOL 584	Marine Microbial Ecology Laboratory (1)			
BIOL 585	Marine Ecology (3)			
BIOL 586	Marine Ecology Laboratory (2)			
BIOL 606	Behavior and Physiology of Marine Mammals (3)			
BIOL 631	Animal Physiology Laboratory (2)			
CHEM 680	Chemical Oceanography (3)			
GEOL 452	Coastal Processes (3)			
GEOL 642	Watershed Assessment (4)			
METR 465	Physical Oceanography (3)			
MSCI 312-375	Any without duplicating courses taken at SFSU			

<i>Course Num.</i>	<i>Course Title</i>	<i>Units</i>

	<i>Required</i>	<i>Completed</i>
<b>Total upper division requirements:</b>	<b>32-33</b>	_____
<b>Total for major</b>	<b>67</b>	_____