31-39

# **BIOLOGY, B.S. - MARINE BIOLOGY OPTION**

## Major in Biology, BS

**Total Hours** 

-		
Code	Title	Hours
CORE COURSES	(C- or higher required)	24
Foundations	of Biology - See Appendix 1	
BIOL 211	Concepts of Zoology	
BIOL 221	Concepts of Botany	
BIOL 343	Principles of Ecology & Evolution	
BIOL 362	Cell and Developmental Biology	
BIOL 364	Foundations of Genetics & Molecular Biology	
Option in Marine	e Biology - See separate block	

# Appendix 1. Foundations of Biology

Co	de	Title	Hours
Fo	undations of E	Biology C- or Higher	4
	BIOL 101	Foundations of Biology	

# **Concentration in Marine Biology**

Code Title Hours

Students majoring in Marine Biology are encouraged to consider completing a minor in Oceanography and, in consultation with their advisor, to take further courses in mathematics.

### **REQUIRED MARINE BIOLOGY COURSES**

Required Marine Biology (4 credits) - Choose 1 of the following options 1-2:

Option 1. Marine Biology			
Marine Biology			
tal Marine Biology and Problem Solving Marine Biol			
Coastal Marine Biology			
Problem Solving in Marine Biol			
Marine Invertebrates	3		
Biometry	3		
Ichthyology	3		
ography - Choose 1 of the following:	3		
Biological Oceanography			
Biological Oceanography			
e Biology	2		
Seminar In Biology			
undefined - Choose 5 hours from:			
	Marine Biology tal Marine Biology and Problem Solving Marine Biol Coastal Marine Biology Problem Solving in Marine Biol Marine Invertebrates Biometry Ichthyology ography - Choose 1 of the following: Biological Oceanography Biological Oceanography e Biology Seminar In Biology		

undefined - Choose 5 hours from:	!
Any 3-level BIOL course(s)	

Any 4-level BIOL course(s)

Note: This requirement may not be satisfied with BIOL 340 or BIOL 390.

In consultation with your advisor, choose additional courses at the 300-level or higher and approved for Biology majors to bring total credits in major to the minimum 47.

#### MARINE SCIENCE FIELD COURSES

undefined - Choose 2 classes totaling at least 6 hours from:

BIOL 293	Coastal Ornithology
BIOL 294	Coral Reef Ecology
BIOL 295	Marine Invertebrates
BIOL 296	Marine Ecology
BIOL 392	Marine Mammals
BIOL 397	Marine Botany
Any course(s)	with DWLOCATION = W
At least 2 cours	ses (6 credits) of a student's biology courses

(required marine biology or biology electives) must be taken at a marine field site. **Total Hours** 29

**PHYS 232** 

**Total Hours** 

# Req Related for Biology, BS

Code Hours

For Biology Majors the G2 block of the Liberal Arts Core will be fulfilled by your required related coursework.

#### **CHEMISTRY AND EARTH SCIENCES**

A C- or higher in CHEM 111 and 112 is a pre-requisite for CHEM 235. A C- or higher in CHEM 231 is a pre-requisite for CHEM 232. Students interested in graduate or professional school should take CHEM 231

Е	SCI 261	Introduction to Oceanography	4
С	HEM 111	Introductory Chemistry 1	4
С	HEM 112	Introductory Chemistry 2	4
0	rganic Chemistı	ry - Choose 1 of the following options 1-2:	4-8
	Option 1. Orga	nic Chemistry I and II	
	CHEM 231	Organic Chemistry 1	
	CHEM 232	Organic Chemistry 2	
	Option 2. Shor	t Course in Organic Chemistry	
	CHEM 235	Organic Chemistry	
	nvironmental Ch ollowing:	nem or Chem Oceanography - Choose 1 of the	3-4
	CHEM 375	Environmental Chemistry	
	ESCI 363	Chemical Oceanography	
N	IATHEMATICS F	FOR MARINE BIOLOGY	
Calculus for Mgt, Calculus I or Honors Calculus - Choose 1 of following:			4-5
	MATH 151	Calculus for Management	
	MATH 161	Calculus 1	
	MATH 163H	Honors Calculus 1	
P	HYSICS		
u	ndefined - Choo	se 1 of the following options 1-2:	8-10
	Option 1. Phys	sics with Algebra	
	PHYS 131	Physics 1 with Algebra	
	PHYS 132	Physics 2 with Algebra	
	Option 2. Physics with Calculus		
	PHYS 231	Physics 1 with Calculus	

Physics 2 with Calculus