

Name:

Student ID:

Date Admitted Into Major:

# **BACHELOR OF SCIENCE**

### BIOLOGY

### MARINE BIOLOGY CONCENTRATION

#### **GENERAL EDUCATION REQUIREMENTS**

Competencies

COURSES IN MAJOR (74-77 credits total)

Requir	ed (44	-45 cre	edits)

## ☐ ◆ Basic College Math ☐ ◆ Reading Comprehension

#### ★General Education Categories (34-35 credits total)

FYS	First Year Seminar				3	
♦W-I	Written Comr	nunication - Level I			3	
+OC	Oral Commun			3		
PGR	Personal Gro			3		
CEA	Creative Exp			3		
WC	World Culture			3		
HP	The Human F			3		
CS	Contemporary Society				3	
SR	Scientific				3-4	
SK	Reasoning:				4	
QR	Quantitative Reasoning				3	
<b>‡ Written Communication (Level II and Level III)</b>						
W-II	Written Communication - Level II					
W-III	Written Communication - Level III					

#### Free Electives (1 credit minimum total)

May be necessary to take additional credits to attain the minimum 120 credits required for graduation depending on choices made for general education or

minor selection.				

Required (44-45 credits)				
BIO	131	Introduction to Organisms	4	
BIO	132	Introduction to Cells	4	
BIO	208	Environmental Problems	3	
BIO	212	Cell Biology	4	
BIO	220	Evolutionary Morphology	3	
BIO	310	Invertebrate Zoology	4	
BIO	322	Biological Oceanography	4	
BIO	326	Marine Botany	4	
BIO	323	Fish Biology		
	or	or	3-4	
	341	Biology of Marine Mammals		
† BIO		Cell/Molecular or	4	
		Structure/Function elective		
BIO	402	Genetics	4	
BIO	415	Biology Seminar	3	

#### **Electives (3-4 credits)**

¶ BIO	Biology elective	3-4	

### **∇** Required Support Courses (11-12 credits total)

MAT	110	Pre-calculus		
	or	or	3-4	
	220	Calculus I		
◊ PHS	211A	College Physics I		
	or	or	4	
	221	General Physics I		
◊ PHS	212A	College Physics II		
	or	or	4	
	222	General Physics II		

#### Required Minor: Chemistry (16 credits total)

130 General Chemistry I CHE 4 CHF 131 General Chemistry II 4 4 CHE 212 Organic Chemistry I CHE 213 Organic Chemistry II 4

Students may choose to use support courses to satisfy general education categories, but may not be required to do so. Note: If a course is used to satisfy two or more requirements (for example, a support course and Scientific Reasoning requirement), the credits are counted in only one place. Using a course to satisfy more than one requirement does not reduce the credit total required for graduation.

Courses used to satisfy the general education requirements of the university must be taken from a minimum of six different academic disciplines. First Year Seminar and Level I Written Communications courses are exempt from this restriction. Courses may not be used to fulfill both major discipline and ٠ general education requirements.

These Scientific Reasoning General Education Category courses do not have to be a sequence or be from the same discipline. t

- Level II and Level III Written Communications Courses may be used to satisfy requirements anywhere else in a student's program of study where they may ‡ apply. The credits are counted only in one area.
- Electives within the major are to be chosen from 300 to 400 level courses, exclusive of BIO 304, 324, and 328. A maximum 4 credits from BIO 407, 408N, 416, 418, 420 or 422 may be used to fulfill one BIO Elective; additional credits will count as Free Electives. Secondary Education minors must select BIO ¶ 320, and one course in Geological Sciences.

The Cell/Molecular or Structure/Function elective must be chosen from 400-level courses AND have a laboratory.

The sequence can be either PHS 211A and 212A, or Physics 221 and 222.

	♦ COMPETENCIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS	♦ GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS
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Exceptions in the timing of courses will be made for transfer students

Total credits for graduation: 120

Effective: 9/2016