

Name:

Student ID:

Date Admitted Into Major:

# **BACHELOR OF SCIENCE** BIOLOGY

## MARINE BIOLOGY CONCENTRATION

### GENERAL EDUCATION REQUIREMENTS

## Competencies

□ ◆ Basic College Math

Reading Comprehension

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

♦FYS	First Year Sei			3		
♦W-I	Written Comn			3		
+OC	Oral Commun			3		
PGR	Personal Gro			3		
CEA	Creative Expr	ession & Appreciation			3	
WC	World Culture			3		
HP	The Human Past				3	
CS	Contemporary Society				3	
SR	Scientific				3-4	
SK	Reasoning:				4	
QR	Quantitative F	Reasoning		3		
‡ Writ		ication (Level II and r Dynamics and Soc			Diversit	y,
W-II	Written Communication - Level II					
W-III	Written Comn	nunication - Level III				
DPDS	Diversity, Pov Social Justice	ver Dynamics and				]

	Free Electives (8 credit minimum total) essary to take additional credits to attain the minimi graduation depending on choices made for genera minor selection.	

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		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	
	323	Fish Biology		
BIO	or		3-4	
	341	Biology of Marine Mammals		
† BIO		Cell/Molecular or	4	
1 010		Structure/Function elective	4	
BIO	402	Genetics	4	
BIO	415	Biology Seminar	3	

COURSES IN MAJOR (47-49 credits total)

### Electives (3-4 credits)

¶ BIO	Biology elective	3-4	

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

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

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

	CHE	130	General Chemistry I	4	
1	CHE	131	General Chemistry II	4	
	CHE	212	Organic Chemistry I	4	
	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 general education requirements.

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

Level II, Level III Written Communications and Diversity, Power Dynamics and Social Justice 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

Exceptions in the timing of courses will be made for transfer students

Total credits for graduation: 120

Effective: 9/2018