## Marine Biology - BS **EL MBIO BS**

#### THE UNIVERSITY OF RHODE ISLAND

Student:	
Student ID:	
Advisor.	

120 Credits Total

#### **ABOUT THE BS in MARINE BIOLOGY:**

The B S. Marine Biology allows students to explore the vast world of marine biology while providing an important foundation in modern biological sciences and other supporting sciences. It is designed for students who plan to work in marine biology, marine ecology, biological oceanography, marine conservation, or related fields at a professional level, or who wish to apply their training to a wide range of other exciting careers. We encourage students to participate in lab, field and shipboard research with faculty and other researchers and to develop and conduct original research in their areas of interest. Graduates get jobs in a variety of marine and environmental fields, or continue their education in graduate school in areas such as marine biology, oceanography and related fields; some students have gone on to Veterinary School. Please consult the Marine Biology website at: web.uri.edu/marbio.

		Co	urses for	Major (36 Credi	ts)
<b>BIOLOGY COUP</b>	RSE Requirement	: (17 credit	s)	MARINE BIOLOGY	ELE
Must earn a C or	better in BIO 101,	(balance of 36 credit			
Course	Semester	Credits	Grade	Choose from the for	llowi
*BIO 101 or 1011	1			courses- by approve	ed Cu
*BIO 102				Transfer Credit.	
*BIO 103				<b>BIO</b> : *256G, 308, 33	10, 3
*BIO 104				441, 455, 457, 485,	**46
BIO 130				<b>AFS</b> : 415, 486 <b>AV</b>	<b>S</b> : 4
BIO 352				OCE: 575 OC	<b>G</b> : 42
BIO 360				***Directed Resear	ch/S
			I	AFS, AVS, BIO 491, 4	192, <sup>1</sup>
BIOLOGY CORE	Requirement (9	-12 credits)		PLS 491 or 492	ŕ
	<i>REE (3)</i> courses; e	-		Course	
	y (FIVE (5) categor				
Cell & Develop	ment: BIO 302, 31	11, 341	,		
Course	Semester	Credits	Grade		
Ecology & Evolu	u <b>tion:</b> BIO 262, 27	72			
Course	Semester	Credits	Grade		
				Must earn a 2.0 GPA	۱ in t
Molecular Biolo	ogv: BIO 437			LAB Requirement	:
Course	Semester	Credits	Grade	Students must take	
		O. Cuito	0.000	addition to BIO 103,	
				satisfy BIOLOGY CO	
Organismal Bio	logy: BIO 308, 31	0, 321, 323,	354, 365,	requirements, but e	xclu
366, 385, 404, 41	.12, 417, *425G, *CI	MB 211		Projects/Special Pro	blen
	Semester	Credits	Grade	Example: BIO 201 (	lectu
Course				requirement AND th	ne La
Course				•	
Course				cannot count towar	
Course  Physiology: BIC	) 201, 346			cannot count towar	

RINE BIOLOGY ELECTIVE Requirement:

ose from the following: Marine Biology Electives and other rses- by approved Curriculum Modification or Pre-Approval of nsfer Credit.

\*256G, 308, 310, 345, 354, 355, 365, 412, 416, 422, \*425G,

455, 457, 485, \*\*469, \*\*475, 563

415, 486 **AVS**: 440 **NRS:** 475

OCG: 420, 480, 561, 576 : 575

Directed Research/Special Problems from the following:

AVS, BIO 491, 492, \*\*495, CMB, NRS, OCE, OCG 493 or 494, 491 or 492

Course	Semester	Credits	Grade

st earn a 2.0 GPA in these 36 credits in order to graduate.

### Requirement:

lents must take two courses that include a lab or lab courses in ition to BIO 103, 104, and 360, from among the courses used to sfy BIOLOGY CORE or MARINE BIOLOGY ELECTIVE

uirements, but excluding Independent Research or Special ects/Special Problems.

mple: BIO 201 (lecture/lab) can be used to satsify the Core uirement AND the Lab requirement, but BIO 491, 492, and 495 not count towards the Lab requirement.

Course	Semester	

<sup>\*\*</sup>Courses taught at the Bermuda Institute of Ocean Sciences.

<sup>\*\*\*</sup>No more than 3 credits of Directed Research/Special Problems (491, 492, 495) may be used towards the 36 credits of Biology and Marine Biology courses required for the major.

CHEMISTRY Re	quirement: (15-:			PH	IVSICS Requirement	IYSICS Requirement: (8 credits)	ng Sciences 35-38 Credits  VSICS Requirement: (8 credits)
ourse	Semester	Credits	Grade	Course	qucc	Semester	
CHM 101	Semester	3	Grade	*PHY 111		Semester	3
CHM 102		1		*PHY 185			1
OR .				OR			
CHM 191		5		*PHY 203			3
-				*PHY 273			1
Course	Semester	Credits	Grade			<u> </u>	<u> </u>
CHM 112	33,113	3	57 0.00	Course		Semester	Semester Credits
CHM 114		1		*PHY 112		Comecter	3
OR .				*PHY 186			1
CHM 192		5		OR			
- ···	<u>I</u>	, j		*PHY 204			3
Course	Semester	Credits	Grade	*PHY 274			1
CHM 124	Jeniestei	3	Grade	27 1			<u> </u>
CHM 126		1		OCEANOGRAPHY Req	υi	rement: (3 cre	rement: (3 credits)
CMB 311		3		Pick 1 of the following:	w11	ement. 15 o.c	ement. (3 treatts)
OR		3		Course		Semester	Semester Credits
CHM 227	<u> </u>	3		OCG 301 (Fall)		Jennester	3
CHM 228		3		OR OR			] ]
CHM 226		_		OCG 451 (Spring)		1	T 2
CITIVI ZZU		2		OCO 431 (Shiills)			3
MATH Require	ment: (6-8 credi	ts)		WRITING Requiremen	1+	(2 cradits)	(2 cradits)
Course	Semester	Credits	Grade	Pick 1 of the following:	ι.	(3 cieuits)	(5 Cleuits)
*MTH 131	Semester	3	Grade	Course		Semester	Semester Credits
OR	<u>I</u>	3		*WRT 104		Jennester	3
*MTH 141		4		OR OR			<u> </u>
	I	<b>-T</b>		*WRT 106			] з
Course	Semester	Credits	Grade	200			<u> </u>
MTH 132	Jennester	3	Grade	*Course approved for G	ene	ral Education o	ral Education credit
OR		,		Course approved for d	-116	Idi Luucacioi. C	Idi Luucation creat.
*MTH 142		4					
OR		+					

# Marine Biology - B.S. <u>THE UNIVERSITY OF RHODE</u> ISLAND

120 Credits Total

#### **General Education Guidelines:**

General education is 40 credits. Each of the twelve outcomes (A1-D1) must be met by at least 3 credits. A single course may meet more than one outcome, but cannot be double counted towards the 40 credit total. At least one course must be a Grand Challenge (G). No more than twelve credits can have the same course code. General education courses may also be used to meet requirements of the major or minor when appropriate. https://web.uri.edu/general-education/.

#### The requirement for transfer to CELS from University College for Academic Success is:

Minimum 30 credits and a grade of C or better in the following: BIO 101, 103, 102, and 104; and min. of C- in CHM 101.

General Education Outcome Audit				
	Course	Grade		
KNOWLEDGE				
A1. STEM	*BIO101			
A2. Social & Behavioral Sciences				
A3. Humanities				
A4. Arts & Design				
COMPETENCIES				
<b>B1.</b> Write effectively				
<b>B2.</b> Communicate effectively				
<b>B3.</b> Mathematical, statistical, or	*MTH			
computational strategies	IVI I			
B4. Information literacy				
RESPONSIBILITIES				
C1. Civic knowledge &				
responsibilities				
C2. Global responsibilities				
C3. Diversity & Inclusion				
INTEGRATE & APPLY				
<b>D1.</b> Ability to synthesize				
GRAND CHALLENGE				
<b>G.</b> At least one course of your 40				
credits is an approved "G" course				

	General Education Credit Count							
At	At least 40 credits, no more than 12 credits with the same course code.							
Course	Cr.	Grade		Course	Cr.	Grade		
*BIO101	3							
*BIO103	1							
*BIO102	3							
*BIO104	1							
*CHM 101	3							
*MTH								
				Total Gen Ed Credits				

NOTE: BECAUSE MOST COURSES MEET MORE THAN ONE OUTCOME, YOUR OUTCOME AUDIT MIGHT BE COMPLETED BEFORE YOU REACH YOUR 40 CREDITS. HOWEVER, YOU MUST STILL COMPLETE 40 CREDITS OF GENERAL EDUCATION.

<b>Free Electives:</b> Courses taken beyond the requirements of the major and gen. eds. to reach the <b>120 total earned credits</b> required for graduation.								
Course	Semester	Credits	Grade		Course	Semester	Credits	Grade

Minimum 2.0 GPA required in the 36 credits in BIO/Marine Biology for graduation.

Minimum overall 2.0 cumulative GPA required in the total 120 credits required for graduation.

Keep Track of you total cre semester and update belov		0
	TOTAL:	/120

<sup>\*</sup>course fulfills general education and a major requirement

#### B.S. Marine Biology Sample 4 Year PLan - Effective Fall 2023 College of the Environment and Life Sciences

#### Freshman Year Fall Semester

	Freshman Year Full Semester				
Course Code	Description	Cr			
*BIO 101, 103	Principles of Biology, Lab	4			
*CHM 101, 102	General Chemistry, Lab	4			
*MTH 111 <b>or</b> *MTH 131	Precalculus <b>or</b> Applied Calculus 1	3			
	*General Education Course	3-4			
BIO 130	Topics in Marine Biology	1			
•	· ·	4-4-			

#### Freshman Year Spring Semester

Course Code	Description	Cr
*BIO 102, 104	Principles of Biology II, Lab	4
CHM 112, 114	General Chemistry II, Lab	4
MTH *131, 132, or STA 308	Applied Calculus, Applied Calculus II, or Statistics	3-4
	*General Education Course	3-4
		15-17

#### Year 1 Milestones: Complete BIO 101, 103, 102, 104, CHM 101, 102, 112, 114, MTH 131, and MTH 132 or STA 308

Sophomore Year Fall Semester

Course Code	Description	Cr
BIO 360 <b>or</b> Marine BIO core	Marine Biology <b>or</b> Biology Core	3-4
CHM 124,126, or 227 or 112,114	Intro to Organic Chem., Lab, <b>o</b> r Organic Chemistry Lecture <b>or</b> General Chemistry Lecture 2, Lab	4
Elective or *MTH 132 or STA 308	Elective, <b>or</b> Applied Calculus II, <b>or</b> Statistics	3-4
	*General Education Course	3-4
		15-17

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Sophomore real Spring Semester				
Course Code	Description	Cr		
BIO 360 or Marine BIO Core	Marine Biology <b>or</b> Biology Core	3-4		
BIO Core or Marine Biology Elective	Biology Core or Marine Biology Elective	3-4		
CHM 124,126 or 227 or 228 or CMB 311	Intro. to Organic Chem.,Lab, <b>or</b> Organic Chem. Lecture 1, <b>or</b> 2 , <b>or</b> Intro. Biochemistry	3-5		
	*General Education Course	3-4		
		15-17		

Year 2 Milestones: Complete BIO 360 and begin organic chemistry sequence. Meet with faculty advisor to discuss Year 3 courses, research and internship opportunities.

Junior Year Fall Semester

Junior Year Fall Semester			
Course Code	Description	Cr	
BIO 352 <b>or</b> Marine Biology Elective	General Genetics or Marine Biology Elective	3-4	
PHY 111, 185	General Physics, Lab	4	
CHM 226 and/or 228 <b>or</b> CMB 311 <b>or</b> Elective	Organic Chemistry Lecture, Organic Chemistry Lecture 2, <b>or</b> Introductory Biochemistry, <b>or</b> Elective	3-5	
	*General Education Course	3-4	
		15-17	

#### Junior Year Spring Semester

Julior real Spring Semester			
Course Code	Description	Cr	
BIO 352 <b>or</b> Biology Core	General Genetics <b>or</b> Biology Core	3-4	
	Marine BIO Elective	3-4	
PHY 112, 186	General Physics 2, Lab	4	
*Gen Ed or CMB 311	*General Education Course <b>or</b> Introduction to Biochemistry	3-4	
-		15-17	

**Year 3 Milestones:** Complete **PHY** 111, 185, 112, 186, finish **organic chemistry** sequence. Prepare intent to graduate with professional advisor for fall submission.

Senior Year Fall Semester

Course Code	Description	Cr
	Marine Biology Elective	3-4
	Marine Biology Elective	3-4
	*General Education Course	3-4
OCG 301	General Oceanopgrahy	3-4
		15-17

### Senior Year Spring Semester

Course Code	Description	Cr
	Marine Biology Elective	3-4
	Marine Biology Elective	3-4
	*General Education Course <b>or</b> Elective	3-4
Elective	Elective	3-4
		15-17

Year 4 Milestones: OCG 301 (Fall) or 451 (Spring), finish Marine Biology electives and general education.

Minimum of 120 credits to graduate.

Minimum 2.0 cumulative GPA required in the 36 credits in BIO/Marine Biology for graduation.

Minimum overrall 2.0 cumulative GPA required for graduation.