Biologica	I Sciences	- BS
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THE UNIVERSITY OF RHODE ISLAND

Student:	
Student ID:	

Advisor:

EL_BSC_BOS

120 Earned Credits Total

ABOUT THE BS in BIOLOGICAL SCIENCES:

The B.S. in Biological Sciences provides extensive training in fundamental biological principles while allowing students to specialize in subdisciplines such as ecology, evolution, genetics, physiology, molecular, cell, or developmental biology. We emphasize exposure to ongoing research that seeks to expand the frontiers of science; students are encouraged to work with faculty and researchers to develop and conduct original research in their chosen field. Graduates work in a variety of fields, enroll in medical, dental, or veterinary schools, or pursue graduate work in the biological sciences.

L SCIENCES (35 Credits)

web.uri.edu/bio/bachelor-of-science-in-biological-sciences/

		В	IOLOGICAI
BIOLOGY CC	URSE Require	ement: (12	credits)
Must earn a C or be	etter in BIO 101	, 102, 103, 10	04
Course	Semester	Credits	Grade
*BIO 101 or 101H		3	
*BIO 102		3	
*BIO 103		1	
*BIO 104		1	
BIO 352		4	
BIOLOGY CORE Requirement: (9-12 credits)			

BIOLOGY CORE Requirement: (9-12 credits)				
Pick one course from three of the following CORE areas:				
Cell & Development: BIO 302, 311, 341				
Course Semester Credits Grade				

Ecology & Evolution: BIO 262, 272				
Course Semester Credits Grade				

Molecular Biology: BIO 437				
Course Semester Credits Grade				

Organismal Diversity: BIO 308, 310, 321, 323, 354, 365,				
366, 385, 404, 412, 417				
Course Semester Credits Grade				

Physiology: BIO 201, 220/221, 222/223, 346			
Course Semester Credits Grade			

BIOLOGY ELECTIVE Requirement: Balance to reach 35 credits of Bio after completing 21-24 credits of BIO COURSES and BIO CORE

Any BIO course in the latest catalog, including any BIO course listed on this sheet not used to satisfy BIO Course Requirements or BIO Core Requirements, plus BIO 345, 353, 360, 396, 455, 457, 480, 485, 491 and 492** Excludes BIO 181G and 498 (these courses may not be used).

Course	Semester	Credits	Grade

^{*}Course approved for general education

Minimum 2.0 cumulative GPA required in all BIO and CMB courses for graduation.

Minimum overall 2.0 cumulative GPA required for graduation.

Major Credits:	/35
Total Credits:	/120

Plant, Animal, and Lab Course requirements

The courses selected satisfy the CORE and BIO Elective requirements, and must include one course from the Animal list, one course from the Plant list, and 3 courses that include a laboratory, or stand-alone laboratory courses (BIO 103, 104, 491 and 492 excluded)

Animal Course List (3-4 credits): BIO 201, 220, 222, 223, 286, 300, 301, 302, 350, 354, 355, 366, 385, 388, 404,	Course	Grade
412, 417, 419, 422, 425G, 444, 467		
Plant Course List (3-4 credits): BIO 308, 310, 311, 321, 323, 332, 346, 365, 416		
Laboratory Courses (3): Labs that fulfill the BIO Core or the Plant or Animal biology requirements may also be used to	1	
fulfill the lab requirement though the credit is counted only once	2	
	3	

^{**} Up to 3 credits of 491, 492, 493, 494, or 495 from one of the following programs may be used for a BIO elective: AFS, AVS, BIO, CMB, NRS, PLS, or OCG. These may not be used to fulfill the lab requirement. Students may submit a petition for research credit in other programs. Additional research credits count as free electives.

Introduction and Supporting Sciences 37-40 Credits

CHEMISTRY Requirement: (15-16 credits)				
Course	Semester	Credits	Grade	
*CHM 101		3		
CHM 102		1		
OR				
CHM 191		5		

CELL & MOLECULAR BIOLOGY Requirement : (4 credits)							
Course	Semester	Credits	Grade				
CMB 201 or 211		4					

Course	Semester	Credits	Grade
CHM 112		3	
CHM 114		1	
OR			
CHM 192		5	

Course	Semester	Credits	Grade
*PHY 111		3	
*PHY 185		1	
OR			
*PHY 203		3	
*PHY 273		1	
	•		•
Course	Semester	Credits	Grade

PHYSICS Requirement: (8 credits)

Course	Semester	Credits	Grade
CHM 226		2	
CHM 227		3	
CHM 228		3	
OR			
CHM 124		3	
CHM 126		1	
CMB 311		3	

Semester	Credits	Grade
	3	
	1	
	3	
	1	
	Semester	Semester Credits 3 1 3 1 3 1

MATH Requirement: (6-8 credits)								
Course	Semester	Credits	Grade					
*MTH 131		3						
OR								
*MTH 141		4						

WRITING Requirement: (3 credits)								
Course	Semester	Credits	Grade					
*WRT 104		3						
OR								
*WRT 106		3						

Course	Semester	Credits	Grade
MTH 132		3	
OR			
*MTH 142		4	
OR			
STA 308		4	

Introduction Requirement: (1 credit)									
Course	Semester	Semester Credits Grade							
URI 101		1							

Advising Notes:	

THE UNIVERSITY OF RHODE ISLAND

Biological Scient 120 Earned Credit				Student:Student ID:					
General Educati	on Guidelines:					Advis	or:		
General education than one outcome than twelve credi	n is 40 credits. Eac e, but cannot be d	louble coun me course	ted towar code. Gen	omes (A1-D1) must b rds the 40 credit tota eral education cours education/	I. At least	one course mus	t be a Grand C	hallenge (G). No more
=			=	llege for Academic So owing: BIO 101 or 101)2, and 104; and	min. of C- in CF	IM 101.	
General	Education Out	come Auc	lit		Ge	neral Education	on Credit Co	unt	
		Course	Grade]	At lea	st 40 credits, no		redits	
KNOWLEDGE			1	ļ <u> </u>		with the same			_
A1. STEM		*BIO101		Course	Cr.	Grade	Course	Cr.	Grade
A2. Social & Behav	vioral Sciences			*BIO101	3				
A3. Humanities				*BIO103	1				
A4. Arts & Design				*BIO102	3				
COMPETENCIES		-	1	*BIO104	1				
B1. Write effective	•			*CHM	3				
B2. Communicate									
B3. Mathematical, s									
computational strat									
B4. Information lit	•								
RESPONSIBILITIES									
C1. Civic knowleds	ge &								
responsibilities							Total Gen		
C2. Global respons	sibilities						Ed Credits		
C3. Diversity & Inc	clusion								
INTEGRATE & APP	PLY			NOTE: BECA	LISE MOST	COURSES MEET	MORE THAN	ONE OUTC	OME YOUR
D1. Ability to synt	hesize					HT BE COMPLET			-
GRAND CHALLENG	GE								
G. At least one co	urse of your 40				-	OU MUST STILL	CONIPLETE 40	CKEDIIS O	r GENERAL
credits is an appro	ved "G" course			EDUCATION	•				
	neral education an								
graduation.	Courses taken bey			s of the major and ge					ed for
Course	Semester	Credits	Grade	Cou	rse	Sem	ester	Credits	Grade
									-
	1	+							1
Advising Notes:		1		J L				I	1

B.S. Biological Sciences Sample 4 Year plan - Effective Fall 2018 College of the Environment and Life Sciences

15-17

Freshman Year Fall Semester

Tresiman real ran Semester						
Course Code	Description	Cr				
BIO 101,103	Principles of Biology, Lab	4				
CHM 101,102 or Gen Ed	General Chemistry, Lab or General Education Course	3-4				
MTH 103 or MTH 131	Precalculus or Applied Calculus	3				
	General Education Course	3-4				
URI 101	Planning for Academic Success	1				

Freshman Year Spring Semester

Course Code	Description	Cr
BIO 102,104	Principles of Biology 2, Lab	4
CHM 112,114 or CHM 101,102	General Chemistry 2, Lab or General Chemistry 1, Lab	4
MTH 131, 132 or STA 308	Applied Calculus, Applied Calculus 2, or Introduction to Statistics	3-4
	General Education Course	3-4
		15-17

Year 1 Milestones: Complete BIO 101, 103, 102, 104, CHM 101, 102, MTH 131

Sophomore Year Fall Semester

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Course Code	Description	Cr
	BIO Core Course	3-4
CHM 124,126 or 227 or CHM112,114	Introduction to Organic Chemistry, Lab, or General Chemistry lecture 2, Lab	4
Elective or MTH 132 or STA 308	Elective, or Applied Calculus 2, or Introduction to Statistics	3-4
	General Education Course	3-4
		15-17

Sophomore Year Spring Semester

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Course Code	Description	Cr
	BIO Core Course	4
CHM 124,126 or 227 or 228 or CMB 311	Introduction to Organic Chemistry, Lab or Organic Chemistry Lecture 2, or Introductory Biochemistry	3-5
CMB 201 or CMB 211	Introductory Microbiology OR Introductory Medical Microbiology	4
	General Education Course	3-4
		15-17

Year 2 Milestones: Complete **CMB** 201 or 211 and **CHM** 112, 114 begin **organic chemistry** sequence. Meet with faculty advisor to plan Year 3 courses.

Junior Year Fall Semester

Course Code	Description	Cr
BIO Core or BIO 352	BIO Core or General Genetics	3-4
PHY 111,185	General Physics, Lab	4
CHM 226	Organic Chemistry Lecture	3-5
	General Education Course	3-4
		15-17

Junior Year Spring Semester

Course Code	Description	Cr
BIO Core or BIO 352	BIO Core or General Genetics	3-4
	BIO Elective	3-4
PHY 112,186	General Physics, Lab	4
Gen Ed or CMB 311	General Education or Introductory Biochemistry	3-4
		15-17

Year 3 Milestones: Complete BIO 352 and BIO core courses, PHY 111, 185, 112, 186, finish organic chemistry sequence. Meet with faculty advisor to plan year 4 courses, and discuss internship and/or research opportunities.

Senior Year Fall Semester

Germon Tean Fam Germester		
Course Code	Description	Cr
	BIO Elective	3-4
	BIO Elective	3-4
	General Education Course	3-4
	Elective	3-4
-		15-17

Senior Year Spring Semester

Course Code	Description	Cr
	BIO Elective	3-4
	BIO Elective or Elective	3-4
	General Education Course or Elective	3-4
	Elective	3-4
		15.17

Year 4 Milestones: Finish Biology electives and general education.

Minimum of 120 credits to graduate.

Minimum 2.0 cumulative GPA required in the 36 credits in Biology courses for graduation.

Minimum overall 2.0 cumulative GPA required for graduation.