Biological Sciences - BS

THE UNIVERSITY OF RHODE ISLAND

Student:	
Student ID:	
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120 Earned Credits Total

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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 sub-disciplines 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.

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

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			BIOLOGICAL	SCIENCES (35 Credits)
BIOLOGY COURS	SE Requirem	ent: (8 cre	dits)	BIOLOGY ELECTIVE
Must earn a C or be	etter in BIO 101	, 102, 103, 1	04	credits for the maj
Course	Semester	Credits	Grade	Any BIO course in the
*BIO 101 or 101H		3		on this sheet not used
*BIO 102		3		Core Requirement, plu
*BIO 103		1		491, 492**, and 498**
*BIO 104		1		be used).
				Course

DIOLOGY CODE	Do av. i no no 4	/12 16	d:+ . \	
BIOLOGY CORE I	•	•	· ·	
Pick a total of TW	O (2) courses	from the E	cology,	
Evolution, & Gene	etics CORE are	ea		
Ecology, Evolution	n, & Genetics:	BIO 262, 27	⁷ 2, 352	
Course	Semester	Credits	Grade	
Pick a total of TW	O (2) courses;	; each cour	se must be in a	
different category			below).	
Cell & Developme	nt: BIO 302, 3	11, 341		
Course	Semester	Credits	Grade	
Molecular Biology	/: BIO 437			
Course	Semester	Credits	Grade	
Organismal Divers	sity: BIO 308, 3	310, 321, 323	3, 350, 354, 365,	
366, 385, 404, 412,	416, 417			
Course	Semester	Credits	Grade	
Physiology: BIO 20	Physiology: BIO 201, 220/221, 222/223, 346			
Course	Semester	Credits	Grade	

BIOLOGY ELECTIVE Requirement: Balance to reach 35 credits for the major

Any BIO course in the latest catalog, including any BIO course listed on this sheet not used to satisfy BIO Course Requirement or BIO Core Requirement, plus BIO 345, 353, 360, 396, 455, 457, 480, 485, 491, 492**, and 498***. Excludes BIO 181G (that course 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				
he courses selected satisfy the CORE and BIO Elective requirements, and must include one course from the Animal list, one course from the lant 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, 412,	Course	Grade		
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.

^{***}Only one credit of BIO 498 is allowed

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		
Course	Semester	Credits	Grade	
CHM 112		3		
CHM 114		1		
OR				
CHM 192		5		
Course	Semester	Credits	Grade	
CHM 226		2		
CHM 227		3		
CHM 228		3		
OR				
CHM 124		3	_	
CHM 126		1		
CMB 311		3		

MATH Requirement: (6-8 credits)			
Course	Semester	Credits	Grade
*MTH 131		3	
OR			
*MTH 141		4	
Course	Semester	Credits	Grade
MTH 132		3	
OR			
*MTH 142		4	
OR			
STA 308		4	

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

PHYSICS Requirement: (8 credits)			
Course	Semester	Credits	Grade
*PHY 111		3	
*PHY 185		1	
OR			
*PHY 203		3	
*PHY 273		1	
	•	<u> </u>	
Course	Semester	Credits	Grade
*PHY 112		3	
*PHY 186		1	
OR		<u>.</u>	
*PHY 204		3	
*PHY 274		1	

WRITING Requirement: (3 credits)					
Any WRT course, 104 or above					
Course	Semester	Credits	Grade		
WRT					

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

Advising Notes:			
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THE UNIVERSITY OF RHODE ISLAND

Biological Sciences - B.S. 120 Earned Credits Total							Student Student			
General Education Guidelines:						Advi	-			
General education than one outcome than twelve credi	n is 40 credits. Eac e, but cannot be d ts can have the sa opriate. https://w	louble coun me course	ted towa code. Gen	rds the eral ed	e 40 credit total ducation course	. At least	it least 3 credit one course mu	s. A single cours	hallenge (G). No more
	for transfer to CEL its and a grade of 0		=	_			2, and 104; and	d min. of C- in Cl	⊣M 101.	
General	Education Out	come Au	lit					ion Credit Co		
		Course	Grade			At leas	· ·	more than 12	credits	
KNOWLEDGE		1 * 0 1 0 1	ı					e course code.		T
A1. STEM		*BIO101			Course	Cr.	Grade	Course	Cr.	Grade
A2. Social & Beha	vioral Sciences			-	*BIO101	3	1		 	<u> </u>
A3. Humanities				-	*BIO103	1	1		 	
A4. Arts & Design			<u></u>	-	*BIO102	3	1		 	
COMPETENCIES			ı	4	*BIO104	1	1			
B1. Write effective					*CHM	3				
B2. Communicate				-						_
B3. Mathematical, s										+
computational strat				_					<u> </u>	1
B4. Information lit	· ·								<u> </u>	1
RESPONSIBILITIES		<u> </u>	ı							
C1. Civic knowled	ge &									
responsibilities								Total Gen		
C2. Global respon								Ed Credits		
C3. Diversity & Inc										
INTEGRATE & API			ı		NOTE: BECAU	JSE MOST	COURSES MEE	T MORE THAN	ONE OUTC	OME, YOUR
D1. Ability to synt								TED BEFORE YO		=
GRAND CHALLEN			T					L COMPLETE 40		
G. At least one co					EDUCATION.				0.1.2.2.1.0	. 02.112.10.12
credits is an appro	oved "G" course				EDOCATION.					
	neral education an Courses taken bey	_	_		e major and gei	n. eds. to 1	reach the 120 t	otal earned cre	dits requir	ed for
graduation.	,				, ,					
Course	Semester	Credits	Grade		Cour	se	Ser	nester	Credits	Grade
				-					+	
	†			1			1			†
				-						
Advising Notes:		•		•						

B.S. Biological Sciences Sample 4 Year plan - Effective Fall 2024 College of the Environment and Life Sciences

1 15-17

Freshman Year Fall Semester

Course Cod

URI 101

le	Description	Cr
	Principles of Biology, Lab	4
or	Conoral Chamistry Lab or Conoraal	

BIO 101,103 CHM 101,102 or ieneral Chemistry, Lab or Genereal 3-4 Gen Ed **Education Course** MTH 103 or Precalculus or Applied Calculus 3 MTH 131 General Education Course 3-4

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

Planning for Academic Success

Johnson Carl Tan Jemester				
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

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	Introuctory 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

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 overrall 2.0 cumulative GPA required for graduation.