Biological Sciences - BS
EL_BSC_BOS
120 Earned Credits Total

THE UNIVERSITY OF RHODE ISLAND

Student: _____
Student ID: _____
Advisor: _____

This degree requires you to complete BIO 101, 103, 102, 104 with grades of C or better and CHM 101 with a grade of C- or better.

BIOLOGICAL SCIENCES

MAJOR CONCENTRATION
(40 credits total)

Introductory Courses (8 credits)

Must earn a C or better in BIO 101, 102, 103, 104

Course Name	Course Code	Semester	Credits	Grade
Intro. BIO I Lec.	*BIO 101		3	
Intro. BIO II Lec.	*BIO 102		3	
Intro. BIO I Lab	*BIO 103		1	
Intro. BIO II Lab	*BIO 104		1	

Foundational Courses (12 credits)

Select three (3) of five (5) courses

Found. Area	Course Code	Semester	Credits	Grade
Microbiology	*CMB 211		4	
Physiology	BIO 201 **or** BIO 220/221		4	
Cell/Molecular	BIO 232		4	
Ecology	BIO 262		4	
Evolution	BIO 272		4	

Advanced Courses (At least 15 credits)

300/400-Level BIO courses**

Course Name	Course Code	Semester	Credits	Grade
	BIO _____			
	BIO _____			
	BIO _____			
	BIO _____			
	BIO _____			
	BIO _____			

Elective Courses

Any BIO course to reach 40 credits**

Course Name	Course Code	Semester	Credits	Grade
	BIO _____			
	BIO _____			
	BIO _____			

Major Credits: /40

ADDITIONAL BIO REQUIREMENTS

Fulfill the following course requirements. A single course may meet more than one requirement but cannot be double counted towards the 40 required credits for the major

Animal Course	Select **one** course: BIO 201, 220, 286, 300, 301, 302, 350, 354, 355, 366, 385, 388, 412, 417, 419, 422, 425G, 444, 467	**Course** BIO _____
Plant Course	Select **one** course: BIO 308, 311, 321, 323, 332, 346, 365, 416	**Course** BIO _____
Lab Courses	Select **four** courses: BIO 201, 221, 223, 301, 302, 310, 311, 321, 323, 331, 345, 348, 350, 353, 354, 355, 360, 365, 366, 404, 412, 416, 417, 469, 475, 485, *CMB 211	

Lab One	Lab Two	Lab Three	Lab Four
BIO ____	BIO ____	BIO _____	___ ____

***Course approved for General Education**
****Up to 3 credits of 491 or 492 from one of the following programs may be used for a BIO elective: AFS, AVS, BIO, CMB, NRS, or PLS. 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
Excludes BIO 181G

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

Minimum overall 2.0 cumulative GPA required for graduation.

Biological Sciences- BS **THE UNIVERSITY OF RHODE ISLAND** Student: _____

EL_BSC_BOS Student ID: _____

120 Earned Credits Total Advisor: _____

Introduction and Supporting Sciences 35-36 Credits

CHEMISTRY Requirement: (16-17 credits)				
Introductory Chemistry (8 credits)				
Course Name	**Course Code**	**Semester**	**Credits**	**Grade**
General Chemistry Lecture I	*CHM 101		3	
Laboratory General Chemistry 101	CHM 102		1	
General Chemistry Lecture II	CHM 112		3	
Laboratory for Chemistry 112	CHM 114		1	
Organic Chemistry (7-8 credits)				
Course Name	**Course Code**	**Semester**	**Credits**	**Grade**
Organic Chemistry Laboratory	CHM 226		2	
Organic Chemistry Lecture I	CHM 227		3	
Organic Chemistry Lecture II	CHM 228		3	
OR				
Intro. To Organic Chemistry	CHM 124		3	
Laboratory for Chemistry 124	CHM 126		1	
Introductory Biochemistry	CMB 311		3	

MATH Requirement: (7 credits)				
Course Name	**Course Code**	**Semester**	**Credits**	**Grade**
Applied Calculus I	*MTH 131		3	
Introductory Statistics	STA 308		4	

PHYSICS Requirement: (8 credits)				
Course Name	**Course Code**	**Semester**	**Credits**	**Grade**
General Physics I	*PHY 111		3	
Labratory for General Physics I	*PHY 185		1	
General Physics II	*PHY 112		3	
Labratory for General Physics II	*PHY 186		1	

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

Introduction Requirement: (1 credit)				
Course Name	**Course Code**	**Semester**	**Credits**	**Grade**
Planning for Academic Success	URI 101		1	

THE UNIVERSITY OF RHODE ISLAND

Biological Sciences - B.S.

120 Earned Credits Total

Student: _____

Student ID: _____

Advisor:

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/

LIST COURSE AS EACH OUTCOME IS MET:

General Education Outcome Audit

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

LIST COURSES THAT MEET GENERAL EDUCATION:

General Education Credit Count

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____	3				
			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.

*course fulfills general education and a major requirement

Free Electives: Courses taken beyond the requirements of the major and gen. eds. to reach the **120 total earned credits** required for graduation.

Course	Semester	Credits	Grade	Course	Semester	Credits	Grade

Advising Notes: _____

Biological Sciences
EXAMPLE STUDENT 4 Year Plan - Effective Fall 2026
College of the Environment & Life Sciences

Freshman Year *Fall* Semester

Course Code	Description	Cr
BIO 101/103	Principles of Biology I w/ Lab	4
MTH 103	Precalculus	3
	General Education Course	3-4
	General Education Course **or** Elective	3-4
URI 101	Planning for Academic Success	1
		14-16

Freshman Year *Spring* Semester

Course Code	Description	Cr
BIO 102/104	Principles of Biology II w/ Lab	4
MTH 131	Applied Calculus	3
WRT 104	Writing to Inform and Explain	3
	General Education Course **or** Elective	3-4
	Elective	3-4
		14-16

Year 1 Milestones: Complete BIO 101/103, 102/104, and CHM 101/102 **or** MTH 131

Sophomore Year *Fall* Semester

Course Code	Description	Cr
	200 Level Biology Course from list	4
	200 Level Biology Course from list	4
CHM 101/102	General Chemistry I w/lab	4
	General Education Course **or** Elective	3-4
	General Education Course **or** Elective	3-4
		14-16

Sophomore Year *Spring* Semester

Course Code	Description	Cr
	200 Level Biology Course from list	4
CHM 112/114	Gen. Chem II w/lab	4
	General Education Course **or** Elective	3-4
	General Education Course **or** Elective	3-4
	General Education Course **or** Elective	3-4
		14-16

Year 2 Milestones: Complete 200 Level BIO Course requriements and Introductory Chemistry sequence. Meet with faculty advisor to plan year 3 courses.

Junior Year *Fall* Semester

Course Code	Description	Cr
	300/400 Level BIO Course	3-4
CHM 124/126 **or** CHM 227	Introduction to Organic Chemistry w/ Lab or Organic Chemistry I	3-4
STA 308	Introductory Statistics	4
	General Education Course **or** Elective	3-4
	General Education Course **or** Elective	3-4
		14-16

Junior Year *Spring* Semester

Course Code	Description	Cr
	300/400 Level BIO Course	3-4
CMB 311 **or** CHM 228/226	Introductory Biochemistry **or** Organic Chemistry II w/Lab	3 **or** 5
	General Education Course **or** Elective	3-4
	General Education Course **or** Elective	3-4
	General Education Course **or** Elective	3-4
		14-16

Year 3 Milestones: Complete 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
	300/400 Level BIO Course **or** BIO Elective	3-4
	BIO Elective	3-4
PHY 111/185	General Physics I w/lab	4
	General Education Course **or** Elective	3-4
	General Education Course **or** Elective	3-4
		14-16

Senior Year *Spring* Semester

Course Code	Description	Cr
	300/400 Level BIO Course **or** BIO Elective	3-4
	BIO Elective	3-4
PHY 112/186	General Physics II w/lab	4
	General Education Course **or** Elective	3-4
	General Education Course **or** Elective	3-4
		14-16

Year 4 Milestones: Finish Biology requirements, supporting sciences requriements, and general education.

Minimum of 120 credits to graduate.

Minimum 2.0 cumulative GPA required in the 30 credits in BIO courses for graduation.

Minimum overrall 2.0 cumulative GPA required for graduation.