THE UNIVERSITY OF RHODE ISLAND

General Option

EL_CMBI_BS

120 Earned Credits Total

Cell & Molecular Biology

ABOUT Cell & Molecular Biology - General Option:

The General Cell and Molecular Biology Option is designed to offer students flexibility in pursuing their interests. Students choosing this option need to meet with an advisor early in their academic career to design a personal plan.

Step 1: REVIEW YOUR PROGRAM REQUIREMENTS

Cell & Molecular Biology (CMB) - C	ieneral		40 Cre	edits Tota	
Concentration Courses				(15	(15 Credits)	
Course Name		Course #	Semester	Credits	Grade	
Introductory Microbiology		CMB 211		4		
Introductory Biochemistry		CMB 311		3		
Immunology and Serology		CMB 333		3		
General Genetics		CMB (BIO) 352		4		
Research in Cell and Molecula	ar Biology	CMB 491 (fall) or 492(spring)		1-6		
Seminar in Cell and Molecula	r Biology	CMB 495		1		
Biological Sciences (BIO)				(3	Credits)	
Course Name		Course #	Semester	Credits	Grade	
Principles of Cell Biology		BIO 341		3		
CMB Laboratory Courses: courses	Select 4	credits from the fo	ollowing list of a	••	o <i>ratory</i> 4 Credits)	
Course Name		Course #	Semester	Credits	Grade	
Introductory Biochemistry La	b	CMB 312	Spring	_ 2		
Genetics Laboratory		CMB (BIO) 353		1		
Advanced Biochemistry Lab I		CMB 412	Spring	3		
Advanced Microbiology Lab I		CMB 415	Fall	2		
Advanced Microbiology Lab II		CMB 416	Spring	_ 2		
Professional Electives:				(18	8 Credits)	
Select 18 credits from the BPS 535, and PHY 430	followin	g: Any 400 or 500	level CMB cours	se, CMB(BIC)) 437, 453	
Course # Semester Ci	redits	Grade				
Course # Semester Cu	redits	Grade				

Course #	Semester	Credits	Grade

Minimum 2.0 cumulative GPA required in major and overrall for graduation. Major GPA = Overall GPA = *Course fulfills general education and a major requirement

Effective: 2018-2019

Student:

Student ID: ______ Advisor: ______

Step 1: REVIEW YOUR PROGRAM REQUIREMENTS CONTINUED:

Introduction Requirement: (1 credit)				
Course	Semester	Credits	Grade	
URI 101		1		
BIOLOGY R	equirement:	(8 c	redits)	
Course	Semester	Credits	Grade	
*BIO 101		3		
*BIO 103		1		
*BIO 102		3		
*BIO 104		1		
CHEMISTRY	Y Requireme	nt: (16 c	redits)	
Course	Semester	Credits	Grade	
*CHM 101		3		
		5		
CHM 102		1		
CHM 102 CHM 112		-		
		1		
CHM 112		1 3		
CHM 112 CHM 114		1 3 1		

FREE ELECTIVES				
Course	Semester	Credits	Grade	

MATH Requirement:		(6-8 cre	dits)
Course	Semester	Credits	Grade
*MTH 131		3	
OR			
*MTH 141		4	
AND 1 OF THE	FOLLOWING	: *111, 132,	*142
(preferred) ; *	CSC 201; STA	307, or 308	
Course	Semester	Credits	Grade
PHYSICS Req	uirement:	(8 cr	edits)
Course	Semester	Credits	Grade
*PHY 111		3	
*PHY 185		1	
OR			
*PHY 203		3	
*PHY 273		1	
AND	•		
Course	Semester	Credits	Grade
*PHY 112		3	
*PHY 186		1	
OR			
*PHY 204		3	
*PHY 274		1	

Minimum 2.0 cumulative GPA required in

major and overrall for graduation.

*Course fulfills general education and a major requirement

Cell & Molecular Biology - B.S.

THE UNIVERSITY OF RHODE ISLAND

General Option

120 Total Earned Credits

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.

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	Credits	Grade		Course	Credits	Grade
*BIO 101	3					
*BIO 103	1					
*BIO 102	3					
*BIO 104	1					
*CHM 101	3					
*MTH						
*PHY	3					
*PHY	1					
*PHY	3					
*PHY	1					
				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

LIST COURSE AS EACH OUTCOME IS MET:

General Education Outcome Audit			
	Course		
KNOWLEDGE			
A1. STEM	BIO 101		
A2. Social & Behavioral Sciences			
A3. Humanities			
A4. Arts & Design			
COMPETENCIES			
B1. Write effectively			
B2. Communicate effectively			
B3. Mathematical, statistical, or			
computational strategies	MTH		
B4. Information literacy			
RESPONSIBILITIES			
C1. Civic knowledge & responsibilities			
C2. Global responsibilities			
C3. Diversity & Inclusion			
INTEGRATE & APPLY			
D1. Ability to synthesize			
GRAND CHALLENGE			
G. A t least one course of your 40			
credits is an approved "G" course			

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

Minimum 30 credits and a minimum cumulative gpa of 2.0 or better. Advising Notes:

Advisor:

B.S. Cell & Molecular Biology -General Option Sample 4 Year Plan - Effective Fall 2018 College of the Environment & Life Sciences

Freshman Year Fall Semester

Course Code	Description	Cr
URI 101	Planning for Academic Success	1
*BIO 101/103	Principles of Biology I/Lab	4
*CHM 101/102	General Chemistry I/Lab	4
*MTH	Precalculus, Applied Calculus I, or Introductory Calculus	3-4
	*General Education	3-4
		15-17

Course Code	Description	Cr
*BIO 102/104	Principles of Biology II/Lab	4
*CHM 112/114	General Chemistry II/Lab	4
	2nd required CSC, MTH, or STA course	3-4
	*General Education	3-4
	*General Education	3-4
		15-17

Freshman Year Spring Semester

Year 1 Milestones: Complete BIO 101, 103, 102, 104, CHM 101, 102, 112, 114, MTH 131 or 141. Earn 30 credits with a cumulative GPA of 2.0 or higher.

Sophmore Year Fall Semester

Course Code	Description	Cr
CHM 227	Organic Chemistry Lecture I	3
CMB 211	Introductory Microbiology	4
*PHY	General Physics I Lecture/Lab	4
	*General Education	3-4
	*General Education	3-4
		15-17

Sophmore Year Spring Semester

Course Code	Description	Cr
CHM 228	Organic Chemistry Lecture II	3
CMB 311	Introductory Biochemistry Lecture	3
*PHY	General Physics II Lecture/Lab	4
	*General Education	3-4
	*General Education	3-4
		15-17

Year 2 Milestones: Complete CMB 211. Begin Organic Chemistry sequence. Begin Physics sequence. Meet with a CMB Faculty advisor to discuss research/internship opportunities and plan year 3 and 4 courses. Earn 60 total credits with a cumulative GPA of 2.0 or higher.

Junior Year Fall Semester

Course Code	Description	Cr
CHM 226	Organic Chemistry Lab	2
CMB 333	Immunology and Serology	3
BIO 341	Cell Biology	3
	*General Education/Free Elective	3-4
	*General Education/Free Elective	3-4
		15-17

Junior Year Spring Semester

Course Code	Description	Cr
CMB 352	General Genetics	4
СМВ	CMB Laboratory course	2-3
	Professional Elective	3-4
	*General Education/Free Elective	3-4
	*General Education/Free Elective	3-4
		15-17

Year 3 Milestones: Complete *BIO* 341 (341 is only taught in the Fall semester) CMB 333, & 352. Complete Organic Chemistry sequence. Meet with a CMB Faculty advisor to plan year 3 and 4 courses. Earn 90 total credits with a cumulative GPA of 2.0 or higher. Prepare intent to graduate with faculty advisor for Fall submission.

Senior Year Fall Semester

Course Code	Description	Cr	
CMB 495	Seminar in Cell & Molecular Biology	1	
СМВ	CMB Laboratory Course	2-3	
	Professional Elective	3-4	
	Professional Elective	3-4	
	*General Education/Free Elective	3-4	
-		15-17	

Senior Year Spring Semester

Course Code	Description	Cr
	Professional Elective	3-4
	Professional Elective	3-4
	*General Education/Free Elective	3-4
	*General Education/Free Elective	3-4
		15-17

Year 4 Milestones: Complete CMB 495, and at least 1 CMB Lab course. Earn total 120 credits with a cumulative GPA of 2.0 or higher. Minimum 2.0 cumulative gpa in CMB concentration courses.