Cell & Molecular Biology	THE UNIVERSITY OF RHODE ISLAND	Student:	
General Option		Student ID:	
EL_CMBI_BS		Advisor:	
120 Earned Credits Total		_	
ABOUT Cell & Molecular	r Biology - General Option:		
The General Cell and Molec	ular Biology Option is designed to offer students flexibi	lity in pursuing	their interests.
Students choosing this opti	on need to meet with an advisor early in their academi	c career to desi	gn a personal plan.
Step 1: REVIEW YOUR PF	ROGRAM REQUIREMENTS		
Cell & Molecular Biology	(CMB) - General	40 Credits	

Cell & Mo	lecular Biolog	gy (CMB)	- General			40 Credits
Concentra	ation Courses					(15 Credits)
Course Nam	ıe		Course #	Semester	Credits	Grade
Integrative	Microbiology		*CMB 211		4	
Introducto	ry Biochemistry	/	CMB 311		3	
Immunolog	gy and Serology	/	CMB 333		3	
General Ge	enetics		CMB (BIO) 3	52	4	
Seminar in Biology	Cell and Molec	cular	CMB 495		1	
Biological	Sciences (BIC	0)				(3 Credits)
Course Nan	ne		Course #	Semester	Credits	Grade
Principles of	of Cell Biology		BIO 341	Fall	3	
CMB Labo	oratory Course	es: Selec	t 4 credits fro	m the following		(4 Credits)
list of app	roved labora	tory cour	ses			
Course Nam	ie		Course #	Semester	Credits	Grade
Introducto	ry Biochemistry	/ Lab	CMB 312	Spring	_ 2	
Genetics La	aboratory		CMB (BIO) 3	53	1	
Advanced I	Biochemistry La	ab I	CMB 412	Spring	_ 3	
Advanced I	Microbiology La	ab I	CMB 415	Fall	2	
Advanced I	Microbiology La	ab II	CMB 416	Spring	_ 2	
Profession	nal Electives:					(18 Credits)
Select 18 and PHY 4	_	the follow	ving: Any 30	0 level or higher C	CMB course,	BPS 535,
Course #	Semester	Credits	Grade			

Course #	Semester	Credits	Grade

Minimum 2.0 cumulative GPA required in	
major and overrall for graduation.	
Major GPA =	
Overall GPA =	

Effective: 2020-2021

^{*}Course fulfills general education and a major requirement

Step 1: REVIEW YOUR PROGRAM REQUIREMENTS CONTINUED:

Introduction Requirem	(1	credit)	
Course	Semester	Credits	Grade
URI 101		1	

BIOLOGY (8 credit			redits)
Course	Semester	Credits	Grade
*BIO 101		3	
*BIO 103		1	
*BIO 102		3	
*BIO 104		1	

CHEMISTRY Requirement:		(16-18 d	redits)
Course	Semester	Credits	Grade
*CHM 101		3	
CHM 102		1	
OR			
CHM 191		5	
AND			
Course	Semester	Credits	Grade
CHM 112		3	
CHM 114		1	
OR			
CHM 192		5	
AND			
Course	Semester	Credits	Grade
CHM 227		3	
CHM 228		3	
CHM 226		2	

FREE ELECTIVES			
Course	Semester	Credits	Grade

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

AND 1 OF THE FOLLOWING: MTH *111, 132, *142; *CSC 201; STA 307, 308, or 409

Course	Semester	Credits	Grade

PHYSICS Requirement:		(8 c	redits)
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	

Effective: 2020-2021

Cell & Molecular Biology - B.S.	THE UNIVERSITY OF RHODE ISLAND	Student:	
General Option		Student ID:	
120 Total Earned Credits		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.

LIST COURSES THAT MEET GENERAL EDUCATION:

LIST COURS	LIST COURSES THAT WIEET GENERAL EDUCATION:					
	General Education Credit Count					
At	At least 40 credits, no more than 12 credits					
	witl	n the sa	me c	ourse 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	·				
*CMB 211	4					
				Total		
		·		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

LIST COURSE AS EACH OUTCOME IS MET:

General Education Outcome Audit				
	Course	Grade		
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	CMB 211			
GRAND CHALLENGE				
G. At 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:

Effective: 2020-2021

^{*}course fulfills general education and a major requirement

B.S. Cell & Molecular Biology -General Option Sample 4 Year Plan - Effective Fall 2020 College of the Environment & Life Sciences

Freshman Year Fall Semester

Freshman Year Spring 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

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

Sophmore	Year	Spring	Semester

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

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

Junior Year Spring 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

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

Senior Year Spring 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

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.