THE UNIVERSITY OF RHODE ISLAND

Cell & Molecular Biology

General Option EL\_CMBI\_BS

Student:	
Student ID:	
Advisor:	

120 Earned Credits Total

## 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 & M	olecular Biolo	ogy (CMB (	General				40 Credits
Concentr	ation Course	s					(15 Credits)
Course Nar	ne		Course #		Semester	Credits	Grade
Integrativ	e Microbiology		*CMB 212	1		4	
Introducto	ory Biochemist	ry	CMB 311			3	
Immunolo	gy and Serolog	ξγ	CMB 333			3	
General G	enetics		CMB (BIO	) 352		4	
Seminar ir Biology	n Cell and Mole	ecular	CMB 495			1	
Biologica	l Sciences (Bl	0)					(3 Credits)
Course Na		-	Course #		Semester	Credits	Grade
Principles	of Cell Biology		BIO 341			3	
approved	oratory Cour d laboratory (		Course #			Credits	(4 Credits)
Course Nar	-				Semester		Grade
	ory Biochemist Public Health Mi		CMB 312			2	
Lab		ciobiology	CMB 332			2	
Genetics L	aboratory		CMB (BIO	) 353		1	
Advanced	Biochemistry I	Lab I	CMB 412			3	
Advanced	Microbiology	Lab I	CMB 415			2	
Advanced	Microbiology	Lab II	CMB 416			2	
Professio	nal Electives	:					(18 Credits)
Select 18 PHY 430	credits from	the follov	ving: Any	300 level or	higher CME	B course, BF	PS 535, and
Course #	Semester	Credits	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

# Step 1: REVIEW YOUR PROGRAM REQUIREMENTS CONTINUED:

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

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

<b>CHEMISTRY Requireme</b>	nt:	<b>(16-</b> :	18 credits)
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	

<b>MATH Requirement:</b>		(6-8 c	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

<b>PHYSICS</b> Requirement	it:	(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	

			FREE	ELECTIVES				
Course	Semester	Credits	Grade		Course	Semester	Credits	Grade
				1				

## Cell & Molecular Biology - B.S. THE UNIVERSITY OF RHODE ISLAND **General Option** 120 Total Earned Credits

## 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.

#### LIST COURSES THAT MEET GENERAL EDUCATION: LIST COURSE AS EACH OUTCOME IS MET:

	Gener	al Educ	atior	n Credit Cou	unt	
At				ore than 12 ourse code		
Course	Credits	Grade		Course	Credits	Grade
				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

\*course fulfills general education and a major requirement

General Education Outcome	Audit	
	Course	Grade
KNOWLEDGE		
A1. STEM		
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		
<b>C1.</b> Civic knowledge & responsibilities		
C2. Global responsibilities		
C3. Diversity & Inclusion		
INTEGRATE & APPLY		
<b>D1.</b> Ability to synthesize		
GRAND CHALLENGE		
<b>G. A</b> 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 24 credits and a minimum cumulative gpa of 2.0 or better.

**Advising Notes:** 

#### B.S. Cell & Molecular Biology -General Option Sample 4 Year Plan - Effective Fall 2024 College of the Environment & Life Sciences

	Freshman Year Fall Semes	ster	_	Freshman Year Spring Seme	3161
Course Code	Description	Cr	Course Code	Description	Cr
URI 101	Planning for Academic Success	1	*BIO 102/104	Principles of Biology II/Lab	4
*BIO 101/103	Principles of Biology I/Lab	4	*CHM 112/114	General Chemistry II/Lab	4
*CHM 101/102	General Chemistry I/Lab	4		2nd required CSC, MTH, or STA course	3-4
*MTH	Precalculus, Applied Calculus I, or Introductory Calculus	3-4		*General Education	3-4
	*General Education	3-4		*General Education	3-4
		15-17			15-17
Year 1 Mileston 2.0 or higher.	es: Complete BIO 101, 103, 102, 104, C	<b>HM</b> 101, 10	2, 112, 114, <b>MTH</b> 1	31 or 141. Earn 30 credits with a cumulativ	e GPA of
	Sophmore Year Fall Seme	ster		Sophmore Year Spring Seme	ester
Course Code	Description	Cr	Course Code	Description	Cr
CHM 227	Organic Chemistry Lecture I	3	CHM 228	Organic Chemistry Lecture II	3
*CMB 211	Intgrative Microbiology	4	CMB 311	Introductory Biochemistry Lecture	3
*PHY	General Physics I Lecture/Lab	4	*PHY	General Physics II Lecture/Lab	4
	*General Education	3-4		*General Education	3-4
				*General Education	3-4
	*General Education	3-4			
	es: Complete CMB 211. Begin Organic /internship opportunities and plan year 3	<b>15-17</b> Chemistry s		ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe	r.
	es: Complete CMB 211. Begin Organic	<b>15-17</b> Chemistry s		ysics sequence. Meet with a CMB Faculty	advisor to r.
	es: Complete CMB 211. Begin Organic /internship opportunities and plan year 3	<b>15-17</b> Chemistry s		ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe	advisor to r.
discuss research Course Code	es: Complete CMB 211. Begin Organic /internship opportunities and plan year 3 Junior Year Fall Semester Description Organic Chemistry Lab	15-17 Chemistry s and 4 cours Cr 2	Course Code	ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe Junior Year Spring Semeste	advisor to r. <b>r</b>
discuss research Course Code CHM 226	es: Complete CMB 211. Begin Organic /internship opportunities and plan year 3 Junior Year Fall Semester Description Organic Chemistry Lab Immunology and Serology	15-17 Chemistry s and 4 cours Cr	Course Code	ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe Junior Year Spring Semeste Description General Genetics CMB Laboratory course	advisor to r. <b>r</b> Cr
discuss research Course Code CHM 226 CMB 333	es: Complete CMB 211. Begin Organic /internship opportunities and plan year 3 Junior Year Fall Semester Description Organic Chemistry Lab Immunology and Serology Cell Biology	15-17 Chemistry s and 4 cours Cr 2 3 3 3	Course Code	ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe Junior Year Spring Semeste Description General Genetics CMB Laboratory course Professional Elective	advisor to rr. <b>r</b> Cr 4
discuss research Course Code CHM 226 CMB 333	es: Complete CMB 211. Begin Organic /internship opportunities and plan year 3 Junior Year Fall Semester Description Organic Chemistry Lab Immunology and Serology Cell Biology *General Education/Free Elective	15-17     Chemistry s     and 4 course     Cr     2     3     3     3-4	Course Code	ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe Junior Year Spring Semeste Description General Genetics CMB Laboratory course Professional Elective *General Education/Free Elective	advisor to r. <b>r</b> <b>Cr</b> 4 2-3 3-4 3-4
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discuss research	es: Complete CMB 211. Begin Organic /internship opportunities and plan year 3 Junior Year Fall Semester Description Organic Chemistry Lab Immunology and Serology Cell Biology *General Education/Free Elective	15-17     Chemistry s     and 4 course     Cr     2     3     3     3-4	Course Code	ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe Junior Year Spring Semeste Description General Genetics CMB Laboratory course Professional Elective *General Education/Free Elective	advisor to r. <b>r</b> <b>Cr</b> 4 2-3 3-4 3-4
discuss research Course Code CHM 226 CMB 333 <i>BIO 341</i> Year 3 Milestone Meet with a CMB	es: Complete CMB 211. Begin Organic /internship opportunities and plan year 3 Junior Year Fall Semester Description Organic Chemistry Lab Immunology and Serology Cell Biology *General Education/Free Elective *General Education/Free Elective es: Complete BIO 341 (341 is only tau	15-17   Chemistry s   and 4 course   Cr   2   3   3-4   3-4   15-17   upth in the F	Course Code CMB 352 CMB	ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe Junior Year Spring Semeste Description General Genetics CMB Laboratory course Professional Elective *General Education/Free Elective	advisor to r. <b>r</b> <b>Cr</b> 4 2-3 3-4 3-4 3-4 3-4 3-4 <b>15-17</b> sequence.
discuss research Course Code CHM 226 CMB 333 <i>BIO 341</i> Year 3 Milestone Meet with a CMB	es: Complete CMB 211. Begin Organic /internship opportunities and plan year 3 Junior Year Fall Semester Description Organic Chemistry Lab Immunology and Serology Cell Biology *General Education/Free Elective *General Education/Free Elective es: Complete BIO 341 (341 is only tau a Faculty advisor to plan year 3 and 4 com	15-17   Chemistry s   and 4 course   2   3   3-4   3-4   3-4   3-4   15-17   but to the F   but to the F   but to the F	Course Code CMB 352 CMB	ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe Junior Year Spring Semeste Description General Genetics CMB Laboratory course Professional Elective *General Education/Free Elective *General Education/Free Elective	advisor to r. r Cr 4 2-3 3-4 3-4 3-4 3-4 3-4 15-17 sequence. e intent to
discuss research Course Code CHM 226 CMB 333 BIO 341 Year 3 Milestone Meet with a CMB	es: Complete CMB 211. Begin Organic /internship opportunities and plan year 3 Junior Year Fall Semester Description Organic Chemistry Lab Immunology and Serology Cell Biology *General Education/Free Elective *General Education/Free Elective es: Complete BIO 341 (341 is only tau Faculty advisor to plan year 3 and 4 conculty advisor for Fall submission.	15-17   Chemistry s   and 4 course   2   3   3-4   3-4   3-4   3-4   15-17   but to the F   but to the F   but to the F	Course Code CMB 352 CMB	ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe Junior Year Spring Semeste Description General Genetics CMB Laboratory course Professional Elective *General Education/Free Elective *General Education/Free Elective	advisor to r. r Cr 4 2-3 3-4 3-4 3-4 3-4 3-4 15-17 sequence. e intent to
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Course Code CHM 226 CHM 226 CMB 333 BIO 341 Year 3 Mileston Meet with a CMB graduate with fac Course Code CMB 495	es: Complete CMB 211. Begin Organic //internship opportunities and plan year 3 Junior Year Fall Semester Description Organic Chemistry Lab Immunology and Serology Cell Biology *General Education/Free Elective *General Education/Free Elective *General Education/Free Elective Es: Complete BIO 341 (341 is only tau Faculty advisor to plan year 3 and 4 con- culty advisor for Fall submission. Senior Year Fall Semester Description	15-17   Chemistry s   and 4 course   2   3   3-4   15-17   rght in the Furses. Earn   Cr	Course Code CMB 352 CMB	ysics sequence. Meet with a CMB Faculty edits with a cumulative GPA of 2.0 or highe <b>Junior Year Spring Semeste</b> Description General Genetics CMB Laboratory course Professional Elective *General Education/Free Elective *General Education/Free Elective *General Education/Free Elective Sa33, & 352. Complete Organic Chemistry a cumulative GPA of 2.0 or higher. Prepare Senior Year Spring Semeste Description	advisor to r. r Cr 4 2-3 3-4 3-4 3-4 3-4 3-4 15-17 sequence. e intent to r Cr
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