Cell & Molecular Biology	THE UNIVERSITY OF RHODE ISLAND	Student:	
General Option		Student ID:	
EL_CMBI_BS		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 & Mo	olecular Biolo	gy (CMB)	General				40 Credits
Concentr	ation Course	S					(15 Credits)
Course Nan	ne		Course #	Course #		Credits	Grade
Integrative	egrative Microbiology			=		4	
Introducto	ry Biochemist	ry	CMB 311			3	
Immunolo	gy and Serolog	gy	CMB 333			3	
General G	enetics		CMB 352			4	
Seminar in Biology	Cell and Mole	ecular	CMB 495			1	
Biologica	l Sciences (BI	IO)					(3 Credits)
Course Na	me		Course #		Semester	Credits	Grade
Principles	of Cell Biology		CMB 341			3	
CMB Lab	oratory Cour	ses: Select	t 4 credits f	rom the fol	lowing list o	of	(4 Credits)
approved	l laboratory (courses					
Course Nan	ne		Course #		Semester	Credits	Grade
Introducto	ry Biochemist	ry Lab	CMB 312			2	
Medical & F Lab	Public Health Mi	crobiology	CMB 332			2	
Genetics L	aboratory		CMB 353			1	
Advanced	Biochemistry	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 follow	ving: Any :	300 level or	higher CML	3 course, BF	PS 535, and
Course #	Semester	Credits	Grade	Course #	Semester	Credits	Grade

Minimum 2.0 cumulative GPA required in
major and overall for graduation.
Major GPA =
Overall GPA =
*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 credits)	
Course	Semester	Credits	Grade
*BIO 101		3	
*BIO 103		1	
*BIO 102		3	
*BIO 104		1	

CHEMISTRY Requireme	(16-18 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						

MATH Requirement:		(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

PHYSICS Requiremen	t:	(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		
							·			

Effective: 2025-2026

Cell & Mol	ecular Bio	ology - B	3.S.	THE UNI	VERSITY	OF RH	ODE ISLAND Student:		
General O	otion						Student ID:		_
120 Total E	arned Cr	edits					Advisor:		
									_
General E					_			_	
							s (A1-D1) must be met by at least 3 credit		
_	-						be double counted towards the 40 credit than twelve credits can have the same co		
					•		equirements of the major or minor when		
appropriat	e.			•			,		
LIST COUR				ERAL EDUC	_		LIST COURSE AS EACH OUTCOME IS N		
Λ+				n Credit Cou nore than 1	-		General Education Outcome	Course	Grade
A		,		course code			KNOWLEDGE	Course	Jorade
Course	Credits	Grade		Course	Credits	Grade	A1. STEM		
	0.00.00	0.000	l		0.000	0.000	A2. Social & Behavioral Sciences		
			İ				A3. Humanities		
			1				A4. Arts & Design		
			1				COMPETENCIES		
							B1. Write effectively		
							B2. Communicate effectively		
							B3. Mathematical, statistical, or		
							computational strategies		<u> </u>
							B4. Information literacy	<u> </u>	
							RESPONSIBILITIES		
			ļ						
				Total			C1. Civic knowledge & responsibilities		+
				Credits			C2. Global responsibilities		+
-							C3. Diversity & Inclusion		
				IEET MORE T			INTEGRATE & APPLY		
-				T MIGHT BE (DITS. HOWEV			D1. Ability to synthesize		
				NERAL EDUC	•	,,,,,,,	GRAND CHALLENGE		
*	ı f :lla aa	اممامد	+:-			wa wa a wa t	G. A t least one course of your 40		
course tu	iiiis gene	rai educ	catio	on and a ma	ıjor requi	rement	credits is an approved "G" course		
								<u> </u>	

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.

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Effective: 2025-2026

B.S. Cell & Molecular Biology -General Option Sample 4 Year Plan - Effective Fall 2025 College of the Environment & Life Sciences

Freshman Year Fall Semester

Freshman Year Spring Semester

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Course Code	Description	Cr		
URI 101	Planning for Academic Success	1		*B
*BIO 101/103	Principles of Biology I/Lab	4		*C
*CHM 101/102	General Chemistry I/Lab	4	ľ	
*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	Integrative 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
CMB 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
CMB	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 CMB 341, 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
	Professional 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.