Cell & Molecular Biology General Option

THE UNIVERSITY OF RHODE ISLAND

Student:	
Student ID:	
Advisor:	

120 Earned Credits Total

EL_CMBI_BS

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.

<u>Step 1:</u> RE	VIEW YOUR P	ROGRAM R	EQUIREME	NTS			
Cell & Mo	lecular Biolog	y (CMB) -G	eneral				40 Credits
Concentration Courses (15 Credi					(15 Credits)		
Course Nam	e		Course #		Semester	Credits	Grade
Introductor	y Microbiology		*CMB 211			4	
Introductor	ry Biochemistry		CMB 311			3	
Immunolog	gy and Serology		CMB 333			3	
General Ge	netics		CMB (BIO) 3	52		4	
Research in	Cell and Molec	cular Biology	CMB 491 (fa 492(spring)	II) or		1-6	
Seminar in	Cell and Molecu	ular Biology	CMB 495			1	
Biological	Biological Sciences (BIO) (3 Credits					(3 Credits)	
Course Nam	ne		Course #		Semester	Credits	Grade
Principles o	of Cell Biology		BIO 341			3	
CMB Labo						(4 Credits)	
approved	laboratory co	urses					
Course Nam	e		Course #		Semester	Credits	Grade
Introductor	ry Biochemistry	Lab	CMB 312		Spring	_ 2	
Genetics La	boratory		CMB (BIO) 3	53		1	
Advanced E	Biochemistry La	b I	CMB 412		Spring	_ 3	
Advanced N	Microbiology La	b I	CMB 415		Fall	2	
Advanced N	Microbiology La	b II	CMB 416		Spring	_ 2	
Professional Electives: (18 Credits)							
Select 18 credits from the following: Any 300 level or higher CMB course, CMB(BIO) 437, 453, BPS 535, and PHY 430							
Course #	Semester	Credits	Grade				

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

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Overall GP	Δ =

Effective: 2019-2020

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

Step 1: REVIEW YOUR PROGRAM REQUIREMENTS CONTINUED:

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

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

CHEMISTRY Requirement:		(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	

FREE ELECTIVES			
Course	Semester	Credits	Grade

MATH Requirement:		((6-8 credits)
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 credits)
Course	Semester	Credits	Grade
*PHY 111		3	
*PHY 185		1	
OR	<u> </u>		-
*PHY 203 Preferred		3	
*PHY 273 Preferred		1	
AND			
Course	Semester	Credits	Grade
*PHY 112		3	
*PHY 186		1	
OR			
*PHY 204 Preferred		3	
*PHY 274 Preferred		1	

Effective: 2019-2020

Cell & Molecular Biology - B.S. The General Option

THE UNIVERSITY OF RHODE ISLAND

Student:	
Student ID:	
Advisor:	

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	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

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	CMB 211
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:	-					

Effective: 2019-2020

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

B.S. Cell & Molecular Biology -General Option Sample 4 Year Plan - Effective Fall 2019 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

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

	<u> </u>	
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
CMB	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.