

Program Planning Guide

Bachelor of Science: Biochemistry and Molecular Biology

YOUR COURSE PLANNING: This worksheet has been created as a guide for admitted students. Note, your course planning may look different than another student; this worksheet has been designed for students wishing to complete their program within a four-year timeline. Students may elect to take part-time studies or a reduced course load. Refer to the [Undergraduate Academic Regulations](#) within the Undergraduate Calendar for more information.

For requirements that have a “pick list” (i.e. *choose one of*) please visit the Undergraduate Calendar to see a detailed list. The list or requirements may change, so please ensure you follow the appropriate requirements (the [2025-2026 Undergraduate Calendar](#)). After July 1, 2025, you can find the calendar in a [PDF format](#).

100/200 Level Requirements			
Requirements	Credit Hours	Course Selected	Done
BIOL 103	3		
BIOL 104	3		
BIOL 123	1		
BIOL 124	1		
CHEM 100	3		
CHEM 101	3		
CHEM 120	1		
CHEM 121	1		
MATH 100	3		
MATH 101	3		
PHYS 100 or PHYS 110	4		
PHYS 101 or PHYS 111	4		
BCMB 255	2		
BIOL 203	3		
BIOL 210	3		
CHEM 201	3		
CHEM 203	3		
CHEM 204	3		
CHEM 250	1		
CHEM 251	1		
STAT 240 or STAT 371	3		
300/400 Level Requirements			
BCMB 306	3		
BCMB 310	3		

300/400 Level Requirements			
Requirements	Credit Hours	Course Selected	Done
BCMB 320	3		
BCMB 340	3		
BIOL 311	3		
BCMB 404	3		
Pick list: students must choose four courses from their upper-division pick list .	3		
	3		
	3		
Subject requirements: students must choose nine additional credit hours from either BIOL, CHEM, BCMB or pick list , of which 6-credit hours must be at the 300/400-level	3		
	3		
	3		
Other			
Electives: any level	3		
	3		
	3		
	3		
	3		
	3		
	3		
	3		
	3		
	3		
	3		
	3		
	3		
Total Credit Hours		127	

BREADTH REQUIREMENT: As a part of this program, students will have satisfied their Natural Sciences breadth requirement (with the required BIOL courses), and Physical Sciences breadth requirement (with the required CHEM, MATH, and PHYS courses). As such, please take a three credit course for the Arts & Humanities and a three credit course for the Social Sciences [breadth requirement](#).

UNDERGRADUATE CALENDAR: It is the student's responsibility to be aware of all University of Northern British

EFFECTIVE SEPTEMBER 2025

NOTE: Although every attempt has been made to ensure the information on this worksheet is accurate, in the case of any discrepancy the Academic Calendar shall be considered the authority. This program planning worksheet is an unofficial planning tool for students new to UNBC and for students in a non-competitive entry program. Once you have been admitted, please use your degree evaluation as it is the official degree program-tracking document. You can find more information about how to use your degree evaluation at unbc.ca/advising.

Columbia [Undergraduate Calendar](#) regulations. Academic regulations, program information, course information, and pre-requisites can be found in this document.

Sample Sequencing Plan

First Year	
Fall	Winter
BIOL 103 and BIOL 123	BIOL 104 and BIOL 124
CHEM 100 and CHEM 120	CHEM 101 and CHEM 121
MATH 100	MATH 101
PHYS 100 or PHYS 110	PHYS 101 or PHYS 111
Elective (chosen to fulfill Academic Breadth)	Elective (chosen to fulfill Academic Breadth)
Second Year	
BIOL 210	BCMB 255
CHEM 201 and CHEM 250	BIOL 203
STAT 240 or STAT 371	CHEM 203 and CHEM 251
Elective	CHEM 204
Elective	Elective
Third Year	
BCMB 306	BCMB 320
BCMB 310	BCMB 340
BIOL 311	Elective, Pick-list, or Subject Requirement
Elective, Pick-list, or Subject Requirement	Elective, Pick-list, or Subject Requirement
Elective, Pick-list, or Subject Requirement	Elective, Pick-list, or Subject Requirement
Fourth Year	
BCMB 404	Elective, Pick-list, or Subject Requirement
Elective, Pick-list, or Subject Requirement	Elective, Pick-list, or Subject Requirement
Elective, Pick-list, or Subject Requirement	Elective, Pick-list, or Subject Requirement
Elective, Pick-list, or Subject Requirement	Elective, Pick-list, or Subject Requirement
Elective, Pick-list, or Subject Requirement	Elective, Pick-list, or Subject Requirement

Course Notes

- BCMB 340 requires completion of PHYS 101 or PHYS 111, and CHEM 204 with a minimum grade of C.
- BCMB 360 requires completion of CHEM 204 with a minimum grade of C.
- Missing high school Pre-Calculus 12 (or equivalent)? Students without Pre-Calculus 12 may register in MATH 115 as a prerequisite for MATH requirements, and co-requisite for CHEM 100/CHEM 120.

Advisor Notes

STUDENT ADVISING: Your Advisor is available for virtual drop-ins or bookable (in-person, Zoom, or phone) appointments – this schedule can be found at unbc.ca/advising/meet-your-advisor. You can also email any questions or information to fse.advising@unbc.ca.

DEGREE EVALUATIONS: The [Degree Evaluation](#) is an interpretation of the Undergraduate Calendar for the year that you were admitted and helps display the requirements needed for your program.

DOUBLE MAJORS: Students considering a double major should speak with their Student Advisor as soon as possible.

MINORS: To see available minors, please refer to the [Declaration of Minor form](#) or look in the Program pages of the [Undergraduate Calendar](#). Minors are a structured way to use your electives while also completing a secondary concentration.

RESIDENCY REQUIREMENT: Students must complete a minimum of 30 credit hours of upper division UNBC course work to receive a UNBC degree.

TIME LIMIT: Except by permission of the Dean, students must complete their undergraduate degree program within 15 years of their first semester of registration.

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