

BACHELOR OF SCIENCE / CHEMICAL BIOLOGY MAJOR

UNIVERSITY CORE (min. 44 cr. required)

Foundation Requirements (min. of 21-31 cr.)	cr #	✓
ENG 110 Composition (<i>can test out</i>)	0-3	
ENG 120 Critical Writing	4	
ENG 201 Writing in the Disciplines	3	
COM 200 Public Speaking	3	
CIS 101, CIS 103, CIT 110, CS 121, TS 105	3-4	
PHY 111 Physics I	4	
MAT 131 Calculus I	4	
Second Language Proficiency (<i>can test out</i>)		
<i>Two Language courses* selected from:</i>		
ARA/ASL/CHI/FRE/ITA/JPN/POR/RUS/SPA		
<i>*See second language placement policy</i>		
	0-3	
	0-3	
Total Foundation Credits=		

Areas of Knowledge (AOK; min. of 17 cr.)

See web class schedule for list of approved courses

	cr #	✓
Western Heritage - WH		
1 course (<i>formerly AOK 2</i>)		
World Cultures & Traditions - WCT		
1 course (<i>formerly AOK 3</i>)		
Humanistic & Creative Expressions - HCE		
1 course (<i>formerly AOK 4</i>)		
Analysis of Human, Social & Natural Phenomena - HSN		
1 course (<i>formerly AOK 5</i>)		
PHY 112 Physics II	4	
ONE additional course from WH, WCT, HCE, or HSN		
In-Depth Sequence (12 cr.)		
BIO 101 Biology I	4	
BIO 102 Biology II	4	
BIO 231 Genetics	4	

Required Learning Experiences:

1 Learning Community = LC (2 linked courses) or INT Course

1 Civic Engagement / Public Values = CE (*formerly AOK 1*)

2 Writing - Enhanced Courses = WEC

2 Anti-Racist Education Courses = ARE

All Can Be Satisfied by Core, Major, or Open Electives

Total Core Credits (min. of 44 cr. *)

MAJOR REQUIREMENTS (64-65 cr.)

Major Courses (53 cr.)	cr	✓
CHE 111 General Chemistry I	4	
CHE 112 General Chemistry II	4	
CHE 223 Organic Chemistry I	5	
CHE 224 Organic Chemistry II	5	
CHB/PHS 232 Bioanalytical Chemistry & Instrumentation	4	
CHE 300 Introduction to Physical Chemistry	4	
CHE 326/BIO 327 Biochemistry	4	
BIO 251 Principles of Human Anatomy	4	
CHB 200 Fundamentals of Chemical Biology	3	
CHB 301 Bioinformatics	3	
BIO 335 Molecular and Cellular Biology	4	
BIO 334 General Physiology	4	
CHB 392/492 Seminar in Chemical Biology I/II	2	
CHB 480 Research in Chemical Biology	3	

Major Elective (3-4 cr.)

Students select one course from the list below in consultation with an advisor.

PHS 200 Fundamentals of Pharm Sci	3	
BIO 359 Immunology	4	
BIO 325 Neurobiology	3	
CHE 370 Membrane Transport & Ionic Channels	3	
BIO 346 Intro to Gen Pharmacology	3	
CHE 221 Analytical Methods and Techniques	4	
CHE331 Instrumental Analysis	4	
BIO 264 Microbiology	4	

Required Math and Science Courses (8 cr.)

BIO 101 Biology I (in-depth sequence)	0	
BIO 102 Biology II (in-depth sequence)	0	
BIO 231 Genetics (in-depth sequence)	0	
MAT 131 Calculus I (taken in Core)	0	
MAT 132 Calculus II	4	
MAT 141 Introductory Statistics for Life Sciences	4	
PHY 111 Physics I (taken in Core)	0	
PHY 112 Physics II (taken in Core)	0	

Total Major Credits=

OPEN ELECTIVES (1-7 cr.)

Range of credits reflects variations in a student's Univ. Core (i.e., testing out 0-9 cr. and/or choosing up to three 3-cr. courses, instead of 4 cr., in foundation requirements).

UNV 101 First Year Seminar	1	
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Total Degree Credits (min. of 120*)=

(Core + Major + Elective)

Worksheet Effective Fall 2024 (9/28/23 DRAFT HC)