

Bachelor of Science, Honours in Biology, Minor in Chemistry
Program Grid

Note: This program grid is provided for guidance only. Degree completion is based on courses completed successfully and is subject to all applicable requirements and procedures in effect. Students should consult the B.Sc. Degree Advisor to confirm program requirements for their chosen degree.

Course Number	Course Name	Credits	Upper-Level Credits	Notes
English 1	100-level English	3		1
English 2	100-level English	3		1
MATH 121	Calculus I	4		
MATH 122	Calculus II	4		
Non-Science 100-499	Non-Science Elective I	3		2
Non-Science 100-499	Non-Science Elective II	3		2
BIOL 121A and 121L	Introductory Zoology	4		
BIOL 123A and 123L	Intro. Cellular & Molecular Biology	4		
CHEM 140A and 140L	Chemistry Fundamentals I	4		
CHEM 141A or 142A, and 142L	Chemistry Fundamentals II	4		
PHYS 111	Physics for the Life Sciences I	4		
PHYS 112	Physics for the Life Sciences II	4		
BIOL 200	Introduction to Cell Biology	3		
BIOL 201	Principles of Biochemistry I	3		
BIOL 202	Ecology	3		
BIOL 210	Microbiology I	4		
BIOL 212	Genetics	3		
BIOL 223	Botany	3		
CHEM 231	Organic Chemistry I	4		
CHEM 232	Organic Chemistry II	4		
MATH 203	Biometrics	3		
BIOL 305	Animal Physiology	3	3	
BIOL 402	Evolution	3	3	
BIOL 403	Current Topics in Biology	3	3	
BIOL 491	Undergraduate Research Project	6	6	
BIOL 300-499	Upper-Level Biology Elective I	3	3	3
BIOL 300-499	Upper-Level Biology Elective II	3	3	3
BIOL 300-499	Upper-Level Biology Elective III	3	3	3
BIOL 300-499	Upper-Level Biology Elective IV	3	3	3
BIOL 300-499	Upper-Level Biology Elective V	3	3	3
BIOL 300-499	Upper-Level Biology Elective VI	3	3	3
BIOL 300-499	Upper-Level Biology Elective VII	3	3	3
BIOL 300-499	Upper-Level Biology Elective VIII	3	3	3
BIOL 300-499	Upper-Level Biology Elective IX	3	3	3
CHEM 200-299	200-Level Chemistry Elective	3		4
CHEM 300-499	Upper-Level Chemistry Elective I	3	3	5
CHEM 300-499	Upper-Level Chemistry Elective II	3	3	5
CHEM 300-499	Upper-Level Chemistry Elective III	3	3	5
CHEM 300-499	Upper-Level Chemistry Elective IV	3	3	5
	TOTAL:	131	54	

See notes on the next page /...

NOTES:

1. The Degree English Requirement can be met as follows:
 - Two of ENGL 115 (or 117), 125 (or 127), 135, 204, or an INTR course that includes a ENGL course exemption; or,
 - LBST 111 and 112.
2. Non-Science Electives can be any courses outside of the Science discipline numbered 100-499. The following courses may not be counted to meet this requirement, although they may be counted as general electives:
 - Any course beginning with the following discipline identifiers: AQUA, ASTR, BIOL, CHEM, CSCI, ENGC, ENGE, ENGM, ENGR, FISH, FRST, GEOL, MATH, PHYS, RMOT, QUME, and SCIE.
 - Anthropology: ANTH 111, 213, 214, 341B, 342, 343, 344, 350, 351, 352, 353 361, 401, 430, 449, 460.
 - Geography: GEOG 211, 212, 221, 226, 228, 326, 328, 372, 373, 374, 376, 426, 428.
 - Psychology: PSYC 204, 205, 300A, 300B, 301, 302, 305, 315, 316, 318, 319, 323, 324, 345, 365, 400, 415, 419, 445, 490, 491, 498A.
 - Kinesiology: KIN 201, 220, 301, 302, 400, 401.
3. Upper-Level Biology Electives can be any BIOL course numbered 300-499.
4. The 200-Level Chemistry Elective can be any CHEM course numbered 200-299.
 - Note: Students should check upper-level course prerequisites to guide selection of the 200-Level Chemistry Electives.
5. Upper-Level Chemistry Electives can be any CHEM course numbered 300-499.

ADMISSION REQUIREMENTS:

- A minimum GPA of 3.67 (A-) on the most recent 45 credits of study.
- All core 100-level courses and at least 21 credits of core 200-level courses including MATH 203 must be completed before the start of BIOL 491.
- Students must identify a faculty advisor who is willing to supervise the research project.
- Students who meet the minimum requirements are not guaranteed admission in the program and space may be limited.
- Students must submit Honours and BIOL 491 application forms by February 15 of the third year of studies.

GRADUATION REQUIREMENTS:

- Honours students need a minimum GPA of 3.67 (A-) on all Upper-Level BIOL courses in order to graduate in the Honours program.
- Honours students must achieve a minimum grade of A- in BIOL 491.
- Students who complete the Honours requirements but do not meet these grade requirements will graduate with the Major in Biology.