



VANCOUVER ISLAND
UNIVERSITY

Bachelor of Science, Major in Biology, Minor in Mathematics
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 100 or 121	Calculus I	3		
MATH 101 or 122	Calculus II	3		
Non-Science 100-499	Non-Science Elective I	3		2
Non-Science 100-499	Non-Science Elective II	3		2
BIOL 121	Introductory Zoology	4		
BIOL 123	Intro. Cellular & Molecular Biology	4		
CHEM 111, 121 or 140	Chemistry Fundamentals I	4		
CHEM 122, 141 or 142	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	3		
BIOL 202	Ecology	3		
BIOL 210	Microbiology I	3		
BIOL 212	Genetics	3		
BIOL 223	Botany	3		
CHEM 231	Organic Chemistry I	3		
CHEM 232	Organic Chemistry II	3		
MATH 211	Statistics I	3		
BIOL 305	Animal Physiology	3	3	
BIOL 402	Evolution	3	3	
BIOL 403	Current Topics in Biology	3	3	
BIOL 320, 336/337 or 341	Specialization Course I	3	3	3
BIOL 322, 332 or 342	Specialization Course II	3	3	3
BIOL 300-499	Upper-Level Biology Elective I	3	3	4
BIOL 300-499	Upper-Level Biology Elective II	3	3	4
BIOL 300-499	Upper-Level Biology Elective III	3	3	4
BIOL 300-499	Upper-Level Biology Elective IV	3	3	4
BIOL 300-499	Upper-Level Biology Elective V	3	3	4
MATH 110	Additional Calculus Topics	1		5
MATH 123	Logic and Foundations	3		
MATH 200	Calculus of Several Variables	3		
MATH 241	Linear Algebra	3		
MATH 223 or 251	200-Level Mathematics Elective	3		6
MATH 300-499	Upper-Level Mathematics Elective I	3	3	7
MATH 300-499	Upper-Level Mathematics Elective II	3	3	7
MATH 300-499	Upper-Level Mathematics Elective III	3	3	7
MATH 300-499	Upper-Level Mathematics Elective IV	3	3	7
MATH 300-499	Upper-Level Mathematics Elective V	3	3	7
MATH 300-499	Upper-Level Mathematics Elective VI	3	3	7
	TOTAL:	130	48	

See notes on the next page /...

NOTES:

1. The Degree English Requirement can be met as follows:
 - ENGL 115 and one of ENGL 111, 112, 116, 125, 135 or 225;
 - ENGL 111 and 112;
 - ENGL 125 and 135; 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, 361, 401, 430, 449, 460.
 - Geography: GEOG 211, 212, 221, 226, 228, 326, 328, 372, 373, 374, 376, 428.
 - Psychology: PSYC 200, 204, 205, 206, 300A, 300B, 301, 302, 315, 316, 317A, 319, 323, 324, 345A, 365, 400, 445, 490, 491.
 - Physical Education: PHED 201, 210, 220, 302, 400.
3. The Biological Specialization can be chosen from the following options:
 - Microbial Biology: BIOL 332, and BIOL 336 or BIOL 337.
 - Molecular and Cellular Biology: BIOL 341 and BIOL 342.
 - Aquatic and Terrestrial Ecology: BIOL 320 and BIOL 322.
4. Upper-Level Biology Electives can be any BIOL course numbered 300-499.
5. Students who complete MATH 100 and 101 do not need to complete MATH 110. Also, students who have achieved a grade of "B" or higher in both MATH 121 and 122 do not need to complete MATH 110.
6. The 200-Level Mathematics Option can be chosen from MATH 223 or 251.
7. Upper-Level Mathematics Electives can be any MATH course numbered 300-499.