



VANCOUVER ISLAND
UNIVERSITY

Bachelor of Science, Major 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	3		
MATH 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
CHEM 213, 221, 222, or PHYS 215	200-Level Chemistry Elective	3		5
CHEM 300-499	Upper-Level Chemistry Elective I	3	3	6
CHEM 300-499	Upper-Level Chemistry Elective II	3	3	6
CHEM 300-499	Upper-Level Chemistry Elective III	3	3	6
CHEM 300-499	Upper-Level Chemistry Elective IV	3	3	6
CHEM 300-499	Upper-Level Chemistry Elective V	3	3	6
CHEM 300-499	Upper-Level Chemistry Elective VI	3	3	6
Elective 100-499	General Elective I	3		7
Elective 100-499	General Elective II	3		7
TOTAL:		126	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.
 - Students have the option to complete a research project in their final year: BIOL 490 (3 credits) or 491 (6 credits).
 - Students interested in taking BIOL 490 or 491 should consult the B.Sc. Degree Advisor.
5. The 200-Level Chemistry Elective can be chosen from CHEM 213, 221, 222, 232 (double-minor only), or PHYS 215.
6. Upper-Level Chemistry Electives can be any CHEM course numbered 300-499.
7. General Electives can be courses in any discipline numbered 100-499.