



VANCOUVER ISLAND
UNIVERSITY

Bachelor of Science, Major in Mathematics, 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
Non-Science 100-499	Non-Science Elective I	3		2
Non-Science 100-499	Non-Science Elective II	3		2
MATH 100 or 121	Calculus I	3		
MATH 101 or 122	Calculus II	3		
CSCI 159	Computer Science I	4		
CSCI 161	Computer Science II	4		
MATH 123	Logic and Foundations	3		
MATH 221	Calculus III	3		
MATH 223	Discrete and Combinatorial Math	3		
MATH 241	Linear Algebra	3		
MATH 254	Statistics I	3		3
MATH 222 or 251	200-Level Mathematics Option	3		
MATH 330	Introduction to Abstract Algebra	3	3	
MATH 335	Numerical Analysis I	3	3	
MATH 371	Introductory Real Analysis	3	3	
MATH 372	Introductory Complex Variables	3	3	
MATH 300-499	Upper-Level Mathematics Elective I	3	3	4
MATH 300-499	Upper-Level Mathematics Elective II	3	3	4
MATH 300-499	Upper-Level Mathematics Elective III	3	3	4
MATH 300-499	Upper-Level Mathematics Elective IV	3	3	4
MATH 400-499	400-Level Mathematics Elective I	3	3	5
MATH 400-499	400-Level Mathematics Elective II	3	3	5
CHEM 140	Chemistry Fundamentals I	4		
CHEM 141 or 142	Chemistry Fundamentals II	4		
CHEM 200-299	200-Level Chemistry Elective I	3		6
CHEM 200-299	200-Level Chemistry Elective II	3		6
CHEM 200-299	200-Level Chemistry Elective III	3		6
CHEM 200-299	200-Level Chemistry Elective IV	3		6
CHEM 300-499	Upper-Level Chemistry Elective I	3	3	7
CHEM 300-499	Upper-Level Chemistry Elective II	3	3	7
CHEM 300-499	Upper-Level Chemistry Elective III	3	3	7
CHEM 300-499	Upper-Level Chemistry Elective IV	3	3	7
CHEM 300-499	Upper-Level Chemistry Elective V	3	3	7
CHEM 300-499	Upper-Level Chemistry Elective VI	3	3	7
Elective 100-499	General Elective I	3		8
Elective 100-499	General Elective II	3		8
Elective 100-499	General Elective III	3		8
Elective 100-499	General Elective IV	3		8
TOTAL:		124	48	

See notes on the next page /...

NOTES:

1. The Degree English Requirement can be met as follows:
 - Two of ENGL 115, 125, 135, 204, or INTR 100; 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, 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.
 - Physical Education: PHED 201, 220, 301, 302, 400, 401.
3. Students interested in advanced courses in statistics (MATH 325, 326, or 421) are recommended to also take MATH 255.
4. Upper-Level Mathematics Electives can be any course selected from the following options:
 - CSCI 320, 340; MATH 300, 310, 317, 320, 325, 326, 331, 340, 341, 345, 346, 350, 360, 362, 370, 421, 430, 441, 443, 450, 451, 465, 470, 471, or 472.
5. The 400-Level Mathematics Electives can be any MATH course selected from the following options:
 - MATH 421, 430, 441, 443, 450, 451, 465, 470, 471, or 472.
6. The 200-Level Chemistry Electives can be any CHEM course numbered 200-299 or BIOL 201.
 - Note: Students should check upper-level course prerequisites to guide selection of the 200-Level Chemistry Electives.
7. Upper-Level Chemistry Electives can be any CHEM course numbered 300-499.
8. General Electives can be courses in any discipline numbered 100-499.