VANCOUVER ISLAND UNIVERSITY

Bachelor of Science, Major in Computer Science and 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
ENGL 115	University Writing and Research	3		
ENGL 204	Business and Technical Writing	3		
MATH 121	Calculus I	3		
MATH 122	Calculus II	3		
Non-Science 100-499	Non-Science Elective I	3		1
Non-Science 100-499	Non-Science Elective II	3		1
CSCI 160	Computer Science I	4		
CSCI 161	Computer Science II	4		
CSCI 162	Topics in Computer Science	4		
MATH 123	Logic and Foundations	3		
CSCI 251	Systems and Networks	3		
CSCI 260	Data Structures	3		
CSCI 261	Comp. Architecture & Assembly Lang.	3		
CSCI 265	Software Engineering	3		
MATH 223	Discrete and Combinatorial Mathematics	3		
MATH 241	Linear Algebra	3		
CSCI 310	Intro. to Human-Computer Interaction	3	3	
CSCI 311	Web Programming	3	3	
CSCI 320	Foundations of Computer Science	3	3	
CSCI 330	Programming Languages	3	3	
CSCI 355	Digital Logic and Computer Organization	3	3	
CSCI 360	Intro to Operating Systems	3	3	
CSCI 370	Database Systems	3	3	
CSCI 400	Computers and Society	3	3	
CSCI 460	Networks and Communications	3	3	
CSCI 300-499	Upper-Level Computer Sci. Elective	3	3	2
CSCI 400-499	400-Level Computing Sci. Elective I	3	3	3
CSCI 400-499	400-Level Computing Sci. Elective II	3	3	3
CHEM 140	Chemistry Fundamentals I	4		
CHEM 141 or 142	Chemistry Fundamentals II	4		
CHEM 200-299	200-Level Chemistry Elective I	3		4
CHEM 200-299	200-Level Chemistry Elective II	3		4
CHEM 200-299	200-Level Chemistry Elective III	3		4
CHEM 200-299	200-Level Chemistry Elective IV	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
CHEM 300-499	Upper-Level Chemistry Elective V	3	3	5
CHEM 300-499	Upper-Level Chemistry Elective VI	3	3	5
	TOTAL:	125	54	

See notes on the next page /…

NOTES:

1. 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.

2. Upper-Level Computer Science Elective can be any CSCI course numbered 300-499, except CSCI 307, 308 and 309.

3. 400-Level Computer Science Elective can be any CSCI course numbered 400-499.

4. 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.

5. Upper-Level Chemistry Electives can be any CHEM course numbered 300-499.