



VANCOUVER ISLAND
UNIVERSITY

Bachelor of Science, Major in Geoscience¹, Minor in Biology
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		2
English 1	100-level English	3		2
MATH 121	Calculus I	3		
MATH 122	Calculus II	3		
Non-Science 100-499	Non-Science Elective I	3		3
CHEM 140	Chemistry Fundamentals I	4		
CHEM 141 or 142	Chemistry Fundamentals II	4		
GEOG 101	Environmental Geography	3		4
GEOL 111	Discovering Planet Earth	4		
GEOL 112	Understanding Earth's History	4		
GEOL 115	Lab & Field Studies in Earth Science	3		
GEOG 211	Atmospheric Environments	3		
GEOG 212	Earth Environments	3		
GEOG 228	Spatial Analysis	3		
GEOL 200	Mineralogy and Petrology	3		
GEOL 201	Sedimentology and Stratigraphy	3		
GEOL 202	Earth Structures	3		
GEOL 206	Field Geology and Geol. Mapping	3		
MATH 211 or 254	Statistics I	3		
GEOG 328	Geographic Information Systems	3	3	
GEOL 300	Igneous and Metamorphic Petrology	3	3	
GEOL 300-499	Upper-Level Geology Elective I	3	3	5
GEOL 300-499	Upper-Level Geology Elective II	3	3	5
GEOL 300-499	Upper-Level Geology Elective III	3	3	5
GEOG 300-499	Upper-Level Geography Elective I	3	3	6
GEOG 300-499	Upper-Level Geography Elective II	3	3	6
GEOG 300-499	Upper-Level Geography Elective III	3	3	6
GEOL or GEOG 300-499	Upper-Level Geoscience Elective I	3	3	7
GEOL or GEOG 300-499	Upper-Level Geoscience Elective II	3	3	7
BIOL 121	Introductory Zoology	4		
BIOL 123	Intro. Cellular & Molecular Biology	4		
BIOL 201	Principles of Biochemistry	3		
BIOL 200, 202, 210, 212, or 223	200-Level Biology Elective I	3		8
BIOL 200, 202, 210, 212, or 223	200-Level Biology Elective II	3		8
CHEM 231	Organic Chemistry I	3		
BIOL 300-499	Upper-Level Biology Elective I	3	3	9
BIOL 300-499	Upper-Level Biology Elective II	3	3	9
BIOL 300-499	Upper-Level Biology Elective III	3	3	9
BIOL 300-499	Upper-Level Biology Elective IV	3	3	9
BIOL 300-499	Upper-Level Biology Elective V	3	3	9
BIOL 300-499	Upper-Level Biology Elective VI	3	3	9
TOTAL:		129	48	

See notes on the next page /...

1. The professional association Engineers and Geoscientists of BC (EGBC; <https://www.egbc.ca/>) has additional requirements for professional registration beyond those stated here. For more information, see the EGBC webpage to determine lower-level and upper-level requirements that are required or recommended to pursue registration for this professional certification (<https://bit.ly/2AEL6c2>).
 - These requirements may affect course selection at various levels, including: English, upper-level geoscience electives and general electives.
 - Academic requirements differ between “environmental geoscience” and “geology” registration categories.
2. The Degree English Requirement can be met as follows:
 - Two of ENGL 115, 125, 135, 204, or INTR 100; or,
 - LBST 111 and 112.
3. Non-Science Elective can be any course 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.
4. GEOG 101 will be applied towards the Non-Science Elective Requirement (6 credits) for the Bachelor of Science degree and therefore 3 more credits (i.e., Non-Science Elective I) are required to meet this requirement.
5. Upper-Level Geology Electives can be any GEOL course numbered 300-499. GEOL 480, 490 and 491 cannot be used to meet the Upper-Level Geology Electives requirement.
6. Upper-Level Geography Electives must be chosen among GEOG 326, 372, 373, 374, 376 or 428. Only one of GEOG 326 or 428 can be used to meet the Upper-Level Geography Electives requirement.
7. Upper-Level Geoscience Electives can be any eligible courses listed in notes 5 and 6 (above), including GEOL 390, 480, 490 or 491, which have not been used as Upper-Level Geology or Upper-Level Geography Electives.
8. The 200-Level Chemistry Elective 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.
9. Upper-Level Biology Electives can be any BIOL course numbered 300-499.