



VANCOUVER ISLAND
UNIVERSITY

Bachelor of Science, Major in Geoscience¹, Minor in Computer Science
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 |
| 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 260 | Data Structures | 3 | | |
| CSCI 265 | Software Engineering | 3 | | |
| CSCI 370 | Database Systems | 3 | 3 | |
| CSCI 300-499 | Upper-Level Comp. Sci. Elective I | 3 | 3 | 8 |
| CSCI 300-499 | Upper-Level Comp. Sci. Elective II | 3 | 3 | 8 |
| CSCI 300-499 | Upper-Level Comp. Sci. Elective III | 3 | 3 | 8 |
| CSCI 300-499 | Upper-Level Comp. Sci. Elective IV | 3 | 3 | 8 |
| CSCI 300-499 | Upper-Level Comp. Sci. Elective V | 3 | 3 | 8 |
| TOTAL: | | 130 | 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, 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.
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. Upper-Level Computer Science Electives can be any CSCI course numbered 300-499.
 - Students should check upper-level course prerequisites to guide second-year course selection. Some upper-level CSCI courses may require completion of a greater number of second-year courses than is required by the Minor.