



ENGINEERS &  
GEOSCIENTISTS  
BRITISH COLUMBIA

# Vancouver Island University

## Environmental Geoscience Course Equivalent Listing

(Updated March 2024)

### Instructions:

Prior to beginning, please ensure that you have reviewed the [Guideline to Completing Geoscience Checklists & Course Descriptions](#).

- A course can only be listed one time on the entire checklist
- Courses you list need to correspond to the course codes that appear on your transcript
  - If you are claiming courses from more than one institution, please clearly indicate the institution name where the course was completed.
- Courses must be acceptable for credit in the Faculty of Science or Applied Science
- If you are unsure which subject a course may be claimed towards, please choose the most relevant subject and indicate your uncertainty. Reviewers will try to determine the suitable subject.
- Note that EGBC staff or volunteers may contact the applicant for additional information during the assessment if additional information or clarification is required.

This course listing is a reflection of Engineers & Geoscientists BC's adoption of the Geoscientists Canada [Geoscience Knowledge Requirements](#). In consultation with the school, the courses in this document have been identified as equivalent to the subjects listed. Note that course codes can be subject to change at any time.

Name: \_\_\_\_\_

System ID#: \_\_\_\_\_

**ENGINEERS AND GEOSCIENTISTS BC - ENVIRONMENTAL GEOSCIENCE CHECKLIST –  
VIU COURSE EQUIVALENT LIST**

*This Geoscience Checklist Should be Used as a Guide and May Be Subject to Change.*

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	Number	Description	VIU Course	For Applicant Use
<b>Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)</b>				
	FS-A1	Calculus (1 semester)	MATH 100, 121	
	FS-A2	Physics (1 semester)	PHYS 111, 121	
	FS-A3	Chemistry (1 semester)	CHEM 140	
<b>Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)</b>				
	COM-B1	Mathematics	MATH 101, 122 or any 200 level or higher	
	COM-B2	Chemistry	CHEM 141, 142 or any 200 level or higher	
	COM-B3	Physics	PHYS 112, 122 or any 200 level or higher	
	COM-B4	Biology	BIOL 121, 123 or any 200 level or higher	
	COM-B5	Computer Programming	CSCI 112, 160	
	COM-B6	Statistics	MATH 181 or 211 or 254 or GEOG 221	
<b>Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (All 4 Subjects Required – NO MORE THAN ONE COURSE IN EACH SUBJECT)</b>				
	COM-A1	Mineralogy & Petrology	GEOL 200	
	COM-A2	Sedimentation & Stratigraphy	GEOL 201	
	COM-A3	Structural Geology	GEOL 202	
	COM-A4*	Field Techniques	GEOL 206	
<p>*Applicants can choose to report work experience in lieu of taking a field techniques course offered by a post-secondary institution. Instructions can be found here:  <a href="https://www.egbc.ca/COM-A4-Field-Techniques-Instructions-for-Reporting-Experience-Updated-April-2023.pdf.aspx">COM-A4-Field-Techniques-Instructions-for-Reporting-Experience-Updated-April-2023.pdf.aspx</a> (egbc.ca)</p>				

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<b>Group: 2B – Foundation Environmental Geoscience – (5 Required)</b> <ul style="list-style-type: none"> <li>• <b>Must have at least one course in each group, and</b></li> <li>• <b>Maximum of two courses in each group</b></li> </ul>				
Group A	FEG-A1	Geophysics	GEOL 307	
	FEG-A2	Geochemistry	GEOL 308	
Group B	FEG-A3 (a)	Hydrology	GEOG 374	
	FEG-A3 (b)	Hydrogeology	GEOL 304	
	FEG-A4	Engineering Geology	GEOL 303	
Group C	FEG-A5 <small>*choose 1</small>	Geomorphology/ Soil Science	FRST 151 and 152; GEOG 376	
	FEG-A6	Glacial Geology	GEOL 305	
	FEG-A7	Remote Sensing or GIS	GEOG 326, 328	

[Group 2C – Electives on next page]

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<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) Multiple courses can be entered in each subject for only this section</b>				
Communication	EG-C1	Thesis	GEOL 491	
	EG-C2	Technical Writing	ENGL 204	
Earth Systems	EG-C3	Climatology	GEOG 372	
	EG-C4	Meteorology	NO EQUIVALENT COURSE	
	EG-C5	Oceanography	BIOL 362	
	EG-C6	Paleoenvironmental Studies	NO EQUIVALENT COURSE	
	EG-C7	Paleoclimatology	GEOL 412	
	EG-C8	Paleoecology	GEOG 373	
	EG-C9	Ecology	BIOL 202	
Environmental Assessment	EG-C10	Environmental Assessment.	RMOT 306	
Field Techniques	EG-C11	Field Techniques	GEOL 390	
Geochemistry	EG-C12	Environmental Geochemistry	CHEM 212	
	EG-C13	Isotope Geochemistry	NO EQUIVALENT COURSE	
	EG-C14	Aqueous Geochemistry	CHEM 301	
	EG-C15	Biogeochemistry	NO EQUIVALENT COURSE	
	EG-C16	Atmospheric Geochemistry	CHEM 302	
	EG-C17	Low Temperature Geochemistry	NO EQUIVALENT COURSE	

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<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required)</b>				
<b>Multiple courses can be entered in each subject for only this section</b>				
Geomorphology/ Surficial	EG-C18	Geomorphology	GEOL 301, GEOG 376	
	EG-C19	Natural Hazards	GEOL 312, 470	
	EG-C20	Quaternary Geology	GEOL 305	
	EG-C21	Pedology	FRST 151 <u>and</u> 152	
	EG-C22	Glaciology	NO EQUIVALENT COURSE	
Geophysics	EG-C23	Environmental Geophysics	NO EQUIVALENT COURSE	
	EG-C24	Exploration Geophysics	NO EQUIVALENT COURSE	
	EG-C25	Applied Geophysics	NO EQUIVALENT COURSE	
Geotechnical	EG-C26	Engineering Geology	GEOL 303	
	EG-C27	Soil Mechanics	NO EQUIVALENT COURSE	
	EG-C28	Rock Mechanics	NO EQUIVALENT COURSE	
	EG-C29	Resource Geotechnics	NO EQUIVALENT COURSE	
Hydrology/ Hydrogeology	EG-C30	Contaminant Transport	NO EQUIVALENT COURSE	
	EG-C31	Hydrogeology	GEOL 304	
	EG-C32	Hydrology	GEOG 374	
	EG-C33	Fluid Mechanics	NO EQUIVALENT COURSE	
Mineralogy/ Petrology	EG-C34	Crystallography	GEOL 300	
	EG-C35	X-Ray Crystallography	NO EQUIVALENT COURSE	

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	EG-C36	Analytical Methods	NO EQUIVALENT COURSE	
	<b>Number</b>	<b>Description</b>	<b>VIU Course</b>	<b>For Applicant Use</b>
<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required)</b>				
<b>Multiple courses can be entered in each subject for only this section</b>				
Paleontology	EG-C37	Micropaleontology	NO EQUIVALENT COURSE	
	EG-C38	Paleobiology	NO EQUIVALENT COURSE	
	EG-C39	Palynology	NO EQUIVALENT COURSE	
Quantitative Analysis	EG-C40	Geostatistics	NO EQUIVALENT COURSE	
	EG-C41	Computer Applications in Geoscience	NO EQUIVALENT COURSE	
	EG-C42	Geographic Information Systems	GEOG 328, 428	
Regional Geology	EG-C43	Geology of Canada	NO EQUIVALENT COURSE	
	EG-C44	Geology of North America	NO EQUIVALENT COURSE	
Remote Sensing	EG-C45	Remote Sensing	GEOG 326	
	EG-C46	Air Photo Interpretation	NO EQUIVALENT COURSE	
Resource Geology	EG-C47	Economic Geology	GEOG 302	
	EG-C48	Mineral Deposits	NO EQUIVALENT COURSE	
	EG-C49	Ore Petrology	NO EQUIVALENT COURSE	
	EG-C50	Coal Geology	NO EQUIVALENT COURSE	
	EG-C51	Petroleum Geology	NO EQUIVALENT COURSE	
	EG-C52	Industrial Minerals	NO EQUIVALENT COURSE	
	EG-C53	Chemical Sedimentology	NO EQUIVALENT COURSE	

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Sedimentology	EG-C54	Clastic Sedimentology	NO EQUIVALENT COURSE	
	EG-C55	Carbonate Sedimentology	NO EQUIVALENT COURSE	
	EG-C56	Glacial Geology	NO EQUIVALENT COURSE	
	EG-C57	Limnogeology	NO EQUIVALENT COURSE	
Stratigraphy	EG-C58	Historical Geology	NO EQUIVALENT COURSE	
	EG-C59	Sequence Stratigraphy	NO EQUIVALENT COURSE	
	EG-C60	Stratigraphic Paleontology	NO EQUIVALENT COURSE	
	EG-C61	Geochronology	NO EQUIVALENT COURSE	
Structure	EG-C62	Global Tectonics	NO EQUIVALENT COURSE	
	EG-C63	Tectonics	NO EQUIVALENT COURSE	
	EG-C64	Structural Geology	NO EQUIVALENT COURSE	

