



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

Vancouver Island University

Geology 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 - GEOLOGY CHECKLIST – VIU COURSE EQUIVALENT LIST

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

****Please note a course can only be used ONCE on the checklist****

	Number	Description	VIU Course	For Applicant Use
Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)				
	FS-A1	Calculus (1 semester)	MATH 100, 121	
	FS-A2	Physics (1 semester)	PHYS 111, 121	
	FS-A3	Chemistry (1 semester)	CHEM 140	
Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)				
	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	
Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (All 4 Subjects Required – NO MORE THAN ONE COURSE IN EACH SUBJECT)				
	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: COM-A4-Field-Techniques-Instructions-for-Reporting-Experience-Updated-April-2023.pdf.aspx (egbc.ca)</p>				

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Group: 2B – Foundation Geology – (5 Required) • Must have at least one course in each group, and • Maximum of two courses in each group				
Group A	FGL-A1	Geophysics	GEOL 307	
	FGL-A2	Geochemistry	GEOL 308	
Group B	FGL-A3	Igneous Petrology	GEOL 300	
	FGL-A4	Metamorphic Petrology	NO EQUIVALENT COURSE	
	FGL-A5	Sedimentary Petrology	NO EQUIVALENT COURSE	
Group C	FGL-A6	Sedimentology	NO EQUIVALENT COURSE	
	FGL-A7 <small>*Only <u>one</u> can be selected</small>	Glacial Geology or Geomorphology	GEOL 305, GEOG 376	
	FGL-A8	Remote Sensing or GIS	GEOG 326, 328	

[Group 2C – Electives on next page]

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Group: 2C – Other Geology – 11-EG – Electives (9 Required) Multiple courses can be entered in each subject for only this section				
Communication	GL-C1	Thesis	GEOL 491	
	GL-C2	Technical Writing	ENGL 204	
Earth Systems	GL-C3	Climatology	GEOG 372	
	GL-C4	Meteorology	NO EQUIVALENT COURSE	
	GL-C5	Oceanography	BIOL 362	
	GL-C6	Earth Systems	NO EQUIVALENT COURSE	
Environmental	GL-C7	Hydrogeology	GEOL 304	
	GL-C8	Hydrology	GEOG 374	
	GL-C9	Environmental Geology	GEOL 312	
	GL-C10	Limnogeology	NO EQUIVALENT COURSE	
	GL-C11	Biogeochemistry	NO EQUIVALENT COURSE	
Field Techniques	GL-C12	Field Techniques	GEOL 390	
Geochemistry	GL-C13	Exploration Geochemistry	NO EQUIVALENT COURSE	
	GL-C14	Environmental Geochemistry	CHEM 212	
	GL-C15	Isotope Geochemistry	NO EQUIVALENT COURSE	
	GL-C16	Aqueous Geochemistry	CHEM 301	

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Group: 2C – Other Geology – 11-EG – Electives				
(9 Required)				
Multiple courses can be entered in each subject for only this section				
Geomorphology	GL-C17	Quaternary Geology	GEOL 305	
	GL-C18	Pedology	FRST 151, 152	
	GL-C19	Geomorphology	GEOG 376, GEOL 301	
Geophysics	GL-C20	Physics of the Earth	NO EQUIVALENT COURSE	
	GL-C21	Exploration Geophysics	NO EQUIVALENT COURSE	
	GL-C22	Applied Geophysics	NO EQUIVALENT COURSE	
	GL-C23	Environmental Geophysics	NO EQUIVALENT COURSE	
Geotechnical	GL-C24	Natural Hazards	NO EQUIVALENT COURSE	
	GL-C25	Engineering Geology	GEOL 303	
	GL-C26	Soil Mechanics	NO EQUIVALENT COURSE	
	GL-C27	Rock Mechanics	NO EQUIVALENT COURSE	
Mineralogy	GL-C28	Crystallography	NO EQUIVALENT COURSE	
	GL-C29	X-Ray Crystallography	NO EQUIVALENT COURSE	
	GL-C30	Optical Mineralogy	NO EQUIVALENT COURSE	
	GL-C31	Analytical Methods	NO EQUIVALENT COURSE	
Paleontology	GL-C32	Micropaleontology	NO EQUIVALENT COURSE	
	GL-C33	Palynology	NO EQUIVALENT COURSE	
	GL-C34	Paleobiology	NO EQUIVALENT COURSE	
Petrology	GL-C35	Igneous Petrology	GEOL 300	
	GL-C36	Volcanology	NO EQUIVALENT COURSE	
	GL-C37	Metamorphic Petrology	NO EQUIVALENT COURSE	

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	GL-C38	Sedimentary Petrology	NO EQUIVALENT COURSE	
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Group: 2C – Other Geology – 11-EG – Electives				
(9 Required)				
Multiple courses can be entered in each subject for only this section				
Quantitative Analysis	GL-C39	Geostatistics	NO EQUIVALENT COURSE	
	GL-C40	Computer Applications in Geoscience	NO EQUIVALENT COURSE	
	GL-C41	Geographic Information Systems	GEOG 328, 428	
Regional Geology	GL-C42	Geology of Canada	NO EQUIVALENT COURSE	
	GL-C43	Geology of North America	NO EQUIVALENT COURSE	
Remote Sensing	GL-C44	Air Photo Interpretation	NO EQUIVALENT COURSE	
	GL-C45	Remote Sensing	GEOG 326	
Resource Geology	GL-C46	Economic Geology	GEOL 302	
	GL-C47	Mineral Deposits	NO EQUIVALENT COURSE	
	GL-C48	Ore Petrology	NO EQUIVALENT COURSE	
	GL-C49	Coal Geology	NO EQUIVALENT COURSE	
	GL-C50	Petroleum Geology	NO EQUIVALENT COURSE	
	GL-C51	Industrial Materials	NO EQUIVALENT COURSE	
Sedimentology	GL-C52	Chemical Sedimentology	NO EQUIVALENT COURSE	
	GL-C53	Clastic Sedimentology	NO EQUIVALENT COURSE	
	GL-C54	Carbonate Sedimentology	NO EQUIVALENT COURSE	
	GL-C55	Glacial Geology	GEOL 305	
	GL-C56	Historical Geology	NO EQUIVALENT COURSE	

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Stratigraphy	GL-C57	Sequence Stratigraphy	NO EQUIVALENT COURSE	
	GL-C58	Stratigraphic Paleontology	NO EQUIVALENT COURSE	
	GL-C59	Geochronology	NO EQUIVALENT COURSE	

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Group: 2C – Other Geology – 11-EG – Electives (9 Required) Multiple courses can be entered in each subject for only this section				
Structure	GL-C60	Global Tectonics	NO EQUIVALENT COURSE	
	GL-C61	Tectonics	NO EQUIVALENT COURSE	
	GL-C62	Structural Geology	NO EQUIVALENT COURSE	