



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

University of the Fraser Valley

Environmental Geoscience Course Equivalent Listing

(Updated December 2023)

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#: _____

EGBC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – UFV COURSE EQUIVALENT LIST

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

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Name: _____

System ID#: _____

	Number	Description	UFV Course	For Applicant Use
Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)				
	FS-A1	Calculus (1 semester)	MATH 111	
	FS-A2	Physics (1 semester)	PHYS 111	
	FS-A3	Chemistry (1 semester)	CHEM 113	
Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)				
	COM-B1	Mathematics	MATH 112, 118, or any 200 level or higher	
	COM-B2	Chemistry	CHEM 114 or any 200 level or higher	
	COM-B3	Physics	PHYS 112 or any 200 level or higher	
	COM-B4	Biology	BIOL 111, 112, or any 200 level or higher	
	COM-B5	Computer Programming	COMP 150, 152, 155 or any 200 level or higher (Must have programming content)	
	COM-B6	Statistics	MATH/STAT 104, 106 and any 200 level or higher STAT	
Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (All 4 Subjects Required – NO MORE THAN ONE COURSE IN EACH SUBJECT)				
	COM-A1	Mineralogy & Petrology	NO EQUIVALENT COURSE	
	COM-A2	Sedimentation & Stratigraphy	NO EQUIVALENT COURSE	
	COM-A3	Structural Geology	NO EQUIVALENT COURSE	
	COM-A4	Field Techniques	NO EQUIVALENT COURSE	
<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 Environmental Geoscience – (5 Required) <ul style="list-style-type: none"> • Must have at least one course in each group, and • Maximum of two courses in each group 				
Group A	FEG-A1	Geophysics	NO EQUIVALENT COURSE	
	FEG-A2	Geochemistry	NO EQUIVALENT COURSE	
Group B	FEG-A3 (a)	Hydrology	GEOG 303	
	FEG-A3 (b)	Hydrogeology	NO EQUIVALENT COURSE	
	FEG-A4	Engineering Geology	NO EQUIVALENT COURSE	
Group C	FEG-A5 *choose 1	Geomorphology/ Soil Science	GEOG 202, 315	
	FEG-A6	Glacial Geology	GEOG 402	
	FEG-A7	Remote Sensing or GIS	GEOG 453	

[Group 2C – Electives on next page]

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Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) Multiple courses can be entered in each subject for only this section				
Communication	EG-C1	Thesis	GEOG 493	
	EG-C2	Technical Writing	NO EQUIVALENT COURSE	
Earth Systems	EG-C3	Climatology	GEOG 201, 307, 308	
	EG-C4	Meteorology	NO EQUIVALENT COURSE	
	EG-C5	Oceanography	NO EQUIVALENT COURSE	
	EG-C6	Paleoenvironmental Studies	NO EQUIVALENT COURSE	
	EG-C7	Paleoclimatology	NO EQUIVALENT COURSE	
	EG-C8	Paleoecology	GEOG 419	
	EG-C9	Ecology	BIOL 210, 335, 340, 410, GEOG 335, 410	
Environmental Assessment	EG-C10	Environmental Assessment.	GEOG 331	
Field Techniques	EG-C11	Field Techniques	GEOG 452	
Geochemistry	EG-C12	Environmental Geochemistry	NO EQUIVALENT COURSE	
	EG-C13	Isotope Geochemistry	NO EQUIVALENT COURSE	
	EG-C14	Aqueous Geochemistry	NO EQUIVALENT COURSE	
	EG-C15	Biogeochemistry	NO EQUIVALENT COURSE	
	EG-C16	Atmospheric Geochemistry	NO EQUIVALENT COURSE	
	EG-C17	Low Temperature Geochemistry	NO EQUIVALENT COURSE	

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Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued. Multiple courses can be entered in each subject for only this section				
Geomorphology/ Surficial	EG-C18	Geomorphology	GEOG 202, 302, 304	
	EG-C19	Natural Hazards	NO EQUIVALENT COURSE	
	EG-C20	Quaternary Geology	GEOG 402	
	EG-C21	Pedology	GEOG 315	
	EG-C22	Glaciology	GEOG 402	
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	NO EQUIVALENT COURSE	
	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	NO EQUIVALENT COURSE	
	EG-C32	Hydrology	GEOG 303	
	EG-C33	Fluid Mechanics	PHYS 325	
Mineralogy/ Petrology	EG-C34	Crystallography	NO EQUIVALENT COURSE	
	EG-C35	X-Ray Crystallography	NO EQUIVALENT COURSE	
	EG-C36	Analytical Methods	NO EQUIVALENT COURSE	

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Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued. Multiple courses can be entered in each subject for only this section.				
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 253, 353, 458	
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 453	
	EG-C46	Air Photo Interpretation	NO EQUIVALENT COURSE	
Resource Geology	EG-C47	Economic Geology	NO EQUIVALENT COURSE	
	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	
Sedimentology	EG-C53	Chemical Sedimentology	NO EQUIVALENT COURSE	
	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	

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Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued				
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	