



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

University of Victoria

Environmental Geoscience Course Equivalent Listing

(Updated April 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 SYLLABUS – UVIC COURSE
EQUIVALENT LIST**

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

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	Number	Description	UVIC Course	For Applicant Use
Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)				
	FS-A1	Calculus (1 semester)	MATH 100, 109	
	FS-A2	Physics (1 semester)	PHYS 102, 102A, 110, 112, 120, 130	
	FS-A3	Chemistry (1 semester)	CHEM 101	
Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)				
	COM-B1	Mathematics	MATH 101 or any 200 level or higher	
	COM-B2	Chemistry	CHEM 102 or any 200 level or higher	
	COM-B3	Physics	PHYS 102B, 111, 130, or Any 200 level PHYS or higher	
	COM-B4	Biology	Any 100 level BIOL or higher	
	COM-B5	Computer Programming	Any 100 level CPSC or higher, EOS 230, 325 (Must have programming content)	
	COM-B6	Statistics	EOS 225, STAT 255, 260, GEOG 226	
Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (All 4 Subjects Required – NO MORE THAN ONE COURSE IN EACH SUBJECT)				
	COM-A1	Mineralogy & Petrology	EOS 205	
	COM-A2	Sedimentation & Stratigraphy	EOS 201	
	COM-A3	Structural Geology	EOS 202	
	COM-A4*	Field Techniques	EOS 300	
*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)				

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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	EOS 210, EOS/PHYS 427	
	FEG-A2	Geochemistry	EOS 240	
Group B	FEG-A3 (a)	Hydrology	GEOG 272 or 370	
	FEG-A3 (b)	Hydrogeology	EOS 440	
	FEG-A4	Engineering Geology	NO EQUIVALENT COURSE	
Group C	FEG-A5 *choose 1	Geomorphology/ Soil Science	GEOG 276, 376, 476, 391, ER 334	
	FEG-A6	Glacial Geology	EOS 450	
	FEG-A7	Remote Sensing or GIS	GEOG 222, 228, 319, 322, 328	

[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 499A & B / EOS 499A & B	
	EG-C2	Technical Writing	ENGL 225, 301, ENGR 240	
Earth Systems	EG-C3	Climatology	GEOG 272, 373, 484, EOS 220, 261, 340, 433	
	EG-C4	Meteorology	GEOG 313, 484, EOS 220, 451	
	EG-C5	Oceanography	EOS 311, 312 313, 314, 315, 431	
	EG-C6	Paleoenvironmental Studies	NO EQUIVALENT COURSE	
	EG-C7	Paleoclimatology	NO EQUIVALENT COURSE	
	EG-C8	Paleoecology	BIOL 457	
	EG-C9	Ecology	BIOL 215, GEOG 274, 474	
Environmental Assessment	EG-C10	Environmental Assessment.	GEOG 209	
Field Techniques	EG-C11	Field Techniques	GEOG 313, 325, 477	
Geochemistry	EG-C12	Environmental Geochemistry	NO EQUIVALENT COURSE	
	EG-C13	Isotope Geochemistry	EOS 335	
	EG-C14	Aqueous Geochemistry	EOS 425	
	EG-C15	Biogeochemistry	EOS 403	
	EG-C16	Atmospheric Geochemistry	NO EQUIVALENT COURSE	
	EG-C17	Low Temperature Geochemistry	EOS 240	

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Geomorphology/ Surficial	EG-C18	Geomorphology	GEOG 276, 376, 424, 476	
	EG-C19	Natural Hazards	NO EQUIVALENT COURSE	
	EG-C20	Quaternary Geology	EOS 450	
	EG-C21	Pedology	ER 334, GEOG 391	
	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	EOS 480	
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	EOS 440	
	EG-C32	Hydrology	GEOG 272, 370	
	EG-C33	Fluid Mechanics	PHYS 426, MECH 345	
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	EOS 330	
	EG-C39	Palynology	NO EQUIVALENT COURSE	
Quantitative Analysis	EG-C40	Geostatistics	GEOG 418, EOS 225	
	EG-C41	Computer Applications in Geoscience	CSC/PHYS 242, EOS 230, EOS 325	
	EG-C42	Geographic Information Systems	GEOG 222, 308, 328, 329	
Regional Geology	EG-C43	Geology of Canada	EOS 400	
	EG-C44	Geology of North America	NO EQUIVALENT COURSE	
Remote Sensing	EG-C45	Remote Sensing	GEOG 228, 319, 322, 422	
	EG-C46	Air Photo Interpretation	NO EQUIVALENT COURSE	
Resource Geology	EG-C47	Economic Geology	NO EQUIVALENT COURSE	
	EG-C48	Mineral Deposits	EOS 420	
	EG-C49	Ore Petrology	NO EQUIVALENT COURSE	
	EG-C50	Coal Geology	NO EQUIVALENT COURSE	
	EG-C51	Petroleum Geology	EOS 422	
	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	EOS 450	
	EG-C57	Limnogeology	NO EQUIVALENT COURSE	

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Stratigraphy	EG-C58	Historical Geology	EOS 321	
	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	EOS 410	
	EG-C63	Tectonics	NO EQUIVALENT COURSE	
	EG-C64	Structural Geology	NO EQUIVALENT COURSE	