



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

University of British Columbia Vancouver Campus

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 – UBC (Van) 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****

Name: _____

System ID#: _____

	Number	Description	UBC Course	For Applicant Use
Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)				
	FS-A1	Calculus (1 semester)	MATH 100, 101, 102, 104,110, 120, 180, 184	
	FS-A2	Physics (1 semester)	PHYS 101, 107, 117, 131	
	FS-A3	Chemistry (1 semester)	CHEM 110, 111, 120, 121, 141	
Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)				
	COM-B1	Mathematics	MATH 101, 103, 105, 121, and/or any 200 level or higher	
	COM-B2	Chemistry	CHEM 113, 130, 123 and/or any 200 level or higher	
	COM-B3	Physics	PHYS 102, 108, 118, 170 and/or any 200 level or higher	
	COM-B4	Biology	BIOL 112, 121 and/or any 200 level or higher	
	COM-B5	Computer Programming (Needs Programming Content)	EOSC 211, CPSC 110, 189 and/or any 200 level CPSC or higher; CPSC 103 or APSC 160 (cannot complete both)	
	COM-B6	Statistics	STAT 200, 241, 251, BIOL 300, GEOG 374, DSCI 100	
Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (All 4 Subjects Required – NO MORE THAN ONE COURSE IN EACH SUBJECT)				
	COM-A1	Mineralogy & Petrology	EOSC 220	
	COM-A2	Sedimentation & Stratigraphy	EOSC 222, 320	
	COM-A3	Structural Geology	EOSC 323	
	COM-A4*	Field Techniques	EOSC 223, 428, GEOS 309	
*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: https://geog.ubc.ca/news/geob-course-codes-changing-to-geos/ . COM-A4-Field-Techniques-Instructions-for-Reporting-Experience-Updated-April-2023.pdf.aspx (egbc.ca)				

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NOTE: GEOB course codes updated to GEOS as noted at <https://geog.ubc.ca/news/geob-course-codes-changing-to-geos/>. GEOS courses can be reported in lieu of GEOB approved courses on the checklist. Course descriptions will be required, and a detailed academic assessment will take place.

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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	EOSC 250, 350	
	FEG-A2	Geochemistry	EOSC 333	
Group B	FEG-A3 (a)	Hydrology	GEOS 305, CIVL 418, EOSC 329, FRST 385	
	FEG-A3 (b)	Hydrogeology	NO EQUIVALENT COURSE	
	FEG-A4	Engineering Geology	EOSC 210	
Group C	FEG-A5 *choose 1	Geomorphology/ Soil Science	EOSC 330, GEOB 206, APBI 200	
	FEG-A6	Glacial Geology	GEOB 308	
	FEG-A7	Remote Sensing or GIS	GEOS 373	

[Group 2C – Electives on next page]

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Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) Multiple courses can be used for each topic, but courses can still only be used one time on this checklist.				
Communication	EG-C1	Thesis	EOSC 449, ENVR 449	
	EG-C2	Technical Writing	ENGL 301	
Earth Systems	EG-C3	Climatology	EOSC 340, 442; GEOS 200, 204, 300	
	EG-C4	Meteorology	ATSC 201, 303; GEOS 304, 401, 402	
	EG-C5	Oceanography	EOSC 372, 373, 470, 473	
	EG-C6	Paleoenvironmental Studies	NO EQUIVALENT COURSE	
	EG-C7	Paleoclimatology	NO EQUIVALENT COURSE	
	EG-C8	Paleoecology	BIOL 401	
	EG-C9	Ecology	BIOL 230, 306, GEOL 207, 307, FRST 202	
Environmental Assessment	EG-C10	Environmental Assessment	GEOG 319	
Field Techniques	EG-C11	Field Techniques	EOSC 328, 428 GEOS 309, 409	
Geochemistry	EG-C12	Environmental Geochemistry	NO EQUIVALENT COURSE	
	EG-C13	Isotope Geochemistry	EOSC 333 EOSC 523	
	EG-C14	Aqueous Geochemistry	EOSC 430, CHEM 301	
	EG-C15	Biogeochemistry	GEOS 400	
	EG-C16	Atmospheric Geochemistry	CHEM 302	
	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 used for each topic, but courses can still only be used one time on this checklist.				
Geomorphology/ Surficial	EG-C18	Geomorphology	EOSC 330, GEOS 206, 308, 405, 406	
	EG-C19	Natural Hazards	NO EQUIVALENT COURSE	
	EG-C20	Quaternary Geology	GEOB 308	
	EG-C21	Pedology	APBI 200	
	EG-C22	Glaciology	GEOS 408	
Geophysics	EG-C23	Environmental Geophysics	EOSC 350	
	EG-C24	Exploration Geophysics	EOSC 350	
	EG-C25	Applied Geophysics	EOSC 454	
Geotechnical	EG-C26	Engineering Geology	EOSC 434	
	EG-C27	Soil Mechanics	CIVL 210, EOSC 434	
	EG-C28	Rock Mechanics	EOSC 433, MINE 303	
	EG-C29	Resource Geotechnics	NO EQUIVALENT COURSE	
Hydrology/ Hydrogeology	EG-C30	Contaminant Transport	EOSC 429	
	EG-C31	Hydrogeology	EOSC 329, 428	
	EG-C32	Hydrology	GEOS 305, 403, FRST 385, CIVL 418, ENVR 420	
	EG-C33	Fluid Mechanics	MECH 280, CIVL 215	
Mineralogy/ Petrology	EG-C34	Crystallography	EOSC 221, 320, 321, 322	
	EG-C35	X-Ray Crystallography	NO EQUIVALENT COURSE	
	EG-C36	Analytical Methods	EOSC 521	

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Paleontology	EG-C37	Micropaleontology	NO EQUIVALENT COURSE	
	EG-C38	Paleobiology	EOSC 425	
	EG-C39	Palynology	NO EQUIVALENT COURSE	
Quantitative Analysis	EG-C40	Geostatistics	GEOG 374	
	EG-C41	Computer Applications in Geoscience	EOSC 211, 213, 410	
	EG-C42	Geographic Information Systems	GEOB 270, 370	
Regional Geology	EG-C43	Geology of Canada	NO EQUIVALENT COURSE	
	EG-C44	Geology of North America	EOSC 332	
Remote Sensing	EG-C45	Remote Sensing	GEOS 373	
	EG-C46	Air Photo Interpretation	NO EQUIVALENT COURSE	
Resource Geology	EG-C47	Economic Geology	NO EQUIVALENT COURSE	
	EG-C48	Mineral Deposits	EOSC 331	
	EG-C49	Ore Petrology	EOSC 424	
	EG-C50	Coal Geology	EOSC 432	
	EG-C51	Petroleum Geology	EOSC 432	
	EG-C52	Industrial Minerals	NO EQUIVALENT COURSE	
Sedimentology	EG-C53	Chemical Sedimentology	NO EQUIVALENT COURSE	
	EG-C54	Clastic Sedimentology	EOSC 421	
	EG-C55	Carbonate Sedimentology	NO EQUIVALENT COURSE	
	EG-C56	Glacial Geology	NO EQUIVALENT COURSE	
	EG-C57	Limnogeology	NO EQUIVALENT COURSE	

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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	EOSC 323, 422	