



ENGINEERS &  
GEOSCIENTISTS  
BRITISH COLUMBIA

## University of British Columbia (Okanagan)

# 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: \_\_\_\_\_

User ID: \_\_\_\_\_

**UBC-O ENVIRONMENTAL GEOSCIENCE COURSE EQUIVALENT CHECKLIST**  
*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	Subject	UBC-Okanagan	For Applicant Use
<b>Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science</b> <b>(All 3 Subjects Required)</b>				
	FS-A1	Calculus (1 semester)	MATH 100	
	FS-A2	Physics (1 semester)	PHYS 111 or PHYS 112	
	FS-A3	Chemistry (1 semester)	CHEM 111 or CHEM 121	
<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, 103, and any 200 level or higher	
	COM-B2	Chemistry	CHEM 113 or CHEM 123; and any 200 level or higher	
	COM-B3	Physics	PHYS 121 or PHYS 122; and any 200 level or higher	
	COM-B4	Biology	BIOL 116, BIOL 125 and/or any 200 level or higher	
	COM-B5	Computer Programming	COSC 111, COSC 121 and/or any 200 level courses or higher, DATA 101	
	COM-B6	Statistics	STAT 121, STAT 230, BIOL 202, GEOG 271, PSYO 271, SOCI 271; and/or any STAT 200 level courses and higher	
<b>Group: 2A – Compulsory Geoscience – 11-GEOCOM - Compulsory</b> <b>(All 4 Subjects Required – NO MORE THAN ONE COURSE IN EACH SUBJECT)</b>				
	COM-A1	Mineralogy & Petrology	EESc 200 or EESc 201	
	COM-A2	Sedimentation & Stratigraphy	EESc 356, GEOG 356	
	COM-A3	Structural Geology	EESc 325	
	COM-A4*	Field Techniques	EESc 335, 390, 435, 437, GEOG 416, 437	
*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)				

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Group: 2B – Foundation Environmental Geoscience – 11-EG – (5 Required)				
<ul style="list-style-type: none"> <li>• Must have at least one course in each section, and</li> <li>• Maximum of two courses in each section</li> </ul>				
Section A	FEG-A1	Geophysics	EESc 350	
	FEG-A2	Geochemistry	EESc 323, 309, 423	
Section B	FEG-A3 (a)	Hydrology	EESc 205, GEOG 205	
	FEG-A3 (b)	Hydrogeology	EESc 342	
	FEG-A4	Engineering Geology	NO EQUIVALENT COURSE	
	<b>Number</b>	<b>Subject</b>	<b>UBC-Okanagan</b>	<b>For Applicant Use</b>
Section C	FEG-A5 *choose 1	Geomorphology/ Soil Science	EESc 222, 456, GEOG 222, 466	
	FEG-A6	Glacial Geology	EESc 431	
	FEG-A7	Remote Sensing or GIS	GEOG 272	

[Group 2C – Electives on next page]

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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>				
Communication	EG-C1	Thesis	EESc, 448, 449, GEOG 498	
	EG-C2	Technical Writing	ENGL 301, EESc 398, APSC 201	
Earth Systems	EG-C3	Climatology	EESc 212, 304, GEOG 200, 304, 414	
	EG-C4	Meteorology	NO EQUIVALENT COURSE	
	EG-C5	Oceanography	EESc 303	
	EG-C6	Paleoenvironmental Studies	EESc 341, GEOG 341	
	EG-C7	Paleoclimatology	GEOG 301	
	EG-C8	Paleoecology	EESc 341, GEOG 341	
	EG-C9	Ecology	BIOL 201	
Environmental Assessment	EG-C10	Environmental Assessment	EESc 311, 315, 314	
Field Techniques	EG-C11	Field Techniques	EESc 335, 390, 435, 437, GEOG 416, 437	
Geochemistry	EG-C12	Environmental Geochemistry	EESc 333	
	EG-C13	Isotope Geochemistry	EESc 423	
	EG-C14	Aqueous Geochemistry	CHEM 301	
	EG-C15	Biogeochemistry	EESc 309	
	EG-C16	Atmospheric Geochemistry	CHEM 302	
	EG-C17	Low Temperature Geochemistry	EESc 323	

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<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued</b> <b>Multiple courses can be entered in each subject for only this section</b>				
Geomorphology/ Surficial	EG-C18	Geomorphology	EESc 422, 435, 436, GEOG 436	
	EG-C19	Natural Hazards	GEOG 316, 416	
	EG-C20	Quaternary Geology	EESc 431	
	EG-C21	Pedology	EESc 456, GEOG 466	
	EG-C22	Glaciology	NO EQUIVALENT COURSE	
Geophysics	EG-C23	Environmental Geophysics	NO EQUIVALENT COURSE	
	EG-C24	Exploration Geophysics	EESc 350	
	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	EESc 429	
	EG-C31	Hydrogeology	EESc 342	
	EG-C32	Hydrology	EESc 205, 305, 313, 413, 402, GEOG205	
	EG-C33	Fluid Mechanics	PHYS 314	
Mineralogy/ Petrology	EG-C34	Crystallography	EESc 200, EESc 322	
	EG-C35	X-Ray Crystallography	NO EQUIVALENT COURSE	
	EG-C36	Analytical Methods	NO EQUIVALENT COURSE	

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<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	EESc 341	
Quantitative Analysis	EG-C40	Geostatistics	NO EQUIVALENT COURSE	
	EG-C41	Computer Applications in Geoscience	EESc 444, Biol 444, DATA 301	
	EG-C42	Geographic Information Systems	GEOG 370, 380, EESC 380, 381, GISC 381, 480	
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 272	
	EG-C46	Air Photo Interpretation	NO EQUIVALENT COURSE	
Resource Geology	EG-C47	Economic Geology	NO EQUIVALENT COURSE	
	EG-C48	Mineral Deposits	EESc 360	
	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	EESc 434	
	EG-C55	Carbonate Sedimentology	NO EQUIVALENT COURSE	
	EG-C56	Glacial Geology	NO EQUIVALENT COURSE	
	EG-C57	Limnogeology	EESc 301, BIOL307	

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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	EESc 425	
	EG-C64	Structural Geology	NO EQUIVALENT COURSE	