



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

Environmental Geoscience Checklist for Self-Evaluation

(Updated June 2023)

This course listing is a reflection of Engineers & Geoscientists BC's adoption of the Geoscientists Canada [Geoscience Knowledge Requirements](#).

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.

Environmental Geoscience Self-Evaluation Checklist

Name: _____

User ID: _____

	Number	Subject	Course (Institution Name)	Additional notes/comments
Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)				
	FS-A1	Calculus (1 semester)		
	FS-A2	Physics (1 semester)		
	FS-A3	Chemistry (1 semester)		
Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)				
	COM-B1	Mathematics		
	COM-B2	Chemistry		
	COM-B3	Physics		
	COM-B4	Biology		
	COM-B5	Computer Programming		
	COM-B6	Statistics		
Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (All subjects required)				
	COM-A1	Mineralogy & Petrology		
	COM-A2	Sedimentation & Stratigraphy		
	COM-A3	Structural Geology		
	COM-A4*	Field Techniques		
	*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)			
Group: 2B – Foundation Environmental Geoscience – 11-EG – (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		
	FEG-A2	Geochemistry		
	FEG-A3(a)	Hydrology		

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	Number	Subject	Course (Institution Name)	Additional notes/comments
Group B	FEG-A3(b)	Hydrogeology		
	FEG-A4	Engineering Geology		
Group C	FEG-A5 *choose 1	Geomorphology/ Soil Science		
	FEG-A6	Glacial Geology		
	FEG-A7	Remote Sensing or GIS		
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		
	EG-C2	Technical Writing		
Earth Systems	EG-C3	Climatology		
	EG-C4	Meteorology		
	EG-C5	Oceanography		
	EG-C6	Paleoenvironmental Studies		
	EG-C7	Paleoclimatology		
	EG-C8	Paleoecology		
	EG-C9	Ecology		
Environmental Assessment	EG-C10	Environmental Assessment		
Field Techniques	EG-C11	Field Techniques		
Geochemistry	EG-C12	Environmental Geochemistry		
	EG-C13	Isotope Geochemistry		
	EG-C14	Aqueous Geochemistry		
	EG-C15	Biogeochemistry		
	EG-C16	Atmospheric Geochemistry		
	EG-C17	Low Temperature Geochemistry		

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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		
	EG-C19	Natural Hazards		
	EG-C20	Quaternary Geology		
	EG-C21	Pedology		
	EG-C22	Glaciology		
Geophysics	EG-C23	Environmental Geophysics		
	EG-C24	Exploration Geophysics		
	EG-C25	Applied Geophysics		
Geotechnical	EG-C26	Engineering Geology		
	EG-C27	Soil Mechanics		
	EG-C28	Rock Mechanics		
	EG-C29	Resource Geotechnics		
Hydrology/ Hydrogeology	EG-C30	Contaminant Transport		
	EG-C31	Hydrogeology		
	EG-C32	Hydrology		
	EG-C33	Fluid Mechanics		
Mineralogy/ Petrology	EG-C34	Crystallography		
	EG-C35	X-Ray Crystallography		
	EG-C36	Analytical Methods		

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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		
	EG-C38	Paleobiology		
	EG-C39	Palynology		
Quantitative Analysis	EG-C40	Geostatistics		
	EG-C41	Computer Applications in Geoscience		
	EG-C42	Geographic Information Systems		
Regional Geology	EG-C43	Geology of Canada		
	EG-C44	Geology of North America		
Remote Sensing	EG-C45	Remote Sensing		
	EG-C46	Air Photo Interpretation		
Resource Geology	EG-C47	Economic Geology		
	EG-C48	Mineral Deposits		
	EG-C49	Ore Petrology		
	EG-C50	Coal Geology		
	EG-C51	Petroleum Geology		
	EG-C52	Industrial Minerals		
Sedimentology	EG-C53	Chemical Sedimentology		
	EG-C54	Clastic Sedimentology		
	EG-C55	Carbonate Sedimentology		
	EG-C56	Glacial Geology		
	EG-C57	Limnogeology		

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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				
Stratigraphy	EG-C58	Historical Geology		
	EG-C59	Sequence Stratigraphy		
	EG-C60	Stratigraphic Paleontology		
	EG-C61	Geochronology		
Structure	EG-C62	Global Tectonics		
	EG-C63	Tectonics		
	EG-C64	Structural Geology		