



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](#). In consultation with (Institution Name), 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.

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) • 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		

Environmental Geoscience Self-Evaluation Checklist

	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		

Environmental Geoscience Self-Evaluation Checklist

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		

Environmental Geoscience Self-Evaluation Checklist

	Number	Subject	(Institution Name) Course	For Applicant Use
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		

Environmental Geoscience Self-Evaluation Checklist

	Number	Subject	(Institution Name) Course	For Applicant Use
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		