



Professional Engineers  
and Geoscientists of BC  
w w w . a p e g . b c . c a

# Environmental Geoscience Checklist for Self-Evaluation

**NOTE:** This checklist is a reflection of APEGBC's adoption of the Geoscientists Canada "Geoscience Knowledge Requirements". Effective January 2011, geoscience applicants will have the option of attempting to meet the academic requirements either by applying under this 2011 syllabus or the previous 2006 syllabus.

Name: \_\_\_\_\_

System ID#: \_\_\_\_\_

**ASSOCIATION OF PROFESSIONAL ENGINEERS & GEOSCIENTISTS OF BRITISH COLUMBIA  
GEOSCIENCE SYLLABUS - CHECKLIST FOR SELF-EVALUATION**

*This Geoscience Syllabus 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	Description	Applicant's Self-Evaluation Course Equivalent	For Office Use Only
<b>Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (3 Required)</b>				
	FS-A1	Calculus (1 semester)		
	FS-A2	Physics (1 semester)		
	FS-A3	Chemistry (1 semester)		
<b>Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)</b>				
	COM-B1	Mathematics		
	COM-B2	Chemistry		
	COM-B3	Physics		
	COM-B4	Biology		
	COM-B5	Computer Programming		
	COM-B6	Statistics		
<b>Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (4 Required)</b>				
	COM-A1	Mineralogy & Petrology		
	COM-A2	Sedimentation & Stratigraphy		
	COM-A3	Structural Geology		
	COM-A4	Field Techniques		
<b>Group: 2B – Foundation Environmental Geoscience – 11-EG – Compulsory (5 Required – Must have a minimum of one and at most , two from each sub-group, but no more than one in each subject)</b>				
Group A	FEG-A1	Geophysics		
	FEG-A2	Geochemistry		
Group B	FEG-A3 *choose 1	Hydrology/ Hydrogeology		
	FEG-A4	Engineering Geology		

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Group C	FEG-A5 *choose 1	Geomorphology/ Soil Science		
	FEG-A6	Glacial Geology		
	FEG-A7	Remote Sensing		
<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required)</b>				
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	Paleobiology		
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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<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued</b>				
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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<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued</b>				
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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<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued</b>				
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		