



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

University of Northern British Columbia

Environmental Geoscience Course Equivalent Listing

(Updated May 2013)

NOTE: This course listing is a reflection of APEGBC's adoption of the Geoscientists Canada "Geoscience Knowledge Requirements". Since January 2011, geoscience applicants have the option of attempting to meet the academic requirements either by applying under this 2011 syllabus or the previous 2006 syllabus. The courses in this document have been identified in consultation with UNBC. Please be aware that course codes can be subject to change at any time.

Name: _____

System ID#: _____

	Number	Description	UNBC Course	For Applicant Use
Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (3 Required)				
	FS-A1	Calculus (1 semester)	MATH 100	
	FS-A2	Physics (1 semester)	PHYS 110	
	FS-A3	Chemistry (1 semester)	CHEM 101	
Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)				
	COM-B1	Mathematics	MATH 101 and any 200 level courses or higher	
	COM-B2	Chemistry	CHEM 102 and any 200 level courses or higher	
	COM-B3	Physics	PHYS 111 and any 200 level courses or higher	
	COM-B4	Biology	BIOL 101, 102 and any 200 level courses or higher	
	COM-B5	Computer Programming	COMP 100, 101; or any COMP 200 level computer programming course or higher	
	COM-B6	Statistics	MATH 240 and any STAT 300 level courses and higher	
Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (4 Required)				
	COM-A1	Mineralogy & Petrology	NO EQUIVALENT COURSE	
	COM-A2	Sedimentation & Stratigraphy	GEOG 320	
	COM-A3	Structural Geology	NO EQUIVALENT COURSE	
	COM-A4	Field Techniques	GEOG 333	
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)				
Group A	FEG-A1	Geophysics	NO EQUIVALENT COURSE	
	FEG-A2	Geochemistry	ENSC 207	
Group B	FEG-A3 *choose 1	Hydrology/ Hydrogeology	GEOG 310, ENSC 451	
	FEG-A4	Engineering Geology	NO EQUIVALENT COURSE	
Group C	FEG-A5 *choose 1	Geomorphology/ Soil Science	GEOG 210, FSTY 205	
	FEG-A6	Glacial Geology	GEOG 411	

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	FEG-A7	Remote Sensing	GEOG 432, GEOG 457	
Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required)				
Communication	EG-C1	Thesis	GEOG 430	
	EG-C2	Technical Writing	NO EQUIVALENT COURSE	
Earth Systems	EG-C3	Climatology	ENSC 425	
	EG-C4	Meteorology	ENSC 201, 408, 412	
	EG-C5	Oceanography	NO EQUIVALENT COURSE	
	EG-C6	Paleoenvironmental Studies	NO EQUIVALENT COURSE	
	EG-C7	Paleoclimatology	NO EQUIVALENT COURSE	
	EG-C8	Paleoecology	NO EQUIVALENT COURSE	
Environmental Assessment	EG-C9	Ecology	BIOL 210; FSTY 207	
	EG-C10	Environmental Assessment.	ENPL 305	
Field Techniques	EG-C11	Field Techniques	NO EQUIVALENT COURSE	
Geochemistry	EG-C12	Environmental Geochemistry	ENSC 207	
	EG-C13	Isotope Geochemistry	NO EQUIVALENT COURSE	
	EG-C14	Aqueous Geochemistry	NO EQUIVALENT COURSE	
	EG-C15	Biogeochemistry	NO EQUIVALENT COURSE	
	EG-C16	Atmospheric Geochemistry	NO EQUIVALENT COURSE	
	EG-C17	Low Temperature Geochemistry	NO EQUIVALENT COURSE	

Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued

Geomorphology/ Surficial	EG-C18	Geomorphology	GEOG 311, 312, 405, 414	
	EG-C19	Natural Hazards	NO EQUIVALENT COURSE	
	EG-C20	Quaternary Geology	GEOG 411	
	EG-C21	Pedology	ENSC 435, 460; FSTY 415, 425	
	EG-C22	Glaciology	NO EQUIVALENT COURSE	
Geophysics	EG-C23	Environmental Geophysics	NO EQUIVALENT COURSE	
	EG-C24	Exploration Geophysics	NO EQUIVALENT COURSE	
	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	NO EQUIVALENT COURSE	
	EG-C31	Hydrogeology	NO EQUIVALENT COURSE	
	EG-C32	Hydrology	GEOG 310	
	EG-C33	Fluid Mechanics	ENSC 350	
Mineralogy/ Petrology	EG-C34	Crystallography	NO EQUIVALENT COURSE	
	EG-C35	X-Ray Crystallography	NO EQUIVALENT COURSE	
	EG-C36	Analytical Methods	NO EQUIVALENT COURSE	

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Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued				
Paleontology	EG-C37	Micropaleontology	NO EQUIVALENT COURSE	
	EG-C38	Paleobiology	NO EQUIVALENT COURSE	
	EG-C39	Palynology	NO EQUIVALENT COURSE	
Quantitative Analysis	EG-C40	Geostatistics	NO EQUIVALENT COURSE	
	EG-C41	Computer Applications in Geoscience	ENSC 450	
	EG-C42	Geographic Information Systems	GEOG 204, 300	
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 432, 457	
	EG-C46	Air Photo Interpretation	GEOG 205	
Resource Geology	EG-C47	Economic Geology	NO EQUIVALENT COURSE	
	EG-C48	Mineral Deposits	NO EQUIVALENT COURSE	
	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	NO EQUIVALENT COURSE	
	EG-C55	Carbonate Sedimentology	NO EQUIVALENT COURSE	
	EG-C56	Glacial Geology	NO EQUIVALENT COURSE	
	EG-C57	Limnogeology	NO EQUIVALENT COURSE	

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Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued				
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	NO EQUIVALENT COURSE	