



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

University of Victoria

Environmental Geoscience Course Equivalent Listing

(Updated May 2012)

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 the University of Victoria. Please be aware that course codes can be subject to change at any time.

Name: _____

System ID#: _____

**ASSOCIATION OF PROFESSIONAL ENGINEERS & GEOSCIENTISTS OF BRITISH COLUMBIA
ENVIRONMENTAL GEOSCIENCE SYLLABUS – UVIC COURSE EQUIVALENT LIST**

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	UVIC 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 102, 112, 120, 130	
	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 or any 200 level or higher	
	COM-B2	Chemistry	CHEM 102 or any 200 level or higher	
	COM-B3	Physics	Any 200 level PHYS or higher	
	COM-B4	Biology	Any 100 level BIOL or higher	
	COM-B5	Computer Programming	Any 100 level CPSC or higher (Must have programming content)	
	COM-B6	Statistics	EOS 225, STAT 255, 260, GEOG 226	
Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (4 Required)				
	COM-A1	Mineralogy & Petrology	EOS 205	
	COM-A2	Sedimentation & Stratigraphy	EOS 201	
	COM-A3	Structural Geology	EOS 202	
	COM-A4	Field Techniques	EOS 300	
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	EOS 210, EOS/PHYS 427	
	FEG-A2	Geochemistry	EOS 240	
Group B	FEG-A3 *choose 1	Hydrology/ Hydrogeology	GEOG 272, 370, or EOS 440	

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	Number	Description	UVIC Course	For Applicant Use
	FEG-A4	Engineering Geology	NO EQUIVALENT COURSE	
Group C	FEG-A5 *choose 1	Geomorphology/ Soil Science	GEOG 276, 376, 476, 391	
	FEG-A6	Glacial Geology	EOS 450	
	FEG-A7	Remote Sensing	GEOG 228, 319, 322	
Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required)				
Communication	EG-C1	Thesis	GEOG 499A & B / EOS 499A & B	
	EG-C2	Technical Writing	ENGL 225, 301, ENGR 240	
Earth Systems	EG-C3	Climatology	GEOG 272, 373, 484, EOS 340, 433	
	EG-C4	Meteorology	NO EQUIVALENT COURSE	
	EG-C5	Oceanography	EOS 311, 312 313, 314, 315, 431	
	EG-C6	Paleoenvironmental Studies	NO EQUIVALENT COURSE	
	EG-C7	Paleoclimatology	NO EQUIVALENT COURSE	
	EG-C8	Paleoecology	NO EQUIVALENT COURSE	
	EG-C9	Ecology	BIOL 215, GEOG 274, 474	
Environmental Assessment	EG-C10	Environmental Assessment.	GEOG 209	
Field Techniques	EG-C11	Field Techniques	GEOG 325, 477	
Geochemistry	EG-C12	Environmental Geochemistry	NO EQUIVALENT COURSE	
	EG-C13	Isotope Geochemistry	EOS 335	
	EG-C14	Aqueous Geochemistry	EOS 425	
	EG-C15	Biogeochemistry	EOS 403	
	EG-C16	Atmospheric Geochemistry	NO EQUIVALENT COURSE	
	EG-C17	Low Temperature Geochemistry	EOS 240	

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Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued				
Geomorphology/ Surficial	EG-C18	Geomorphology	GEOG 276, 376, 424, 476	
	EG-C19	Natural Hazards	NO EQUIVALENT COURSE	
	EG-C20	Quaternary Geology	EOS 450	
	EG-C21	Pedology	ER 334, GEOG 391	
	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	EOS 480	
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	EOS 440	
	EG-C32	Hydrology	GEOG 272, 370	
	EG-C33	Fluid Mechanics	PHYS 426, MECH 345	
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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	Number	Description	Applicant's Self-Evaluation Course Equivalent	For Applicant Use
Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued				
Paleontology	EG-C37	Micropaleontology	NO EQUIVALENT COURSE	
	EG-C38	Paleobiology	EOS 330	
	EG-C39	Palynology	NO EQUIVALENT COURSE	
Quantitative Analysis	EG-C40	Geostatistics	GEOG 418	
	EG-C41	Computer Applications in Geoscience	CSC/PHYS 242	
	EG-C42	Geographic Information Systems	GEOG 222, 308, 328, 329	
Regional Geology	EG-C43	Geology of Canada	EOS 400	
	EG-C44	Geology of North America	NO EQUIVALENT COURSE	
Remote Sensing	EG-C45	Remote Sensing	GEOG 228, 319, 322, 422	
	EG-C46	Air Photo Interpretation	NO EQUIVALENT COURSE	
Resource Geology	EG-C47	Economic Geology	NO EQUIVALENT COURSE	
	EG-C48	Mineral Deposits	EOS 420	
	EG-C49	Ore Petrology	NO EQUIVALENT COURSE	
	EG-C50	Coal Geology	NO EQUIVALENT COURSE	
	EG-C51	Petroleum Geology	EOS 422	
	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	EOS 450	
	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	EOS 410	
	EG-C63	Tectonics	NO EQUIVALENT COURSE	
	EG-C64	Structural Geology	NO EQUIVALENT COURSE	