



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

Vancouver Island University

Environmental Geoscience Course Equivalent Listing

(Updated March 2016)

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 Vancouver Island University. 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 – VIU 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	VIU Course	For Applicant Use
	Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (3 Required)			
	FS-A1	Calculus (1 semester)	MATH 100, 121	
	FS-A2	Physics (1 semester)	PHYS 111, 121	
	FS-A3	Chemistry (1 semester)	CHEM 140	
	Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)			
	COM-B1	Mathematics	MATH 101, 122 or any 200 level or higher	
	COM-B2	Chemistry	CHEM 141, 142 or any 200 level or higher	
	COM-B3	Physics	PHYS 112, 122 or any 200 level or higher	
	COM-B4	Biology	BIOL 121, 122 or any 200 level or higher	
	COM-B5	Computer Programming	CSCI 112, 120	
	COM-B6	Statistics	MATH 181, 211, 212	
	Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (4 Required)			
	COM-A1	Mineralogy & Petrology	GEOL 200	
	COM-A2	Sedimentation & Stratigraphy	GEOL 201	
	COM-A3	Structural Geology	GEOL 202	
	COM-A4	Field Techniques	GEOL 206	
	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	GEOG 307	
	FEG-A2	Geochemistry	GEOL 308	
Group B	FEG-A3 *choose 1	Hydrology/ Hydrogeology	GEOG 374, GEOL 304	
	FEG-A4	Engineering Geology	GEOG 303	

***COURSE MUST BE ACCEPTABLE FOR CREDIT IN FACULTY OF SCIENCE OR APPLIED SCIENCE**

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	Number	Description	VIU Course	For Applicant Use
Group C	FEG-A5 *choose 1	Geomorphology/ Soil Science	GEOG 376, FRST 151 & 152	
	FEG-A6	Glacial Geology	GEOL 305	
	FEG-A7	Remote Sensing	GEOG 326	
Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required)				
Communication	EG-C1	Thesis	GEOL 491	
	EG-C2	Technical Writing	ENG 225	
Earth Systems	EG-C3	Climatology	GEOG 372	
	EG-C4	Meteorology	NO EQUIVALENT COURSE	
	EG-C5	Oceanography	NO EQUIVALENT COURSE	
	EG-C6	Paleoenvironmental Studies	NO EQUIVALENT COURSE	
	EG-C7	Paleoclimatology	GEOL 412	
	EG-C8	Paleoecology	GEOG 373	
	EG-C9	Ecology	NO EQUIVALENT COURSE	
Environmental Assessment	EG-C10	Environmental Assessment.	RMOT 306	
Field Techniques	EG-C11	Field Techniques	GEOL 390	
Geochemistry	EG-C12	Environmental Geochemistry	CHEM 311	
	EG-C13	Isotope Geochemistry	NO EQUIVALENT COURSE	
	EG-C14	Aqueous Geochemistry	CHEM 301	
	EG-C15	Biogeochemistry	NO EQUIVALENT COURSE	
	EG-C16	Atmospheric Geochemistry	CHEM 302	
	EG-C17	Low Temperature Geochemistry	NO EQUIVALENT COURSE	

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Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued				
Geomorphology/ Surficial	EG-C18	Geomorphology	GEOL 301, 376	
	EG-C19	Natural Hazards	GEOL 312, 470	
	EG-C20	Quaternary Geology	GEOL 305	
	EG-C21	Pedology	FRST 151, 152	
	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	GEOG 303	
	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	GEOL 304	
	EG-C32	Hydrology	GEOG 374	
	EG-C33	Fluid Mechanics	NO EQUIVALENT COURSE	
Mineralogy/ Petrology	EG-C34	Crystallography	GEOL 300	
	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	NO EQUIVALENT COURSE	
	EG-C42	Geographic Information Systems	GEOG 328, 428	
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 326	
	EG-C46	Air Photo Interpretation	NO EQUIVALENT COURSE	
Resource Geology	EG-C47	Economic Geology	GEOL 302	
	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	