Professional Engineers
and Geoscientists of BC

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Vancouver Island University

Geology
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 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
GEOLOGY 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 Geology – 11-GL – 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	FGL-A1	Geophysics	NO EQUIVALENT COURSE	
Group A	FGL-A2	Geochemistry	GEOL 308	
Group B	FGL-A3	Igneous Petrology	GEOL 300	
Group B	FGL-A4	Metamorphic Petrology	NO EQUIVALENT COURSE	

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	FGL-A5	Sedimentary Petrology	NO EQUIVALENT COURSE	
Group C	FGL-A6	Sedimentology	NO EQUIVALENT COURSE	
	FGL-A7 *Only one can be selected*	Glacial Geology or Geomorphology	GEOL 305, GEOG 376	
	FGL-A8	Remote Sensing	GEOG 326	
Group: 2C – Other Geology – 11-GL – Electives (9 Required)				
Communication	GL-C1	Thesis	GEOL 491	
	GL-C2	Technical Writing	ENG 225	
Earth Systems	GL-C3	Climatology	GEOG 372	
	GL-C4	Meteorology	NO EQUIVALENT COURSE	
	GL-C5	Oceanography	NO EQUIVALENT COURSE	
	GL-C6	Earth Systems	NO EQUIVALENT COURSE	
Environmental	GL-C7	Hydrogeology	GEOL 304	
	GL-C8	Hydrology	GEOG 374	
	GL-C9	Environmental Geology	GEOL 312	
	GL-C10	Limnogeology	NO EQUIVALENT COURSE	
	GL-C11	Biogeochemistry	NO EQUIVALENT COURSE	
Field Techniques	GL-C12	Field Techniques	GEOL 390	
Geochemistry	GL-C13	Exploration Geochemistry	NO EQUIVALENT COURSE	
	GL-C14	Environmental Geochemistry	CHEM 311	
	GL-C15	Isotope Geochemistry	NO EQUIVALENT COURSE	
	GL-C16	Aqueous Geochemistry	CHEM 301	

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Group: 2C – Other Geology – 11-GL – Electives (9 Required) continued				
Geomorphology	GL-C17	Quaternary Geology	GEOL 305	
	GL-C18	Pedology	FRST 151, 152	
	GL-C19	Geomorphology	GEOG 376	
Geophysics	GL-C20	Physics of the Earth	NO EQUIVALENT COURSE	
	GL-C21	Exploration Geophysics	NO EQUIVALENT COURSE	
	GL-C22	Applied Geophyics	NO EQUIVALENT COURSE	
	GL-C23	Environmental Geophysics	NO EQUIVALENT COURSE	
Geotechnical	GL-C24	Natural Hazards	GEOL 470	
	GL-C25	Engineering Geology	NO EQUIVALENT COURSE	
	GL-C26	Soil Mechanics	NO EQUIVALENT COURSE	
	GL-C27	Rock Mechanics	NO EQUIVALENT COURSE	
Mineralogy	GL-C28	Crystallography	NO EQUIVALENT COURSE	
	GL-C29	X-Ray Crystallography	NO EQUIVALENT COURSE	
	GL-C30	Optical Mineralogy	NO EQUIVALENT COURSE	
	GL-C31	Analytical Methods	NO EQUIVALENT COURSE	
Paleontology	GL-C32	Micropaleontology	NO EQUIVALENT COURSE	
	GL-C33	Palynology	NO EQUIVALENT COURSE	
	GL-C34	Paleobiology	NO EQUIVALENT COURSE	
Petrology	GL-C35	Igneous Petrology	GEOL 300	
	GL-C36	Volcanology	NO EQUIVALENT COURSE	
	GL-C37	Metamorphic Petrology	NO EQUIVALENT COURSE	
	GL-C38	Sedimentary Petrology	NO EQUIVALENT COURSE	

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Group: 2C – Other Geology – 11-GL – Electives (9 Required) continued				
Quantitative Analysis	GL-C39	Geostatistics	NO EQUIVALENT COURSE	
	GL-C40	Computer Applications in Geoscience	NO EQUIVALENT COURSE	
	GL-C41	Geographic Information Systems	GEOG 328. 428	
Regional Geology	GL-C42	Geology of Canada	NO EQUIVALENT COURSE	
	GL-C43	Geology of North America	NO EQUIVALENT COURSE	
Remote Sensing	GL-C44	Air Photo Interpretation	NO EQUIVALENT COURSE	
	GL-C45	Remote Sensing	GEOG 326	
Resource Geology	GL-C46	Economic Geology	GEOL 302	
	GL-C47	Mineral Deposits	NO EQUIVALENT COURSE	
	GL-C48	Ore Petrology	NO EQUIVALENT COURSE	
	GL-C49	Coal Geology	NO EQUIVALENT COURSE	
	GL-C50	Petroleum Geology	NO EQUIVALENT COURSE	
	GL-C51	Industrial Materials	NO EQUIVALENT COURSE	
Sedimentology	GL-C52	Chemical Sedimentology	NO EQUIVALENT COURSE	
	GL-C53	Clastic Sedimentology	NO EQUIVALENT COURSE	
	GL-C54	Carbonate Sedimentology	NO EQUIVALENT COURSE	
	GL-C55	Glacial Geology	GEOL 305	
Stratigraphy	GL-C56	Historical Geology	NO EQUIVALENT COURSE	
	GL-C57	Sequence Stratigraphy	NO EQUIVALENT COURSE	
	GL-C58	Stratigraphic Paleontology	NO EQUIVALENT COURSE	
	GL-C59	Geochronology	NO EQUIVALENT COURSE	

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Group: 2C – Other Geology – 11-GL – Electives (9 Required) continued				
Structure	GL-C60	Global Tectonics	NO EQUIVALENT COURSE	
	GL-C61	Tectonics	NO EQUIVALENT COURSE	
	GL-C62	Structural Geology	NO EQUIVALENT COURSE	

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