



Professional Engineers
and Geoscientists of BC
www.apegbc.ca

Thompson Rivers University

Environmental Geoscience Course Equivalent Listing

(Updated March 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 Thompson Rivers University. Please be aware that course codes can be subject to change at any time.

APEGBC - ENVIRONMENTAL GEOSCIENCE SYLLABUS – TRU 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****

Name: _____

System ID#: _____

	Number	Description	TRU Course	For Applicant Use
Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (3 Required)				
	FS-A1	Calculus (1 semester)	MATH 1140	
	FS-A2	Physics (1 semester)	PHYS 1100	
	FS-A3	Chemistry (1 semester)	CHEM 1500	
Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)				
	COM-B1	Mathematics	MATH 1240 and higher	
	COM-B2	Chemistry	CHEM 1510 and higher	
	COM-B3	Physics	PHYS 1200 and higher	
	COM-B4	Biology	BIOL 100 and higher	
	COM-B5	Computer Programming	COMP 1130 and higher (Must have programming content)	
	COM-B6	Statistics	STAT 2000 and higher	
Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (4 Required)				
	COM-A1	Mineralogy & Petrology	GEOL 2100 & GEOL 2150	
	COM-A2	Sedimentation & Stratigraphy	GEOL 2290	
	COM-A3	Structural Geology	GEOL 3070	
	COM-A4	Field Techniques	GEOL 3280	
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	GEOL 3030, CHEM 3030	
Group B	FEG-A3 *choose 1	Hydrology/ Hydrogeology	GEOG 2050 & GEOG 3050	
	FEG-A4	Engineering Geology	NO EQUIVALENT COURSE	
	FEG-A5 *choose 1	Geomorphology/ Soil Science	NRSC 2000 GEOL/GEOG 3190	

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	Number	Description	TRU Course	For Applicant Use
Group C	FEG-A6	Glacial Geology	NO EQUIVALENT COURSE	
	FEG-A7	Remote Sensing	NO EQUIVALENT COURSE	
Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required)				
Communication	EG-C1	Thesis	NO EQUIVALENT COURSE	
	EG-C2	Technical Writing	ENGL 1850	
Earth Systems	EG-C3	Climatology	NO EQUIVALENT COURSE	
	EG-C4	Meteorology	GEOG 3040	
	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	
	EG-C9	Ecology	NO EQUIVALENT COURSE	
Environmental Assessment	EG-C10	Environmental Assessment.	NO EQUIVALENT COURSE	
Field Techniques	EG-C11	Field Techniques	GEOL 3280	
Geochemistry	EG-C12	Environmental Geochemistry	NO EQUIVALENT COURSE	
	EG-C13	Isotope Geochemistry	NO EQUIVALENT COURSE	
	EG-C14	Aqueous Geochemistry	CHEM 3010	
	EG-C15	Biogeochemistry	NO EQUIVALENT COURSE	
	EG-C16	Atmospheric Geochemistry	CHEM 3020	
	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 3190	
	EG-C19	Natural Hazards	NO EQUIVALENT COURSE	
	EG-C20	Quaternary Geology	NO EQUIVALENT COURSE	
	EG-C21	Pedology	NO EQUIVALENT COURSE	
	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 3050, NRSC 4110	
	EG-C33	Fluid Mechanics	PHYS 3140	
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	GEOL 3010	
	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	NO EQUIVALENT COURSE	
Regional Geology	EG-C43	Geology of Canada	NO EQUIVALENT COURSE	
	EG-C44	Geology of North America	GEOL 4250	
Remote Sensing	EG-C45	Remote Sensing	NO EQUIVALENT COURSE	
	EG-C46	Air Photo Interpretation	NO EQUIVALENT COURSE	
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	GEOL 2050	
	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	