



ENGINEERS &  
GEOSCIENTISTS  
BRITISH COLUMBIA

# University of Victoria Current (2011) Syllabus Environmental Geoscience Course Equivalent List

	Number	Description	UVIC Course
<b>Group: 1A – Compulsory Foundation Science – 11-GEOCOM – Fundamental Science (3 required)</b>			
	FS-A1	Calculus (1 semester)	MATH 100, 109
	FS-A2	Physics (1 semester)	PHYS 102A, 110, 120
	FS-A3	Chemistry (1 semester)	CHEM 101
<b>Group: 1B – Additional Foundation Science – 11-GEOCOM – Electives (6 required – no more than 2 courses in any one subject)</b>			
	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	PHYS 102B, 111, 130 or 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, 418
<b>Group: 2A – Compulsory Geoscience – 11-GEOCOM – Compulsory (4 required)</b>			
	COM-A1	Mineralogy & Petrology	EOS 205
	COM-A2	Sedimentation & Stratigraphy	EOS 201
	COM-A3	Structural Geology	EOS 202
	COM-A4	Field Techniques	EOS 300
<b>Group: 2B – Foundation Environmental Geoscience – 11-EG – Compulsory (5 required – must have a minimum of 1, and at most 2, from each group, but no more than 1 in each subject)</b>			
Group A	FEG-A1	Geophysics	EOS/PHYS 210 or EOS/PHYS 427
	FEG-A2	Geochemistry	EOS 240
Group B	FEG-A3 (choose one <sup>1</sup> )	Hydrology or Hydrogeology	GEOG 272 or 370 or EOS 440
	FEG-A4	Engineering Geology	NO EQUIVALENT COURSE
Group C	FEG-A5 (choose one <sup>2</sup> )	Geomorphology or Soil Science	GEOG 276 or 376 or 424 or 476 or ER 334
	FEG-A6	Glacial Geology	EOS 450
	FGL-A7	Remote Sensing	GEOG 228 or 319 or 322 or 422

<sup>1</sup> courses in either Hydrology or Hydrogeology (but not both) are acceptable in this group.

<sup>2</sup> courses in either Geomorphology or Soil Science (but not both) are acceptable in this group.

	Number	Description	UVIC Course
<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 required)</b>			
Communication	EG-C1	Thesis	EOS 499A & B
	EG-C2	Technical Writing	ENGL 225, 301, ENGR 240
Earth Systems	EG-C3	Climatology	EOS 340, 433, GEOG 272, 373, 484
	EG-C4	Meteorology	NO EQUIV. 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
Geomorphology / Surficial Geology	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
	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
Paleontology	EG-C37	Micropaleontology	NO EQUIVALENT COURSE
	EG-C38	Paleobiology	EOS 330
	EG-C39	Palynology	NO EQUIVALENT COURSE
Quantitative Analysis	EG-C40	Geostatistics	GEOG 226, 418
	EG-C41	Computer Applications in Geoscience	NO EQUIV. COURSE
	EG-C42	Geographic Information Systems	GEOG 222, 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

	Number	Description	UVIC 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 Materials	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
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

*In the event of a discrepancy between this and the on-line document*

*(<https://www.egbc.ca/getmedia/758b94aa-e0b8-4211-a1c1-4d6c3ee90984/APEGBC-UVIC-Geo-Course-Equivalency-Geology-2011.pdf.aspx>), the latter will prevail.*