ENGINEERS & GEOSCIENTISTS BRITISH COLUMBIA

University of British Columbia (Okanagan)

Geology
Course Equivalent Listing

(Updated December 2023)

Instructions:

Prior to beginning, please ensure that you have reviewed the Guideline to Completing Geoscience Checklists & Course Descriptions.

- A course can only be listed one time on the entire checklist
- Courses you list need to correspond to the course codes that appear on your transcript
    - If you are claiming courses from more than one institution, please clearly indicate the institution name where the course was completed.
- Courses must be acceptable for credit in the Faculty of Science or Applied Science
- If you are unsure which subject a course may be claimed towards, please choose the most relevant subject and indicate your uncertainty. Reviewers will try to determine the suitable subject.
- Note that EGBC staff or volunteers may contact the applicant for additional information during the assessment if additional information or clarification is required.

This course listing is a reflection of Engineers & Geoscientists BC's adoption of the Geoscientists Canada Geoscience Knowledge Requirements. In consultation with the school, the courses in this document have been identified as equivalent to the subjects listed. Note that course codes can be subject to change at any time.

Name: _____ User ID: _____

UBC-O GEOLOGY COURSE EQUIVALENT LIST

This Geoscience Checklist 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	Subject	UBC-Okanagan	For Applicant Use
	Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)			
	FS-A1	Calculus (1 semester)	MATH 100	
	FS-A2	Physics (1 semester)	PHYS 111 or PHYS 112	
	FS-A3	Chemistry (1 semester)	CHEM 111 or CHEM 121	
	Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)			
	COM-B1	Mathematics	MATH 101, 103, and any 200 level or higher	
	COM-B2	Chemistry	CHEM 113 or CHEM 123 and any 200 level or higher	
	COM-B3	Physics	PHYS 121 or PHYS 122; and any 200 level or higher	
	COM-B4	Biology	BIOL 116, BIOL 125 and any 200 level or higher	
	COM-B5	Computer Programming	COSC 111, COSC 121 and any 200 level courses or higher	
	COM-B6	Statistics	STAT 121, 230, BIOL 202, GEOG 271, PSYO 271, SOCI 271; and/or any STAT 200 level courses and higher	
	Group: 2A – Compulsory Geoscience – 11-GEOCOM - Compulsory (All 4 Subjects Required – NO MORE THAN ONE COURSE IN EACH SUBJECT)			
	COM-A1	Mineralogy & Petrology	EESc 200	
	COM-A2	Sedimentation & Stratigraphy	EESc 356/GEOG 356	
	COM-A3	Structural Geology	EESc 325	
	COM-A4*	Field Techniques	EESc 335, 390, 435, 437, GEOG 416, 437	
	*Applicants can choose to report work experience in lieu of taking a field techniques course offered by a post-secondary institution. Instructions can be found here: COM-A4-Field-Techniques-Instructions-for-Reporting-Experience-Updated-April-2023.pdf.aspx (egbc.ca)			

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	Group: 2B – Foundation Geology – 11-GL – Compulsory (5 Required) • **Must have at least one course in each section, and** • **Maximum of two courses in each section**			
Section A	FGL-A1	Geophysics	EESc 350	
	FGL-A2	Geochemistry	EESc 323, 309, 423	
Section B	FGL-A3	Igneous Petrology	EESc 322	
	FGL-A4	Metamorphic Petrology	EESc 322	
	FGL-A5	Sedimentary Petrology	NO EQUIVALENT COURSE	
	Number	**Subject**	**UBC-Okanagan**	**For Applicant Use**
Section C	FGL-A6	Sedimentology	EESc 434	
	FGL-A7 *Only <u>one</u> can be selected	Glacial Geology or Geomorphology	EESc 222, 431, GEOG 222	
	FGL-A8	Remote Sensing or GIS	GEOG 272	

[Group 2C – Electives on next page]

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Group: 2C – Other Geology – 11-GL – Electives (9 Required) Multiple courses can be entered in each subject for only this section				
Communication	GL-C1	Thesis	EESc, 448, 449, GEOG 498	
	GL-C2	Technical Writing	ENGL 301. EESc 398, APSC 201	
Earth Systems	GL-C3	Climatology	EESc 212, 304; GEOG 200, 304, 414	
	GL-C4	Meteorology	NO EQUIVALENT COURSE	
	GL-C5	Oceanography	EEsc 303	
	GL-C6	Earth Systems	NO EQUIVALENT COURSE	
Environmental	GL-C7	Hydrogeology	EESc 342	
	GL-C8	Hydrology	EESc 205, 305, 313, 413, 402, GEOG205	
	GL-C9	Environmental Geology	NO EQUIVALENT COURSE	
	GL-C10	Limnogeology	EESc 301/BIOL 307	
	GL-C11	Biogeochemistry	EESc 309	
Field Techniques	GL-C12	Field Techniques	EESc 335, 390, 435, 437, GEOG 416, 437	
Geochemistry	GL-C13	Exploration Geochemistry	NO EQUIVALENT COURSE	
	GL-C14	Environmental Geochemistry	EESc 333	
	GL-C15	Isotope Geochemistry	EESc 423	
	GL-C16	Aqueous Geochemistry	CHEM 301	

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Group: 2C – Other Geology – 11-GL – Electives (9 Required) continued Multiple courses can be entered in each subject for only this section				
Geomorphology	GL-C17	Quaternary Geology	EESc 431	
	GL-C18	Pedology	EESc 456/GEOG 466	
	GL-C19	Geomorphology	EESc 422, 435, 436, GEOG 436	
Geophysics	GL-C20	Physics of the Earth	NO EQUIVALENT COURSE	
	GL-C21	Exploration Geophysics	EESc 350	
	GL-C22	Applied Geophyics	NO EQUIVALENT COURSE	
	GL-C23	Environmental Geophysics	NO EQUIVALENT COURSE	
Geotechnical	GL-C24	Natural Hazards	GEOG 316, 416	
	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	EESc 201	
	GL-C31	Analytical Methods	NO EQUIVALENT COURSE	
Paleontology	GL-C32	Micropaleontology	NO EQUIVALENT COURSE	
	GL-C33	Palynology	EESC 341	
	GL-C34	Paleobiology	NO EQUIVALENT COURSE	
Petrology	GL-C35	Igneous Petrology	EESc 322	
	GL-C36	Volcanology	NO EQUIVALENT COURSE	
	GL-C37	Metamorphic Petrology	EESc 322	
	GL-C38	Sedimentary Petrology	NO EQUIVALENT COURSE	

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Group: 2C – Other Geology – 11-GL – Electives (9 Required) continued Multiple courses can be entered in each subject for only this section				
Quantitative Analysis	GL-C39	Geostatistics	NO EQUIVALENT COURSE	
	GL-C40	Computer Applications in Geoscience	EESc 444, Biol 444, DATA 301	
	GL-C41	Geographic Information Systems	GEOG 370, 380, EESC 380, 381, GISC 381, 480	
Regional Geology	GL-C42	Geology of Canada	NO EQUIVALENT	
	GL-C43	Geology of North America	NO EQUIVALENT COURSE	
Remote Sensing	GL-C44	Air Photo Interpretation	NO EQUIVALENT COURSE	
	GL-C45	Remote Sensing	GEOG 272	
Resource Geology	GL-C46	Economic Geology	NO EQUIVALENT COURSE	
	GL-C47	Mineral Deposits	EESc 360	
	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	EESc 434	
	GL-C54	Carbonate Sedimentology	NO EQUIVALENT COURSE	
	GL-C55	Glacial Geology	NO EQUIVALENT COURSE	
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 Multiple courses can be entered in each subject for only this section				
Structure	GL-C60	Global Tectonics	NO EQUIVALENT COURSE	
	GL-C61	Tectonics	EESc 425	
	GL-C62	Structural Geology	NO EQUIVALENT COURSE	