



ENGINEERS &  
GEOSCIENTISTS  
BRITISH COLUMBIA

# University of British Columbia Vancouver Campus

## 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: \_\_\_\_\_

System ID#: \_\_\_\_\_

## EGBC - GEOLOGY CHECKLIST – UBC 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\*\***

Name: \_\_\_\_\_

System ID#: \_\_\_\_\_

	Number	Description	UBC	For Applicant Use
<b>Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)</b>				
	FS-A1	Calculus (1 semester)	MATH 100, 101, 102, 104, 110, 120, 180, 184	
	FS-A2	Physics (1 semester)	PHYS 101, 107, 117, 131	
	FS-A3	Chemistry (1 semester)	CHEM 110, 111, 121, 120, 141	
<b>Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)</b>				
	COM-B1	Mathematics	MATH 101, 103, 105, 121 and any 200 level or higher	
	COM-B2	Chemistry	CHEM 113, 123, 130 and any 200 level or higher	
	COM-B3	Physics	PHYS 102, 108, 118, 170 and any 200 level or higher	
	COM-B4	Biology	BIOL 112, 121 and any 200 level or higher	
	COM-B5	Computer Programming	EOSC 211, 213, CPSC 110, 189 and/or any 200 level CPSC or higher; CPSC 103 or APSC 160 (cannot complete both)	
	COM-B6	Statistics	STAT 200, 241, 251, BIOL 300, GEOG 374, DSCI 100	
<b>Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (All 4 Subjects Required – NO MORE THAN ONE COURSE IN EACH SUBJECT)</b>				
	COM-A1	Mineralogy & Petrology	EOSC 220	
	COM-A2	Sedimentation & Stratigraphy	EOSC 222, 320	
	COM-A3	Structural Geology	EOSC 323	
	COM-A4*	Field Techniques	EOSC 223	
<p>*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:  <a href="https://geog.ubc.ca/news/geob-course-codes-changing-to-geos/">COM-A4-Field-Techniques-Instructions-for-Reporting-Experience-Updated-April-2023.pdf.aspx</a> (egbc.ca)</p>				

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<b>Group: 2B – Foundation Geology – (5 Required)</b> <ul style="list-style-type: none"> <li>• <b>Must have at least one course in each group, and</b></li> <li>• <b>Maximum of two courses in each group</b></li> </ul>				
Group A	FGL-A1	Geophysics	EOSC 250, 350	
	FGL-A2	Geochemistry	EOSC 333	
Group B	FGL-A3	Igneous Petrology	EOSC 321	
	FGL-A4	Metamorphic Petrology	EOSC 322	
	FGL-A5	Sedimentary Petrology	NO EQUIVALENT COURSE	
Group C	FGL-A6	Sedimentology	EOSC 320	
	FGL-A7 *Only one can be selected	Glacial Geology or Geomorphology	EOSC 330, GEOB 206, GEOB 308	
	FGL-A8	Remote Sensing or GIS	GEOS 373	

[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	EOSC 449	
	GL-C2	Technical Writing	ENGL 301	
Earth Systems	GL-C3	Climatology	EOSC 340, 442; GEOS 200, 204, 300	
	GL-C4	Meteorology	ATSC 201, 303; GEOS 304, 401, 402	
	GL-C5	Oceanography	EOSC 372, 373, 470, 473	
	GL-C6	Earth Systems	ISCI 360	
Environmental	GL-C7	Hydrogeology	EOSC 325, 329, 428	
	GL-C8	Hydrology	GEOS 305, 403, FRST 385, CIVL 418, ENVR 420	
	GL-C9	Environmental Geology	NO EQUIVALENT COURSE	
	GL-C10	Limnogeology	NO EQUIVALENT COURSE	
	GL-C11	Biogeochemistry	GEOS 400	
Field Techniques	GL-C12	Field Techniques	EOSC 328, 428 GEOS 309, 409	
Geochemistry	GL-C13	Exploration Geochemistry	NO EQUIVALENT COURSE	
	GL-C14	Environmental Geochemistry	NO EQUIVALENT COURSE	
	GL-C15	Isotope Geochemistry	EOSC 333, 523	
	GL-C16	Aqueous Geochemistry	EOSC 430, CHEM 301	

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Group: 2C – Other Geology – 11-GL – Electives (9 Required) continued				
Geomorphology	GL-C17	Quaternary Geology	GEOB 308	
	GL-C18	Pedology	APBI 200	
	GL-C19	Geomorphology	EOSC 330, GEOS 206, 405, 406	
Geophysics	GL-C20	Physics of the Earth	EOSC 453	
	GL-C21	Exploration Geophysics	EOSC 350	
	GL-C22	Applied Geophysics	EOSC 454	
	GL-C23	Environmental Geophysics	EOSC 350	
Geotechnical	GL-C24	Natural Hazards	NO EQUIVALENT COURSE	
	GL-C25	Engineering Geology	EOSC 210, 213, 434	
	GL-C26	Soil Mechanics	CIVL 210, EOSC 434	
	GL-C27	Rock Mechanics	EOSC 433, MINE 303	
Mineralogy	GL-C28	Crystallography	NO EQUIVALENT COURSE	
	GL-C29	X-Ray Crystallography	NO EQUIVALENT COURSE	
	GL-C30	Optical Mineralogy	EOSC 221	
	GL-C31	Analytical Methods	EOSC 521	
Paleontology	GL-C32	Micropaleontology	NO EQUIVALENT COURSE	
	GL-C33	Palynology	NO EQUIVALENT COURSE	
	GL-C34	Paleobiology	EOSC 425	
Petrology	GL-C35	Igneous Petrology	EOSC 321	
	GL-C36	Volcanology	EOSC 420	
	GL-C37	Metamorphic Petrology	EOSC 322	
	GL-C38	Sedimentary Petrology	NO EQUIVALENT COURSE	

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<b>Group: 2C – Other Geology – 11-GL – Electives (9 Required) continued</b>				
Quantitative Analysis	GL-C39	Geostatistics	GEOG 374	
	GL-C40	Computer Applications in Geoscience	EOSC 211, 213, 410	
	GL-C41	Geographic Information Systems	GEOB 270, 370	
Regional Geology	GL-C42	Geology of Canada	NO EQUIVALENT COURSE	
	GL-C43	Geology of North America	EOSC 332	
Remote Sensing	GL-C44	Air Photo Interpretation	NO EQUIVALENT COURSE	
	GL-C45	Remote Sensing	GEOS 373	
Resource Geology	GL-C46	Economic Geology	NO EQUIVALENT COURSE	
	GL-C47	Mineral Deposits	EOSC 331	
	GL-C48	Ore Petrology	EOSC 424	
	GL-C49	Coal Geology	EOSC 432	
	GL-C50	Petroleum Geology	EOSC 432	
	GL-C51	Industrial Materials	NO EQUIVALENT COURSE	
Sedimentology	GL-C52	Chemical Sedimentology	NO EQUIVALENT COURSE	
	GL-C53	Clastic Sedimentology	EOSC 421	
	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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<b>Group: 2C – Other Geology – 11-GL – Electives (9 Required) continued</b>				
Structure	GL-C60	Global Tectonics	NO EQUIVALENT COURSE	
	GL-C61	Tectonics	NO EQUIVALENT COURSE	
	GL-C62	Structural Geology	EOSC 323, 422	

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