



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

Simon Fraser University

Geology

Course Equivalent Listing

(Updated September 2020)

This course listing is a reflection of Engineers & Geoscientists BC's adoption of the Geoscientists Canada [Geoscience Knowledge Requirements](#). In consultation with Simon Fraser University, 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. Prior to beginning, please ensure that you have reviewed the [Guideline to Completing Geoscience Checklists & Course Descriptions](#).

Instructions:

- 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
- Courses must be acceptable for credit in the Faculty of Science or Applied Science

Name: _____

User ID: _____

Simon Fraser University Geology Course Equivalent Checklist

	Number	Subject	SFU Course	For Applicant Use
Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)				
	FS-A1	Calculus (1 semester)	MATH 150, 151, 154, 157 (Choose One)	
	FS-A2	Physics (1 semester)	PHYS 101,120, 125, 140 (Choose One)	
	FS-A3	Chemistry (1 semester)	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 152, 155, 158 or any 200 level or higher	
	COM-B2	Chemistry	CHEM 122, 126 or any 200 level or higher	
	COM-B3	Physics	PHYS 102 & 130, 121 & 131, 126 & 131, or PHYS 141, or any 200 level PHYS or higher	
	COM-B4	Biology	BISC 101, 102, GEOG 215 or any 200 level BISC or higher	
	COM-B5	Computer Programming	EASC 305 Any 100 level CMPT or higher (Must have programming content)	
	COM-B6	Statistics	STAT 101, 201, 270, GEOG 251	
Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (4 Required)				
	COM-A1	Mineralogy & Petrology	EASC 202	
	COM-A2	Sedimentation & Stratigraphy	EASC 201	
	COM-A3	Structural Geology	EASC 204	
	COM-A4	Field Techniques	GEOG 310, EASC 206 & 306, EASC 308, 406	
Group: 2B – Foundation Geology – 11-GL – (5 Required) • Must have at least one course in each group, and • Maximum of two courses in each group				
Group A	FGL-A1	Geophysics	EASC 207	
	FGL-A2	Geochemistry	EASC 208, GEOG 316	
Group B	FGL-A3	Igneous Petrology	EASC 301	
	FGL-A4	Metamorphic Petrology	EASC 301, 311	
	FGL-A5	Sedimentary Petrology	EASC 302	

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Group C	FGL-A6	Sedimentology	EASC 402	
	FGL-A7 *Only <u>one</u> can be selected	Glacial Geology or Geomorphology	GEOG 213, 317, 412, EASC 403	
	FGL-A8	Remote Sensing	GEOG 253, 353	
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	GEOG 491, EASC 499	
	GL-C2	Technical Writing	NO EQUIVALENT COURSE	
Earth Systems	GL-C3	Climatology	GEOG 214, GEOG 314, GEOG 414	
	GL-C4	Meteorology	CHEM 372	
	GL-C5	Oceanography	NO EQUIVALENT COURSE	
	GL-C6	Earth Systems	EASC 405	
Environmental	GL-C7	Hydrogeology	EASC 304, 405, 410, 415	
	GL-C8	Hydrology	GEOG 311, 411	
	GL-C9	Environmental Geology	EASC 209, 303	
	GL-C10	Limnogeology	NO EQUIVALENT COURSE	
	GL-C11	Biogeochemistry	GEOG 316	
Field Techniques	GL-C12	Field Techniques	GEOG 310, EASC 206 & 306, EASC 308, 406, 416	
Geochemistry	GL-C13	Exploration Geochemistry	NO EQUIVALENT COURSE	
	GL-C14	Environmental Geochemistry	EASC 208, GEOG 316, CHEM 371	
	GL-C15	Isotope Geochemistry	NO EQUIVALENT COURSE	
	GL-C16	Aqueous Geochemistry	EASC 315, 412, 416 CHEM 371	

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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	GEOG 412, EASC 314, 403	
	GL-C18	Pedology	GEOG 317, 417	
	GL-C19	Geomorphology	GEOG 213, 313, 412, 413, EASC 209, 411	
Geophysics	GL-C20	Physics of the Earth	EASC 317	
	GL-C21	Exploration Geophysics	NO EQUIVALENT COURSE	
	GL-C22	Applied Geophysics	EASC 307	
	GL-C23	Environmental Geophysics	NO EQUIVALENT COURSE	
Geotechnical	GL-C24	Natural Hazards	GEOG 312, EASC 313	
	GL-C25	Engineering Geology	EASC 413	
	GL-C26	Soil Mechanics	EASC 313	
	GL-C27	Rock Mechanics	EASC 313	
Mineralogy	GL-C28	Crystallography	NO EQUIVALENT COURSE	
	GL-C29	X-Ray Crystallography	NO EQUIVALENT COURSE	
	GL-C30	Optical Mineralogy	EASC 205	
	GL-C31	Analytical Methods	NO EQUIVALENT COURSE	
Paleontology	GL-C32	Micropaleontology	EASC 310	
	GL-C33	Palynology	BISC 434	
	GL-C34	Paleobiology	NO EQUIVALENT COURSE	
Petrology	GL-C35	Igneous Petrology	EASC 301	
	GL-C36	Volcanology	EASC 421	
	GL-C37	Metamorphic Petrology	EASC 311	
	GL-C38	Sedimentary Petrology	EASC 302	

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Quantitative Analysis	GL-C39	Geostatistics	GEOG 352, GEOG 451	
	GL-C40	Computer Applications in Geoscience	GEOG 351, 356, 451, 457, REM 412, EASC 305	
	GL-C41	Geographic Information Systems	GEOG 255, 355	
Regional Geology	GL-C42	Geology of Canada	EASC 408	
	GL-C43	Geology of North America	NO EQUIVALENT COURSE	
Remote Sensing	GL-C44	Air Photo Interpretation	NO EQUIVALENT COURSE	
	GL-C45	Remote Sensing	GEOG 253, 353, 453	
Resource Geology	GL-C46	Economic Geology	NO EQUIVALENT COURSE	
	GL-C47	Mineral Deposits	EASC 401	
	GL-C48	Ore Petrology	NO EQUIVALENT COURSE	
	GL-C49	Coal Geology	NO EQUIVALENT COURSE	
	GL-C50	Petroleum Geology	EASC 420	
	GL-C51	Industrial Materials	NO EQUIVALENT COURSE	
Sedimentology	GL-C52	Chemical Sedimentology	NO EQUIVALENT COURSE	
	GL-C53	Clastic Sedimentology	EASC 402	
	GL-C54	Carbonate Sedimentology	NO EQUIVALENT COURSE	
	GL-C55	Glacial Geology	NO EQUIVALENT COURSE	
Stratigraphy	GL-C56	Historical Geology	EASC 210	
	GL-C57	Sequence Stratigraphy	EASC 312	
	GL-C58	Stratigraphic Paleontology	NO EQUIVALENT COURSE	
	GL-C59	Geochronology	NO EQUIVALENT COURSE	

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Structure	GL-C60	Global Tectonics	EASC 309	
	GL-C61	Tectonics	NO EQUIVALENT COURSE	
	GL-C62	Structural Geology	EASC 404	