



ENGINEERS &  
GEOSCIENTISTS  
BRITISH COLUMBIA

# University of Northern British Columbia

## Environmental Geoscience 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#: \_\_\_\_\_

ENGINEERS AND GEOSCIENTISTS BC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – UNBC 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	Description	UNBC Course	For Applicant Use
<b>Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)</b>				
	FS-A1	Calculus (1 semester)	MATH 100	
	FS-A2	Physics (1 semester)	PHYS 110	
	FS-A3	Chemistry (1 semester)	CHEM 101, 100	
<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 and any 200 level courses or higher	
	COM-B2	Chemistry	CHEM 101, 102 and any 200 level courses or higher	
	COM-B3	Physics	PHYS 111 and any 200 level courses or higher	
	COM-B4	Biology	BIOL 101, 102, 103, 104 and any 200 level courses or higher	
	COM-B5	Computer Programming	COMP 100, 101; CPSC 100, 200; or any COMP 200 level computer programming course or higher	
	COM-B6	Statistics	MATH 240, STAT 240 or any STAT 300 level courses and higher	
<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	NO EQUIVALENT COURSE	
	COM-A2	Sedimentation & Stratigraphy	GEOG 320	
	COM-A3	Structural Geology	NO EQUIVALENT COURSE	
	COM-A4*	Field Techniques	GEOG 333	
<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://www.egbc.ca/COM-A4-Field-Techniques-Instructions-for-Reporting-Experience-Updated-April-2023.pdf.aspx">COM-A4-Field-Techniques-Instructions-for-Reporting-Experience-Updated-April-2023.pdf.aspx</a>  <a href="https://www.egbc.ca">egbc.ca</a></p>				

ENGINEERS AND GEOSCIENTISTS BC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – UNBC 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\*\**

<b>Group: 2B – Foundation Environmental Geoscience – (5 Required)</b> • <b>Must have at least one course in each group, and</b> • <b>Maximum of two courses in each group</b>				
Group A	FEG-A1	Geophysics	NO EQUIVALENT COURSE	
	FEG-A2	Geochemistry	ENSC 207, ENSC 307	
Group B	FEG-A3 (a)	Hydrology	GEOG 310, ENSC 451	
	FEG-A3 (b)	Hydrogeology	NO EQUIVALENT COURSE	
	FEG-A4	Engineering Geology	NO EQUIVALENT COURSE	
Group C	FEG-A5 *choose 1	Geomorphology/ Soil Science	GEOG 210, FSTY 205	
	FEG-A6	Glacial Geology	GEOG 411	
	FEG-A7	Remote Sensing or GIS	GEOG 432, GEOG 457	

[Group 2C – Electives on next page]

ENGINEERS AND GEOSCIENTISTS BC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – UNBC 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\*\****

<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) Multiple courses can be entered in each subject for only this section</b>				
Communication	EG-C1	Thesis	GEOG 430	
	EG-C2	Technical Writing	ENGR 110	
Earth Systems	EG-C3	Climatology	ENSC 425	
	EG-C4	Meteorology	ENSC 201, 408, 412	
	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	BIOL 210, FSTY 207, BIOL 201	
Environmental Assessment	EG-C10	Environmental Assessment.	ENPL 305	
Field Techniques	EG-C11	Field Techniques	NO EQUIVALENT COURSE	
Geochemistry	EG-C12	Environmental Geochemistry	ENSC 207	
	EG-C13	Isotope Geochemistry	NO EQUIVALENT COURSE	
	EG-C14	Aqueous Geochemistry	NO EQUIVALENT COURSE	
	EG-C15	Biogeochemistry	NO EQUIVALENT COURSE	
	EG-C16	Atmospheric Geochemistry	NO EQUIVALENT COURSE	
	EG-C17	Low Temperature Geochemistry	NO EQUIVALENT COURSE	

ENGINEERS AND GEOSCIENTISTS BC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – UNBC 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\*\***

Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued. Multiple courses can be entered in each subject for only this section.				
Geomorphology/ Surficial	EG-C18	Geomorphology	GEOG 311, 312, 405, 414	
	EG-C19	Natural Hazards	GEOG 211	
	EG-C20	Quaternary Geology	GEOG 411	
	EG-C21	Pedology	ENSC 435, 460; FSTY 415, 425	
	EG-C22	Glaciology	ENSC 454	
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	CIVE 360, CIVE 260	
	EG-C28	Rock Mechanics	CIVE 438	
	EG-C29	Resource Geotechnics	NO EQUIVALENT COURSE	
Hydrology/ Hydrogeology	EG-C30	Contaminant Transport	ENVE 351	
	EG-C31	Hydrogeology	NO EQUIVALENT COURSE	
	EG-C32	Hydrology	GEOG 310	
	EG-C33	Fluid Mechanics	ENSC 350, ENGR 354, ENGR 254	
Mineralogy/ Petrology	EG-C34	Crystallography	NO EQUIVALENT COURSE	
	EG-C35	X-Ray Crystallography	NO EQUIVALENT COURSE	
	EG-C36	Analytical Methods	NO EQUIVALENT COURSE	

**ENGINEERS AND GEOSCIENTISTS BC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – UNBC 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	Description	School Name	For Applicant Use
<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued. Multiple courses can be entered in each subject for only this section.</b>				
Paleontology	EG-C37	Micropaleontology	NO EQUIVALENT COURSE	
	EG-C38	Paleobiology	NO EQUIVALENT COURSE	
	EG-C39	Palynology	NO EQUIVALENT COURSE	
Quantitative Analysis	EG-C40	Geostatistics	NO EQUIVALENT COURSE	
	EG-C41	Computer Applications in Geoscience	ENSC 450, GEOG 450, GEOG 250	
	EG-C42	Geographic Information Systems	GEOG 204, 300	
Regional Geology	EG-C43	Geology of Canada	NO EQUIVALENT COURSE	
	EG-C44	Geology of North America	NO EQUIVALENT COURSE	
Remote Sensing	EG-C45	Remote Sensing	GEOG 432, 457	
	EG-C46	Air Photo Interpretation	GEOG 205	
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	

ENGINEERS AND GEOSCIENTISTS BC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – UNBC 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\*\****

	EG-C57	Limnogeology	NO EQUIVALENT COURSE	
--	--------	--------------	----------------------	--

	Number	Description	School Name	For Applicant Use
<b>Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued. Multiple courses can be entered in each subject for only this section.</b>				
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	NO EQUIVALENT COURSE	
	EG-C63	Tectonics	NO EQUIVALENT COURSE	
	EG-C64	Structural Geology	NO EQUIVALENT COURSE	