



ENGINEERS &  
GEOSCIENTISTS  
BRITISH COLUMBIA

# Thompson Rivers University

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

**EGBC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – TRU 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	TRU Course	For Applicant Use
<b>Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required)</b>				
	FS-A1	Calculus (1 semester)	MATH 1140, 1141, 1150	
	FS-A2	Physics (1 semester)	PHYS 1100, 1150	
	FS-A3	Chemistry (1 semester)	CHEM 1500	
<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 1230, or 1240, 1241 and higher, MATH 1250	
	COM-B2	Chemistry	CHEM 1510 and higher, CHEM 1523 &1525, or 1503 &1505.	
	COM-B3	Physics	PHYS 1250, 1200 and higher, or PHYS 1203 & 1205	
	COM-B4	Biology	BIOL 100 and higher, BIOL 1113 & 1115, 1213 & 1215, or BIOL 1210	
	COM-B5	Computer Programming	COMP 1130, 1131 and higher, COMP 1140, 1230, 1231, or 1240 (Must have programming content)	
	COM-B6	Statistics	STAT 1200, 1201, 2000 and higher, STAT 2230, STAT 2410, GEOG 2700	
<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	GEOL 2100 & GEOL 2150	
	COM-A2	Sedimentation & Stratigraphy	GEOL 2290	
	COM-A3	Structural Geology	GEOL 3070	
	COM-A4*	Field Techniques	GEOL 3280	
<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>				

**EGBC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – TRU 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> <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	FEG-A1	Geophysics	NO EQUIVALENT COURSE	
	FEG-A2	Geochemistry	GEOL 3030, CHEM 3030	
Group B	FEG-A3 (a)	Hydrology	GEOG 2050 & GEOG 3050	
	FEG-A3 (b)	Hydrogeology	NO EQUIVALENT COURSE	
	FEG-A4	Engineering Geology	NO EQUIVALENT COURSE	
Group C	FEG-A5 *choose 1	Geomorphology/ Soil Science	NRSC 2000 GEOL/GEOG 3190	
	FEG-A6	Glacial Geology	NO EQUIVALENT COURSE	
	FEG-A7	Remote Sensing or GIS	NO EQUIVALENT COURSE	

[Group 2C – Electives on next page]

**EGBC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – TRU 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)</b> <b>Multiple courses can be entered in each subject for only this section</b>				
Communication	EG-C1	Thesis	NO EQUIVALENT COURSE	
	EG-C2	Technical Writing	ENGL 1850, CMNS 1290	
Earth Systems	EG-C3	Climatology	GEOG 2020	
	EG-C4	Meteorology	GEOG 3040	
	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	NO EQUIVALENT COURSE	
Environmental Assessment	EG-C10	Environmental Assessment.	NO EQUIVALENT COURSE	
Field Techniques	EG-C11	Field Techniques	GEOL 3280	
Geochemistry	EG-C12	Environmental Geochemistry	NO EQUIVALENT COURSE	
	EG-C13	Isotope Geochemistry	NO EQUIVALENT COURSE	
	EG-C14	Aqueous Geochemistry	CHEM 3010	
	EG-C15	Biogeochemistry	NO EQUIVALENT COURSE	
	EG-C16	Atmospheric Geochemistry	CHEM 3020	
	EG-C17	Low Temperature Geochemistry	NO EQUIVALENT COURSE	

**EGBC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – TRU 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) continued. Multiple courses can be entered in each subject for only this section.</b>				
Geomorphology/ Surficial	EG-C18	Geomorphology	GEOL 3190, GEOG 4050	
	EG-C19	Natural Hazards	GEOL 2070, 2071	
	EG-C20	Quaternary Geology	NO EQUIVALENT COURSE	
	EG-C21	Pedology	NO EQUIVALENT COURSE	
	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	NO EQUIVALENT COURSE	
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	NO EQUIVALENT COURSE	
	EG-C32	Hydrology	GEOG 3050, NRSC 4110	
	EG-C33	Fluid Mechanics	PHYS 3140	
Mineralogy/ Petrology	EG-C34	Crystallography	NO EQUIVALENT COURSE	
	EG-C35	X-Ray Crystallography	NO EQUIVALENT COURSE	
	EG-C36	Analytical Methods	GEOL 3160	

**EGBC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – TRU 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	TRU Course	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	GEOL 3010	
	EG-C39	Palynology	NO EQUIVALENT COURSE	
Quantitative Analysis	EG-C40	Geostatistics	NO EQUIVALENT COURSE	
	EG-C41	Computer Applications in Geoscience	NO EQUIVALENT COURSE	
	EG-C42	Geographic Information Systems	GEOG 3750, 3770, 4750	
Regional Geology	EG-C43	Geology of Canada	NO EQUIVALENT COURSE	
	EG-C44	Geology of North America	GEOL 4250	
Remote Sensing	EG-C45	Remote Sensing	NO EQUIVALENT COURSE	
	EG-C46	Air Photo Interpretation	NO EQUIVALENT COURSE	
Resource Geology	EG-C47	Economic Geology	NO EQUIVALENT COURSE	
	EG-C48	Mineral Deposits	GEOL 2060	
	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	
	EG-C57	Limnogeology	NO EQUIVALENT COURSE	

**EGBC - ENVIRONMENTAL GEOSCIENCE CHECKLIST – TRU 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	TRU Course	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	GEOL 2050, 2051	
	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	