



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

Environmental Geoscience Checklist for Self-Evaluation

(Updated June 2023)

This course listing is a reflection of Engineers & Geoscientists BC's adoption of the Geoscientists Canada [Geoscience Knowledge Requirements](#).

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.

Environmental Geoscience Self-Evaluation Checklist

Name: _____

User ID: _____

| | Number | Subject | Course (Institution Name) | Additional notes/comments |
|--|--|---------------------------------|------------------------------|------------------------------|
| Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Fundamental Science (All 3 Required) | | | | |
| | FS-A1 | Calculus (1 semester) | | |
| | FS-A2 | Physics (1 semester) | | |
| | FS-A3 | Chemistry (1 semester) | | |
| Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT) | | | | |
| | COM-B1 | Mathematics | | |
| | COM-B2 | Chemistry | | |
| | COM-B3 | Physics | | |
| | COM-B4 | Biology | | |
| | COM-B5 | Computer Programming | | |
| | COM-B6 | Statistics | | |
| Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (All subjects required) | | | | |
| | COM-A1 | Mineralogy & Petrology | | |
| | COM-A2 | Sedimentation & Stratigraphy | | |
| | COM-A3 | Structural Geology | | |
| | COM-A4* | Field Techniques | | |
| | *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) | | | |
| Group: 2B – Foundation Environmental Geoscience – 11-EG – (5 Required) | | | | |
| <ul style="list-style-type: none"> • Must have at least one course in each group, and • Maximum of two courses in each group | | | | |
| Group A | FEG-A1 | Geophysics | | |
| | FEG-A2 | Geochemistry | | |
| | FEG-A3(a) | Hydrology | | |

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|--|---------------------|---------------------------------|--------------------------------------|--------------------------------------|
| Group B | FEG-A3(b) | Hydrogeology | | |
| | FEG-A4 | Engineering Geology | | |
| Group C | FEG-A5 *choose 1 | Geomorphology/ Soil Science | | |
| | FEG-A6 | Glacial Geology | | |
| | FEG-A7 | Remote Sensing or GIS | | |
| Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) Multiple courses can be entered in each subject for only this section | | | | |
| Communication | EG-C1 | Thesis | | |
| | EG-C2 | Technical Writing | | |
| Earth Systems | EG-C3 | Climatology | | |
| | EG-C4 | Meteorology | | |
| | EG-C5 | Oceanography | | |
| | EG-C6 | Paleoenvironmental Studies | | |
| | EG-C7 | Paleoclimatology | | |
| | EG-C8 | Paleoecology | | |
| | EG-C9 | Ecology | | |
| Environmental Assessment | EG-C10 | Environmental Assessment | | |
| Field Techniques | EG-C11 | Field Techniques | | |
| Geochemistry | EG-C12 | Environmental Geochemistry | | |
| | EG-C13 | Isotope Geochemistry | | |
| | EG-C14 | Aqueous Geochemistry | | |
| | EG-C15 | Biogeochemistry | | |
| | EG-C16 | Atmospheric Geochemistry | | |
| | EG-C17 | Low Temperature Geochemistry | | |

Environmental Geoscience Self-Evaluation 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 | | |
| | EG-C19 | Natural Hazards | | |
| | EG-C20 | Quaternary Geology | | |
| | EG-C21 | Pedology | | |
| | EG-C22 | Glaciology | | |
| Geophysics | EG-C23 | Environmental Geophysics | | |
| | EG-C24 | Exploration Geophysics | | |
| | EG-C25 | Applied Geophysics | | |
| Geotechnical | EG-C26 | Engineering Geology | | |
| | EG-C27 | Soil Mechanics | | |
| | EG-C28 | Rock Mechanics | | |
| | EG-C29 | Resource Geotechnics | | |
| Hydrology/ Hydrogeology | EG-C30 | Contaminant Transport | | |
| | EG-C31 | Hydrogeology | | |
| | EG-C32 | Hydrology | | |
| | EG-C33 | Fluid Mechanics | | |
| Mineralogy/ Petrology | EG-C34 | Crystallography | | |
| | EG-C35 | X-Ray Crystallography | | |
| | EG-C36 | Analytical Methods | | |

Environmental Geoscience Self-Evaluation Checklist

| | Number | Subject | (Institution Name) Course | For Applicant Use |
|--|--------|-------------------------------------|---------------------------|-------------------|
| Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued | | | | |
| Multiple courses can be entered in each subject for only this section | | | | |
| Paleontology | EG-C37 | Micropaleontology | | |
| | EG-C38 | Paleobiology | | |
| | EG-C39 | Palynology | | |
| Quantitative Analysis | EG-C40 | Geostatistics | | |
| | EG-C41 | Computer Applications in Geoscience | | |
| | EG-C42 | Geographic Information Systems | | |
| Regional Geology | EG-C43 | Geology of Canada | | |
| | EG-C44 | Geology of North America | | |
| Remote Sensing | EG-C45 | Remote Sensing | | |
| | EG-C46 | Air Photo Interpretation | | |
| Resource Geology | EG-C47 | Economic Geology | | |
| | EG-C48 | Mineral Deposits | | |
| | EG-C49 | Ore Petrology | | |
| | EG-C50 | Coal Geology | | |
| | EG-C51 | Petroleum Geology | | |
| | EG-C52 | Industrial Minerals | | |
| Sedimentology | EG-C53 | Chemical Sedimentology | | |
| | EG-C54 | Clastic Sedimentology | | |
| | EG-C55 | Carbonate Sedimentology | | |
| | EG-C56 | Glacial Geology | | |
| | EG-C57 | Limnogeology | | |

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| Group: 2C – Other Environmental Geoscience – 11-EG – Electives (9 Required) continued Multiple courses can be entered in each subject for only this section | | | | |
| Stratigraphy | EG-C58 | Historical Geology | | |
| | EG-C59 | Sequence Stratigraphy | | |
| | EG-C60 | Stratigraphic Paleontology | | |
| | EG-C61 | Geochronology | | |
| Structure | EG-C62 | Global Tectonics | | |
| | EG-C63 | Tectonics | | |
| | EG-C64 | Structural Geology | | |