ENGINEERS & GEOSCIENTISTS BRITISH COLUMBIA

Geophysics
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. In consultation with (Institution Name), 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.

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.

Geophysics Self-Evaluation Checklist

Name: _____ System ID#:_____

	Number	Description	Course (Institution Name)	Additional notes/comments
	Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Foundation Science (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 4 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)			

Geophysics Self-Evaluation Checklist

Name: _____ System ID#:_____

	Number	Description	Course (Institution Name)	Additional notes/comments
Group: 2B – Foundation Geophysics – 11-GP – Compulsory (5 of 6 Required)				
	FGP-A1	Digital Signal Processing		
	FGP-A2	Global Geophysics		
	FGP-A3	Seismology/Seismic Methods		
	FGP-A4	Exploration Geophysics		
	FGP-A5	Radiometrics/Gravity & Magnetics		
	FGP-A6	Electrical & Electromagnetic Methods		

Group: 2C – Other Geophysics – 11-GP – Electives (9 Required – must be chosen from at least <u>FOUR</u> separate groups)				
Communication	GP-C1	Thesis		
	GP-C2	Technical Writing		
Earth & Planetary Geoscience	GP-C3	Geomagnetism/ Paleomagnetism		
	GP-C4	Global Tectonics		
	GP-C5	Global Geophysics		
Fundamental Math/Physics	GP-C6	Complex Analysis		
	GP-C7	Differential Equations		
	GP-C8	Electricity & Magnetism		

	GP-C9	Mechanics		
	GP-C10	Thermodynamics		
	GP-C11	Vibrations, Waves & Opitcs		
Field Techniques	GP-C12	Field Techniques		
Regional Geology	GP-C13	Geology of Canada		
	GP-C14	Geology of North America		
Geology	GP-C15	Geochemistry		
	GP-C16	Igneous Petrology		
	GP-C17	Metamorphic Petrology		
	GP-C18	Sedimentary Petrology		
	GP-C19	Structural Geology		
	GP-C20	Tectonics		
Modern Physics	GP-C21	Modern Physics		
Geophysical Methods & Interpretation	GP-C22	Analytical Methods		
	GP-C23	Marine Geophysics		
	GP-C24	Electrical & Electromagnetic Methods		
	GP-C25	Gravity & Magnetics		
	GP-C26	Seismology		
	GP-C27	Radiometrics		
	GP-C28	Rock Properties/ Rock Physics		
	GP-C29	Seismic Interpretation		

Near Surface Geoscience	GP-C30	Environmental Geophysics		
	GP-C31	Geomorphology		
	GP-C32	Geographic Information Systems		
	GP-C33	Glacial/Quaternary Geology		
	GP-C34	Remote Sensing		
Resource Geoscience	GP-C35	Fluid Flow in Porous Media		
	GP-C36	Hydrogeology/ Hydrology		
	GP-C37	Mineral Deposits Geology		
	GP-C38	Petroleum Geology		
	GP-C39	Reservoir Engineering		
	GP-C40	Well Log Analysis		
Applied Math/Physics	GP-C41	Calculus		
	GP-C42	Computer-Controlled Instrumentation		
	GP-C43	Condensed Matter Physics		
	GP-C44	Continuum Mechanics		
	GP-C45	Digital Signal Processing		
	GP-C46	Electromagnetic Theory		
	GP-C47	Electronics for Scientists		
	GP-C48	Fluid Dynamics		
	GP-C49	Fluid Flow Porous Media		
	GP-C50	Geostatistics		

	GP-C51	Integral Transforms		
	GP-C52	Linear Algebra		
	GP-C53	Mathematical Physics		
	GP-C54	Numerical Methods/ Computing		
	GP-C55	Optics		
	GP-C56	Partial Differential Equations		
	GP-C57	Signal Analysis		
	GP-C58	Vector & Tensor Analysis		