



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](#).

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		
<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: COM-A4-Field-Techniques-Instructions-for-Reporting-Experience-Updated-April-2023.pdf.aspx (egbc.ca)</p>				

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Name: _____

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	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 & Magnetism		
	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		

Geophysics Self-Evaluation Checklist

	GP-C9	Mechanics		
	GP-C10	Thermodynamics		
	GP-C11	Vibrations, Waves & Optics		
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		

Geophysics Self-Evaluation Checklist

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		

Geophysics Self-Evaluation Checklist

	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		