



Professional Engineers  
and Geoscientists of BC

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# Geophysics

## Checklist for Self-Evaluation

**NOTE:** This checklist is a reflection of APEGBC's adoption of the Geoscientists Canada "Geoscience Knowledge Requirements". Effective January 2011, geoscience applicants will have the option of attempting to meet the academic requirements either by applying under this 2011 syllabus or the previous 2006 syllabus.

Name: \_\_\_\_\_

System ID#: \_\_\_\_\_

**ASSOCIATION OF PROFESSIONAL ENGINEERS & GEOSCIENTISTS OF BRITISH COLUMBIA  
GEOSCIENCE SYLLABUS - CHECKLIST FOR SELF-EVALUATION**

*This Geoscience Syllabus 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	Applicant's Self-Evaluation Course Equivalent	For Office Use Only
<b>Group: 1A – Compulsory Foundation Science – 11-GEOCOM- Foundation Science (3 Required)</b>				
	FS-A1	Calculus (1 semester)		
	FS-A2	Physics (1 semester)		
	FS-A3	Chemistry (1 semester)		
<b>Group: 1B – Additional Foundation Science – 11-GEOCOM- Electives (6 Required – NO MORE THAN TWO COURSES IN ANY ONE SUBJECT)</b>				
	COM-B1	Mathematics		
	COM-B2	Chemistry		
	COM-B3	Physics		
	COM-B4	Biology		
	COM-B5	Computer Programming		
	COM-B6	Statistics		
<b>Group: 2A – Compulsory Geoscience – 11-GEOCOM- Compulsory (4 Required)</b>				
	COM-A1	Mineralogy & Petrology		
	COM-A2	Sedimentation & Stratigraphy		
	COM-A3	Structural Geology		
	COM-A4	Field Techniques		
<b>Group: 2B – Foundation Geophysics – 11-GP – Compulsory (5 of 6 Required)</b>				
	FGP-A1	Digital Signal Processing		
	FGP-A2	Global Geophysics		

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**\*\*Candidates who have taken all the courses in 11-GP Compulsory (5 of 6 Required) can use the extra course**

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	FGP-A3	Seismology/Seismic Methods		
	FGP-A4	Exploration Geophysics		
	FGP-A5	Radiometrics/Gravity & Magnetism		
	FGP-A6	Electrical & Electromagnetic Methods		
<b>Group: 2C – Other Geophysics – 11-GP – Electives (9 Required – must be chosen from at least <u>FOUR</u> separate groups)</b>				
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 & Optics		
Field Techniques	GP-C12	Field Techniques		
Regional Geology	GP-C13	Geology of Canada		
	GP-C14	Geology of North America		

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<b>Group: 2C – Other Geology – 11-GP – Electives (9 Required) continued</b>				
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		

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<b>Group: 2C – Other Geology – 11-GP – Electives (9 Required) continued</b>				
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		

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	GP-C55	Optics		
	GP-C56	Partial Differential Equations		
	GP-C57	Signal Analysis		
	GP-C58	Vector & Tensor Analysis		

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