



Professional Engineers
and Geoscientists of BC
www.apeg.bc.ca

Geoscience Syllabus Checklist for Self-Evaluation

**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****

Name: _____ System ID#: _____

Number	Description	Applicant's Self-Evaluation Course Equivalent	For Office Use Only
Common to All Geoscientists - 06-GeoCom – Fundamental Science (3 of 4 Required)			
FS-A1	Calculus (2 semesters)		
FS-A2	Physics (2 semesters)		
FS-A3	Chemistry (2 semesters)		
FS-A4	Biology (2 semesters)		
Common to All Geoscientists – 06-GeoCom - Compulsory			
COM-A1	Introduction to Mineralogy/ Petrology*		
COM-A2	Introduction to Sedimentation & Stratigraphy*		
COM-A3	Introduction to Structure & Tectonics*		
Common to All Geoscientists – 06-GeoCom - Electives (3 of 8 Required)			
COM-B1	Intermediate Mathematics		
COM-B2	Intermediate Chemistry		
COM-B3	Intermediate Physics		
COM-B4	Introduction or Intermediate Biology*		
COM-B5	Introduction to Computing*		
COM-B6	Economics*		
COM-B7	Probability and Statistics		
COM-B8	Technical Writing		

***COURSE MUST BE ACCEPTABLE FOR CREDIT IN FACULTY OF SCIENCE OR APPLIED SCIENCE**

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Number	Description	Applicant's Self-Evaluation Course Equivalent	For Office Use Only
Specific to Environmental Geoscience - 06-EG - Compulsory (6 of 7 Required)			
EG-A1	Introduction to Geomorphology		
EG-A2	Introduction to Geochemistry		
EG-A3	Introduction to Hydrology		
EG-A4	Quaternary Geology		
EG-A5	Introduction to Soil Science		
EG-A6	Introduction to Applied Geophysics		
EG-A7	Hydrogeology		
Specific to Environmental Geoscience - 06-EG - Compulsory (1 of 1 Required)			
EG-B1	Field Work		
Specific to Environmental Geoscience - 06-EG -Electives (9 of 25 Required)			
EG-C1	Advanced Geomorphology I		
EG-C2	Advanced Geomorphology II		
EG-C3	Applied Geomorphology		
EG-C4	Analytical Geochemistry		
EG-C5	Analytical Hydrology		
EG-C6	Groundwater Contamination		
EG-C7	Fluid Mechanics		
EG-C9	Rock Mechanics		
EG-C10	Engineering Geology		
Specific to Environmental Geoscience - 06-EG -Electives (9 of 25 Required)			
EG-C11	Palaeontology Interpretation Methods		
EG-C12	Sedimentology		

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Number	Description	Applicant's Self-Evaluation Course Equivalent	For Office Use Only
EG-C13	Advanced Mineralogy		
EG-C14	Advanced Geophysics		
EG-C15	Geophysical Hazard Evaluation		
EG-C16	Introduction to Ecosystems		
EG-C17	Weather and Climate		
EG-C18	Geoscience Computer Applications		
EG-C19	Geographic/ Spatial Analysis		
EG-C20	Remote Sensing of the Earth's Surface		
EG-C21	Aerial Photo Interpretation		
EG-C22	Advanced Course in Geoscience		
EG-C23	Advanced Course in Geoscience		
EG-C24	Thesis in Geoscience – Topic must be geoscience, bioscience or chemistry		
EG-C25**	EG-A1, A2, A3, A4, A5, A6, A7 not used above		
Specific to Geology - 06-GL - Compulsory (6 of 7 Required)			
GL-A1	Introduction to Geomorphology		
GL-A2	Introduction to Geochemistry		
GL-A3	Introduction to Applied Geophysics		

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GL-A4	Introduction to Paleontology		
GL-A5/A6/A7	Any two of Igneous Petrology OR Metamorphic Petrology OR Sedimentary Petrology		
GL-A8	Regional Geology		
Specific to Geology - 06-GL - Compulsory (1 of 1 Required)			
GL-B1	Field Work		
Specific to Geology - 06-GL - Electives (9 of 31 Required)			
GL-C1	Advanced Mineralogy		
GL-C2	Igneous Geology		
GL-C3	Metamorphic Geology		
GL-C4	Sedimentary Geology		
GL-C5	Advanced Structure & Tectonics		
GL-C6	Advanced Geomorphology		
GL-C7	Advanced Paleontology		
GL-C8	Advanced Geochemistry		
GL-C9	Advanced Geophysics		
GL-C10	Mineral Deposits		
GL-C11	Ore Petrology		
GL-C12	Mining Evaluation		
GL-C13	Petroleum Geology		
GL-C14	Reservoir Evaluation		

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GL-C15	Coal Geology		
GL-C16	Industrial Materials		
GL-C17	Quaternary Geology		
GL-C18	Hydrogeology		
GL-C19	Groundwater Contamination		
GL-C20	Marine Geology		
GL-C21	Introduction to Soil Science		
GL-C22	Engineering Geology		
GL-C23	Environmental Geology		
GL-C24	Geoscience Computer Applications		
GL-C25	Geographic - Spatial Data Analysis		
Specific to Geology - 06-GL - Electives (9 of 31 Required)			
GL-C26	Remote Sensing of the Earth's Surface		
GL-C27	Aerial Photo Interpretation		
GL-C28	Advanced Course in Geoscience		
GL-C29	Advanced Course in Geoscience		
GL-C30	Thesis in Geoscience		
GL-C31	GL-A1, A2, A3, A4, A5, A6, A7, A8 not used above		

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Number	Description	Applicant's Self-Evaluation Course Equivalent	For Office Use Only
Specific to Geochemistry - 06-GC- Compulsory (6 of 7 required)			
GC-A1	Introduction to Geochemistry		
GC-A2	Exploration Geochemistry OR Applied Geochemistry		
GC-A3	Analytical Geochemistry		
GC-A4	Hydrogeology		
GC-A5	Introduction to Geomorphology		
GC-A6	Introduction to Applied Geophysics		
GC-A7	Introduction to Soil Science		
Specific to Geochemistry – 06-GC- Compulsory (1 of 1 Required)			
GC-B1	Field Work		
Specific to Geochemistry - 06-GC- Electives (9 of 21 Required)			
GC-C1	Igneous Petrology		
GC-C2	Metamorphic Petrology		
GC-C3	Sedimentary Petrology		
GC-C4	Mineral Deposits		
GC-C5	Ore Petrology		
GC-C6	Advanced Mineralogy		
GC-C7	Statistical Interpretation of Geochemical Data		
GC-C8	Quaternary Geology		
GC-C9	Physical Hydrology		

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Specific to Geochemistry - 06-GC - Electives (9 of 21 required)			
GC-C10	Groundwater Contamination		
GC-C11	Applied Geomorphology		
GC-C12	Pedology		
GC-C13	Geographic – Spatial Data Analysis		
GC-C14	Remote Sensing of the Earth's Surface		
GC-C15	Air Photo Interpretation		
GC-C16	Advanced Course in Geochemistry		
GC-C17	Advanced Course in Geochemistry		
GC-C18	Advanced Course in Geoscience		
GC-C19	Advanced Course in Geoscience		
GC-C20	Thesis in Geoscience		
GC-C21**	GC-A1, A2, A3, A4, A5, A6, A7, A8 not used in GC-COM		
Specific to Geophysics - 06-GP - Compulsory (6 of 7 Required)			
GP-A1	Exploration Geophysics		
GP-A2	Physics of the Earth		
GP-A3	Electricity & Magnetism		
GP-A4	Potential Field Theory		
GP-A5	Physical Properties of Geological Materials		

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GP-A6	Seismology		
GP-A7	Time Series Analysis		
Specific to Geophysics - 06-GP- Compulsory (1 of 1 required)			
GP-B1	Field Work		
Specific to Geophysics - 06-GP- Electives (10 of 22 required)			
GP-C1	Electronics		
GP-C2	Mechanics		
GP-C3	Heat and Thermodynamics		
GP-C4	Electromagnetic Theory		
GP-C5	Applied Mathematics		
GP-C6	Numerical Methods Computing		
GP-C7	Advanced Applied Exploration Geophysics		
GP-C8	Geomagnetism, Paleomagnetism and Rock Magnetism		
GP-C9	Geophysical Interpretation		
Specific to Geophysics - 06-GP - Electives (10 of 22 Required)			
GP-C10	Advanced Seismology		
GP-C11	Advanced Earth Physics		
GP-C12	Nuclear Physics		
GP-C13	Marine Geophysics		
GP-C14	Remote Sensing of the Earth's Surface		
GP-C15	Geophysical Hazard Evaluation		

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GP-C16	Groundwater Contamination		
GP-C17	Hydrogeology		
GP-C18	Advanced Course in Geophysics		
GP-C19	Advanced Course in Geoscience		
GP-C20	Advanced Course in Geoscience		
GP-C21	Thesis in Geoscience		
GP-C22**	GP-A2, A3, A6, A7 not used above		

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