



Professional Engineers  
and Geoscientists of BC

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# **Geoscience Syllabus Checklist for Self-Evaluation**

**The current geoscience syllabi will be replaced by new syllabi on January 1, 2007. Individuals applying for registration before this date will have their choice of the current or new syllabi. Individuals applying for registration after this date will have their applications evaluated with respect to the new syllabi.**

**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
<b>Common to All Geoscientists - 06-GeoCom – Fundamental Science (3 of 4 Required)</b>			
FS-A1	Calculus (2 semesters)		
FS-A2	Physics (2 semesters)		
FS-A3	Chemistry (2 semesters)		
FS-A4	Biology (2 semesters)		
<b>Common to All Geoscientists – 06-GeoCom - Compulsory</b>			
COM-A1	Introduction to Mineralogy/ Petrology*		
COM-A2	Introduction to Sedimentation & Stratigraphy*		
COM-A3	Introduction to Structure & Tectonics*		
<b>Common to All Geoscientists – 06-GeoCom - Electives (3 of 8 Required)</b>			
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*		

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COM-B7	Probability and Statistics		
COM-B8	Technical Writing		

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<b>Specific to Environmental Geoscience - 06-EG - Compulsory (6 of 7 Required)</b>			
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		
<b>Specific to Environmental Geoscience - 06-EG - Compulsory (1 of 1 Required)</b>			
EG-B1	Field Work		
<b>Specific to Environmental Geoscience - 06-EG -Electives (9 of 25 Required)</b>			
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		

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EG-C8	Soil Mechanics		
EG-C9	Rock Mechanics		
EG-C10	Engineering Geology		
<b>Specific to Environmental Geoscience - 06-EG -Electives (9 of 25 Required)</b>			
EG-C11	Palaeontology Interpretation Methods		
EG-C12	Sedimentology		
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		

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EG-C25**	EG-A1, A2, A3, A4, A5, A6, A7 not used above		
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Number	Description	Applicant's Self-Evaluation Course Equivalent	For Office Use Only
<b>Specific to Geology - 06-GL - Compulsory (6 of 7 Required)</b>			
GL-A1	Introduction to Geomorphology		
GL-A2	Introduction to Geochemistry		
GL-A3	Introduction to Applied Geophysics		
GL-A4	Introduction to Paleontology		
<b>GL-A5/A6/A7</b>	<b>Any two of</b> Igneous Metamorphic <b>OR</b> Sedimentary Petrology <b>OR</b> Igneous Petrology		
GL-A8	Regional Geology		
<b>Specific to Geology - 06-GL - Compulsory (1 of 1 Required)</b>			
GL-B1	Field Work		
<b>Specific to Geology - 06-GL - Electives (9 of 31 Required)</b>			
GL-C1	Advanced Mineralogy		
GL-C2	Igneous Geology		
GL-C3	Metamorphic Geology		
GL-C4	Sedimentary Geology		
GL-C5	Advanced Structure &		

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	Tectonics		
GL-C6	Advanced Geomorphology		
GL-C7	Advanced Paleontology		
<b>Specific to Geology - 06-GL - Electives (9 of 31 Required)</b>			
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		
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		

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	Applications		
GL-C25	Geographic - Spatial Data Analysis		
<b>Specific to Geology - 06-GL - Electives (9 of 31 Required)</b>			
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		

<b>Number</b>	<b>Description</b>	<b>Applicant's Self-Evaluation Course Equivalent</b>	<b>For Office Use Only</b>
<b>Specific to Geochemistry - 06-GC- Compulsory (6 of 7 required)</b>			
GC-A1	Introduction to Geochemistry		
GC-A2	Exploration Geochemistry <b>OR</b> Applied Geochemistry		
GC-A3	Analytical Geochemistry		
GC-A4	Hydrogeology		
GC-A5	Introduction to Geomorphology		
GC-A6	Introduction to Applied		

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	Geophysics		
GC-A7	Introduction to Soil Science		
<b>Specific to Geochemistry – 06-GC- Compulsory (1 of 1 Required)</b>			
GC-B1	Field Work		
<b>Specific to Geochemistry - 06-GC- Electives (9 of 21 Required)</b>			
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		
<b>Specific to Geochemistry - 06-GC - Electives (9 of 21 required)</b>			
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		

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	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		

Number	Description	Applicant's Self-Evaluation Course Equivalent	For Office Use Only
<b>Specific to Geophysics - 06-GP - Compulsory (6 of 7 Required)</b>			
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		
GP-A6	Seismology		
GP-A7	Time Series Analysis		
<b>Specific to Geophysics - 06-GP- Compulsory (1 of 1 required)</b>			
GP-B1	Field Work		

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<b>Specific to Geophysics - 06-GP- Electives (10 of 22 required)</b>			
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		
<b>Specific to Geophysics - 06-GP - Electives (10 of 22 Required)</b>			
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		
GP-C16	Groundwater Contamination		
GP-C17	Hydrogeology		

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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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