

Self - Assessment Checksheet - Geology – New Syllabus September 2, 2011

*****Note: If self-assessment differs from APEGM assessment, APEGM assessment shall prevail *****

Applicant Name: _____ **Reviewed by:** _____

APEGM requirements		
Section IA: COMPULSORY FOUNDATION SCIENCES. 3 EUs required – 1 per area		
Mathematics (1 EU) (See Note 1)		
Physics (1 EU)		
Chemistry (1 EU)		
Section 1B. ADDITIONAL FOUNDATION SCIENCE – 6 EUs required – no more than 2 in any subject, Geo subjects area containing the foundational topics listed in the descriptors may be substituted up to an absolute maximum of two. See Note 2.		
Biology	1.	
	2.	
Chemistry	1.	
	2.	
Computer Programming	1.	
	2.	
Mathematics	1.	
	2.	
Physics	1.	
	2.	
Statistics	1.	
	2.	
Section II. GEOLOGY		
2A. COMPULSORY FOUNDATION GEOSCIENCE – 4 EUs – 1 EU per area		
Field Techniques	1.	
Minerology/Petrology	2.	
Sedimentation/Stratigraphy	3.	
Structural Geology	4.	
2B. ADDITIONAL FOUNDATION GEOSCIENCE 5 EU required, minimum of 1 and at most 2 from each subgroup		
Geochemistry	1.	
Geophysics	2.	
Igneous Petrology	1.	
Metamorphic Petrology	2.	
Sedimentary Petrology		
Sedimentology	1.	
Glacial Geology or Geomorphology	2.	
Remote Sensing		
2C. ADDITIONAL GEOSCIENCE. 9 EU's required – 2nd level or higher – extra courses not used in 2A and 2B can be used in 2C.		
Category	Course Examples	Number
Thesis/Technical Writing		
Earth Systems	Climatology	
	Meteorology	
	Oceanography	
	Earth Systems	
Environmental	Hydrogeology	
	Hydrology	

	Environmental Geology	
	Limnogeology	
	Biogeochemistry	
Field Techniques		
Geochemistry	Exploration Geochemistry	
	Environmental Geochemistry	
	Isotope Geochemistry	
	Aqueous Geochemistry	
Geomorphology	Quaternary Geology	
	Pedology	
	Geomorphology	
Geophysics	Physics of the Earth	
	Exploration Geophysics	
	Applied Geophysics	
	Environmental Geophysics	
Geotechnical	Natural Hazards	
	Engineering Geology	
	Soil Mechanics	
	Rock Mechanics	
Mineralogy	Crystallography	
	X-ray Crystallography	
	Optical Mineralogy	
	Analytical Methods	
Paleontology	Micropaleontology	
	Palynology	
	Paleobiology	
Petrology	Igneous Petrology	
	Volcanology	
	Metamorphic Petrology	
	Sedimentary Petrology	
Quantitative Analysis	Geostatistics	
	Computer Applications in Geoscience	
	GIS	
Regional Geology	Geology of Canada	
	Geology of North America	
Remote Sensing	Airphoto Interpretation	
	Remote Sensing	
Resource Geology	Economic Geology	
	Mineral Deposits Geology	

	Ore Petrology	
	Coal Geology	
	Petroleum Geology	
	Industrial Minerals	
Sedimentology	Chemical Sedimentology	
	Clastic Sedimentology	
	Carbonate Sedimentology	
	Glacial Geology	
Stratigraphy	Historical Geology	
	Sequence Stratigraphy	
	Stratigraphic Paleontology	
	Geochronology	
Structure	Global Tectonics	
	Tectonics	
	Structural Geology	

Comments:

Note 1: 1 EU is approximately equal to one 3 Credit hour course. A 3 credit hour course will usually have three hours of lectures and three hours of labs per week for one semester (around 4 months).

Note 2: Normally only 1 Geoscience substitute would be allowed for Section 1B. However, up a maximum of two geoscience substitutes could be allowed if necessary, provided these geoscience courses had sufficient fundamentals content.

Note 3: Courses cannot be counted twice. For example, you cannot use the same Geochemistry course to fulfill both a chemistry requirement AND a Geochemistry requirement.