APEGS /Geoscientist Canada Geoscience Knowledge Requirement Course List in Environmental Geoscience, University of Regina
Revised: February 2023
(courses in brackets are no longer offered)

		Groups	*Environmental Geoscience Subjects*	*UofR courses*	*Applicant Courses*
3	1A	**Compulsory Foundation Science (Total 3 EUs)** (1 EU in each area required) *All courses in each category are allowable towards the total EU unless the word "or" is shown.*	Chemistry	CHEM 104, 105, 230, (102), (103)	
			Mathematics	MATH 110, 111 (105)	
			Physics	PHYS 109, 111, 112, 119	
6	1B	**Additional Foundation Science (Total 6 EUs)** (6 EUs required, no more than 2 Additional Science EUs in any one subject.)	Biology	BIOL 100, 101, **or** 140 **or** 150 (can't get credit for 140 or 150 if you already have credit for 100 or 101; higher level 3 Cu courses in biology that have any of these as a prerequisite and are acceptable as science credits in a science degree **may** also be acceptable; note: BIOL 223 is not acceptable)	
			Chemistry	CHEM 104, 105, 140, 230, (102), (103) (higher level 3Cu courses in Chemistry that have any of these as a prerequisite and are acceptable as science credits in a science degree **may** also be acceptable; note: Chem 100 is not acceptable)	
			Computer Programming	CS 110, (130), (109) (higher level 3Cu courses in Computer Science that have any of these as a prerequisite and are acceptable as science credits in a science degree **may** also be acceptable; note: Comp100 is not acceptable.)	
			Mathematics	MATH 110, 111, 122, (105) (higher level 3 Cu courses in Math that have any of these as a prerequisite and are acceptable as science credits in a science degree **may** also be acceptable; note: Math 101, 102, 103 and 104 are not acceptable)	
			Physics	PHYS 109, 111, 112, 119 (higher level 3 Cu courses in Physics that have any of these as a prerequisite and are acceptable as science credits in a science degree may also be acceptable; note: Phys 140 and 142 are not acceptable)	
			Statistics	STATS 100 or 160 or (151) (higher level 3 Cu courses in Statistics that have any of these as a prerequisite and are acceptable as science credits in a science degree **may** also be acceptable)	
4	2A	**Compulsory Foundation Geoscience (Total 4EUs)** (1 EU in each area required)	Field Techniques	GES 411 (GEOG 411), GEOL 396, 496	
			Mineralogy and Petrology.	GEOL 210, 211, 313, 315, 413	
			Sedimentation and Stratigraphy	GEOL 314, 340	
			Structural Geology	GEOL 353 (or 250), 453 (or 350)	

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5	2B	**Additional Foundation Geoscience (Minimum Total 5 EUs)** (5 EUs required. Geology and Environmental Geoscience - a minimum of 1 and at most 2 from each sub-group; Geophysics - no more than 1 from each sub-group) Only one in any given subject.	Geochemistry	GEOL 307 (or 471)	
			Geophysics	GEOL 460	
			Hydrogeology or Hydrology	GES 327 (GEOG 327), (GEOL 371), GEOL 474, GEOL 476	
			Engineering Geology	ENEV 383	
			Geomorphology or Soil Science	GES 323 (GEOG 323) or GES 329 (GEOG 329) or GEOL 329	
			Glacial Geology	GES 429 (GEOG 429) or GEOL 429	
			Remote Sensing or GIS	GES 309 (GEOG 309), ENEV 480	
9	2C	**Other Geoscience/Science (Minimum Total 9 EUs)** (9 EUs must be from the EUs list or must be at a second level or higher acceptable for science credit toward a degree in science, applied science or engineering and relevant to geoscience). Extra subjects not used in 2A and 2B can be used in 2C. No one subject can be used to cover more than one requirement.	The following groupings of subject areas could be used to satisfy the knowledge requirements for the other geoscience/science (2C). Within each subject area are listed possible topics that could be used to satisfy the requirements. The list is not meant to be exhaustive, but is provided as guide to topics that could satisfy the geoscience knowledge requirements.		
			Communication		
			Thesis	GES 499 AA-AC series (GEOG 499AA + AB or AC); GEOL 400AA + 400AB or 400 AC	
			Technical Writing		
			Earth Systems	GEOL 201, 240, 430 (GEOG 221), GES 431 (GEOG 431), BIOL 356	
			Climatology	GES 421 (GEOG 421)	
			Meteorology	GES 321, 421 (GEOG 321, 421)	
			Oceanography		
			Paleoenvironmental Studies	GES 325 (GEOG 325), BIOL 476	
			Paleoclimatology		
			Paleoecology		
			Paleobiology	BIOL 476	
			Environmental Assessment	GES 400 (formerly ENST 400)	
			Field Techniques	GEOL 396, 496, GES 411 (GEOG 411)	
			Geochemistry	GEOL 307, 471 or 473	
			Environmental Geochemistry		
			Isotope Geochemistry		
			Aqueous Geochemistry		
			Biogeochemistry	BIOL 456	
			Atmospheric Geochemistry		
			Low temperature Geochemistry		
			Geomorphology/ Surficial		
			Geomorphology	GES 323 (GEOG 323), GES 423 (GEOG 423)	
			Natural Hazards	GES 333 (GEOG 333)	
			Quaternary Geology	GES 429 (GEOG 429) or GEOL 429	
			Pedology	GES 329 (GEOG 329) or GEOL 329	
			Glaciology	GES 429 (GEOG 429) or GEOL 429	
			Geophysics		
			Environmental Geophysics		
			Exploration Geophysics	GEOL 460	
			Applied Geophysics	GEOL 460	

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2C	Continued	**Geotechnical**		
		Engineering Geology		
		Soil Mechanics	GES 329 (GEOG 329) or GEOL 329	
		Rock Mechanics		
		Resource Geotechnics		
		Hydrology/Hydrogeology		
		Contaminant Transport		
		Hydrogeology	GEOL 474, 476	
		Hydrology	GES 327 (GEOG 327)	
		Fluid Mechanics		
		Mineralogy/Petrology	GEOL 210, 211	
		Crystallography		
		X-Ray Crystallography		
		Analytical Methods		
		Paleontology	GEOL 241 or (220)	
		Micropaleontology		
		Paleobiology	GES 325 (GEOG 325), BIOL 476	
		Palynology		
		Quantitative Analysis		
		Geostatistics	(GEOG 205, 305)	
		Computer Applications in Geoscience	GEOL 490	
		Geographic Information Systems	GES 303, 409, 203 (GEOG 303, 409, 203)	
		Regional Geology		
		Geology of Canada		
		Geology of North America	GEOL 451, 452	
		Remote Sensing		
		Remote Sensing	GES 309 (GEOG 309), GEOL 490, ENEV 480	
		Airphoto Interpretation	GES 207 (GEOG 207)	
		Resource Geology	GEOL 270	
		Economic Geology	GEOL 470	
		Mineral Deposits Geology	GEOL 470	
		Ore Petrology		
		Coal Geology		
		Petroleum Geology	GEOL 472, 473	
		Industrial Minerals		
		Sedimentology		
		Chemical Sedimentology		
		Clastic Sedimentology	GEOL 414, 314	
		Carbonate Sedimentology	GEOL 416	
		Glacial Geology	GEOL 429 or GES 429 (GEOG 429)	
		Limnogeology		
		Stratigraphy	GEOL 340	
		Historical Geology	GEOL 240	
		Sequence Stratigraphy		
		Stratigraphic Paleontology		
		Geochronology		
		Structure		
		Global Tectonics	GEOL 452	
		Tectonics		
		Structural Geology	GEOL 353 or (250), 453 or (350)	
		Other acceptable	GES 497 AA-ZZ series (GEOG 497AA-ZZ) and/or GEOL 490-495AA-ZZ (reading courses if topic acceptable)	
24	**Minimum EU Requirement TOTAL**	27		