

APEGS / CCPG Knowledge Requirement Course List in Geology, University of Saskatchewan
Revised: October 2021

Groups		Subject	UofS Courses	Applicant Courses	
3	1A	Compulsory Foundation Science (Total 3 EUs) (1 EU in each area required)	Chemistry Mathematics Physics	CHEM 112.3 or 114.3 MATH 110.3 or 123.3 1/2 of PHYS 111.6 or 1/2 of PHYS 121.6 or PHYS 115.3 (GE 124.3 before 2014 only) or PHYS 155.3	
6	1B	Additional Foundation Science (Total 6 EUs) (6 EUs required, no more than 2 Additional Science EUs in any one subject.)	Biology Chemistry Computer Programming Mathematics Physics Statistics	BIOL 110.6 or 120.3, 121.3, 122.3, any BIOL 3cu course (200 level or higher that has any of these as a prerequisite) CHEM 115.3, any CHEM 3cu course (200 level or higher that has any of these as a prerequisite), BMSC 200.3 CMPT 111.3 or 113.3 or 116.3 or 140.3, 115.3 or 141.3, 117.3 or 145.3, any CMPT 3cu course (200 level or higher that has any of these as a prerequisite) MATH 112.3 or 116.3 or MATH 124.3, MATH 164.3, any MATH 3cu course (200 level or higher that has any of these as a prerequisite) 1/2 of PHYS 111.6 or 1/2 of PHYS 121.6 or PHYS 117.3 or PHYS 125.3, any PHYS 3cu course (200 level or higher that has any of these as a prerequisite) STAT 241.3, 242.3 or 245.3 or 246.3 or PLSC 214.3 (PLSC 314.3) or GE 210.3, any 3cu STAT course (300 level or higher that has any of these as a prerequisite)	
4	2A	Compulsory Foundation Geoscience (Total 4EUs) (1 EU in each area required)	Field Techniques Mineralogy and Petrology Sedimentation and Stratigraphy Structural Geology	GEOL 308.3 or GEOL 408.3 GEOL 224.3 or 226.3 GEOL 245.3 GEOL 258.3	
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, no more than one from any given subject)	Geochemistry Geophysics Igneous Petrology Metamorphic Petrology Sedimentary Petrology Sedimentology Glacial Geology or Geomorphology Remote Sensing	GEOL 229.3 GEOL 282.3 or 384.3 or 334.3 or 335.3 GEOL 226.3 or GEOL 324.3 GEOL 226.3 or GEOL 325.3 GEOL 442.3 GEOL 343.3 or 446.3 or 450.3 GEOG 235.3 or GEOG 335.3 GEOG 222.3 or GEOG 323.3	
9	2C	Other Geoscience/Science (Minimum Total 9 EUs)	The following groupings of subject areas could be used to satisfy the knowledge requirements for the other geoscience/science (2C). Within	Note: GEOL 398.3 and GEOL 498.3 may be acceptable. Determine where they should slot, as these are special topics classes that change from year to year.	

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<p>(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).</p>	<p>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.</p> <p>Communication Thesis Technical Writing</p> <p>Earth Systems Climatology Meteorology Oceanography Earth Systems</p> <p>Environmental Hydrogeology Hydrology Environmental Geology Limnogeology Biogeochemistry</p> <p>Field Techniques</p> <p>Geochemistry Exploration Geochemistry Environmental Geochemistry Isotope Geochemistry Aqueous Geochemistry</p> <p>Geomorphology Quaternary Geology Pedology Geomorphology</p> <p>Geophysics Physics of the Earth Exploration Geophysics Applied Geophysics Environmental Geophysics</p> <p>Geotechnical Natural Hazards Engineering Geology Soil Mechanics Rock Mechanics</p> <p>Mineralogy Crystallography X-ray Crystallography</p>	<p>GEOL 490.3, GEOL 492.6</p> <p>GEOL 330.3</p> <p>GEOL 206.3</p> <p>GEOG 328.3, GEOE 375.3 (GEOE 475.3) GEOG 225.3, GEOG 325.3, GEOG 427.3</p> <p>GEOL 450.3 GEOL 350.3</p> <p>GEOL 308.3 or 408.3, 485.6 or 487.3, 405.3</p> <p>GEOL 229.3</p> <p>EVSC 420.3, TOX 301.3, TOX 310.3, (SLSC 313.3) GEOL 429.3 GEOL 413.3</p> <p>GEOG 335.5 EVSC 220.3, 332.3, SLSC 313.3, 232.3 GEOG 235.3, GEOG 435.3</p> <p>GEOL 282.3 GEOL 334.3, 335.3, 481.3, 482.3, 483.3 GEOL 384.3, GEOL 411.3</p> <p>GEOE 218.3, GEOE 377.3 SLSC 322.3 GEOE 315.3</p>	
<p>2C Continued</p>	<p>Optical Mineralogy Analytical Methods</p> <p>Paleontology Micropaleontology Palynology Paleobiology</p> <p>Petrology Igneous Petrology Volcanology Metamorphic Petrology</p>	<p>GEOL 226.3 GEOL 451.3</p> <p>GEOL 247.3, 433.3, 447.3 GEOL 435.3 GEOL 437.3, 439.3 PBIO 230</p> <p>GEOL 324.3</p> <p>GEOL 325.3</p>	

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		Sedimentary Petrology	GEOL 442	
		Quantitative Analysis		
		Geostatistics		
		Computer Applications in Geoscience	GEOL 306.3	
		Geographic Information Systems	GEOG 420.3 (GEOG 320.3), 322.3	
		Regional Geology		
		Geology of Canada	GEOL 445.3, GEOG 351.3	
		Geology of N. America	GEOL 444.3	
		Remote Sensing		
		Airphoto Interpretation	GEOG 222.3, GEOG 321.3	
		Remote Sensing	GEOG 323.3, GEOG 423.3	
		Resource Geology		
		Economic Geology		
		Mineral Deposits Geology	GEOL 465.3	
		Ore Petrology		
		Coal Geology		
		Petroleum Geology	GEOL 463.3	
		Industrial Minerals		
		Sedimentology		
		Chemical Sedimentology	GEOL 446.3	
		Clastic Sedimentology	GEOL 343.3	
		Carbonate Sedimentology		
		Glacial Geology	GEOG 335.3	
		Stratigraphy		
		Historical Geology		
		Sequence Stratigraphy	GEOL 448.3	
		Stratigraphic Paleontology		
		Geochronology		
		Structure		
		Global Tectonics		
		Tectonics		
		Structural Geology	GEOL 358.3	
		Other acceptable		
		Global considerations in Geology	GEOL 406.3	
27	Minimum EU Requirement	TOTAL		27