

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

Groups		Subject	UofS Courses	Applicant Courses
3 1A	Compulsory Foundation Science (Total 3 EUs) (1 EU in each area required)	Chemistry	CHEM 112.3 or (114.3)	
		Mathematics	MATH 110.3 or (123.3) or 133.4 or 176.3	
		Physics	(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) or 156.3	
6 1B	Additional Foundation Science (Total 6 EUs) (6 EUs required, no more than 2 Additional Science EUs in any one subject.)	Biology	(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), BMSC 200.3	
		Chemistry	CHEM 115.3, any CHEM 3cu course (200 level or higher that has any of these as a prerequisite), BMSC 200.3	
		Computer Programming	(CMPT 111.3 or 113.3 or 116.3) or CMPT 140.3, (115.3) or 141.3 or 142.3, (117.3) or 145.3 or 146.3, any CMPT 3cu course (200 level or higher that has any of these as a prerequisite)	
		Mathematics	(MATH 112.3) or MATH 116.3 or (MATH 124.3) or MATH 134.3, MATH 164.3, any MATH 3cu course (200 level or higher that has any of these as a prerequisite)	
		Physics	(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)	
		Statistics	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	GEOL 308.3 or GEOL 408.3	
		Mineralogy and Petrology	GEOL 224.3 or 226.3	
		Sedimentation and Stratigraphy	GEOL 245.3	
		Structural Geology	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	GEOL 229.3 GEOL 282.3 or 384.3 or 334.3 or 335.3	
		Igneous Petrology Metamorphic Petrology Sedimentary Petrology	GEOL 226.3 or GEOL 324.3 GEOL 226.3 or GEOL 325.3 GEOL 442.3	
		Sedimentology Glacial Geology or Geomorphology Remote Sensing or GIS	GEOL 343.3 or 446.3 or (450.3) GEOG 235.3 or GEOG 335.3 GEOG 222.3 or GEOG 323.3	

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9 2C	<p>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).</p>	<p>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.</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>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.</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>	

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2C Continued	<p>Optical Mineralogy Analytical Methods</p> <p>Paleontology Micropaleontology Palynology Paleobiology</p> <p>Petrology Igneous Petrology Volcanology Metamorphic Petrology Sedimentary Petrology</p> <p>Quantitative Analysis Geostatistics Computer Applications in Geoscience Geographic Information Systems</p> <p>Regional Geology Geology of Canada Geology of N. America</p> <p>Remote Sensing Airphoto Interpretation Remote Sensing</p> <p>Resource Geology Economic Geology Mineral Deposits Geology Ore Petrology Coal Geology Petroleum Geology Industrial Minerals</p> <p>Sedimentology Chemical Sedimentology Clastic Sedimentology Carbonate Sedimentology Glacial Geology</p> <p>Stratigraphy Historical Geology Sequence Stratigraphy Stratigraphic Paleontology Geochronology</p> <p>Structure Global Tectonics Tectonics Structural Geology</p> <p>Other acceptable Global considerations in Geology</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 GEOL 442</p> <p>GEOL 306.3 GEOG 420.3 (GEOG 320.3), 322.3</p> <p>(GEOL 445.3), GEOG 351.3 (GEOL 444.3)</p> <p>GEOG 222.3, (GEOG 321.3) GEOG 323.3, GEOG 423.3</p> <p>GEOL 465.3, 464.3</p> <p>GEOL 463.3</p> <p>(GEOL 446.3) GEOL 343.3 GEOG 335.3</p> <p>GEOL 448.3</p> <p>(GEOL 358.3)</p> <p>GEOL 406.3</p>	
27	Minimum EU Requirement TOTAL	27	