

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

Groups		Environmental Geoscience Subjects	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 (MATH 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 BIOL 120.3, 121.3, (BIOL122.3), 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 (124.3) or 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	GEOG 290.3 or GEOG 390.3	
		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 - a minimum of 1 and at most 2 from each sub-group and no more than 1 in each subject)	Geochemistry Geophysics	GEOL 229.3 GEOL 282.3, 384.3, 334.3, 335.3	
		Hydrogeology or Hydrology Engineering Geology	GEOG 225, GEOG 325, GEOG 328 GEOE 218.3	
		Geomorphology or Soil Science Glacial Geology Remote Sensing or GIS	GEOG 235,.3, GEOG 335.3, SLSC 232 (332), SLSC 313, EVSC 220 GEOG 335.3 GEOG 323.3 or GEO 222.3	

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

<i>Groups</i>	<i>Environmental Geoscience Subjects</i>	<i>UofS Courses</i>	<i>Applicant Courses</i>	
9 2C	<p>Other Geoscience/Science (Minimum Total 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.</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 Paleoenvironmental Studies Paleoclimatology Paleocology Paleobiology</p> <p>Environmental Assessment</p> <p>Field Techniques</p> <p>Geochemistry Environmental Geochemistry Isotope Geochemistry Aqueous Geochemistry Biogeochemistry Atmospheric Geochemistry Low temperature Geochemistry</p> <p>Geomorphology/ Surficial Geomorphology Natural Hazards Quaternary Geology Pedology Glaciology</p> <p>Geophysics Environmental Geophysics Exploration Geophysics Applied Geophysics</p> <p>Geotechnical Engineering Geology Soil Mechanics Rock Mechanics Resource Geotechnics</p> <p>Hydrology/Hydrogeology Contaminant Transport Hydrogeology Hydrology Fluid Mechanics</p>	<p>Note: Geol 398.3 and Geol 498.3 may be acceptable. You should check, as these are special topics classes that change from year to year.</p> <p>GEOL 490.3 or GEOL 492.6</p> <p>GEOL 206 GEOG 233, GEOL 330.3</p> <p>GEOG 386.3, GEOG 486.3</p> <p>GEOG 290.3, GEOG 390.3</p> <p>GEOL 229.3 if not used in 2B EVSC 420.3, SLSC 313.3, TOX 301.3, TOX 310.3 GEOL 429.3 GEOL 413.3</p> <p>GEOG 235.3, GEOG 335.3, (GEOG 435.3)</p> <p>EVSC 210.3, 220.3, 232.3, SLSC 313.3, 232.3</p> <p>GEOL 334.3, 335.3, (481.3), (482.3), 483.3 GEOL 384.3 if not used in 2B, (GEOL 411.3)</p> <p>GEOE 218.3 SLSC 322.3 GEOE 315.3</p> <p>GEOG 328.3, (GEOE 475.3) GEOG 225.3, GEOG 325.3, GEOG 427.3</p>	

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

<i>Groups</i>	<i>Environmental Geoscience Subjects</i>	<i>UofS Courses</i>	<i>Applicant Courses</i>
2C Continued	<p>Mineralogy/Petrology Crystallography X-Ray Crystallography Analytical Methods</p> <p>Paleontology Micropaleontology Paleobiology Palyology</p> <p>Quantitative Analysis Geostatistics Computer Applications in Geoscience Geographic Information Systems</p> <p>Regional Geology Geology of Canada Geology of North America</p> <p>Remote Sensing Remote Sensing Airphoto Interpretation</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 Limnogeology</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 451.3</p> <p>GEOL 247.3, (433.3), 447.3 (GEOL 435.3)</p> <p>(GEOL 437.3), (GEOL 439.3)</p> <p>GEOG 302.3 GEOG 222.3 GEOG 322.3</p> <p>(GEOL 445.3), GEOG 351.3, SLSC 480 (GEOL 444.3)</p> <p>GEOG 323.3 (GEOG 321.3)</p> <p>GEOL 465.3, 464.3</p> <p>GEOL 463.3</p> <p>(GEOL 446.3 if not used in 2B) GEOL 343.3 if not used in 2B</p> <p>GEOG 335.3 if not used in 2B (GEOL 450.3)</p> <p>GEOL 448.3</p> <p>(GEOL 358.3)</p> <p>GEOL 406.3</p>	
27	Minimum EU Requirement TOTAL	27	