

APEGS / CCPG Knowledge Requirement Course List in Geology, University of Regina  
Revised: April 2021 (courses in brackets are no longer offered)

Groups		Geology	UofR courses	Applicant Courses
3	1A <b>Compulsory Foundation Science (Total 3 EUs)</b> (1 EU in each area required) <i>All courses in each category are allowable towards the total EU unless the word "or" is shown.</i>	Chemistry	CHEM 104, 105, 230, (102), (103)	
		Mathematics	MATH 110, 111 (105)	
		Physics	PHYS 109, 111, 112, 119	
6	1B <b>Additional Foundation Science (Total 6 EUs)</b> (6 EUs required, no more than 2 Additional Science EUs in any one subject.)	Biology	BIOL 100 and 101 <b>or</b> 140 <b>or</b> 150 (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 <b>may</b> also be 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 <b>may</b> 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 <b>may</b> 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 <b>may</b> 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 <b>may</b> also be acceptable)	
4	2A <b>Compulsory Foundation Geoscience (Total 4EUs)</b>  (1 EU in each area required)	Field Techniques	GEOL 396, 496	
		Mineralogy and Petrology	GEOL 210, 211, 313, 315, 413	
		Sedimentation and Stratigraphy	GEOL314, 340	
		Structural Geology	GEOL 353 or (250), 453 or (350)	
5	2B <b>Additional Foundation Geoscience (Minimum Total 5 EUs)</b> (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 allowed from any given subject.	Geochemistry Geophysics	GEOL 307 or (471) GEOL 460	
		Igneous Petrology Metamorphic Petrology Sedimentary Petrology	GEOL 313 GEOL 315 GEOL 314	

APEGS / CCPG Knowledge Requirement Course List in Geology, University of Regina  
Revised: April 2021 (courses in brackets are no longer offered)

Groups	<i>Geology</i>	<i>UofR courses</i>	<i>Applicant Courses</i>
	Sedimentology Glacial Geology or Geomorphology Remote Sensing	GEOL 314, 414, 416 GEOL 429 or GEOG 429, GEOG 323 GEOG 309	
9 2C	<p><b>Other Geoscience/Science (Minimum Total 9 EUs)</b> (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. All courses in each category are allowable towards the total EU unless the word "or" is</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>	
	<b>Communication</b> Thesis Technical Writing	GEOL 400AA + 400AB or 400 AC	
	<b>Earth Systems</b> Climatology Meteorology Oceanography Earth Systems	GEOG 421 GEOG 321, 421  GEOL 201, 240, (GEOG 221)	
	<b>Environmental</b> Hydrogeology Hydrology Environmental Geology Limnogeology Biogeochemistry	GEOL (371), 474, 476 GEOG 327, 474	
	<b>Field Techniques</b>	GEOL 396, 496, GEOG 411	
	<b>Geochemistry</b> Exploration Geochemistry Environmental Geochemistry Isotope Geochemistry Aqueous Geochemistry	GEOL 307 or 471, 473	
	<b>Geomorphology</b> Quaternary Geology Pedology Geomorphology	GEOL 429 or GEOG 429 GEOG 329 or GEOL 329 GEOG 323, 423, 429	
	<b>Geophysics</b> Physics of the Earth Exploration Geophysics Applied Geophysics Environmental Geophysics	GEOL 460	
	<b>Geotechnical</b> Natural Hazards Engineering Geology Soil Mechanics Rock Mechanics		
	<b>Mineralogy</b> Crystallography	GEOL 210, 211	

APEGS / CCPG Knowledge Requirement Course List in Geology, University of Regina  
Revised: April 2021 (courses in brackets are no longer offered)

Groups	Geology	UofR courses	Applicant Courses
	X-ray Crystallography		
2C	Continued		
	Optical Mineralogy Analytical Methods		
	<b>Paleontology</b> Micropaleontology Palynology Paleobiology	GEOL 241 or (220)  BIOL 476	
	<b>Petrology</b> Igneous Petrology Volcanology Metamorphic Petrology Sedimentary Petrology	GEOL 313, 413  GEOL 315 GEOL 314	
	<b>Quantitative Analysis</b> Geostatistics Computer Applications in Geoscience Geographic Information Systems	GEOL 490 GEOG 203, 303, 409	
	<b>Regional Geology</b> Geology of Canada Geology of N. America	GEOL 451, 452	
	<b>Remote Sensing</b> Airphoto Interpretation Remote Sensing	GEOG 207 GEOG 309	
	<b>Resource Geology</b> Economic Geology Mineral Deposits Geology Ore Petrology Coal Geology Petroleum Geology Industrial Minerals	GEOL 270 GEOL 470 GEOL 470  GEOL 472, 473	
	<b>Sedimentology</b> Chemical Sedimentology Clastic Sedimentology Carbonate Sedimentology Glacial Geology	GEOL 414, 314 GEOL 416 GEOL 429 or GEOG 429	
	<b>Stratigraphy</b> Historical Geology  Sequence Stratigraphy Stratigraphic Paleontology Geochronology	GEOL 340 GEOL 240	
	<b>Structure</b> Global Tectonics Tectonics Structural Geology	GEOL 452  GEOL 353, 453	
	<b>Other acceptable</b> Global considerations in Geology	GEOL 490-495 (if topic acceptable)	
27	Minimum EU Requirement TOTAL	27	