

Bachelor of Science – Geology 2017/18

Name: _____

Student #: _____ Admission Year: _____

YEAR ONE – FALL		
GEOL 1101 ^{FW}	Physical Geology	
CHEM 1201 ^{FW}	General Chemistry – Structure and Bonding	
MATH 1200 ^{FW}	Calculus for Scientists I	
PHYS 1201 ^{FW}	Classical Physics I	
GNEDE Foundation ^{FW} Cluster 1		
YEAR ONE - WINTER		
GEOL 1103 ^{FW}	Historical Geology	
MATH 1203 ^{FW}	Linear Algebra for Scientists and Engineers	
COMP 2001 ^{FW}	Computer- Based Problem Solving for the Sciences	
GNEDE Foundation ^{FW} Cluster 4		
GNEDE Foundation ^{FW} Cluster 2		
YEAR TWO - FALL		
GEOL 2300 ^F	Introduction to Geological Field Methods I (runs in August – 6 days)	1.5 CR
GEOL 2103 ^F	Minerals and Rocks	
GEOL 2105 ^F	Structural Geology	
CHEM 1202 ^{FW}	General Chemistry – Introduction to Quantitative Chemistry	
PHYS 1202 ^{FW}	Classical Physics II	
GNEDE Foundation ^{FW} Cluster 3		
YEAR TWO - WINTER		
GEOL 2107 ^W	Paleontology	
GEOL 2109 ^W	Stratigraphy and Sedimentation	
GEOL 2111 ^W	Crystallography and Optical Mineralogy	
GNEDE Tier 2 Cluster2 ^{FW}		
GNEDE Tier 2 Cluster 3 ^{FW}		
YEAR THREE - FALL		
GEOL 3300 ^F	Geological Field Methods II (runs in August – 5 days)	1.5 CR
GEOL 3103 ^F	Igneous Petrology	
GEOL 3107 ^F	Geomorphology	
GEOL 3109 ^F	Sedimentary Petrology	
GNEDE Tier 2 Cluster 4 ^{FW}		
Elective		
YEAR THREE - WINTER		
GEOL 3111 ^W	Metamorphic Petrology	
GEOL 3113 ^W	Geochemistry	
GEOL 3115 ^W	Exploration Geophysics	
GNEDE Tier 3 ^{FW}		
GNEDE Tier 3 ^{FW}		
YEAR FOUR- FALL		
GEOL 4300 ^F	Advanced Geological Field Methods (2 week course runs in August)	
GEOL 4105 ^F	Hydrogeology	
GEOL 4107 ^F or GEOL 4607	Geological History of Western Canada OR Geology of the Canadian Cordillera	
MATH 2235 ^F	Statistics with Applications in Geology	
Choose one of: GEOL 4101 ^F / 4103 ^F /4515/4601	Advanced Topics in Sedimentary Geology OR Advanced Topics in Igneous/Metamorphic Geology OR Sedimentary Basin Analysis OR Plate Tectonic Regimes	
YEAR FOUR - WINTER		
GEOL 4109 ^W	Petroleum Geology	
GEOL 4111 ^W	Ore Deposits and Economic Geology	
GEOL 4113 ^W /4199/5201	Geoscience Research OR Independent Research Projects I	
GNEDE Tier 3 ^{FW}		

PLEASE READ:

General Education: General Education approved courses, otherwise known as “GNED requirements” are designed to give you a well-rounded knowledge base and are organized into 4 thematic clusters. Each Cluster has 3 levels: tier 1 (foundation), tier 2 and tier 3.

Cluster 1: Numeracy & Scientific Literacy
Cluster 2: Values, beliefs & Identity
Cluster 3: Community & Society
Cluster 4: Communication

Students must take a foundation level course from each of the four clusters, three tier 2 GNEDs (one from each of cluster 2, 3, and 4), and three tier 3 GNEDs from at least two clusters, for a total of 10 GNED courses.

Visit mtroyal.ca/gened/courses_for for more information and a list of GNED courses.

Junior courses: are courses at the 1000 level. Students are allowed a maximum of 16 junior courses.

Prerequisites & Course descriptions: can be found in the Academic Calendar or by visiting: mtroyal.ca/ProgramsCourses/CourseListings

Advising Plan: This is a suggested sequence for taking the required courses for your major. This plan factors in prerequisite requirements and will allow you to complete your degree in 4 years, provided you complete 5 courses per semester. This is just one example of how you can complete your degree requirements; you may find that a different sequence or smaller course load works better for you.

To be considered full time a student must be enrolled in a minimum of three 3 credit courses.

^F Indicates that the course runs in Fall semester only.

^W Indicates that the course runs in Winter semester only.

^{FW} Indicates that the course is offered in both Fall and Winter semester.

MRU’s Geology program was built to satisfy APEGA requirements. **APEGA: The Association of Professional Engineers and Geoscientists of Alberta** regulates the practices of Engineers and Geoscientists in Alberta. Please contact the Geology Coordinator in B248 for further information.