Bachelor of Science – Geology 2016/17

MOUNT ROYAL UNIVERSITY 1910 | Faculty of Science and Technology

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	
GNED Foundation[FW] Cluster 1		
YEAR ONE - WINTER		
GEOL 1103[FW]	Historical Geology	
MATH 1203[FW]	Linear Algebra for Scientists and Engineers	
COMP 1001[FW]	Introduction to Computer- Based Problem Solving for the Sciences	
GNED Foundation [FW] Cluster 4		
GNED Foundation[FW] Cluster 2 or 3		
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	
GNED Foundation[FW] Cluster 2 or 3		
YEAR TWO - WINTER		
GEOL 2107[W]	Paleontology	
GEOL 2109[W]	Stratigraphy and Sedimentation	
GEOL 2111[W]	Crystallography and Optical Mineralogy	
GNED Tier 2 Cluster1[FW]		
GNED Tier 2 Cluster 3[FW]		
YEAR THREE - FALL		
GEOL 3300[F]	Geological Field Methods II (runs in August – 4 days)	1.5 CR
GEOL 3103[F]	Igneous Petrology	
GEOL 3107[F]	Geomorphology	
GEOL 3109[F]	Sedimentary Petrology	
GNED Tier 2 Cluster2[FW]		
GNED Tier 2 Cluster 4[FW]		
YEAR THREE - WINTER		
GEOL 3111[W]	Metamorphic Petrology	
GEOL 3113[W]	Geochemistry	
GEOL 3115[W]	Exploration Geophysics	
GNED Tier 3[FW]		
GNED 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] or GEOL 5201	Geoscience Research OR Independent Research Projects I	
GNED Tier 3[FW]		

General Education: Requirements in your program designed to give you a well-rounded knowledge base and are organized into 4 thematic clusters. Each Cluster has 3 tiers; 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

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

Students must take a foundation level and Tier 2 course from each of the 4 clusters and (3) Tier 3 GNEDs from at least 2 Clusters.

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 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.

APEGA: **The Association of Professional Engineers and Geoscientists of Alberta** regulates the practices of Engineers and Geoscientists in Alberta.

In order to qualify for registration with APEGA it is recommended that students take one of the following courses:

BIOL 1205 – The Organization and Diversity of Life to meet the GNED Tier 2 Cluster 1 requirement. OR

MATH 1202 – Calculus for Scientists II to meet one of the GNED Tier 3 requirements

***Please note that you do not need BIOL 1205 or MATH 1202 to graduate. It is a recommendation for students who plan to work as professional Geologists.**

This document is only intended to be a guide for students and should be used together with the Mount Royal University Academic Calendar which states academic policies and degree requirements. Be sure to consult with your Academic Advisor to confirm graduation requirements or if you have any questions.