

GEOLOGICAL SCIENCES – MAJOR (SCIENCE) – BACHELOR OF SCIENCE (HONOURS)

GEOL-M-BSH

Subject: Administered by the Department of Geological Sciences and Geological Engineering.

Plan: Consists of 72.00 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.00 units, will lead to a Bachelor of Science (Honours) Degree.

Code	Title	Units
1. Core		
A. Complete the following:		
GEOL 104	The Dynamic Earth	3.00
GEOL 107	History of Life	3.00
B. Complete the following:		
GEOL 200	Oceanography	3.00
GEOL 221	Geological Field Methods	3.00
GEOL 232	Mineralogy	3.00
GEOL 235	Igneous and Metamorphic Petrology	3.00
GEOL 238	Sedimentology and Stratigraphy	3.00
GEOL 249	Geophysical Characterization of the Earth	3.00
C. Complete 3.00 units from the following:		3.00
BIOL 243	Introduction to Statistics	
STAM 200	Introduction to Statistics	
STAT 263	Introduction to Statistics	
D. Complete 10.50 units from the following:		10.50
GEOL 300	Geological Field School	
GEOL 301	Field Studies in Geology I or GEOL 31 Problems in Sedimentary Geology	
GEOL 321	Structural Geology	
GEOL 365	Geochemical Characterization of Earth Processes	
E. Complete the following:		
GEOL 400	Advanced Geological Sciences Field School	8.00
GEOL 401	Field Studies in Geology II or GEOL 402 Problems in North American Geology	1.50
GEOL 488	Geology of North America	3.00
2. Option		
A. Complete 9.00 units from the following:		9.00
GEOL at any level		
B. Complete 6.00 units from the following:		6.00
CHEM 112	General Chemistry	
MATH 120	Differential and Integral Calculus	

MATH 121	Differential and Integral Calculus
MATH 123	Differential and Integral Calculus I & MATH 124 and Differential and Integral Calculus II
PHYS 104	Fundamental Physics
PHYS 106	General Physics
PHYS 115	Introduction to Physics I & PHYS 116 and Introduction to Physics II
PHYS 118	Basic Physics

3. Supporting

A. Complete 12.00 units from the following:	12.00
CHEM 112	General Chemistry
MATH 120	Differential and Integral Calculus
MATH 121	Differential and Integral Calculus
MATH 123	Differential and Integral Calculus I & MATH 124 and Differential and Integral Calculus II
PHYS 104	Fundamental Physics
PHYS 106	General Physics
PHYS 115	Introduction to Physics I & PHYS 116 and Introduction to Physics II
PHYS 118	Basic Physics

Electives

Elective Courses	48.00
Total Units	120.00

4. Notes

A. 100- through 300-level geology courses within the core are prerequisites for most 300- and 400-level courses, and should normally be completed before the end of the third year of study

B. A maximum of 6.00 units from courses offered by other Faculties and Schools may be counted toward the program and/or Plan requirements. This includes courses in BMED, COMM, GLPH, HSCI, LAW, NURS, and courses in the Faculty of Engineering and Applied Science.