

**DEGREE OF BACHELOR OF SCIENCE IN GEOPHYSICS
DESIGNATED DEGREE OF BACHELOR OF SCIENCE IN GEOPHYSICS**

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Bachelor of Science.

The table below lists the compulsory courses for this degree together with the overall number of credit points required in each programme year.

PROGRAMME YEAR 1 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
PD 1001	Professional Skills Part 1	0			
GL 1005	The Nature of the Environment Through Geological Time	15	GL 1505	Earth's Materials	15
PX 1015	The Physical Universe A	15	MA 1508	Calculus II	15
MA 1005	Calculus I	15	PX 1513	The Physical Universe B	15
Either Option A or Option B			Plus 15 credit points from courses of choice.		
Option A					
MA 1006	Algebra	15			
Option B					
CS 1022	Computer Programming and Principles	15			

PROGRAMME YEAR 2 – 120 Credit Points (SEE NOTE (iv))					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
GL 2015	Petrology and Mineralogy	15	GL 2510	An Introduction to Field Geology	15
PX 2013	Light Science	15	GL 2511	Geophysics	15
PX 2015	Dynamical Phenomena	15	MA 2507	Advanced Calculus	15
One of the courses listed below:			Either Option A or Option B		
EITHER GL 2014	Stratigraphical Principles	15	Option A		
			MA 2506	Linear Algebra	15
OR One 15 credit level 2 MA or Engineering Mathematics course			Option B		
			CS 2521	Algorithmic Problem Solving	15

JUNIOR HONOURS PROGRAMME YEAR 3 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
PX 3016	Introduction to the Solid State	15	GP 3501	Interpretation of Seismic Reflection Data	15
PX 3014	Energy and Matter	15	PX 3513	The Physics of Waves	15
One of the two courses below:			One of the two courses below:		
EITHER GL 3027	Structural Geology & Tectonics	15	EITHER GL 3521	Sedimentology	15
OR GL 3018	Principles of Petroleum Geology	15	OR GL 3520	Igneous & Metamorphic Petrology	15
Either Option A or Option B			Plus 15 credit points from courses of choice.		
Option A					
MX 3022	Optimisation and Numerical Analysis	15			
Option B					
CS 3017	Adaptive Interactive Systems	15			

SENIOR HONOURS PROGRAMME YEAR 4 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	Course Title	Credit Points	Course Code	Course Title	Credit Points
GP 40XX	Geophysics Project (See Note (ii))				30
GP 40XX	Advanced Exploration Geophysics	15	GL 4525	Interpreting the Subsurface	15
GP 40XX	Computational Geophysics	15	PX 4514	Modelling Theory	15
One of the two courses listed below					
PX 4007	Case Studies In Physics	15			
PX 4012	Statistical Physics & Stochastic Systems	15			
Plus 15 credit points from courses of choice.					

Notes	
i.	Vacation course.
ii.	Designated Programme: See Supplementary Regulation 4.1 (b).
iii.	Candidates seeking entry to the Junior Honours programme must have accumulated, by award or recognition, or been exempted from, at least 240 credit points at levels 1 and 2, including those compulsory courses required to enter programme year 3.