

B.Sc. & B.Sc. (Hons) with Major in Applied Mathematics (without specialization, but with interest in Financial Mathematics)

Sample Study Plan for Students Admitted in AY2017/18 or after and AY2018/19

Occasionally certain modules listed below may not be offered in a particular year.

LEVEL	RECOMMENDED MODULES
1000	 MA1100 Fundamental Concepts of Mathematics MA1101R Linear Algebra I MA1102R Calculus CS1010/CS1010E/CS1010S/CS1010FC/CS1010X Programming Methodology
2000	 MA2101/MA2101S Linear Algebra II MA2104 Multivariable Calculus MA2108/MA2108S Mathematical Analysis I MA2213 Numerical Analysis I MA2216/ST2131 Probability ST2132 Mathematical Statistics or MA3238/ST3236 Stochastic Process I
3000	 MA3110/MA3110S Mathematical Analysis II MA3111/MA3111S Complex Analysis I MA3269 Mathematical Finance I Two* of the following modules: MA3220 Ordinary Differential Equations ^{2, 3} MA3227 Numerical Analysis II MA3236 Nonlinear Programming MA3252 Linear and Network Optimization ^{1, 4} Optional unrestrictive elective module: QF3101 Investment Instruments: Theory and Computation
	*One may need to take additional Level 3000 modules as unrestrictive elective modules to serve as prerequisites for certain Level 4000 modules.

LEVEL	RECOMMENDED MODULES
4000	 MA4199 Honours Project in Mathematics MA4230 Matrix Computation MA4269 Mathematical Finance II MA4254 Discrete Optimization¹ MA4255 Numerical Methods in Differential Equations² One of the following modules: MA4221 Partial Differential Equations³ MA4264 Game Theory⁴ MA4268 Mathematics for Visual Data Processing
	Notes: ¹ MA4254 requires MA3252 as prerequisite ² MA4255 requires MA3220 as prerequisite ³ MA4221 requires MA3220 as prerequisite ⁴ MA4264 requires MA3236 or MA3252 as prerequisite

Updated 30 June 2017 Updated 1 July 2019