

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 AY2019/2020 or after

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
3000	 MA3220 Ordinary Differential Equations MA3252 Linear and Network Optimization MA3269 Mathematical Finance I Two* of the following modules: MA3210 Mathematical Analysis II MA3227 Numerical Analysis II MA3236 Nonlinear Programming MA3238 Stochastic Process I ST3131 Regression Analysis ¹ 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 MA4254 Discrete Optimization MA4255 Numerical Methods in Differential Equations MA4269 Mathematical Finance II One of the following modules: MA4221 Partial Differential Equations MA4264 Game Theory MA4260 Stochastic Operations Research ST4245 Statistical Methods for Finance ¹ Notes: ST4245 requires ST3131 as prerequisite

Updated 02 July 2019