

# B.Sc. & B.Sc. (Hons) with Major in Mathematics

## Sample Study Plan for Students Admitted in AY2007/08 to AY2013/14

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

LEVEL	RECOMMENDED MODULES
<b>1000</b>	<ul style="list-style-type: none"> <li>• MA1100 Fundamental Concepts of Mathematics</li> <li>• MA1101R Linear Algebra I</li> <li>• MA1102R Calculus</li> <li>• MA1104 Multivariable Calculus</li> </ul>
<b>2000</b>	<ul style="list-style-type: none"> <li>• MA2101/MA2101S Linear Algebra II</li> <li>• MA2108/MA2108S Mathematical Analysis I</li> <li>• MA2202/MA2202S Algebra I</li> <li>• MA2216/ST2131 Probability</li> <li>• One of the following modules:               <ul style="list-style-type: none"> <li>– MA2214 Combinatorial Analysis (<i>new title from AY2013/14: Combinatorics and Graphs I</i>)</li> <li>– MA2219 Introduction to Geometry</li> </ul> </li> </ul>
<b>3000</b>	<ul style="list-style-type: none"> <li>• MA3110/MA3110S Mathematical Analysis II</li> <li>• MA3111/MA3111S Complex Analysis I</li> <li>• MA3201 Algebra II</li> <li>• MA3209 Mathematical Analysis III</li> <li>• MA3220 Ordinary Differential Equations</li> <li>• One of the following modules:               <ul style="list-style-type: none"> <li>– MA3205 Set Theory</li> <li>– MA3215 Three-dimensional Differential Geometry</li> <li>– MA3265 Introduction to Number Theory</li> <li>– MA3266 Introduction to Fourier Analysis</li> </ul> </li> </ul>
<b>4000</b>	<ul style="list-style-type: none"> <li>• MA4199 Honours Project in Mathematics</li> <li>• MA4203 Galois Theory</li> <li>• MA4211 Functional Analysis</li> <li>• MA4262 Measure and Integration</li> <li>• MA4266 Topology</li> <li>• Two of the following modules:               <ul style="list-style-type: none"> <li>– MA4207 Mathematical Logic</li> <li>– MA4221 Partial Differential Equations</li> <li>– MA4247 Complex Analysis II</li> </ul> </li> </ul>