# 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.

<table>
<thead>
<tr>
<th>LEVEL</th>
<th>RECOMMENDED MODULES</th>
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| 1000  | • MA1100 Fundamental Concepts of Mathematics  
       | • MA1101R Linear Algebra I  
       | • MA1102R Calculus  
       | • MA1104 Multivariable Calculus |
| 2000  | • MA2101/MA2101S Linear Algebra II  
       | • MA2108/MA2108S Mathematical Analysis I  
       | • MA2202/MA2202S Algebra I  
       | • MA2216/ST2131 Probability  
       | • One of the following modules:  
         | – MA2214 Combinatorial Analysis *(new title from AY2013/14: Combinatorics and Graphs I)*  
         | – MA2219 Introduction to Geometry |
| 3000  | • MA3110/MA3110S Mathematical Analysis II  
       | • MA3111/MA3111S Complex Analysis I  
       | • MA3201 Algebra II  
       | • MA3209 Mathematical Analysis III  
       | • MA3220 Ordinary Differential Equations  
       | • One of the following modules:  
         | – MA3205 Set Theory  
         | – MA3215 Three-dimensional Differential Geometry  
         | – MA3265 Introduction to Number Theory  
         | – MA3266 Introduction to Fourier Analysis |
| 4000  | • MA4199 Honours Project in Mathematics  
       | • MA4203 Galois Theory  
       | • MA4211 Functional Analysis  
       | • MA4262 Measure and Integration  
       | • MA4266 Topology  
       | • Two of the following modules:  
         | – MA4207 Mathematical Logic  
         | – MA4221 Partial Differential Equations  
         | – MA4247 Complex Analysis II |

*Updated 22 Jul 2014*