NUS National University of Singapore | Department of Mathematics Faculty of Science

Second Major in Mathematics

Graduation Requirements for students admitted from AY2010/11 to AY2011/12

To be awarded a 2nd major in Mathematics, candidates must satisfy the following:

Module Level	2nd Major Requirements	Cumulative Major MCs
1000 (16 MCs)	Pass • MA1100 Fundamental Concepts of Mathematics or CS1231 Discrete Structures • MA1101R Linear Algebra I or MA1506 Mathematics II or MA1508 Linear Algebra with Applications • MA1102R Calculus or MA1505 Mathematics I or MA1507 Advanced Calculus or MA1521 Calculus for Computing • MA1104 Multivariable Calculus or MA2501 Differential Equations and Systems	16
2000 (16-19 MCs)	Pass • MA2101/MA2101S Linear Algebra II • MA2108/MA2108S Mathematical Analysis I • MA2216/ST2131 Probability • One additional module from List II, III, IV	32-35
3000 (16-19 MCs)	Pass • MA3110/MA3110S Mathematical Analysis II • MA3111/MA3111S Complex Analysis I • Two additional modules from List III, IV	48-54

List II
• All MA modules at level 2000, except those coded MA23XX • PC2130 Quantum Mechanics I • PC2132 Classical Mechanics • ST2132 Mathematical Statistics

List III
• All MA modules at level 3000, except MA3311 and MA3312 • CS3230 Design & Analysis of Algorithms • CS3231 / CS4232 Theory of Computation • CS3234 Logic and Formal Systems • EC3101 Microeconomic Analysis II • EC3303 Econometrics I • PC3130 Quantum Mechanics II • PC3236 Computational Methods in Physics • PC3238 Fluid Dynamics • ST3131 Regression Analysis • ST3236 Stochastic Processes I
List IV
• All MA modules at level 4000 or higher • CS4236 Cryptography Theory and Practice • CS5230 Computational Complexity • CS5237 Computational Geometry and Applications • EC4101 Microeconomics Analysis III • EC5104 Mathematical Economics • PC4248 Relativity • PC4274 Mathematical Methods in Physics III • ST4238 Stochastic Processes II

Updated 3 Jul 2015