

Second Major in Mathematics

Graduation Requirements for students admitted in AY2009/10 or earlier

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 <ul style="list-style-type: none"> MA1100 Fundamental Concepts of Mathematics or CS1231 Discrete Structures MA1101R Linear Algebra I or MA1506 Mathematics II MA1102R Calculus or MA1505 Mathematics I MA1104 Multivariable Calculus 	16
2000 (16-19 MCs)	Pass <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 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
- CS4235 Computational Geometry / CS5237 Computational Geometry and Applications
- CS4236 Cryptography Theory and Practice
- CS5230 Computational Complexity
- CS6209 Topics in Cryptography
- EC4101 Microeconomics Analysis III
- EC4311 Mathematical Economics II
- PC4248 Relativity
- PC4274 Mathematical Methods in Physics III
- ST4238 Stochastic Processes II

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