

MSc in Mathematics by Coursework (Track 2, 80-unit)

Revised Graduation Requirements for MSc (Mathematics) (Track 2) students admitted in AY2022/23 intake

Follow either Option 1 or Option 2:

OPTION 1

1. In Year 1, to read and pass:

Ten MA3xxx (except MA3259 & MA3269), MA4xxx (except MA4230, MA4261, MA4269 & MA4270) or MA5xxx courses, with MA3xxx course capped at two throughout the entire candidature.

2. In Year 2, to read and pass:

• Five basic elective courses (20 Units) selected from the following:

- MA4203 Galois Theory
- MA4229 Fourier Analysis and Approximation Theory
- MA4260 Stochastic Operation Research
- MA4268 Mathematics for Visual Data Processing
- MA4273 Algebraic Geometry of Curves and Surfaces
- MA5203 Graduate Algebra I
- MA5205 Graduate Analysis I
- MA5210 Differentiable Manifolds
- MA5213 Advanced Partial Differential Equations
- MA5232 Modeling and Numerical Simulations
- MA5233 Computational Mathematics
- MA5243 Advanced Mathematical Programming
- MA5245 Advanced Financial Mathematics
- MA5248 Stochastic Analysis in Mathematical Finance
- MA5259 Introductory Probability
- MA5266 Optimization
- MA5270 Game Theory and applications
- MA5271 Introduction to Computational Mathematics

At most two MA4xxx courses can be selected in year 2 study.

- Five general elective courses (20 Units) selected from any MA52xx, MA53xx, and (MA5401 or MA5402), QF5xxx (except for all the MQF core courses and capped at three such courses), DSA5xxx (except for all the MDSML core courses and capped at three such courses) or any level 5000 courses offered by other departments/faculties (up to 8 Units), subject to department's approval.
- As the MA5401 (4 Units) and MA5402 (8 Units) internship courses are graded on a CS/CU basis, students who are already enrolled in the 8-unit dissertation course MA5295 will no longer be permitted to take the MA5402 (8-unit) internship course.

3. Obtain a minimum Grade Point Average (GPA) of 3.00 or an average grade of at least B-.

Option 2

1. In Year 1, to read and pass:

- Eight MA3xxx (except MA3259 & MA3269), MA4xxx (except MA4230, MA4261, MA4269 & MA4270) or MA5xxx courses, with MA3xxx course capped at two throughout the entire candidature.
- Complete MA5295 Project Course and written report (equivalent to 8 Units), with a passing grading over a maximum of two semester.

2. In Year 2, to read and pass:

Five basic elective courses (20 Units) selected from the following:

- MA4203 Galois Theory
- MA4229 Fourier Analysis and Approximation Theory
- MA4260 Stochastic Operation Research
- MA4268 Mathematics for Visual Data Processing
- MA4273 Algebraic Geometry of Curves and Surfaces
- MA5203 Graduate Algebra I
- MA5205 Graduate Analysis I
- MA5210 Differentiable Manifolds
- MA5213 Advanced Partial Differential Equations
- MA5232 Modeling and Numerical Simulations
- MA5233 Computational Mathematics
- MA5243 Advanced Mathematical Programming
- MA5245 Advanced Financial Mathematics
- MA5248 Stochastic Analysis in Mathematical Finance
- MA5259 Introductory Probability
- MA5266 Optimization
- MA5270 Game Theory and applications

- MA5271 Introduction to Computational Mathematics

At most two MA4xxx courses can be selected in year 2 study.

Five general elective courses (20 Units) selected from any MA52xx, MA53xx, and (MA5401 or MA5402), QF5xxx (except for all the MQF core courses and capped at three such courses), DSA5xxx (except for all the MDSML core courses and capped at three such courses) or any level 5000 courses offered by other departments/faculties (up to 8 units), subject to department's approval.

As the MA5401 (4 units) and MA5402 (8 Units) internship courses are graded on a CS/CU basis, students who are already enrolled in the 8-unit dissertation course MA5295 will no longer be permitted to take the MA5402 (8-unit) internship course.

3. Obtain a minimum Grade Point Average (GPA) of 3.00 or an average grade of at least B-.

For either option:

- Students who wish to read courses offered by other departments/faculties to fulfil their graduation requirement are to refer to the 'Course Substitution' section of our Department's webpage for the procedure.
- Students in the 3+2 programme who have completed 10 courses in their first year of study at NUS and achieved a minimum GPA of 4.00 out of 5.00 are eligible to apply for a transfer of programme to the following self-funded coursework programme. However, the application is subject to approval from the department and the respective programme.
 - [MSc in Quantitative Finance](#)
 - [MSc in Data Science and Machine Learning](#)
- The following course cannot be used to fulfil the general elective course requirement for graduation:
 - QF4102 Financial Modelling and Computation

Continuation Requirement

A student will be issued a warning for any semester in which his/her GPA falls below 3.00.

If in the following semester, the student's GPA again falls below 3.00 but is above 2.50, he/she will be placed on probation.

The candidature of a student may be terminated if he/she obtains the following:

1. A GPA of less than 2.50 for two consecutive semesters;
2. A GPA of less than 3.00 for three consecutive semesters.

GPA for continuation is computed based on all courses read (be it pass or fail).

Updated on 15 July 2024