

MSc in Mathematics by Coursework (Track 2, 80UNIT)

Graduation Requirements for students admitted from AY2025 onwards

1. Read and pass **twenty** level 5000 or 4000 or 3000 courses, and obtain a minimum Grade Point Average (GPA) of 3.00 (that is, an average grade of at least B-). Among the twenty courses, at least **eight** must be level 5000 or above; at least **five** are from the list of Basic Elective Courses (see 1.1 below); and at most **two** are from level 3000.

We recommend students to take level 3000 or 4000 courses in their first year, though taking level 5000 level courses is also allowed. Please refer to [Current Coursework Students - NUS Mathematics](#) for the tips to take courses.

1.1 List of Basic Elective Courses (Students must read and pass **five** courses selected from the following list):

- MA5232 Modeling and Numerical Simulations
- MA5248 Stochastic Analysis in Mathematical Finance
- MA5259 Introductory Probability
- MA5266 Optimization
- MA5270 Game Theory and applications
- MA5271 Introduction to Computational Mathematics

1.2 In addition to the Basic Electives Courses, the following General Elective courses can also be taken to fulfil graduation requirement:

- Other MA level 3000, 4000 or 5000 courses (*Internship courses MA5401 and MA5402 require prior permission. Please refer to [Overview of Graduate Internship Courses - NUS Mathematics](#) for internship course guidelines. Project course MA4198* also requires prior permission and must be taken during year 1.*)
- Students are allowed to take a maximum of 3 courses coded either DSA5xxx or QF5xxx, [i.e. (no. of DSA5xxx courses + no. of QF5xxx courses) ≤ 3]. *These courses are not offered by the MSc (Mathematics) by coursework programme. Enrolments are subject to slot availability and final approval from the course hosts programmes. Specifically, core courses for the MSc (Quantitative Finance) or MSc (Data Science & Machine Learning) will not be available.*
- Any level 5000 courses offered by other departments subject to department's approval. (For details, please refer to Course Substitution webpage [Current Coursework Students - NUS Mathematics](#).) Please note that additional course fees will apply for self-funded programme courses. Prior to proceeding with your course requests, kindly contact the host programmes of the respective courses if you require further information.

2. 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:

- ✚ A GPA of less than 2.50 for two consecutive semesters; or
- ✚ 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).

Students who have fulfilled their graduation requirements will be required to proceed with graduation and will not be allowed to stay on for an additional semester or more.

Updated on 16 September 2024
