



**NUS**  
National University  
of Singapore

Faculty of  
Science

# MASTER OF SCIENCE IN MATHEMATICS

## OVERVIEW

The Department of Mathematics has been ranked 1st of Asian universities and among the top worldwide according to the QS World University Rankings by Subject. The Department offers diverse and vibrant graduate programmes in mathematical sciences. Faculty members' research cover all major areas of contemporary mathematics. The Master of Science in Mathematics is designed to provide advanced training in mathematical sciences. Students of the programme are expected to acquire advanced knowledge in modern mathematics, including pure and applied mathematics, and in other interdisciplinary areas. This programme lays a solid foundation in mathematics for students to meet the growing demands by industry and to pursue advanced studies such as PhD in Mathematics.



### FACULTY

The programme is offered by the Department of Mathematics. In addition to the basic elective courses, general elective courses from Quantitative Finance as well as Data Science and Machine Learning are also offered in the Department of Mathematics. This provides students the opportunity to broaden and deepen their understanding of the background and implications of the use of quantitative methods.



### CAREER OPPORTUNITIES

Our graduates have a wide range of career paths. They may work in universities, institutes and government agencies as Research Scientists or work in various industries such as finance, healthcare, manufacturing, science and technology as Quantitative Analyst, Operations Research Analysts, Investment Analyst, Actuarial Analyst, etc. Some graduates may choose to pursue advanced studies.



### PROGRAMME STRUCTURE AND CANDIDATURE

Designed for students with a robust foundation in mathematical sciences, this programme offers two tracks: Track 1 and Track 2.

Track 1 is a 40-unit programme consisting of five basic elective courses and five general electives course. Full-time Track 1 students have a minimum candidature period of 1 year and a maximum of 2 years, while part-time students have a minimum candidature period of 2 years and a maximum of 4 years.

Track 2 is an exclusive 80-unit programme tailored for students who do not have an Honours Degree (or equivalent) in mathematics but are enrolled in either a MSc in Mathematics (Joint Education) programme or a '3+2' programme with our partner universities.

For more information about the programme, please refer to: <https://www.math.nus.edu.sg/pg/msc-cwk/>



### ADMISSION REQUIREMENTS

- **For the Track 1 (40-unit programme):**  
A Bachelor's (Honours) degree in mathematics or an equivalent qualification, or a Bachelor's (Honours) degree in a discipline with strong training in mathematics at university level
- **For the Track 2 (80-unit programme):**  
A three-year Bachelor's degree in mathematics or an equivalent qualification, or a three-year Bachelor's degree in a discipline with strong training in mathematics at university level
- A candidate whose medium of undergraduate instruction is not English is required to submit TOEFL (with the minimum score of 85 for the internet-based test) or IELTS (with the minimum score of 6.0)



### TO APPLY

- Tuition fees per programme:
  - For Track 1: Singapore Dollar 52,320 (inclusive of 9% GST)
  - For Track 2: Singapore Dollar 91,560 (inclusive of 9% GST)
- Online via <https://gradapp.nus.edu.sg/apply>
- Early admission application period (August 2026 Intake): 16 May 2025 to 15 July 2025
- Regular admission application period (August 2026 Intake): 1 October 2025 to 15 March 2026



### TESTIMONIALS

“The MSc in Mathematics by Coursework at NUS has been a transformative experience. I was drawn to its rigorous yet vibrant academic culture—one that embodies the spirit of ‘study hard, play hard.’ The diverse environment has allowed me to learn from brilliant peers worldwide, fostering intellectual growth beyond the classroom. Courses like Finite Element Methods and Dynamical Systems have pushed me to think critically and apply mathematical concepts to complex real-world problems. This journey has strengthened my foundation and prepared me for future research and career opportunities.”

- Yu Kun, Current Student

“The MSc Math Coursework programme offered an excellent balance between theoretical rigour and practical application. Its diverse curriculum challenged me with foundational courses like Real Analysis and Graph Theory while equipping me with modelling skills through applied classes. I value the comprehensive optimisation coursework, which developed my expertise and ignited lasting faculty-student synergy. The acquired optimisation techniques now directly benefit my data analysis work, demonstrating the programme's career-oriented design. For those seeking both mathematical depth and real-world relevance, this transformative programme delivers exceptionally.”

- Jiaming Xu, 2024 Alum



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#### DEPARTMENT OF MATHEMATICS

Address: Block S17 Level 4, 10 Lower Kent Ridge Road,  
Singapore 119076

Tel: +65 6516 2754

Email: [ASKMATH-cwk@nus.edu.sg](mailto:ASKMATH-cwk@nus.edu.sg)

Website: <https://www.math.nus.edu.sg/>



Scan the **QR code**  
for detailed information  
about the Programme