Major in
Quantitative Finance

NUS
National University of Singapore
Department of Mathematics
Faculty of Science
Quantitative Finance Programme

This programme is conducted jointly by the Faculty of Science, NUS Business School and School of Computing. The curriculum is multidisciplinary with coverage in the following areas:

» Mathematical Theory and Tools
» Statistical Tools
» Computing Theory and Techniques
» Financial Theory and Principles
» Core Financial Product Knowledge

Why Major in Quantitative Finance

☑ The explosive growth of computer technology, globalization, and theoretical advances in finance and mathematics has resulted in quantitative methods playing an increasingly important role in the financial services industry.

☑ Singapore is a major international financial centre and is well placed to meet the increased demand for financial services in East Asia.

☑ There is an increasing demand from the financial industry for graduates with a high level of quantitative and analytical skills.

☑ Our Quantitative Finance programme is uniquely positioned to meet this demand.

☑ Besides imparting knowledge of financial products and quantitative techniques, courses taught in the Quantitative Finance programme enable students to have an integrated overview of how mathematical methods and techniques are applied in financial applications.

Career Prospects

Career opportunities are available in financial institutions such as banks, securities firms, insurance companies, IT firms which support the financial institutions and multinationals.

Graduates have been employed in a variety of jobs in the finance industries, for examples, financial product development and pricing, risk management, derivatives pricing, hedging and trading, quantitative modelling, IT support for derivatives trading and risk management, investment decision support, quantitative portfolio management, asset management and wealth management.
Course Snapshot

Year 1 & 2 (Fundamentals)


Year 3 & 4 (Mathematical Finance, Finance and Quantitative Methods)


Honours Project • Undergraduate Professional Internship Programme (UPIP) • Undergraduate Research Opportunities Programme (UROPS)

Application Procedure

Students who are keen to read this major in their first year in NUS may apply for admission after accepting a place in the Faculty of Science:

» Submit application before: 16 July 2015
» Interview dates: 22-23 July 2015

Submit the following documents via email to AskMathUG@nus.edu.sg:

» Completed application form;
» One-page essay on reasons for pursuing this major; and
» Copy of result slip of A-level, or other equivalent qualifications.

Successful applicants will be notified of the outcome via email.

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