A Double Major is a single degree programme, in which a student satisfies the requirements of two Majors. It gives an attractive opportunity for students to broaden their knowledge and capacities by pursuing a second Major which is less intense, alongside their primary Major, all within 4 years.

Why Double Major in Math/Applied Math with Economics

- The disciplines of Mathematics and Economics closely relate to and are natural complements of each other.
- Mathematical methods are indispensable to the development of economic theory and analysis.
- Economics has provided a variety of important problems for mathematics such as those in optimization and operations research.

To understand the economic implications fuelled by massive amount of information, for example from the internet and mobile devices, strong mathematical skills are needed to derive reliable economic insights for decision making, productivity and risk management.

Career Prospects

Career opportunities are aplenty, for those who have the right skill sets. In this Double Major in Math/Applied Math with Economics, students learn both the theory and applications of modern economics within the advanced mathematical frameworks. The training that students receive ranges from probability theory through numerical analysis to economic analysis, computational as well as optimization techniques, expertise which are much sought after in the complex world of business and industry.

Graduates have been employed in a variety of areas, including banking and finance, and government. Many have gone onto graduate study in areas such as statistics, economics, decision science and quantitative finance.
Course Highlight*

Year 1 & 2 (Fundamentals)

Calculus, Multivariable Calculus, Linear Algebra, Programming Methodology, Mathematical Analysis, Probability, Numerical Analysis

Introduction to Economic Analysis, Microeconomics, Econometrics, Macroeconomics, Quantitative Methods for Economic Analysis

Year 3 & 4 (Core & Electives in Applied Math & Econ)


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

*This is only an illustration for Applied Mathematics and Economics. For more details, refer to department’s website.

Application Procedure

Prospective students who are keen to read this double major combination beginning their first year may apply for direction admission when completing the application form for undergraduate admission to NUS. Please refer to the following website for admission requirements:

http://www.science.nus.edu.sg/undergraduate-studies/ugprog/fass-second-majors