Mātai Ōhanga Tatau
Undergraduate Quantitative Economics

The BSc in Quantitative Economics Specialisation produces graduates who can think critically, have excellent mathematical and quantitative skills, and who can understand, explain, and apply the core principles and quantitative methods of economics to resource allocation problems, the functioning of economic institutions, and the decisions of policy makers and other economic agents within society.

What is Quantitative Economics?
Economics is the social science that studies the behaviour and interactions of economic agents. In particular, economics examines the production, distribution, and consumption of goods and services. The Quantitative Economics specialisation equips graduates with both research-informed economic knowledge, and the analytical skills required to implement this knowledge in practical real-world situations.

Resource allocation decisions across a variety of domains in both government and business typically incorporate an economic analysis. Graduates will be equipped with the economic analytic tools to advise and make these decisions. The programme aims to produce graduates that are competent in economic theory and practice, and have the strong analytical and mathematical skills that are required for advanced economic theory and its application.

Who is this degree for?
The Quantitative Economics specialisation is intended for students who completed secondary school mathematics, and are interested in Economics with a focus on analytical and quantitative aspects. Students who are considering careers as Technical Consultants and Modellers, Economic Modellers working in Central Banks, Treasury, Banking Sector, or academic research, are great candidates.

Although their exact area of expertise will depend on the complementary field of study, economics graduates with a strong analytical and mathematical background are in demand both internationally and nationally. The challenges of the twenty-first century also necessitate a greater focus on the relationship between the economy, human society and the environment, and will require transdisciplinary graduates that can synthesize information in order to coordinate decisions across a variety of domains.

Prerequisites
Students entering the programme must satisfy the entry requirements for the BSc in Mathematics.

In their first year, students are expected to enrol in MATHS 120, 130, 162 and ECON 151, 152, as these courses are prerequisites for the stage 2 courses of the programme.

The programme is essentially a double major in Economics and Mathematics, so there are compulsory courses that cover the core stage 1 and 2 courses in both majors. The third year economics courses focus specifically on Econometrics and other quantitative aspects.

Compulsory courses include:
- Microeconomics
- Macroeconomics
- Econometrics
- Mathematical Modelling
- Algebra
- Calculus

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Conjoint a BSc to study 2 degrees at once

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