DEPARTMENT OF APPLIED MATHEMATICS

MSc in Applied Mathematics for Science and Technology

科技應用數學理學碩士學位

PROGRAMME CODE

63022

SPECIALISMS

Actuarial and Investment Science
精算及投資科學

Decision Science
決策科學

INTAKE QUOTA
60

Programme Aims and Objectives

- To provide mathematical modelling and computational techniques that are useful to engineers, scientists, technologists, and managers.
- To focus on applications and the use of software packages to solve practical problems.

Actuarial and Investment Science (AIS)
精算及投資科學

Duration and Credit Requirement

Mode of Study	:	Full-time
Normal Duration	:	2 years*
Credits Required for Graduation	:	30 credits
Type of Funding	:	Self-financed

* Most students of this specialism actually complete the study within one year and a half.

Aims

To provide students with a solid foundation in actuarial and investment science.

Programme Structure

Students studying for MSc (Actuarial and Investment Science) award need to complete

- 7 compulsory subjects and
- A dissertation or 3 additional core subjects

Decision Science (DS)
決策科學

Duration and Credit Requirement

Mode of Study	:	Part-time
Normal Duration	:	3 years
Credits Required for Graduation	:	30 credits
Type of Funding	:	Self-financed

Aims

To provide students with an up-to-date theoretical and practical knowledge in statistics, operations research and scientific computing relevant to decision making and practical problem solving in engineering, finance and management.

Programme Structure

Students studying for MSc (Decision Science) award need to complete

- 4 core subjects (including a compulsory subject "Mathematical Modelling for Science and Technology") and
- 3 other subjects (core or elective) and
- A dissertation or 3 additional core subjects

Entrance Requirements

- A Bachelor's degree with Honours in engineering, computer science, basic science, business, economics, or the equivalent.
- Industrial or business experience will be an asset.

English Requirements

For applicants who are not native English speakers and their Bachelor's degree or equivalent qualification is awarded by institutions where the medium of instruction is not English, they are required to obtain one of the following to ensure that our admittees have reached a compatible English language standard :

- A TOEFL score of 550 or above for the paper-based test; OR a TOEFL score of 80 or above for the Internet-based test; OR
- An overall Band Score of at least 6 in the International English Language Testing System (IELTS).

Individual cases will be considered on their own merit by the department. Applicants may be required to attend interviews or tests to further demonstrate their language proficiency.

Other Information

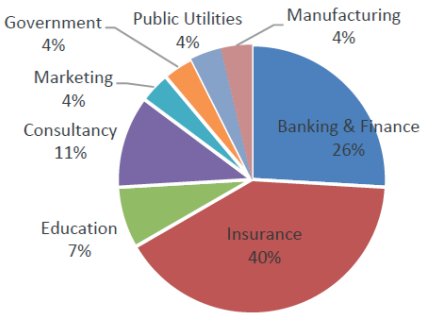
This programme has five subjects that are included in the Continuing Education Fund (CEF) list of reimbursable subjects (for course commencement before March 2023).

This programme covers the syllabi of examinations that are administered by the Casualty Actuarial Society (CAS) and the Society of Actuaries (SOA).

Career Prospects

Become leading professionals in engineering, management and finance for the Decision Science specialism; or in insurance, banking & finance and related sectors for the Actuarial and Investment Science specialism.

Graduate Employment Statistics (2020)



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