



Master of Science in Quantitative Analysis and Computational Mathematics

This programme is designed for those learners who wish to enhance their quantitative skills, and who are interested in embarking on a career in the fields of engineering, applied sciences, biology, management, computing technology, financial services, education or research. The programme will provide rigorous training in quantitative analysis for decision analysis, as well as in computational methods for simulation and prediction.

Programme-specific entry requirements for MSCQACM and PDQACM:

- a Bachelor's Degree, or equivalent, in a related discipline from a recognized institution; or
- a Bachelor's Degree, or equivalent, in any academic discipline from a recognized institution plus at least two years' working experience in relevant fields; or
- a Postgraduate Certificate in Quantitative Analysis awarded by OUHK, or equivalent; or
- a Postgraduate Certificate in Computational Mathematics awarded by OUHK, or equivalent.

Students pursuing this programme must successfully complete **60 credits*** as follows:

(a) 50 credits from the core courses:

MATH S811F	Computer Algebra and Simulations (10)
MATH S812F	Computational Methods for Risk Analysis and Decision Making (10)
STAT S801F	Quantitative Methods for Decision Analysis (10)
STAT S802F	Multivariate and Time Series Analysis (10)
STAT S821F	Quantitative and Computational Project (10)

(b) 10 credits from any elective courses:

COMP S801 [^]	Object Oriented Programming and Internet Application Development (10)
COMP S888 [^]	Multimedia Technology (10)
ENGG S837F	Systems Engineering (10)
ENGG S838F	Innovation & Technology Management (10)
ENVR S835 [^]	Environmental Control, Monitoring and Modeling (10)
FIN B850 [^]	Investment and Portfolio Management (10)
FIN B851 [^]	Financial Planning and Risk Management (10)
TC S821F	Design & Analysis of Experiments (5)
TC S822F	Statistical Process Control (5)

[^] These courses are delivered in distance-learning mode.

* The credit value is given in brackets at the end of the course title.