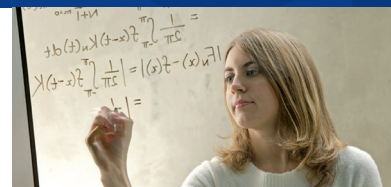


# Master of Quantitative Finance

Experience. The Difference.



Already have a degree but want a career in the technical side of the finance industry?

## My career

This program is designed to provide expertise in quantitative finance at master level. A background in Finance is provided and then used to introduce topics of increasing mathematical and financial complexity. The program provides greater quantitative training than degrees typically offered by Schools of Business. At the conclusion of the program, students could apply for positions such as financial analyst or modeller, information analyst, derivatives analyst, risk manager or quantitative analyst. These are jobs that involve risk assessment, forecasting financial results, determining optimal investment strategies, analysing financial products and applying statistical principles in data analysis.

- Government agencies (eg Australian Bureau of Agriculture and Resource Economics, Australian Bureau of Statistics, Australian Prudential Regulation Authority, Treasuries, both Federal and State, and the Department of Industry Science and Resources)
- Investment organisations (eg BT Financial Group, Deloitte Touche Tomatsu, JP Morgan, Optiver, Price Waterhouse Coopers, Towers Perrin, and Trowbridge Consulting)

## Who will employ me?

In today's rapidly changing economy graduates with quantitative skills are in high demand. Financial centres around the world are looking to employ individuals with strong analytical, problem solving, quantitative, leadership and communication skills, and an interest in technology and business process management. In addition, they seek prospective employees with the ability to find solutions to challenging financial problems and to apply both quantitative and qualitative analysis to complex business situations.

Companies in Australia that employ graduates with these skills include:

- Banks (all Australian banks, the Reserve Bank of Australia and the World Bank)
- Insurance companies (eg AMP and Allianz)

## Entry requirements

Applicants must have a recognised degree in any discipline. In addition, a mathematical background equivalent to our courses Calculus (MATH 1054) and Linear Algebra (MATH 1056), and a statistical background equivalent to Statistical Methods (MATH 1036) are assumed knowledge for this program. Students without this assumed knowledge are counselled to formulate a plan with the Program Director to acquire the appropriate background during the first study period of the program.

## Fees and further information

### Domestic applicants

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### International applicants

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The University of South Australia reserves the right to alter, amend or delete any program, fee, course admission requirement, mode of delivery or other arrangement without prior notice.

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Students in this program receive a high level of individual attention.

## Program content

This master program requires the completion of 54 units of coursework courses as per the schedule below.

### Year 1 – (first half of a calendar year)

Financial Theory and Financial Markets

Theory of Interest M

Statistical Foundations M

Derivatives I: Futures

### Year 1 – (second half of a calendar year)

Life Contingencies M

Risk Theory M

Derivatives II: Options

Multivariate Statistical Analysis M

### Year 2 – (first half of a calendar year)

Investments

Financial Times Series M

Fixed Income Securities

Categorical Data Analysis M

## Prerequisites and co-requisites

The course Financial Theory and Financial Markets must be taken in the first study period as a prerequisite and co-requisite for other mathematically based courses in finance.

The course Statistical Foundations M is a co-requisite for Life Contingencies M and Risk Theory M, and a co-requisite for Derivatives I: Futures.

## Recognition of prior learning

Credit for up to one-third of the units in this program may be granted on the basis of recognised prior learning.

## Fees and applications

Domestic students are eligible for the Commonwealth Government's Higher Education Loan Program (HELP). Further information can be found at [www.unisa.edu.au/future/fees/commonwealthsupported.asp](http://www.unisa.edu.au/future/fees/commonwealthsupported.asp)

Applications can be made online at [www.unisa.edu.au/enrolonline](http://www.unisa.edu.au/enrolonline).