



## Master of Quantitative Finance

Program	Location	Duration + CRICOS	English	2008 Fees	Further Information
<p><b>Program code:</b> DMQF</p> <p><b>Program content:</b> 54 units</p> <p><b>Intake:</b> Study Periods 2 and 5</p>	<p>City West campus</p> <p>School of Mathematics and Statistics</p> <p><a href="http://www.unisa.edu.au/maths">www.unisa.edu.au/maths</a></p>	<p><b>Standard duration: 2 years</b> (13.5 units for each of 4 study periods) Program CRICOS code: 052353M</p> <p><b>No Fast track option available</b></p>	<p><b>IELTS overall</b> 6.0</p> <p><b>TOEFL overall</b> 550 paper based 213 computer based 79 internet based</p> <p><b>CELUSA</b> Successful completion of an Academic English Program to the required standard</p>	<p><b>Total program fee:</b> A\$24,000 (for 54 units)</p> <p>(see Note 2)</p>	<p><b>Email:</b> International.office@unisa.edu.au</p> <p><b>Web: Program</b> <a href="http://www.unisanet.unisa.edu.au/programs/?Year=2008">www.unisanet.unisa.edu.au/programs/?Year=2008</a> (insert Program Code DMQF)</p> <p><b>General</b> <a href="http://www.unisa.edu.au/international">www.unisa.edu.au/international</a></p>

This program is designed to provide expertise in quantitative finance at Masters 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 stock and option markets and applying statistical principles in data analysis.

### Industry

There is increasing importance in using quantitative methods in financial centres around the world, and consequently, there is a growing need for graduates with the appropriate skills to fill these positions. 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, Allianz)
- Government agencies (eg Australian Bureau of Agriculture and Resource Economics, Australian Bureau of Statistics, Australian Prudential Regulation Authority, Treasuries, both Federal and State, Department of Industry Science and Resources)
- Investment organisations (eg BT Financial Group, Deloitte Touche Tomatsu, JP Morgan, Optiver, Price Waterhouse Coopers, Towers Perrin, Trowbridge Consulting)

World-wide such companies 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 create business solutions to complex challenges and to apply both quantitative and qualitative analysis to complex situations.

### Professional recognition

Professional accreditation with the Australian Financial Planning Institute and the Securities Institute will be sought, together with registration with the Chartered Financial Analysts Institute.

### Entry requirements

Applicants must have a recognised degree in any discipline. In addition, a mathematical background equivalent to our courses *Calculus* and *Linear Algebra*, and a statistical background equivalent to Statistical Methods 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.

## Program content

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

### Year 1 – (Second Half of a calendar year)

Financial Theory and Financial Markets	4.5 units
Life Contingencies M	4.5 units
Statistical Foundations M	4.5 units

### Year 1 – (First Half of a calendar year)

Theory of Interest M	4.5 units
Derivatives I: Futures	4.5 units
Fixed Income Securities	4.5 units

### Year 2 – (Second Half of a calendar year)

Derivatives II: Options	4.5 units
Multivariate Statistical Analysis M	4.5 units
Risk Theory M	4.5 units

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

Categorical Data Analysis	4.5 units
Investments	4.5 units
Financial Time Series M	4.5 units

## 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 prerequisite for *Derivatives I: Futures*. *Derivatives II: Options* is a co-requisite for *Financial Time Series M*.

## Recognition of prior learning

No credit will be granted for courses in this program.

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## Contacting University of South Australia

### General Enquiry

International students can either telephone or email to obtain information about study opportunities at University of South Australia:

Telephone: +61 3 9627 4854

Email: [international.office@unisa.edu.au](mailto:international.office@unisa.edu.au)

### Program Enquiry

International students should contact UniSA International or visit the website [www.unisa.edu.au/international/default.asp](http://www.unisa.edu.au/international/default.asp) for information about application procedures and specific study opportunities.

UniSA International

Telephone: +61 8 8302 1114

Fax: +61 8 8302 0233

Email: [international.students@unisa.edu.au](mailto:international.students@unisa.edu.au)

### How to Apply

International students wishing to apply for a program can do so through Apply Online via the weblink below or via email directly to UniSA International.

Email: [international.applications@unisa.edu.au](mailto:international.applications@unisa.edu.au)

Web: [www.unisa.edu.au/international/apply/default.asp#step2](http://www.unisa.edu.au/international/apply/default.asp#step2)

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## Notes:

1. The information contained in this publication is indicative only and is designed as an aid to students contemplating enrolment at University of South Australia. While every effort is made to provide full and accurate information at the time of publication, the University does not give any warranties in relation to the accuracy and completeness of the contents. The University does not accept responsibility for any loss or damage occasioned by use of the information contained in this publication. The University also reserves the right to discontinue or vary arrangements, programs, courses (units), assessment requirements and admission requirements without prior notice. While the University will try to avoid or minimise any inconvenience, changes may also be made to programs, courses (units), assessment requirements and staff after enrolment. The University may also set limits on the number of students in a program or course (unit). Program and course (unit) information is also published in the University Handbooks, see [www.unisa.edu.au/prospective/Program/fees.asp](http://www.unisa.edu.au/prospective/Program/fees.asp)
2. All tuition fees are shown in Australian dollars and are for commencing students for the particular program. Please note that the fee can vary according to the annual program load and total duration. The total program fee must be considered as the cost of the program.
3. Prior to applying to University of South Australia, please refer to the following website for further information on studying in Australia including visa and government requirements, facilities and resources, campus lifestyle, accommodation, living costs, and support services: [www.unisa.edu.au/international/predeparture](http://www.unisa.edu.au/international/predeparture)
4. Depending on demand, not all elective courses in the schedule may be offered in any one year. Elective courses are offered subject to student demand and staff availability. Postgraduate courses offered within the University of South Australia or from other universities may be substituted for the elective course(s) with permission of the Program Director.
5. The courses *Life Contingencies M* and *Risk Theory M* will be given in the second half of the year (study period 5) of alternate years.