University of South Australia

Master of
Quantitative Finance

Experience. The Difference.

Program Code: DMQF

Location: City West campus
School of Mathematics and Statistics

Program Duration: 2 years only
no fast track available
(13.5 units for each of 4 semesters)
Program CRICOS Code:
052353M

Program content: 54 units

Intake: Study Period 5 ONLY

English requirement:
IELTS overall 6.0
TOEFL
550 paper based
213 computer based
UEC 2 at CELUSA
Successful completion of program to the required standard

Program Director:
Dr Chris Brien
Telephone: +61 8 8302 0448

Program fees for 2006:
International fees
A$24,450 (for 54 units)
Australian fees
A$19,500 (for 54 units)

Email:
International applicants:
International.office@unisa.edu.au
Australian applicants:
admissions@unisa.edu.au

Web:
www.unisa.edu.au/maths

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

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 Algebr*a 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
Financial Time Series M	4.5 units
Risk Theory M	4.5 units
Year 2 – (First half of a calendar year)	
Categorical Data Analysis M	4.5 units
Investments	4.5 units
Multivariate Statistical Analysis 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, and Derivatives II is a co-requisite for Financial Time Series M.

Program schedules are based on UniSA's current program structure. UniSA reserves the right to vary the program structure and/or courses.

Recognition of prior learning
No credit will be granted for courses in this program.

Web guide to access information online
Please follow these instructions:

- Type in the following web link: www.unisa.edu.au/study/progcourses/default.asp
- Type in UniSA program code: DMQF
- To view course descriptions and other important information, scroll down the page and click on the courses within the schedule (this will open a new window).

Applying to UniSA

International applicants
Information is available at the following website: www.unisa.edu.au/internat/

Applications can be made via:

1. UniSA International representatives in your relevant country: www.unisa.edu.au/internat/reps.asp
2. Online with the University through the Apply Online facility at: www.unisa.edu.au/applyonline/default.asp

Please note that all international students studying in Australia will require a Student Visa; details are available at the DIMIA website: www.dimia.gov.au

AEI-NOOSR provides a service for individuals looking to have their overseas qualifications compared to Australian qualifications for the purpose of study, professional recognition, migration and/or employment in Australia. Applications can now be received online at www.aei.dest.gov.au/AEI/QualificationsRecognition/Default

Australian applicants
Information is available at the following website: http://www.unisa.edu.au/study/ausres/default.asp
Applications can be made via:

1. Online with the University through the Apply Online facility at: www.unisa.edu.au/applyonline/default.asp
2. Downloading the application form: www.unisa.edu.au/studysas/forms/PostgraduateDirectEntry.pdf