The School of Mathematics and Statistics is one of the premier Australian centres of mathematical research. Its continual success in obtaining high levels of Australian Research Council funding as well as other external research funding is a measure of its national research standing. International research collaborations involve institutes and universities in Europe, Asia and North America. The School is organised into three departments: Applied Mathematics; Pure Mathematics; Statistics.

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Provides an opportunity for advanced training in mathematics and statistics.

<table>
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<tr>
<th><strong>Graduate Certificate in Mathematics and Statistics</strong></th>
<th>Provides an opportunity for advanced training in mathematics and statistics.</th>
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</table>
| **Program Code:** 7659  
**Commencement:** Semester 1 or Semester 2  
(Students wishing to specialise in Statistics need to enter S1 only)  
**Units of credit:** 24  
**Length of study:** 6 months full-time or equivalent part-time  
**Entry requirement:** A completed Mathematics or Statistics degree in a Mathematics or Statistics program. An average above 65% in relevant third year or higher university mathematics or statistics courses. |

This Graduate Diploma is intended for mathematics or statistics graduates wishing to further develop their knowledge and skills in mathematical and statistical sciences. In particular, it provides an opportunity for advanced training in topics relevant to applied or pure mathematics, medical statistics, financial mathematics and industrial statistics. The program covers a wide range of theory and practice, and provides advanced training.

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<tr>
<th><strong>Graduate Diploma in Mathematics and Statistics</strong></th>
<th>This Graduate Diploma is intended for mathematics or statistics graduates wishing to further develop their knowledge and skills in mathematical and statistical sciences. In particular, it provides an opportunity for advanced training in topics relevant to applied or pure mathematics, medical statistics, financial mathematics and industrial statistics. The program covers a wide range of theory and practice, and provides advanced training.</th>
</tr>
</thead>
</table>
| **Program Code:** 5659  
**Commencement:** Semester 1 or Semester 2  
**Units of credit:** 48  
**Length of study:** 1 year full-time or equivalent part-time  
**Entry requirement:** A completed Mathematics or Statistics degree in a Mathematics or Statistics program. An average above 65% in relevant third year or higher university mathematics or statistics courses. |

This Masters program provides advanced training for persons specialising in the teaching of mathematics in tertiary institutions. In addition an appropriate program may provide training for those employed or seeking employment in the area of industrial mathematics. The program covers a wide range of theory and practice, and provides advanced training.

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<tr>
<th><strong>Master of Science and Technology in Mathematics</strong></th>
<th>This Masters program provides advanced training for persons specialising in the teaching of mathematics in tertiary institutions. In addition an appropriate program may provide training for those employed or seeking employment in the area of industrial mathematics. The program covers a wide range of theory and practice, and provides advanced training.</th>
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</table>
| **Program Code:** B718  
**Commencement:** Semester 1 or Semester 2  
**Units of credit:** 48  
**Length of study:** 1 year full-time or equivalent part-time  
**Entry requirement:** A completed Mathematics or Statistics degree in a Mathematics or Statistics program. An average above 65% in relevant third year or higher university mathematics or statistics courses.  
Students need to maintain a high or 65% or above to progress to the compulsory project. |
Master of Financial Mathematics
Program Code: B161
Commencement: Semester 1
Units of credit: 72
Length of study: 1.5 years full-time or equivalent part-time
Entry requirement:
A completed Mathematics or Statistics degree in a Mathematics or Statistics program. An average above 65% in relevant third year or higher university mathematics or statistics courses. Students need to maintain a high or 65% or above to progress to the compulsory project.

The program is unique in its in-depth analysis of financial modelling issues. This is achieved through a well-balanced combination of advanced mathematical techniques of stochastic analysis, numerical methods and sophisticated statistical techniques. The program is appropriate for students who wish to develop their knowledge and skills in mathematical, statistical and computational methods applied to modern finance. It also provides students with a route to high-quality careers in the financial industry.

The program provides advanced training for those who are currently or are aiming to become practicing financial mathematicians.

Master of Statistics
Program Code: B750
Commencement: Semester 1 or Semester 2
Units of credit: 72
Length of study: 1.5 years full-time or equivalent part-time
Entry requirement:
A completed Mathematics or Statistics degree in a Mathematics or Statistics program. An average above 65% in relevant third year or higher university mathematics or statistics courses. Students need to maintain a high or 65% or above to progress to the compulsory project.

This program aims to strengthen and deepen knowledge of the statistical science and to develop consulting and project writing skills. There is also the opportunity to learn in depth applications of statistics in finance, biological and medical science, industry and economics. Statistics graduates are highly sought after in fields as diverse as finance and insurance, the public sector, computing companies and private consultancies. The Master of Statistics program is the longest running program of its kind in Australia. It covers a wide range of statistical theory and practice and provides advanced training to those who are currently or are aiming to become practicing statisticians.

Master of Biostatistics
Program Code: B751
Commencement: Semester 1 or Semester 2
Units of credit: 72
Length of study: 1.5 years full-time or equivalent part-time
Entry requirement:
A completed Mathematics or Statistics degree in a Mathematics or Statistics program. An average above 65% in relevant third year or higher university mathematics or statistics courses. Students need to maintain a high or 65% or above to progress to the compulsory project.

Biostatistics is the development and application of statistical science to research in health-related fields, including medicine, biology, public health and epidemiology. Biostatisticians undertake roles in designing studies, analysing data and creating methods to attack research problems as diverse as testing of new drugs to combat AIDS, the evaluation of hospital practices and health management data and the detection and control of disease outbreaks such as avian influenza. The program is internationally recognised and graduates are in high demand in industry and government, particularly by pharmaceutical companies and drug regulators, medical investigators and public health researchers and policy groups. The program provides advanced training for those who are currently or are aiming to become practising biostatisticians.

Research Degrees

Master of Science (by Research)
Program Code: 2920 (Mathematics)
Length of study: 15 to 2 years of advanced study leading to the submission of a thesis. Minimum duration for completion is 1.5 years.

This program requires the completion of an original piece of research, more limited in scope and nature than PhD. Candidates develop mastery of appropriate methodology and learn the fundamentals of research. Findings are presented in a thesis that places the work in the wider context of their discipline.

Doctor of Philosophy
Program Code: 1880 (Mathematics)
Length of study: 3 to 4 years of advanced study leading to the submission of a thesis. Minimum duration for completion is 3 years.

A PhD requires the completion of a piece of research that demonstrates a significant and original contribution to knowledge in the field of study. Candidates acquire advanced specialist research training under academic supervision. The candidates thesis summarises the research and provides evidence for independent thought and critical analysis, effective communication and expert knowledge of the discipline in the international context.

Disclaimer: The information in this publication is current as at August 2012. The University reserves the right to change any program, admission requirement or other information herein without prior notice. The information contained in this publication applies to Australian citizens, Australian permanent residents and New Zealand citizens only.

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