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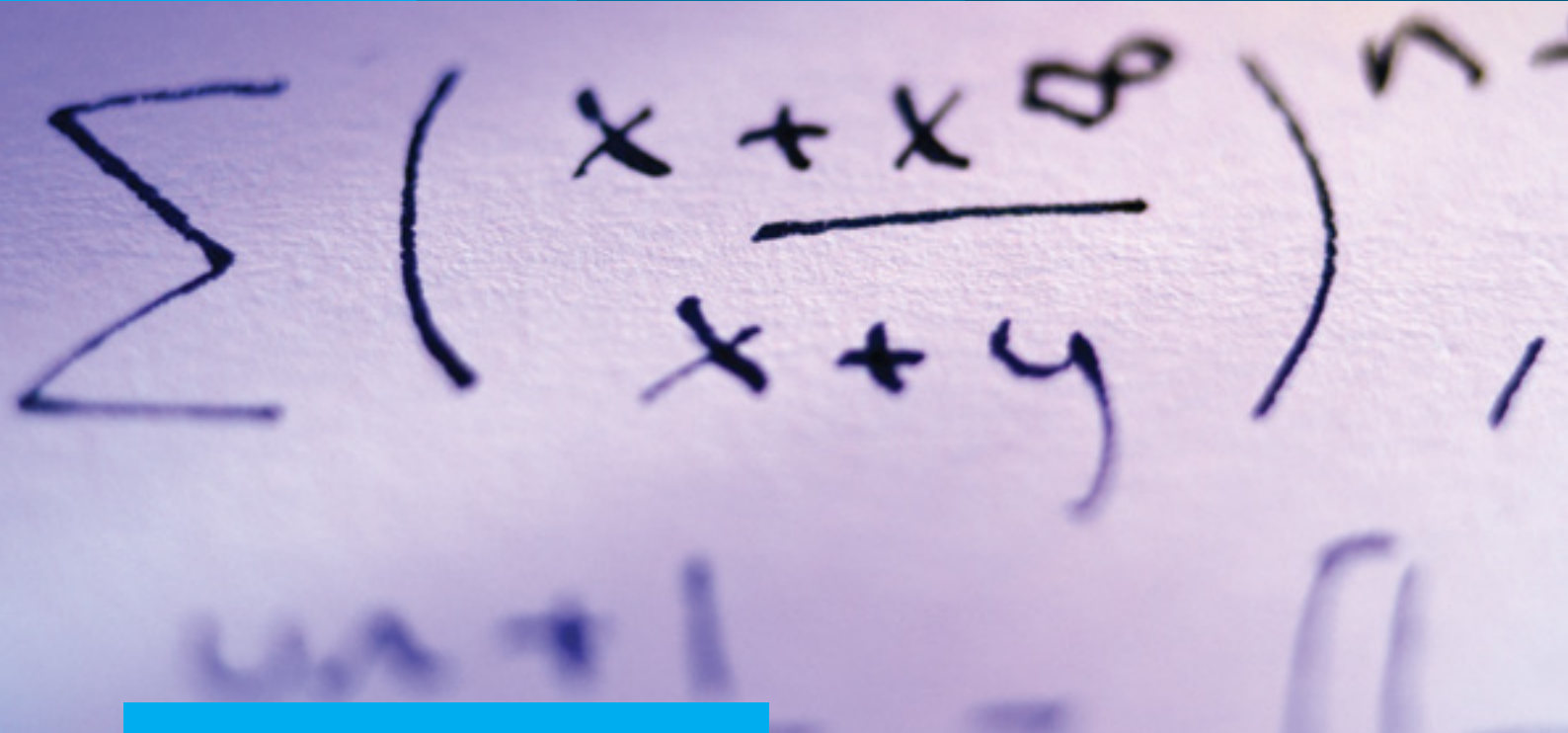
# Mathematics and Statistics

Postgraduate Coursework Degrees and Research Degrees

Never Stand Still

Science

Mathematics and Statistics



The School of Mathematics and Statistics is one of the premier Australian centres of mathematical research. It has ranked first in Australia for Mathematics in the Academic Ranking of World Universities over the last four years.

Its national research standing is evidenced by its continual success in obtaining high levels of Australian Research Council funding, plus other external research funding. The School's aim is to be recognised as the leading provider of mathematics education and research in Australia and among the best globally.

## Contacts

### Coursework

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# Coursework Degrees

## Graduate Certificate in Mathematics and Statistics

Program Code:	7659
Commencement:	Semester 1 or Semester 2 (However it is recommended to undertake it during Semester 1)
Units of credit:	24
Length of study:	6 months full-time or equivalent part-time
Entry requirement:	A completed mathematics or statistics major in an Undergraduate degree or relevant third year mathematics and statistics courses. An average above 65% in relevant third year or higher university mathematics or statistics courses.

The Graduate Certificate in Mathematics and Statistics is intended for graduates with a degree in an area with a significant quantitative component (such as Science, Engineering, Finance), wishing to develop their knowledge and skills in Mathematical and Statistical Science.

## Graduate Diploma in Mathematics and Statistics

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 major in an Undergraduate degree or relevant third year mathematics and statistics courses. 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 high level 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.

## Master of Mathematics

Program Code:	8719
Commencement:	Semester 1 or Semester 2
Units of credit:	72
Length of study:	1.5 years full-time or equivalent part-time
Entry requirement:	Have completed a Bachelor of Mathematics or a Bachelor of Science undergraduate degree with a major in mathematics or statistics. Have sufficient mathematical and/or statistical background, as indicated by an average of 65 or above in level III mathematics and/or statistics university courses.

The Master of Mathematics program offers intensive, advanced training in principles of mathematical sciences. In particular, the program will develop students' research and analytic skills, and substantially broaden the knowledge gained from prior studies. This program will equip you with a range of skills demanded by today's employers, and will provide a means of obtaining necessary preparation for further research in Mathematics.

## Master of Financial Mathematics

Program Code:	8161
Commencement:	Semester 1
Units of credit:	72
Length of study:	1.5 years full-time or equivalent part-time
Entry requirement:	Have completed a Bachelor of Mathematics or Bachelor of Science with a major in mathematics or statistics. Have sufficient mathematical and/or statistical background, as indicated by an average of 65% or above in level III mathematics and/or statistics university courses.
Progression	Students need to maintain an average of 70% or higher after 8 courses to progress to the compulsory project in their final semester

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:	8750
Commencement:	Semester 1 or Semester 2
Units of credit:	72
Length of study:	1.5 years full-time or equivalent part-time
Entry requirement:	Have completed a Bachelor of Mathematics or Bachelor of Science with a major in mathematics or statistics. Have sufficient mathematical and/or statistical background, as indicated by an average of 65 or above in level III mathematics and/or statistics university courses.
Progression:	Students need to maintain an average of 70% or higher after 8 courses to progress to the compulsory project in their final semester

The Master of Statistics program is the longest running program of its kind in Australia. 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. This program 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.

# Research Degrees

## Master of Science (by Research)

Program Code:	2920 (Mathematics)
Length of study:	1.5 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 candidate's 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.