

MASTER OF MATHEMATICS

monash.edu/maths



MASTER OF MATHEMATICS

MATHEMATICS IS INSEPARABLE FROM LIFE AS WE KNOW IT—
BECOME AN EXPERT, EQUIP YOURSELF WITH SKILLS AND
KNOWLEDGE THAT ARE IN DEMAND.

An expert master's that opens many doors to further studies or industry.

Mathematics underpins our way of life and our prosperity. Its importance ranges from fundamental developments enabling new technologies, to theories backing up scientific research to analysis of our physical and societal environments.

From governments to financial and research institutions, employers today are seeking people with advanced knowledge and skills in mathematics who are able to play a critical role in strategic and analytical decision-making and problem-solving.

The Monash Master of Mathematics is designed for graduates with a bachelor's degree and a strong foundation in mathematics.

A combination of coursework and project work, this program will appeal to students who love mathematics and want to embark on a career in education and research.

It is also suitable for people who seek to develop and deepen their knowledge and skills in mathematics, and develop the capacity to use them to tackle complex problems in a variety of situations.

The flexible coursework offering ensures students can create a program to suit their interests, from pure mathematics that develops the core theory, to statistics and applied and computational mathematics that extend this theory to bring practical solutions to real-world problems. Graduates of the program possess advanced knowledge and skills that make them employable in industry, or prepare them for doctoral studies.

This master's course caters to various backgrounds, and allows for three entry points and programs (96 points over 2 years, 72 points over 18 months and 48 points over one year), depending on the applicant's previous studies.

PART A

Foundation studies

24
points

These studies strengthen the student's foundations in the field of mathematics. Students will choose studies that complement their current knowledge of mathematics, in one or more of the areas of Statistics, or Pure, Applied and Computational mathematics.

Students must complete four units (24 points) in mathematics not previously completed in their undergraduate studies, choosing from a range of units including topology, functional analysis and network mathematics.

PART B

Intermediate studies

24
points

These studies consolidate the student's knowledge in one or more fields in mathematics. Students can choose from a range of units ranging from advanced graph theory, integer programming to interest rate modelling and must complete four units (24 points).

PART C

Advanced studies

48
points

These studies provide students with advanced knowledge in modern theories and applications of mathematics which will enable students to bring innovative solutions to problems within or outside mathematics. Through a research project students will develop project management and independent research skills.

Choose from a wide range of units in Pure mathematics, Applied and Computational mathematics and statistics. Students can complement their discipline studies with professional development learning including units in data exploration and visualisation.

COURSE STRUCTURE

- The course is structured in three Parts, A, B and C.
- All students must complete Part C.
- Depending upon prior qualifications, students may receive credit for Part A or Part B or a combination of the two.
- Standard duration is 2 years full time or 4 years part time.
- Students have a maximum of four years to complete this course.

PATHWAYS AND OUTCOMES

- **Alternative exit(s)**

Students may exit this course early and apply to graduate with the following awards, provided they have satisfied the requirements for that award: Graduate Diploma of Mathematics after successful completion of Part A and Part B.

FURTHER STUDIES

- This course may serve as a pathway to a higher degree by research.

GET IN TOUCH

For more information and to apply:

Visit study.monash

1800 MONASH (1800 666 274)

The information in this brochure was correct at the time of printing. Monash University reserves the right to alter this information should the need arise. You should always check with the relevant Faculty office when considering a course.

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