Financial mathematics is one of the few fields of study where mathematics is applied at such a senior industry level. By choosing the Master of Financial Mathematics you will access jobs in the financial industry that combine the best of both worlds: the interest and challenge of working in the financial markets, while remaining in close contact with cutting-edge mathematical knowledge.

**PROFESSOR GREGOIRE LOEPER**
Course Director and Head of Systematic Strategies and Hybrids Quantitative Research, BNP Paribas, Paris

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GROWING NEED FOR TALENT

There is a growing need for talented mathematicians who can put their specialist skills to use in creating new and innovative tools and systems and solving complex problems in the increasingly intricate world of finance and insurance.

**VICTORIA'S ONLY TAUGHT POSTGRADUATE DEGREE**

The only taught postgraduate program in Financial Mathematics in Victoria, the course recognizes the analytical, quantitative and computational skills required by the finance and insurance industry.

**WORLD-CLASS SCHOOL**
You will attend a world-class school of mathematical sciences that combines cutting-edge academic research with extensive industry knowledge and experience.

**A COURSE FOR GLOBAL PROFESSIONALS**
You will sharpen your skills and acquire the knowledge that organizations are looking for all over the world. And if you do end up working in Australia, it might be for the sort of global financial institutions whose employees travel widely.

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**4 REASONS TO STUDY THE MASTERS OF FINANCIAL MATHEMATICS AT MONASH**

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Further information

monash.edu/science
sci-financialmath@monash.edu
1800 MONASH (1800 666 276)

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The information in this brochure was correct at the time of publication (July 2016). 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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MASTER MATHS AND FIND YOUR NICHE IN FINANCE

Across the world talented mathematicians are being professionally pursued by banks and other financial institutions to help manage the increasingly complex and more risky financial sector. Particularly valuable today are those who combine exceptional skills in the science of mathematics with exceptional fluency in the language of finance.

The length of your course, and the units you study within the course, will be influenced by your level of qualification already achieved. If you have previously completed a:

### DEGREE WITH MATHEMATICS CONTENT

**You will complete units in parts A, B & C**

**PART A**
- 2 years full-time study
- If you have completed an undergraduate degree with a high credit average
  OR
- A qualification or experience that the Faculty considers equivalent or a satisfactory substitute for the above.

**PART B**
- 1 year full-time study
- If you have completed a degree in mathematics
  OR
- A graduate certificate/diploma with strong mathematical content with a high credit average
  OR
- A qualification or experience that the Faculty considers equivalent or a satisfactory substitute for the above.

**PART C**
- 1.5 years full-time study
- If you have completed a degree in mathematics with a high credit average
  OR
- Mathematical content with a high credit average
  OR
- A qualification or experience that the Faculty considers equivalent or a satisfactory substitute for the above.

### DEGREE IN MATHEMATICS

**You will complete units in parts B & C**

**PART A**
- 2 years full-time study
- If you have completed an undergraduate degree with a high credit average
  OR
- A qualification or experience that the Faculty considers equivalent or a satisfactory substitute for the above.

**PART B**
- 1 year full-time study
- If you have completed a degree in mathematics
  OR
- A graduate certificate/diploma with strong mathematical content with a high credit average
  OR
- A qualification or experience that the Faculty considers equivalent or a satisfactory substitute for the above.

### ADVANCED MATHEMATICS DEGREE

**You will complete units in part B**

**PART A**
- Four compulsory units (total of 18 points):
  - Introduction to Computational Mathematics (6 points)
  - Time Series and Random Processes in Linear Systems (6 points)
  - Financial Mathematics (6 points)
  - Statistics of Stochastic Processes (6 points)

**PART B**
- Four compulsory units (total of 18 points):
  - Stochastic Calculus and Mathematical Finance (6 points)
  - The Mathematics of Finance: From Derivatives to the Risk Industry (6 points)
  - Inverse Problems Modeling (6 points)
  - Computational Methods of Financial Risk (6 points)

**PART C**
- A total of 18 points from the following:
  - Global Finance (6 points)
  - Stochastic Economics (6 points)
  - The Theory of Martingales in Discrete Time (6 points)
  - Linear Algebra (6 points)
  - Stochastic Learning in Finance (6 points)
  - Markov Chains and Random Walks (6 points)

### CAREER PROSPECTS

The length of your course, and the units you study within the course, will be influenced by your level of qualification already achieved. If you have previously completed a:

**The length of your course, and the units you study within the course, will be influenced by your level of qualification already achieved. If you have previously completed a:**

- “Nowadays, quantitative analysis - which involves knowledge in finance, maths and programming - is a critical component in the modern financial industry in response to both the increasing complexity of financial derivatives and the increasing regulation of the sector. There are not many degrees like this one so relevant to financial industry practice.”

OSCAR TIAN
Senior Quantitative Analyst and Monash alum

### COURSE INFORMATION

**DURATION**
- 2 years full-time
- 1.5 years full-time
- 1 year full-time

**INTAKE**
- Semester 1 or 2
- Semester 1 or 2
- Semester 1 or 2

**CAMPUS**
- Clayton
- Clayton

**EXIT POINTS**
- Graduate Diploma in Financial Mathematics (14 points)
- Graduate Certificate in Financial Mathematics (4 points)

**CREDIT POINTS**
- 6

**ENTRANCE REQUIREMENTS**
- Applicants must have completed an undergraduate degree with an equivalent qualification and achieved a distinction average of 70% in equivalent units as determined by the Faculty.

**HOW TO APPLY**
- For full course entry requirements and how to apply, visit study.monash.edu

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**About the School of Mathematical Sciences at Monash University**

The School of Mathematical Sciences at Monash is the world-leading Faculty of Science at Monash University. The School is dynamic, innovative and successful. It has a strong reputation in research and teaching, with some of the best mathematicians in the world. The School is also building ever stronger connections across the financial and insurance industries.

Industry projects and placements are a central component of the degree, meaning you will gain crucial experience in the workplace as part of the qualification. This is where the new Master of Financial Mathematics comes in - the only masters course of its kind offered in Melbourne, Victoria.

This vibrant, dynamic and successful School is undergoing a period of growth and is looking to attract more talented students to join the School.

**WHAT WILL I STUDY?**

**Degree with Mathematics Content**

You will complete units in parts A, B & C.

**Degree in Mathematics**

You will complete units in parts B & C.

**Advanced Mathematics Degree**

You will complete units in part B.

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**Professor Gregoire Loeper, Course Director for the Master of Financial Mathematics**

Nowadays, quantitative analysis - which involves knowledge in finance, maths and programming - is a critical component in the modern financial industry in response to both the increasing complexity of financial derivatives and the increasing regulation of the sector. There are not many degrees like this one so relevant to financial industry practice.

OSCAR TIAN
Senior Quantitative Analyst and Monash alum

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**CRICOS Code: 086157A**

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**For full course entry requirements and how to apply, visit study.monash.edu**

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**Recognition of Prior Learning**

Students may be eligible to upgrade to 24 points for previous relevant graduate level studies or honours degree. Exceptions up to 24 points may be granted for previous relevant undergraduate studies.

**How to Apply**
- For full course entry requirements and how to apply, visit study.monash.edu/