

MONASH
CENTRAL
UNIVERSITY OF
FINANCE AND
ECONOMICS
(CUFE)

3+1+1
ARTICULATION
PROGRAM



RANKINGS

MONASH UNIVERSITY

#37

IN THE WORLD

US News & World Report Best Global Universities Rankings (2022-2023)

#54

IN THE WORLD

Times Higher Education (THE) World University Rankings (2024)

#42

IN THE WORLD

QS World University Rankings (2024)

#75

IN THE WORLD

Shanghai Ranking's Academic Ranking of World Universities (2022)

SCHOOL OF MATHEMATICS

#4

MATHEMATICS SCHOOL IN AUSTRALIA

THE World University Rankings (2023)

#82

MATHEMATICS IN THE WORLD

THE World University Rankings (2023)

#86

MATHEMATICS SCHOOL IN THE WORLD

QS World University Rankings (2023)

MONASH UNIVERSITY

CUFE 3+1+1

ARTICULATION PROGRAM

This program offers a unique opportunity for high achieving students from selected programs at CUFE to transfer to Monash University. Eligible students will be awarded three degrees in five years:

- the Bachelor of Science from CUFE, and
- the Bachelor of Science and the Master of Financial Mathematics from Monash University.

Prospective CUFE students must have successfully completed three years of a four-year Bachelor of Science in any of the following four eligible majors at CUFE:

- Informatics and Computational Science;
- Pure Mathematics and Applied Mathematics;
- Statistics, or
- Applied Statistics.

Eligible students will complete the final year (3rd year) of the Bachelor of Science with a major in Mathematics at Monash University Australia including advanced studies selected from the masters' program. Following the successful completion of the third year in the Bachelor of Science with a major in Mathematics at Monash, students will enrol in the one-year Master of Financial Mathematics.

Upon successful completion of both programs, Monash will award the Bachelor of Science with a major in Mathematics and the Master of Financial Mathematics and CUFE the Bachelor of Science.

For more information, visit:

🔗 <https://handbook.monash.edu/current/courses/s2000>

🔗 <https://handbook.monash.edu/current/courses/s6001>

PROGRESSION MAP

Central University of Finance and Economics (CUFE)

YEAR 1, 2 and 3

Bachelor of Science in any of the following majors:

- Informatics and Computational Science
- Pure Mathematics and Applied Mathematics
- Statistics, or
- Applied Statistics.

MONASH UNIVERSITY (Australia)

Bachelor of Science with a major in Mathematics (complete 48 points)

YEAR 3 – SEMESTER 1	MTH3251 Financial mathematics (6 points)	MTH3260 Statistics of stochastic processes (6 points)	SCI1000 Science communication to influence change (6 points)	Choose one elective from the following list or as advised by the course coordinator: ETC3400 Principles of econometrics (6 points) ETC3420 Applied insurance methods (6 points) ETC3460 Financial econometrics (6 points) MTH3051 Introduction to computational mathematics (6 points) MTH3140 Real analysis (6 points) MTH3320 Computational linear algebra (6 points) MTH3330 Optimisation and operations research (6 points) MTH3160 Metric spaces, Banach spaces, Hilbert space (6 points) MTH3230 Time series and random processes in linear systems (6 points)
YEAR 3 – SEMESTER 2	MTH5210 Stochastic calculus and mathematical finance (6 points)	MTH5530 Computational methods in finance (6 points)	MTH5550 Quantitative trading and market microstructure (6 points)	Choose one elective from the following list or as advised by the course coordinator: BFF5270 Funds management (6 points) BFX5260 Treasury and financial markets (6 points) FIT5197 Statistical data modelling (6 points) FIT5201 Machine learning (6 points) FIT9136 Algorithms and programming foundations in Python (6 points) MTH5220 The theory of martingales in discrete time (6 points) MTH5540 Statistical learning in finance (6 points)

MONASH UNIVERSITY (Australia)

One-year Master of Financial Mathematics (complete 48 points)

YEAR 2 – SEMESTER 1	MTH5510 Quantitative risk management (6 points)	Choose one unit from the following list or as advised by the course coordinator: MTH5520 Interest rate modelling (6 points) MTH5560 Partial differential equations for finance (6 points)	Choose two electives from the following list or as advised by the course coordinator: BFF5270 Funds management (6 points) BFX5260 Treasury and financial markets (6 points) ETC5460 Advanced financial econometrics (6 points) FIT5197 Statistical data modelling (6 points) FIT5201 Machine learning (6 points) FIT9136 Algorithms and programming foundations in Python (6 points) MTH5230 Markov chains and random walks (6 points) MTH5331 Optimisation for data analytics (6 points)
YEAR 2 – SEMESTER 2	Choose one unit from the following list or as advised by the course coordinator: MTH5810 Industry research project (24 points) MTH5830 Industry placement (24 points) MTH5820 Minor industry research project (12 points), OR MTH5840 Minor industry placement (12 points).		If MTH5820 or MTH5840 is taken, choose two electives not previously completed.

ADMISSION REQUIREMENTS

ACADEMIC

Stage 1:

To gain entry to the third year of the Bachelor of Science at Monash University, CUFE students must have achieved an overall grade of at least 80%^ at the end of their third year in the Bachelor of Science in any of the four eligible majors at CUFE (including failed and repeated units).

Stage 2:

To progress to the final year of the Master of Financial Mathematics, students must have successfully completed the Bachelor of Science with a major in Mathematics and achieved 65%.



ENGLISH LANGUAGE

CUFE students must also meet the Monash minimum English requirements in one of the following English language tests:

- **IELTS (Academic):** 6.5 overall, and 6.0 in (Writing, Listening, Reading and Speaking), OR
- **TOEFL (Internet Based test):** 79 total score, 21 Writing, 12 Listening, 13 Reading and 18 Speaking, OR
- **Pearson Test of English (PTE):** 58 overall, 50 Listening, 50 Reading, 50 Speaking and 50 Writing, OR
- **Cambridge English (CAE or CPE):** 176 overall, 169 Listening, 169 Reading, 169 Speaking and 169 Writing.

^ where an Australian 65% high credit average (or equivalent) is required.

MATHEMATICS LEARNING CENTRE

The School of Mathematics offer an exceptional level of student support in maths, with drop-in help centre open every day and during exam periods.

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APPLYING TO STUDY AT MONASH

Apply directly to Monash University as part of the Monash University-CUFE articulation program and receive block credit for the units you have already completed in the first three-years of the Bachelor of Science in any of the four eligible majors (Informatics and Computational Science: Pure Mathematics and Applied Mathematics, Statistics, or Applied Statistics)

To submit an application, visit:

monash.edu/admissions/apply/international-ug

Application deadlines:

Semester 2 (July – November) – late May

VISA INFORMATION

The Department of Home Affairs is responsible for issuing visas for entry into Australia. Students who are planning to study a CRICOS registered course are required to obtain a student visa.

To apply for a student visa (Subclass 500), visit:

monash.edu/study/how-to-apply/international-student-applications/visa-requirements

ACADEMIC CALENDAR

Semester 1 – March to July

Semester 2 – July to November

monash.edu/students/dates/summary-dates

GRADING AND ACADEMIC REGULATIONS

monash.edu/exams/results/results-legend

COURSE FEES

Course fees for students commencing the Bachelor of Science with a major in Mathematics in 2024 are AUD\$50,400.

MONASH STUDY GRANT

Monash University Australia will award eligible CUFE students a one-off study grant to support their studies.

- **A\$5000** for the third year of the Bachelor of Science with a major in Mathematics, and
- **A\$8000** for the one-year Master of Financial Mathematics



CLAYTON CAMPUS

Clayton is the largest of Monash University's campuses. The Faculty of Science and the School Mathematics are placed there.

The campus offers a rich array of sporting, cultural, and educational events and facilities, and has a proud record of achievement in fostering collaborative research projects with local and international educational institutions and industry partners.

For more information on campus and student life at Clayton, visit:

[📍 monash.edu/about/our-locations/clayton-campus](https://monash.edu/about/our-locations/clayton-campus)

ACCOMMODATION

At the Clayton campus, you will have easy access to classes and be in close proximity to the campus facilities, libraries and vibrant life of Monash University.

Prices for on-campus accommodation range from A\$265 – A\$334 per week for a 42 week contract-lease.

For information on accommodation pricing, how to apply and options at the Clayton campus, visit:

[📍 monash.edu/accommodation](https://monash.edu/accommodation)

COST OF LIVING

Before you begin your studies at Monash, it is a good idea to plan and prepare a budget. Below are some costs associated with living and studying in Australia, and should be used as an approximate guide. These figures are estimates only and may vary depending on where you live and your lifestyle.

ITEMS	COST PER WEEK
Rental (off-campus)	A\$250 – A\$500
Travel (Public transport)	A\$15 – A\$55
Groceries and eating out	A\$80 – A\$280
Gas and Electricity	A\$35 – A\$140
Phone and Internet	A\$20 – A\$55
Miscellaneous (entertainment, personal items)	A\$80 – A\$150

For more information, visit:

[📍 monash.edu/study/why-choose-monash/our-locations/life-in-melbourne/cost-of-living](https://monash.edu/study/why-choose-monash/our-locations/life-in-melbourne/cost-of-living)



LIFE IN MELBOURNE

Named as one of the world's most liveable cities for the past five years, it is a rich, multicultural city of friendly, cosmopolitan people with high education, health care, public transport and safety standards, along with excellent employment rates.

From beautiful parks and gardens to edgy arts and music scene, the city has something for all tastes, including international sporting events and a range of cultural festivals.

 [visitmelbourne.com](https://www.visitmelbourne.com)





MONASH
University

HOW TO APPLY

For more information about this Articulation program program and how to apply, please contact:

Monash University
School of Mathematics

John Chan

E: John.Chan@monash.edu

Central University of Finance and Economics (CUFE)

Professor Lu Deng

Associate Dean, School of Statistics and Mathematics

E: ludeng@cufe.edu.cn

Monash Science online

monash.edu/science

monashuniversity.cn/study/study-areas/science

Instagram: @monash_science

Twitter: @Monash_Science

Youtube: youtube.com/ScienceMonashUni

Monash University

monash.edu

International students

T: Australia freecall: 1800 MONASH (666 274)

T: +61 3 9903 4788 (outside Australia)

E: study@monash.edu

Monash University reserves the right to alter information, procedures, fees and regulations contained in this document. Please check the Monash University website for updates (monash.edu). All information reflects prescriptions, policy and practice in force at the time of publication.

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