



THE UNIVERSITY OF NOTRE DAME AUSTRALIA

PROGRAM REQUIREMENTS:

Program Code: 4153

GRADUATE CERTIFICATE IN MATHEMATICS GradCertMath

Responsible Owner:	National Head of the School of Arts & Sciences
Responsible Office:	Faculty of Arts, Sciences, Law and Business
Contact Officer:	National Manager, Enrolments, Fees & Student Administration
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THE UNIVERSITY OF
NOTRE DAME
A U S T R A L I A

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2 AMENDMENTS

Amendments to these requirements will be made in accordance with the General Regulations.

Graduate Certificate in Mathematics:

Version	Date Amended	Amendment Details	Approved by
1	October 2017	New Program	Dean
2	January 2019	Regulations transferred to new template	PVCA
3	January 2023	Amended from regulations to requirements	
4	July 2027	Major changes to program including addition of Fremantle campus, amendment to learning outcomes, de-nesting from Master of Maths Education, removal of Primary Specialisation and change to compulsory & prescribed courses	Academic Council

3 PURPOSE

These Program Requirements set out the approved requirements for the Graduate Certificate in Mathematics.

4 OVERVIEW

4.1 Campus Availability

The Graduate Certificate in Mathematics has been approved for delivery on both the Sydney and Fremantle Campuses.

4.2 Student Availability

The Graduate Certificate in Mathematics is available for enrolment to domestic Students.

4.3 Australian Qualifications Framework

The Graduate Certificate in Mathematics is accredited by the University as a Level 8 AQF qualification.

4.4 Duration

The Volume of Learning for the Graduate Certificate in Mathematics is 0.5 years of equivalent full-time study.

This Program is only available Part-time.

4.5 Maximum Duration

The maximum period of time within which a student is permitted to complete the Graduate Certificate in Mathematics Award is 3 years (including any periods of approved leave of absence) from the date on which they were first enrolled into the program by the University.

4.6 Study Mode

The Graduate Certificate in Mathematics is offered fully online.

4.7 Professional Accreditation

There are no professional accreditation requirements applicable to this Program.

5 ENTRY REQUIREMENTS

5.1 University Admission Requirements

To be eligible for admission to The University of Notre Dame Australia, all applicants must meet the [University's minimum requirements for admission](#). The requirements for admission are detailed in the University's Policy: *Admissions*.

5.2 Specific Program Requirements for Admission

There are no further requirements for admission to this Program.

6 PRACTICUM OR INTERNSHIP REQUIREMENTS

6.1

There are no practicum requirements applicable to this Program.

7 PROGRAM REQUIREMENTS

7.1 Program Description

Science, technology, engineering, and Mathematics (STEM) are heralded as key drivers of future innovation and growth. The Graduate Certificate in Mathematics is designed as the first in a nested set of programs to enable existing teachers to retrain to teach Mathematics. It can also be studied as a pathway for students who want to deepen their knowledge of Mathematics but have not studied Mathematics at an undergraduate level. The program covers areas such as Number Theory, Algebra, Statistics, and Calculus. It develops the capacity of students to apply advanced mathematical knowledge in order to design and solve authentic problems faced by mathematicians in solving practical and abstract problems.

7.2 Program Learning Outcomes

Upon successful completion of the Graduate Certificate in Mathematics graduates will be able to:

1. Solve complex problems in the mathematical areas of Algebra, Statistics and Calculus.
2. Demonstrate critical thinking skills, including formulating and modelling practical and abstract problems in mathematical terms.
3. Apply mathematical principles, concepts, techniques, and technology to solve practical and abstract problems.
4. Demonstrate communication skills to transfer an understanding of theoretical concepts.
5. Articulate the importance of life-long learning, professional development, and self-directed learning

7.3 Required Courses

To be eligible for the award of Graduate Certificate in Mathematics, students must complete a minimum of 100 Units of Credit chosen from the courses listed in Appendix A, including:

- 100 Units of Credit from four (4) prescribed MATH elective Courses.

7.4 Honours

There is no related Honours program for the Graduate Certificate in Mathematics.

7.5 Course substitutions

Course substitutions, where permitted, must be approved by the National Head of School of Arts and Sciences.

8 DEFINITIONS

For the purpose of these Requirements, the following definitions are available in the General Regulations.

- Leave of Absence
- Units of Credit
- Pre-requisite Course

APPENDIX A: Graduate Certificate in Mathematics

General Stream:

Choose Four (4) prescribed MATH Elective Courses

Either

MATH5000 Principles of Mathematics

Or MATH5001 Linear Algebra

Or MATH5002 Statistics

Or MATH5030 Advanced Calculus

Or MATH5004 Discrete Mathematics

Units of Credit

25

25

25

25

25

TOTAL Units of Credit

100