

MATHEMATICS EDUCATION

The Graduate Diploma in Mathematics Education focuses on mathematics education as an area of study grounded in the critical examination of teaching practice, learning theories, and curriculum, and is supported by analyses of socio-cultural, equity, and gender issues in the teaching and learning of mathematics. It is designed to provide opportunities for graduate level study of theories and research in Mathematics Education, as well as enriched mathematical experiences, to practising teachers and administrators and to people in the community whose work involves developing mathematical literacies. The Graduate Diploma in Mathematics Education is jointly offered by the Graduate Program in Education and the Graduate Program in Mathematics and Statistics.

Choice of two options:

- Concurrent (Option A): The requirements for this Graduate Diploma are completed concurrently with a Master's or Doctoral degree.
- Direct-entry (Option B): This Graduate Diploma can be completed as a stand-alone non-degree diploma.

Structure of the Diploma

Course only MEd	MEd with MRP
Degree + Diploma = 27 Credits*, including: <ul style="list-style-type: none"> • 2 diploma core courses (6.0) • 2 courses from approved course list (6.0) • + 5 additional GS/EDUC courses (15.0) 	Degree + Diploma = 21 credits* + MRP including: <ul style="list-style-type: none"> • 2 diploma core courses (6.0) • 2 courses from approved course list (6.0) • + 3 additional GS/EDUC courses (9.0) • MRP must address diploma topic

MEd with Thesis	PhD with Dissertation
Degree + Diploma = 15 Credits* + thesis including: <ul style="list-style-type: none"> • 2 Diploma core courses (6.0) • 2 courses from approved course list (6.0) • + 1 additional GS/EDUC course (3.0) • Thesis must address diploma topic 	Degree + Diploma = 24 credits* + dissertation including: <ul style="list-style-type: none"> • 2 Diploma core courses (6.0) • 2 courses from approved course list (6.0) • + 4 additional GS/EDUC courses (12.0)** • Dissertation must address diploma topic

*Includes 1 extra course (3.0) beyond MEd or PhD degree requirements

**Includes Doctoral Seminar (EDUC 5100)

Direct Entry (Stand-Alone Diploma)
Diploma = 12 Credits including: <ul style="list-style-type: none"> • 1 Diploma core course (3.0) • 3 courses (9.0) from approved course list

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(Students must complete this checklist page and have it signed by the Diploma Coordinator prior to submitting to the Graduate Program in Education Office, prior to convocation)

Check which diploma option you are completing:

- Option A (course only): I have completed the following **2 courses** (6.0) (check course list)
- Option A (MRP/Thesis/Dissertation): I have completed the following **2 courses** (6.0) (check course list)
- Option B (Direct Entry): I have completed the following **3 courses** (9.0) (check course list)

Group 1

- EDUC 5215 3.0: Research in Mathematics Education
- EDUC 5845 3.0: Mathematics and Science Understanding in Early Childhood
- EDUC 5848 3.0: Technology and Mathematics Education
- EDUC 5900 3.0: Directed Reading (related to mathematics education)
- EDUC 5860 3.0: Issues in Digital Technology in Education

Group 2

- MATH 5450 6.0/EDUC 5837 6.0: Geometry for Teachers
- MATH 5100 6.0: Mathematical Literature Seminar for Teachers
- MATH 5200 6.0: Problem Solving
- MATH 5300 6.0: Microcomputers for Teachers
- MATH 5500 6.0: Topics in Mathematics for Teachers
- MATH 5020 6.0: Fundamentals of Mathematics for Teachers
- MATH 5400 6.0: History of Mathematics for Teachers
- MATH 5410 6.0: Analysis for Teachers
- MATH 5420 6.0: Algebra for Teachers
- MATH 5430 6.0: Probability, Statistics and Computing for Teachers

***Note: to enrol in any Group 2 courses:**

1. Students will require permission of the instructor unless they have a degree in mathematics.

In addition to the degree (Option A) and diploma requirements, I have completed 2 core courses:

In addition to the diploma requirements (Option B), I have completed the 1 core courses:

- EDUC 5840 3.0/MATH 5840 3.0: Mathematics Learning Environments OR EDUC 5841 3.0/MATH 5900 3.0: Thinking about Teaching Mathematics (**please check**)
- EDUC 5210/MATH 5910 3.0: Quantitative Research Methods in Education OR EDUC 5200 3.0: Qualitative Research Methods in Education (**please check**)

My MRP/Thesis/Dissertation topic is in the area of Mathematics.

MRP/Thesis/Dissertation Title

Student's name

Student's signature

Date

Approved by the Mathematics Education Diploma Coordinator:

Coordinator's name

Coordinator's signature

Date