The Graduate Certificate in Educational Studies (GCES) is a four-course experience designed to meet the needs of educators.

Through the certificate program, you will learn to:

- Deepen and extend knowledge in mathematics education, recognizing the role of curriculum, historical and contemporary perspectives on learning, opportunities for culturally responsive teaching, and contexts for playful interactions.

- Describe, reflect and comment on current scholarly/practice issues in mathematics education grounded in research-based and collective experiences.

- Apply mathematics education research to enhance teaching and learning in varied contexts, and attend to diverse conceptualizations of learning to be responsive to learners' needs and experiences.

**THE PROGRAM**

In this certificate, students will be challenged to examine their assumptions about mathematics learning alongside cultural, historical, and contemporary research and varied perspectives on learning. Mathematics pedagogy and learning will be explored through research and professional literature, experiential learning, and reflection. We will draw upon examples from Indigenous traditions and peoples, wisdom traditions, and mathematics education for social justice. This exploration will include the qualities of playful engagement, and the characteristics of tasks that encourage play in PreK-12 mathematics classrooms and beyond.

**COURSES**

- **Summer 2022**
  EDU 546 Numeracy Across the Curriculum

- **Fall 2022**
  EDU 547 Perspectives on Mathematics Learners and Learning

- **Winter 2023**
  EDU 548 Playful Places of Learning in Mathematics Education

- **Spring 2023**
  EDU 545 Culturally Responsive/Regenerative Mathematics

*The Graduate Certificate may be laddered into some M.Ed. Programs.*

**APPLICATIONS OPEN:**

**November 1 - March 31**
(Summer 2022 start)

**ADMISSION REQUIREMENTS**

- Bachelor of Education (BEd) or a four-year baccalaureate degree (or equivalent) from a recognized academic institution with a minimum grade point average (GPA) of 3.0

- Two years of teaching experience

- English Language Proficiency
  (more information here)

For more information:
  uab.ca/gces
gcesinfo@ualberta.ca

Transform your mathematics teaching with purposeful practices.

The Graduate Certificate in Educational Studies is for teaching professionals and other educational specialists seeking advanced professional education. The program consists of four-courses (12 credits) centred on mathematics education.

The courses in the certificate are delivered fully online, in synchronous sessions, recorded for asynchronous viewing if needed.