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.

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.

**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**
EDU 546 Numeracy Across the Curriculum

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

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

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

The Graduate Certificate may be laddered into some M.Ed. Programs (see reverse).

**APPLICATIONS OPEN:**

November 1 - April 30
(Start in summer term)

For more information:
uab.ca/gces

gcesinfo@ualberta.ca

**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 on website)
Laddering a Graduate Certificate into the Master of Education in Educational Studies (MES)

A Graduate Certificate in Educational Studies (GCES) or Graduate Certificate in School Leadership (GCSL) provides students with up to 12 credits in advanced standing in the MES program. Students who bring in one of the two approved Graduate Certificates will be admitted into the certificate cohort* with the following program plan:

**Summer I**

**EDU 510 Fundamentals of Educational Research**
Students learn how to understand and apply educational research to educational problems. Specific focus on conceptualizing methods of educational research to specific and individual educational sites and issues.

**EDU 514 Planning for Educational Change**
Students learn how educational research can enhance educational change toward school improvement, and focus on the creation of a site-based research proposal which utilizes appropriate research methods.

**Fall**

**EDU 515 Conducting Educational Research** **
Students complete a supervised research assignment specific to their educational context. They will develop and apply knowledge and skills related to data collection, data analysis techniques and research report presentation.

**Winter**

**Elective I**
Professional Learning Electives

**Spring**

**Elective II**

**Summer**

**EDU 900 Program Synthesis**
A reflection and synthesis of learning from the Master of Education in Educational Studies in relation to the concepts of school/educational improvement that are the foundations of the program.

Other Laddering Options
The GCES and GCSL can ladder into the M.Ed. Elementary Education - Curriculum and Pedagogy. Contact elemgrad@ualberta.ca for more information.
Additionally, the GCSL can ladder into the M.Ed. in Studies in Educational Leadership. Contact epscoord@ualberta.ca for more information.

Faculty of Education, Professional Learning
Website: uab.ca/prolearn | Contact: pluadmin@ualberta.ca

*This pathway will begin in Summer 2023. Completion of the GCES or GCSL does not guarantee acceptance into any Master’s program.

**Students who are employed by school divisions that are part of the CAP program require additional approval which results in those students taking an elective in the Fall term and conducting research in the Winter term.