

SCIENCE EDUCATION

Graduate Certificate in Educational Studies

The GCES - Science Education is a four-course experience designed to meet the needs of educators.

Through the certificate, you will learn to:

- *Design and engage a range of pedagogies and approaches to enhance students' science learning and meet their diverse needs across subject areas.*
- *Explore and critically assess current and emerging trends in science education to inform curriculum development and implementation that align with content area standards.*
- *Develop knowledge and skills to understand and address the multiple complexities and issues facing contemporary science educators.*

Rise to the challenges and opportunities of 21st century education.

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

The Graduate Certificate in Educational Studies is a cohort-based, part-time, varied-delivery program that suits your schedule and timelines.

THE PROGRAM

Society is continuously evolving alongside and as a consequence of developments occurring across the fields of science. Scientific literacy, that includes the development and enhancement of students' knowledge, reasoning, dispositions to life-long science learning, and the ethical use of scientific knowledge, is a key goal of science education worldwide. The GCES – Science Education will advance science teachers' knowledge and skills in facilitating the development of scientific literacy and mandated learning outcomes in their students. The courses are designed to be relevant to all science teachers; they blend theory with practice and are taught by university professors and leaders in science education pedagogies and practices.

COURSES

Summer

EDU 595 Improving Students as Science Learners

Fall

EDU 595 Trends and Issues in Science Education

Winter

EDU 595 Critical and Creative Science

Spring

EDU 595 The Role of Literacy in Teaching, Learning, and Doing Science

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

APPLICATION DEADLINE:

May 15, 2024

(Start in summer term)

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

ADMISSION REQUIREMENTS

- 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*)



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