

Laddering a Graduate Certificate into the Master of Education in Educational Studies (MES-STEM)



A [Graduate Certificate in Educational Studies \(GCES\)](#) in **Mathematics Education, Science Education, OR Technology in Education**, provides students with up to 12 credits in advanced standing in the MES-STEM program. Students who are admitted with one of these graduate certificates will complete the MES by taking six graduate-level courses (18 credits) - four core courses and two electives - following one of these timelines: (subject to change):

Starting in Summer 2025



Starting in Fall 2025



Courses to Complete the M.Ed.

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.

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.

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.

Plus two graduate-level electives

Note: Electives must be taken prior to taking EDU 900, unless permission has been received from the department for an altered course of study. Professional Learning offers a variety of electives; check the [website](#) for current offerings, or contact us to determine if the elective you want to take is approved for the program.

Other Laddering Options

The GCES can also ladder into the [M.Ed. Elementary Education - Curriculum and Pedagogy](#). Contact essgrad3@ualberta.ca for more information.

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

Note: Completion of the GCES does not guarantee acceptance into any Master's program. Course availability is dependent upon sufficient enrollment. Alternate schedules may be available for future years.