

Graduate Certificate in STEM Education (EDC101.1)

Please note these are the 2024 details for this course

Domestic students

Selection rank	
Delivery mode	Online
Location	UC - Canberra, Online
Duration	0.7 years
Faculty	Faculty of Education
Discipline	Academic Program Area - Education
UAC code	
English language requirements	An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences

International students

Academic entry requirements	To study at UC, you'll need to meet our academic entry requirements and any admission requirements specific to your course. Please read your course admission requirements below. To find out whether you meet UC's academic entry requirements, visit our academic entry requirements page. View UC's academic entry requirements
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Delivery mode

Location	
Duration	0.7 years
Faculty	Faculty of Education
Discipline	Academic Program Area - Education
CRICOS code	
English language requirements	An IELTS Academic score of 6.5 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences

About this course

Lead STEM Education in your community

Do you have an interest in Science, Technology, Engineering and Maths (STEM) and want to inform teaching practices and students? The 100% online Graduate Certificate in STEM Education can help you unlock your pathway to career success.

Building upon your own foundational skills while gaining a deep understanding of spatial thinking, STEM pedagogical frameworks and inclusion and wellbeing strategies, you'll gain tools to enhance teaching practices, student outcomes and student engagement.

Learn from world-renowned leaders through units informed by evidence-based research from the STEM Education Research Centre (SERC) at the University of Canberra. Designed to make you think differently about STEM, you'll consider what STEM means and how it can look in a school setting.

Tailor your course to you and your interests, with units in STEM Pedagogy, STEM and Design Thinking, Spatial Thinking, and STEM Practices and Learning Opportunities. Through these units you'll analyse and select optimal STEM and spatial pedagogical frameworks, develop design-thinking approaches to teaching and learn how STEM practices occur across the curriculum in a contemporary educational context.

Aligned with ACARA requirements, you'll graduate with the tools to foster improvements in teaching, student outcomes and student engagement with a qualification to pursue in-demand specialist roles as a leader of STEM education in your community.

Study a Graduate Certificate in STEM Education at UC and you will:

- Gain a deeper understanding of spatial thinking, STEM pedagogical frameworks and inclusion strategies.
- Develop design-thinking approaches to teaching.
- Confidently implement strategies to enhance teaching practices, student outcomes and engagement.

- Learn how STEM practices occur across the curriculum in a contemporary educational context.
- Appropriately analyse and select optimal STEM and spatial pedagogical frameworks.

Career opportunities

- Head of Department or Faculty (STEM)
- Curriculum Coordinator or Specialist (STEM)
- Education Assessment Specialist (STEM)
- Assistant Principal
- Executive Teacher (STEM)

Course-specific information

Delivered 100% online, you can balance your full-time work while developing your professionalism as a teacher with the opportunity for your studies to go towards continuing professional development (CPD) or mandatory training hours. With intakes every two months, you can study from anywhere

in Australia while receiving dedicated support from your Student Success Adviser.

Admission requirements

Current registration as a teacher at proficient level or higher with an Australian regulatory authority/registration authority (e.g. TQI, NESAs) OR A three-year undergraduate degree in Education or relevant field as approved by the University of Canberra, and at least three years' FTE professional experience in education OR Graduate/Post-Graduate education qualifications as approved by the University of Canberra.

Assumed knowledge

This course is intended for practising teachers, school leaders and other professionals working in fields of education. While there is no specific assumed knowledge required, a familiarity with Australian educational contexts (including schooling contexts) is assumed.

Periods course is open for new admissions

Year	Location	Teaching period	Teaching start date	Domestic	International
2024	UC - Canberra, Online	Study Block 1	15 January 2024	✔	
2024	UC - Canberra, Online	Study Block 2	11 March 2024	✔	
2024	UC - Canberra, Online	Study Block 3	06 May 2024	✔	

2024	UC - Canberra, Online	Study Block 4	01 July 2024	✓
2024	UC - Canberra, Online	Study Block 5	26 August 2024	✓
2024	UC - Canberra, Online	Study Block 6	21 October 2024	✓
2025	UC - Canberra, Online	Study Block 1	20 January 2025	✓
2025	UC - Canberra, Online	Study Block 2	17 March 2025	✓
2025	UC - Canberra, Online	Study Block 3	12 May 2025	✓
2025	UC - Canberra, Online	Study Block 4	07 July 2025	✓
2025	UC - Canberra, Online	Study Block 5	01 September 2025	✓
2025	UC - Canberra, Online	Study Block 6	27 October 2025	✓
2026	UC - Canberra, Online	Study Block 1	19 January 2026	✓
2026	UC - Canberra, Online	Study Block 2	16 March 2026	✓
2026	UC - Canberra, Online	Study Block 3	11 May 2026	✓
2026	UC - Canberra, Online	Study Block 4	06 July 2026	✓
2026	UC - Canberra, Online	Study Block 5	31 August 2026	✓
2026	UC - Canberra, Online	Study Block 6	26 October 2026	✓

Credit arrangements

There are currently no formal credit transfer arrangements for entry to this course. Any previous study or work experience will only be considered as part of the application process in accordance with current [course rules and university policy](#).

Course requirements

Graduate Certificate in STEM Education (EDC101) | 12 credit points

Required - Must pass 12 credit points as follows

[Expand All](#) | [Collapse All](#)

STEM Pedagogy G (11965) | 3 credit points – Level G

STEM and Design Thinking G (11966) | 3 credit points – Level G

Spatial Thinking G (11967) | 3 credit points – Level G

STEM Practices and Learning Opportunities G (11968) | 3 credit points – Level G

In addition to course requirements, in order to successfully complete your course you must meet the inherent requirements. Please refer to the [inherent requirements statement](#) applicable to your course

Typical study pattern

Course information

Course duration

The standard duration for this course is 8 months (4 Study Blocks). The maximum duration is three years.

Learning outcomes

Learning outcomes	Related graduate attributes
Exhibit advanced STEM theoretical knowledge and practical skills.	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems. UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; evaluate and adopt new technology.
Analyse and evaluate STEM educational resources for relevance, efficacy, or ability to engage.	UC graduates are professional: Use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems. UC graduates are lifelong learners: Evaluate and adopt new technology.
Design STEM lessons and activities that can be used in real contexts.	UC graduates are professional: Use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems.

	UC graduates are lifelong learners: Evaluate and adopt new technology.
Develop the capacity to effectively advocate for and communicate ideas about STEM for all, including equity groups.	<p>UC graduates are professional: Employ up-to-date and relevant knowledge and skills; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems.</p> <p>UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; evaluate and adopt new technology.</p>
Demonstrate knowledge and confidence of STEM concepts beyond traditional discipline knowledge	<p>UC graduates are professional: Employ up-to-date and relevant knowledge and skills; use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems.</p> <p>UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; evaluate and adopt new technology.</p>

Awards

Award	Official abbreviation
Graduate Certificate in STEM Education	GradCert STEM Ed

Honours

None.

Enrolment data

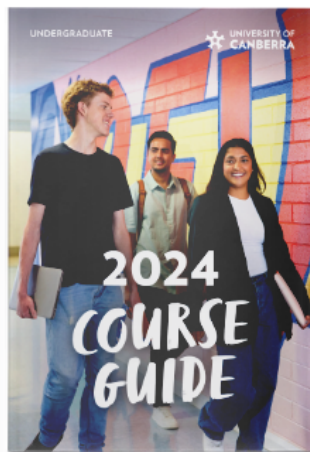
2023 enrolments for this course by location. Please note that enrolment numbers are indicative only and in no way reflect individual class sizes.

Location	Enrolments
UC - Canberra, Online	2

Enquiries

Student category	Contact details
Current and Commencing Students	Please contact the University Student Centre by Email student.centre@canberra.edu.au or Phone 1300 301 727
Prospective Students	Email study@canberra.edu.au or Phone 1800 UNI CAN (1800 864 226)

Download your course guide



Scholarships

Find the scholarship that's the right fit for you

[Explore Scholarships](#)

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University of Canberra, Bruce ACT 2617 Australia

+61 2 6201 5111

ABN 81 633 873 422

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UC acknowledges the Ngunnawal people, traditional custodians of the lands where Bruce campus is situated. We wish to acknowledge and respect their continuing culture and the contribution they make to the life of Canberra and the region. We also acknowledge all other First Nations Peoples on whose lands we gather.