

Online Master of Arts in Education With a Concentration in STEM Education

Program Highlights

30 credit hours

In-state tuition: \$490/credit hour*

Out-of-state tuition: \$575/credit hour*

** Tuition is based on 2024-2025 rates and is subject to change.*

- Available in an easily accessible 100% online format from UTEP's College of Education
- Designed to meet the diverse needs of professional educators in Pre-K, elementary, middle-level, secondary and informal education
- Prepares students to become STEM leaders in their school or district and provides the tools they need to grow teaching abilities in STEM disciplines



Become a STEM Leader

Federal STEM strategy states that the innovation capacity of our country depends on "an effective and inclusive STEM education ecosystem." Accordingly, there has been a significant increase in the number of children enrolled in STEM education programs in the United States and developing STEM educators who are trained to use innovative approaches to teaching and learning in STEM disciplines is of the utmost importance.

This program is open to anyone (working students, parents, traditional students, military service members, career changers, career enhancers, etc.) who wants to acquire knowledge of state-of-the-art innovative STEM education approaches, as well as discipline-specific educational approaches that will help to facilitate effective and deep teaching and learning of STEM disciplines.

It is especially useful for those seeking to take on advanced teaching and/or STEM leadership roles in a variety of STEM environments, public and private PK-12 schools, STEM-focused schools and academies, and in informal educational settings (i.e., museums, community-based organizations, etc.).

As a student of this program, you will learn about

- curriculum renewal, innovative approaches to STEM education, and teaching in an era of change
- bridging educational research and practice
- interdisciplinary approaches

As a graduate of this program, you may find work in community-based organizations, research, non-profits, Non-Governmental Organizations (NGOs), and public and/or private schools. This program will also prepare you for advanced study (e.g., Ph.D. or Ed.D.).

Certificate option

Students who complete the 5 required courses may choose to earn the 15-credit STEM Education graduate certificate as part of this master's degree.



Ready to connect or have questions?

Call **1-800-684-UTEP** to speak with an enrollment counselor today or visit us at utepconnect.utep.edu

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Admissions Requirements

To qualify for admission into the M.A. in Education with a Concentration in STEM Education, you must:

- Submit a completed graduate admissions application and application fee
- Have an undergraduate GPA of 3.00 or greater
- Provide a résumé demonstrating basic knowledge or experience in education or education-related fields
- Provide a written statement of purpose describing personal and professional goals related to obtaining the degree

GRE is NOT required.

International students whose first language is not English must also submit:

- Official TOEFL (Test of English as a Foreign Language) score of at least 79 on the online version, or 550 on the paper-based version

Admissions factors will be reviewed holistically to assess the potential of the applicant.



Phone: 1-800-684-UTEP

Email: utepconnect@utep.edu

Website: utepconnect.utep.edu

Curriculum

To earn an M.A. in STEM Education you must successfully complete 30 hours of required coursework (15 credit hours of required courses and 15 hours of elective courses), complete a thesis or capstone project and obtain a grade of "pass" in the Thesis II/Capstone II course. A graduate certificate in STEM Education is available for students who complete the 15 credit hours of required courses.

Required courses include one of three Mathematics Education courses, one of two Science Education courses, one of two Educational Technology courses and two thesis/capstone courses.

Required Courses (15 credit hours)

Mathematics Education

MTED 5322 Pedagogical Content Knowledge in Teaching Mathematics (Quantitative Reasoning **OR** Algebraic Reasoning **OR** Geometric Reasoning)

Science Education

SIED 5323 Societal Context of Science Education **OR**

SIED 5325 Inquiry Science Education in Bilingual Settings

Educational Technology

EDT 5374 Pedagogy in the Technology-Rich Classroom **OR**

EDT 5375 Technology, Assistive Tools and Issues of Access

Culminating Experience (6 hours or more if needed until capstone/thesis is completed)

TED 5319 Capstone I Research of Toys & Gamification **OR** TED 5398 Thesis I

STEM 5390 Capstone II **OR** TED 5399 Thesis II

Elective Courses (Choose any 5 with advisor approval)

TED/SPED Section

TED 5313 Diversity in Educational Settings **OR**

TED 5301 Learning Contexts & Curriculum **OR**

SPED 5369 Teaching Reading, Writing, and Mathematics to Learners with High Incidence Disabilities

Math/Math Education Section

MTED 5324 Authentic Assessment in Mathematics Classroom **OR**

MTED 5318 Current Topics in Mathematics Education (Learning Theories) **OR**

MTED 5320 Research-Based Practices in Mathematics Classroom **OR**

TED 5319 Graduate Workshop in Education (Math Education Topic) **OR**

Various Graduate Math Content Courses

Science/Science Education Section

SIED 5321 Science Tools, Standards, Technology, Safety and Ethics **OR**

SIED 5312 Environmental Education **OR**

TED 5319 Graduate Workshop in Education (Science Education Topic) **OR**

Various Graduate Science Content Courses

Educational Technology Section

EDT 5372 Web Tools for the Constructivist Classroom **OR**

EDT 5373 Advanced Productivity Technologies for the Classroom **OR**

EDT 5376 Assessing, Planning, and Implementing Technology Programs in EC-12 **OR**

TED 5319 Graduate Workshop in Education (Educational Technology Topic)

Total Credits: 30

Note: Curriculum is subject to change.