Become an Innovative Educator in a High-Demand Field With Just 5 Courses!

In recent years, there has been a significant increase in the number of children enrolled in STEM education programs in the United States and a corresponding need for highly qualified STEM educators. Accordingly, developing STEM educators who will be trained to use innovative approaches to teaching and learning in STEM disciplines is of utmost importance.

With this course you will learn how to

- increase STEM literacy
- develop better integrated and interdisciplinary approaches to teaching and learning
- develop better approaches to teaching of academic concepts through real-world applications
- combine formal and informal learning in schools, the community, and the workplace

Upon graduation, you may choose to teach in a STEM academy, charter or private school, or continue learning by applying these credits toward a Professional Master’s degree from the College of Science or a Master of Arts degree from the College of Education.

Note: This program does not provide teaching certification.
Online Graduate Certificate in STEM Education

Admissions Requirements
To qualify for admission into this program, you must have:

- A bachelor’s degree from an accredited university
- An undergraduate GPA of 3.0 or greater (preferred)

You must also:

- Complete and submit a graduate admissions application
- Submit official transcripts in accordance with the requirements of the Graduate School
- Provide a statement of purpose, three letters of recommendation and your resume/curriculum vitae

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

- Official TOEFL (Test of English as a Foreign Language) score of at least 213 on the online version, or 550 on the paper-based version

Curriculum
As a student in the STEM Education graduate certificate program, you will choose from the menu of courses in Mathematics Education (MTED), Science Education (SIED), Educational Technology (EDT), and a capstone project. All courses are 14 weeks long. You must complete a total of 15 hours to graduate and may receive extra credit if you are involved in teaching students in STEM content areas.

MATH EDUCATION COURSES (3 HOURS EACH): SELECT ONE
MTED 5322 A  Pedagogical Content Knowledge in Teaching Mathematics (Quantitative Reasoning)
MTED 5322 B  Pedagogical Content Knowledge in Teaching Mathematics (Algebraic Reasoning)
MTED 5322 C  Pedagogical Content Knowledge in Teaching Mathematics (Geometric Reasoning)
MTED 5324  Authentic Assessment in Math Classroom
TED 5319  Graduate Workshop in Education (Math Education Topic)

SCIENCE EDUCATION COURSES (3 HOURS EACH): SELECT ONE
SIED 5321  Science Tools, Standards, Technology, Safety and Ethics
SIED 5323  Societal Context of Science Education
SIED 5325  Inquiry Science Education in Bilingual Settings
SIED 5312  Environmental Education
TED 5319  Graduate Workshop in Education (Science Education Topic)

EDUCATIONAL TECHNOLOGY COURSES (3 HOURS EACH): SELECT TWO
EDT 5372  Web Tools for the Constructivist Classroom
EDT 5373  Advanced Productivity Technologies for the Classroom
EDT 5374  Pedagogy in the Technology-Rich Classroom
EDT 5375  Technology, Assistive Tools and Issues of Access
EDT 5376  Assessing, Planning, and Implementing Technology Programs in EC-12
TED 5319  Graduate Workshop in Education (Ed Technology Topic)
SPED 5354  Atypical Childhood Development

CAPSTONE COURSES (3 HOURS EACH): SELECT ONE
MTED 5318  Current Topics in Mathematics Education (Learning Theories)
MTED 5320  Research-Based Practices in Mathematics Classroom

Total Credits: 15

Note: Curriculum is subject to change.

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