

STEM EDUCATION ENDORSEMENT

The STEM program endorsement is intended to improve a teacher's skills in dealing with complex classroom settings. The STEM endorsement is designed to provide additional knowledge and promote skills related to more integrative ways to deliver content in these areas. While the endorsement does not lead to state licensure, it may be added to an existing Level I or Level II Certificate. Millersville's STEM endorsement courses can also be applied to the Assessment, Curriculum and Teaching Masters in Education Program with the addition of five more courses.

STEM education creates opportunities to integrate student-centered learning approaches to improve the quality of K-12 education and interaction with the larger community. This program incorporates active project-based learning, where you will develop and use skills in analysis, problem solving and critical thinking.

Program Highlights:

- 12-Credit, four-course Program
- Adds a STEM endorsement to an existing PA teaching license
- Can be completed 100% online
- All 12 credits count towards Millersville's M.Ed. program in Assessment, Curriculum and Teaching
- Affordable tuition rates
- Credits meet ACT 48 requirements
- Interdisciplinary faculty from three departments

Who This Program is for:

- Teachers who hold an initial teaching certification in any discipline K-12
(*This program will NOT lead to an initial teaching certification)
- Teachers in STEM subjects: science, technology, engineering and mathematics
- Teachers in non-STEM disciplines who are interested in embracing the ideas associated with STEM education

This program builds upon our existing high-quality science, technology, engineering and math education courses taught by Millersville University's faculty experts.

PDE Endorsement

Code	Title	Hours
ENDORSEMENT IN STEM EDUCATION - See separate block		
Total Hours		0

Concentration in STEM Education

Code	Title	Hours
INTEGRATIVE STEM EDUCATION ENDORSEMENT		
ACTE 651	Science Curriculum and Reform	3
Math in the School Program or Problem Solving Seminar - Choose 1 of the following:		3
EDUC 651	Math in the School Program	
MATH 610	Problem Solving Seminar	
Engineering Principles and Concepts OR Int. STEM Educ - Choose 1 of the following:		3

EDTE 604	Engineering Principles and Concepts for the Non-Engineer	
ACTE 655	Integrative STEM Education	
ACTE 625	Technology and Assessment for Learning	3
Total Hours		12