

# INTEGRATIVE STEM EDUCATION METHODS MINOR

The Integrative STEM Education Methods (ISEM) minor is specifically designed for students in the **Early Childhood Education (ERCH)** major. The overall goal of this minor is to prepare future early childhood teachers to develop the knowledge, skills, and habits of mind that would best prepare them to use integrative teaching-learning approaches to enhance their students' learning of STEM, as well as other areas of the curriculum.

## **Regulations Governing Minor Course Work**

1. There shall be a minimum of 18.0 credit hours with a minimum Millersville QPA of 2.0.
2. Only one course which counts toward your major may be counted toward your minor.
3. Courses that count toward a minor are also eligible to be used to satisfy the current University-wide General Education requirements subject to normal distribution requirements.
4. At least two courses should be at the upper-division level (300-400). Exceptions may be requested upon evidence of program depth.
5. No course needed for the minor may be taken Pass-Fail.
6. One-half or more of the work required for the minor must be completed at Millersville University.
7. No student may minor in his or her major.

## **Minor in Integrative STEM Educ Methods**

<b>Code</b>	<b>Title</b>	<b>Hours</b>
ERCH 110	Introduction to Early Childhood Education	3
ERCH 190	Introduction to Integrative STEM Pedagogy	3
AENG 344	Product Design	3
Children's Engineering - Choose 1 of the following:		3
ERCH 290	Children's Engineering	
EDTE 290	Children's Engineering	
EDTE 490	Integrative Learning Using Experiential Strategies	3
Integrative STEM Education Practicum - Choose 1 of the following:		3
ERCH 495	Integrative STEM Practicum	
EDTE 495	Integrative STEM Practicum	
<b>Total Hours</b>		<b>18</b>