

# Foundations of Integrated STEM Education

## *a STEM Certified Educator Course*

- **Target Audience:** PK-12 educators and administrators
- **Format:** Fully online via Zoom (*interactive & engaging*)
- **Dates:** Mon. July 8 – Fri. July 19, 2024
- **Times:** 9 am – 3:30 pm M-F
- **Course Options:** (see table below)



	Course Only	Optional ADD-ONS  	Graduate Credit	AND / OR	STEM Certificate		
<b>Award</b>	40 PDPs or 4.0 CEUs				3 Graduate Credits <i>(in lieu of PDPs)</i>		+15 PDPs or 1.5 CEUs
<b>Cost</b>	\$1120				+\$395		+\$180
<b>Expectations</b>	Attend and participate in online course, submit coursework				Course expectations with additional research review		Course expectations + develop a STEM Challenge that meets the rubric for high-quality STEM
<b>Due Date</b>	Sun 7/21		Sun 7/21		Sun 9/1		

**Course Description:** This *newly reimagined* STEM Educator Certificate Course focuses on the Foundations of Integrated STEM Education. The course will engage participants in unpacking the knowledge and skills required of STEM educators while adapting the content to their subject area, students and community. The course covers topics such as frameworks for high-quality STEM, standard alignment, the engineering design process, diversity and equity in STEM, real world connection and STEM pedagogy and will require educators to reflect on their current practices while setting personal goals for themselves and their students.

**Graduate Credit Add-On Option:** This course may be taken as a **3-graduate credit** course from WPI. In addition to the course level tasks, educators who sign up for this option will conduct a critical review of relevant research in STEM Education (*literature and guidance will be offered by the instructors*). **Note:** As part of WPI’s commitment to supporting full time PK-12 educators, the course is offered at a rate of \$500 per credit (total of \$1,515), which represents a significant discount of the regular WPI tuition rate + \$15 student fee.

**STEM Certificate Add-On Option:** If you choose this option, in addition to the course level tasks, you will demonstrate your understanding of the foundations of integrated STEM by developing a STEM Challenge (*includes teacher instructions, student instructions & rubric – templates and guidance are provided*). Additional 15 PDPs/1.5 CEUs will be awarded upon completion of STEM Challenge. **STEM Certificate from the STEM Education Center at WPI** awarded once the Challenge meets the rubric for high quality STEM.

Visit our [website](#) to **REGISTER** (Registration Opening in February)

For questions, contact Donna Taylor at [dltaylor@wpi.edu](mailto:dltaylor@wpi.edu)