Foundations of Integrated STEM Education

Course Description

This course awards:

► **PDP Certificate** – *awarded upon completion of the course and submission of coursework, 30 PDP's*

OR

► **Graduate Course Transcript** – *awarded upon completion of the course, submission of coursework & research review, 3 grad credits (in lieu of PDPs)*

The *Foundations of Integrated STEM Education* course engages participants in unpacking the knowledge and skills required of educators interested in 'STEMifying' their teaching (whether they teach a STEM course or would like to add a STEM component to their subject area). The course uncovers the relationship between integrated STEM and topics such as students' STEM identity, school and community, curriculum and pedagogy, and guides participants in the process of identifying and designing high-quality STEM experiences.

Specifically, participants will analyze frameworks for high-quality STEM education, STEM standards and practices, the engineering design process, phenomenon based teaching, and student-centered STEM pedagogy. Participating educators will reflect on their current practices while setting personal goals for themselves and their students.

This course can be taken for 30 PDPs, as a stand-alone 3-credit course, or as part of the Master's in Integrated STEM Education or the Graduate Certificate in STEM Education.

Course Information

PDP Option	Graduate Credit Option
• **Day:** Thursday • **Time:** 6:00-8:45 pm ET • **Dates:** January 14 – March 25, 2027; total of 10 sessions. *(No sessions* on 2/18, Feb break) • **Format:** Fully online via Zoom *(collaborative & interactive)* • **Registration Fees:** $940 *(Note: Limited Scholarships available; 50% discount for Worcester Public School educators)* • **PDPs/CEUs:** 30/3.0	• **Day:** Thursday • **Time:** 6:00-8:45 pm ET • **Dates:** January 14 – April 29, 2027; total of 14 sessions. *(No sessions* on 2/18, 4/22) • **Format:** Fully online via Zoom *(collaborative & interactive)* • **Registration Fees:** $1,825 *(discounted rate of $625 per graduate credit)* • **Graduate Credits:** 3

Click here to **REGISTER**

For questions, contact Mia Dubosarsky at mdubosarsky@wpi.edu

