Foundations of Integrated STEM Education

Course Description

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 introduces topics related to students' STEM identity, school and community,

This course awards:

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

OR

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

curriculum and pedagogy, so participants could identify 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 PDPs or as a 3-credit course as part of the Master's in Integrated STEM Education or the Graduate Certificate in Integrated STEM Education.

Course Information

PDP Option	Graduate Credit Option
• **Day:** Thursday • **Time:** 6:00-8:45 pm ET • **Dates:** January 16 – April 3, 2025; total of 10 sessions. *(No sessions* on 2/20, 3/13) • **Format:** Fully online via Zoom *(collaborative & interactive)* • **Registration Fees:** $850 *(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 16 – May 8, 2025; total of 14 sessions. *(No sessions* on 2/20, 3/13, 4/24) • **Format:** Fully online via Zoom *(collaborative & interactive)* • **Registration Fees:** $1,515 (includes a $15 student fee) • **Graduate Credits:** 3

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For questions, contact Donna Taylor at dltaylor@wpi.edu