

Offerings by The STEM Education Center at WPI

STEM Educator Certificate Course fully online – Register by Jan. 3

Six Saturdays in 2022: 1/8, 1/29, 2/12, 3/5, 3/26, 4/9

Join us for the 8th cohort of the STEM Educator Certificate Course, which covers everything STEM educators need to know and be able to do. The course guides educators (classroom teachers, coaches, and out-of-school-time educators) in the process of **developing a high-quality STEM challenge**, aligned with their **subject area** and **students' interests**, and supported by **community organizations**. The 11 course modules, scheduled over six Saturdays from January to April, cover topics such as the framework for high-quality STEM, standard-alignment, the engineering design process, diversity and equity in STEM, real world connection, and STEM pedagogy. Graduate credits available. **Learn more and register on [our webpage](#) before the course is full!** Contact [Donna](#) with any questions.

Customized PDs for this School Year

The [STEM Education Center at WPI](#) develops and conducts in-school professional development workshops for **PK-12 educators** to address the **specific needs of teachers, schools, districts, and programs**. [Visit our webpage](#) for details and **PD topic ideas**. Online or in-person PDs are both available. Contact [Donna](#) with questions or to arrange a free consultation via Zoom.

Wade Institute for Science Education

Focus Workshops

Connecting Science and Literacy in the Elementary Classroom

A Virtual Professional Learning Opportunity for Grades 3-5 Educators

Enhance your teaching strategies for integrating science and literacy in ways that foster critical thinking, academic language, and meaning making! Learn from the Wade Institute for Science Education and the EcoTarium how to shift your practice to teach your standards-aligned, grade-specific science content by using literature to spark minds-on, hands-on investigations that engage students in the Science and Engineering Practices. Identify ways to use books, productive talk, and science writing to teach science and participate in inquiry-based, phenomena-based investigations that explore engineering and life science topics through the lens of animal behavior. Connect your reading to real life and refine your scientific observation skills by examining the uniqueness of squirrels: the rodent you thought you knew. Return to your classroom with ideas and insights from peers along with a toolkit of 4 books and hands-on materials to immerse your students in science learning.

Registration Information:

Virtual Sessions: March 3rd, 10th, 17th and 24th, 2022

Cost: \$350 per person; \$300 per person if attending with at least one other teacher from your school district

PDPs: 10 PDPs are available

Songbirds and Stewardship: Engaging Your Students with the Science of Migration Through Place-Based Learning and Citizen Science

A Hybrid Professional Learning Opportunity for Grades 5-8 Educators

Learn how to engage your students in citizen science through a place-based approach. Get an introduction to the fundamentals of place-based learning, participate in citizen science projects at Manomet, and develop guidelines, strategies and lesson plans to support all students as you establish citizen science environmental monitoring projects relevant to your school community. Bring back to your classroom firsthand experience investigating the phenomena of bird migrations as well as a curriculum packet provided by the Wade Institute for Science Education and Manomet!

Virtual Sessions: Wednesday, April 27th and Wednesday, May 3rd, 2022

On-Site Session: Saturday, April 30th, 2022 at Manomet

Cost: \$350 per person; \$300 per person if attending with at least one other teacher from your school district

PDPs: 10 PDPs are available

Focus Workshops are multi-day professional learning opportunities that provide a deep dive into content and inquiry investigations focusing on one STEM discipline. Learn more and register online at <https://www.wadeinstitutema.org/focus-workshops!>
