

# STEM & PBL Curriculum

## Course Description

This course unpacks the elements of high-quality instructional materials (HQIMs), defined as curricular materials exhibiting a coherent sequence of lessons that target learning of grade-appropriate and standards-aligned skills and knowledge through research-based and inclusive instructional strategies.

Participants review, analyze, and identify high quality STEM curricula, and discuss differences between STEM and project-based learning (PBL) curricular materials. They also practice creating standard-aligned and student-centered learning outcomes with and without the use of **AI tools**, following the guidelines of the backwards design.

The final project includes the development/adaptation of a learner-centered integrated STEM/PBL project aligned with state standards and practices, with emphasis given to the iterative process of curriculum development.

The 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](#).

## 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 and submission of coursework & research review, 3 grad credits (in lieu of PDPs)

## Course Information

PDP Option	Graduate Credit Option
<ul style="list-style-type: none"><li>• <b>Day:</b> Tuesday</li><li>• <b>Time:</b> 6:00-8:45 pm ET</li><li>• <b>Dates:</b> January 13 – March 24, 2026; total of 10 sessions. (No sessions on 2/17, Feb break)</li><li>• <b>Format:</b> Fully <b>online via Zoom</b> (collaborative &amp; interactive)</li><li>• <b>Registration Fees:</b> \$850 (Note: Limited Scholarships available; 50% discount for Worcester Public School educators)</li><li>• <b>PDPs/CEUs:</b> 30/3.0</li></ul>	<ul style="list-style-type: none"><li>• <b>Day:</b> Tuesday</li><li>• <b>Time:</b> 6:00-8:45 pm ET</li><li>• <b>Dates:</b> January 13 – May 5, 2026; total of 14 sessions. (No sessions on 2/17, 3/31, 4/21)</li><li>• <b>Format:</b> Fully <b>online via Zoom</b> (collaborative &amp; interactive)</li><li>• <b>Registration Fees:</b> \$1,515 (includes a \$15 student fee)</li><li>• <b>Graduate Credits:</b> 3</li></ul>

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For questions, contact Mia Dubosarsky at [mdubosarsky@wpi.edu](mailto:mdubosarsky@wpi.edu)

