



Advancing Learning Through Evidence-Based STEM Teaching

AN OPEN ONLINE COURSE



- *Learn about evidence-based teaching strategies*
- *Explore ways to collect and act upon evidence of student learning*
- *Design a potential "Teaching as Research" project*
- *Engage with current and future STEM educators across the world*

WHAT WILL I LEARN?

Advancing Learning Through Evidence-Based STEM Teaching is an open online course that explores the concepts behind "teaching as research"—the deliberate, systematic, and reflective use of research methods to develop and implement teaching practices that advance the learning experiences and outcomes of both students and teachers. While this is an advanced course, there is no need for students to have completed any prerequisite courses to participate.

- Week 1 – Teaching as Research, Part 1
- Week 2 – Learning through Diversity
- Week 3 – Cooperative Learning, Peer Instruction
- Week 4 – Inquiry-Based Labs, Problem-Based Learning
- Week 5 – The Flipped Classroom
- Week 6 – Teaching as Research, Part 2
- Week 7 – Project Design
- Week 8 – Conclusion



HOW DO I ENROLL?

For more information about enrollment please visit stemteachingcourse.org

WHO ARE WE?

The CIRTL (Center for Integrative Research, Teaching & Learning) Network is a community of research universities whose mission is to enhance excellence in STEM undergraduate education through the development of a national faculty committed to implementing and advancing effective teaching practices for diverse learners as part of successful and varied professional careers. For more information about CIRTL and our mission please visit:

www.cirtl.net

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