

Advancing Learning through Evidence-Based STEM Teaching

a **MOOC**
for graduate students & postdocs

week

1

week

2**Practice and feedback: Peer instruction**

week

3**Practice and feedback: Problem-based learning****Thinking like a scientist: Inquiry-based labs**

week

4**Learning communities: Cooperative learning****Learning communities: Learning through diversity**

week

5**Course design: The flipped classroom****Principles and practices**

week

6

February 4 - March 29, 2019

Sponsored by the CIRT L Network and CIRT L at Cornell

week

7

This Massive Open Online Course (MOOC) through EdX will provide aspiring and current college faculty in the STEM disciplines (science, technology, engineering, and mathematics) with effective teaching strategies and the evidence that supports them. Participants will learn how to engage students in active learning, help students think more like experts, turn their classrooms into learning communities, and use approaches like flipped classrooms.



Information session with lunch: January 28 at 11:45 am in 341 Caldwell Hall

Advancing Learning through Evidence-Based STEM Teaching

Dive deeper into effective teaching strategies and the evidence that supports them



Instructors

Derek Bruff and **Cynthia Brame**, Vanderbilt University, **Rique Campa**, Michigan State University, **Bennett Goldberg**, Boston University, **Colleen McLinn**, Cornell University, and **Monica Carter**, University of Buffalo.

Certificates

Participants who complete the course will receive a completion letter from the instructors. Additionally, assignments for this MOOC fulfill the major requirements of the CIRTl Associate Level Certificate, recognized nationwide for excellence in STEM teaching.

Discussions

Want some motivation to complete the course, or value opportunities for further in-person discussion of course ideas with colleagues? CIRTl at Cornell will be helping form learning communities that meet weekly while the course is running. We hope you will join in as a participant or group leader. Discussion leaders will receive access to instructor guides and a modest budget for meeting refreshments and expenses. We can help you advertise group meetings to potential participants. Please contact us if you are interested.

Contact

Colleen McLinn, Executive Director | 325 Caldwell Hall | 607-255-2030 | cirtl@cornell.edu
cirtl.cornell.edu | [@CUFutureFaculty](https://twitter.com/CUFutureFaculty) | STEMteachingcourse.org

