

Pathways to Scientific Teaching

A certificate-awarding course on learner-centered teaching

Part I: Pedagogy Seminar (2/26 and 2/27 9AM-1PM, Stephens Lounge, lunch provided)

Part II: Lesson Plan Practice and Peer-Feedback Sessions (date/location TBD)

CERTIFICATE OPPORTUNITY: Participants can attend either part separately, both those who attend both will earn a Certificate in Learner-Centered Teaching

Who should enroll? Postdoctoral scholars and visiting scholars from any discipline who are interested in how to become an effective instructor.

Registration: Registration is limited to 40 attendees. Please register using <https://tinyurl.com/ua5d5rk>

INSTRUCTOR: Diane Ebert-May (*Distinguished Professor, Dept of Plant Biology, Michigan State University, Visiting Scholar, UCSD*) ebertmay@msu.edu

What is scientific teaching?: Scientific teaching integrates the research model into learner-centered teaching approach. In this course, you will learn to develop and implement state-of-the-art learner-centered instructional materials and teaching strategies for both large- and small-enrollment undergraduate courses. You will also use scientific teaching to actively engage in evidence-based instructional methods to help all students learn core disciplinary ideas by using science practices which are shown to be effective in promoting the students in not only what students learn, but how they use that knowledge. This seminar will use biology course material as an example but anyone from any discipline can benefit from this course.

What will you gain from the course?

The overall goal of the course is to help you launch and/or build the teaching component of your career by:-

- Gaining cutting-edge knowledge and experience about how to develop a learner-centered course vs. a traditional lecture course.
- Developing an instructional lesson and gain experience with implementing evidence-based pedagogy for teaching. This is intended to contribute to your preparation as a future faculty member and to prepare for interviews for positions that include teaching and require teaching demonstrations.
- Receiving peer feedback on your evidence-based instructional lesson.
- Creating and engaging with a teaching community that will mentor and support your teaching.
- Earning a certificate from VSPA office that is citable on your resume.

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