

BIOLOGICAL SCIENCES

Biology Education Seminar Series

Friday Oct 13th 11:30 am – 12:30 pm

Zoom link: <https://purdue-edu.zoom.us/j/91764754503>



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The impact of high structure course design across courses, disciplines, and universities

Calls for using evidence-based pedagogies have been expanding so as to improve student learning and outcomes. High structure courses are designed to do just that as they prepare students to be actively engaged in the learning process via pre-class content acquisition and assessment, in-class active learning and problem solving, after-class review and assessment, and frequent summative exams or quizzes. Significant literature has showed high structure courses in a variety of STEM disciplines to be efficacious as students show increased performance, achievement gaps are narrowed or closed, and students feel more belonging. This talk will synthesize research done over the past eight years from two different universities (UC Irvine and the Colorado School of Mines), three different disciplines (introductory biology, anatomy and physiology, and chemical engineering), and many different types of courses that served thousands of students. Practical tips will be provided for instructors who want to adapt high structure principles for their own courses.

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