

Electronic Seminar on Mathematics Education

Active Calculus

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[Several recent EMES presentations](#) have focused on active or inquiry-based learning (such as those by Angie Hodge, Darryl Yong, Robin Pemantle, David Pengelley). Indeed, it is well-established that active learning offers, on average, significant benefits to students. At the same time, implementing active pedagogy effectively is challenging on several levels, including achieving student buy-in, developing engaging investigations for students, and addressing what Stan Yoshinobu and Matthew Jones have called “the coverage issue.”

In this seminar, I will share some samples from my free and open-source text, [Active Calculus](#), and demonstrate some of the features of the [HTML version of the text](#). In addition, our practice-focused discussion will center on how I structure my calculus courses around active learning: daily preparation assignments, in-class activities, computer laboratory investigations, and outside-of-class WeBWork and writing assignments. Seminar participants will be invited to share their experiences and questions regarding methods of interactive engagement in calculus and more. Following the seminar, I’ll be glad to share any of the discussed supporting materials upon request.

Oct 2, 2018
12:00 - 1:00 ET

To join the seminar, go to
<https://zoom.us/j/8803591328>

For more information on EMES:
[http://math.mit.edu/
seminars/emes/](http://math.mit.edu/seminars/emes/)