

Electronic Seminar on Mathematics Education

A Fun, Engaging, and Effective Approach to Teaching Calculus

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At the University of Toronto Mississauga we offer Calculus for Life Science courses, taken by more than 600 students each year. The course is taught in large lecture sections with about 150 students in each. In 2018 we redesigned and converted the course into an active-learning course. Students prepare in advance, and then participate in in-class polling and group activities, which are accompanied by discussions and short lectures. This approach turned out to be more effective than the traditional lecture-based method. Moreover, the active-learning design can be

easily transferred to online environments. In this session I will demonstrate an actual classroom session, followed by Q&A and discussion.

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Zoom link: <https://cornell.zoom.us/j/92078267146>, passcode esme

For more information on ESME: <http://math.mit.edu/seminars/esme/>

