

1145-H5-2512      **Jody Sorensen\*** (sorensj1@augsborg.edu). *A Renovated Calculus Class: Active and Applied.*

Augsburg University is part of the SUMMIT-P (Synergistic Undergraduate Mathematics via Multi-institutional Interdisciplinary Teaching Partnerships) NSF IUSE grant, for which we are renovating our Calculus sequence in collaboration with partner disciplines to better suit the needs of our students. Our calculus courses include students from all majors, including the STEM disciplines of Biology, Chemistry, Computer Science, Mathematics, and Physics. The changes enacted in Calculus I in Fall 2018 include:

- the mathematical content: more differential equations, some multivariable ideas, less on limits
- the pedagogy: a structure that embraces two types of active learning in class every day
- applications: every day includes a minimum of one problem done in an applied context, including STEM disciplines and Business/Economics

As an example of the changes we've made I'll discuss a typical day of class which begins with an activity discussing derivatives in contexts from both Biology/Medicine and Physics. (Received September 25, 2018)