

1154-G1-2204 **Jody Sorensen*** (sorensj1@augsbu.edu) and **Suzanne Dorée** (doree@augsbu.edu).
Creating Calculus Activities through Interdisciplinary Collaborations.

As part of the national SUMMIT-P project, Augsburg University has been renovating its calculus sequence to include more authentic applications in order to engage students from across the university. We restructured Calculus I and II to include daily inquiry-based activities as well as weekly labs. We met with partner discipline colleagues to discuss how they use Calculus in their courses, which led to the creation of several activities. This talk will describe our process and detail several examples, including Lynx-Hare differential equations modeling with original sources (Ecology), adoption of trends to study logistic growth (Social Sciences), and turning the Lennard-Jones potential from Chemistry into a love story. We developed other activities from textbook examples, and then had partner discipline colleagues read them for authenticity. We are tracking student interest in and enjoyment of our courses. This material is based upon work supported by the National Science Foundation under NSF award number 1625142. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation. (Received September 17, 2019)