

1096-E1-623 **Joseph Petrillo*** (petrillo@alfred.edu). *Flipping the Calculus Classroom*.

The Alfred University Calculus Initiative (AUCI) is a flipped calculus course that combines a new and strategic curriculum with an active-learning classroom, short video lessons, and online quizzes and homework. The goal of the AUCI is to improve understanding of and success in first-semester calculus while maintaining the level of rigor and breadth required for more advanced courses. This project is supported by the National Science Foundation under grant number DUE-1140437.

In this talk, we will provide descriptions and results of past and ongoing controlled studies that focus on the effectiveness of the new curriculum and the flipped classroom. In particular, we will report on data analysis of final exam grades, survey responses, and results of the Calculus Concepts Inventory. (Received September 08, 2013)