

1106-VE-1832 **Peter T. Olszewski*** (pto2@psu.edu), 4205 College Drive, Erie, PA 16563. *Did you do your homework?* Preliminary report.

The mathematics service courses at Penn State Erie, The Behrend College, have faced the challenge of students not completing homework assignments, resulting in poor grades and mid-semester class withdrawal. It is often the case that students will not do homework without an incentive, as evidenced by course evaluations suggesting that homework should count as part of the class grade. In the fall 2014 semester, a pilot program was approved to teach Math 110: Techniques of Calculus I, a terminal mathematics course for our business majors, using online homework software to motivate homework completion. The goal of this pilot study was three-fold: (a) to determine if an online homework software package would help improve student performance, (b) to see if the inclusion of online homework would free class time for the instructor to present material more rigorously along with more applications, and (c) to assess if there would be enough support among faculty and administrators to convert one of our large unoccupied class spaces in the School of Science into a mathematics laboratory geared to facilitate computer-based homework completion. In this talk, I will share my findings, share plans for the future laboratory, and discuss how to most effectively use such a space. (Received September 15, 2014)