

STLF Report to CWSEI and Mathematics Department

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Having just started as an STLF, I have spent the majority of my time so far familiarizing myself with various systems and tools, including WebWork, Connect, Basecamp, COPUS and others as well as starting on readings related to education research.

Current/future projects.

1. **BST.** This project, lead by Mark Mac Lean, involves running BST in January 2014 as an assignment in Calculus I, analyzing the results using various measures, developing a practice test and support materials to direct students to for precalculus review. Long term, the plan is to introduce BST as a placement test for all Calculus I courses in Fall 2015. While I have not been able to meet with Mark since coming here, I have been acquiring knowledge of the current state of affairs. It appears that work has already been done on this project by different people at different times and some of my time will be spent on putting everything together. This term, I am analyzing the results of the first Math 102 assignment that is based on BST. I am also going to analyze the test itself to examine its comprehensiveness and whether we can use (or adopt) review material already in place.
2. **Math 110.** Over the next two terms, I am working with Costanza Piccolo on Math 110. I am developing interactive engagements materials to be used in the classroom (including worksheets and clicker questions) as well as running a demographics and study habits survey. I am also planning on analyzing the statistics from online homeworks, written homeworks and quizzes as final performance predictors. Finally, I will be surveying students to find out whether the current format of workshops works for them.
3. **Series.** This project involves developing diagnostic test to assess the material students retain from the series section in Calculus II. I plan to talking to Math 200 instructors to figure out exactly what students need to know upon entering the course and how best to address their lack of retention of the material. An interesting thing I want to consider here is also the correlation between weak series background and the final Math 200 performance.