

Using Data to Improve a College Math Curriculum and Equity Preview S116 Jack Rotman

A variety of tools (data warehouse, statistical packages) make it possible for math faculty to explore extensive data sets in powerful ways. This session will show faculty several possible ways to examine such data sets in order to approximate answers to questions important to faculty:

1. Does the prerequisite course adequately prepare students?
2. Is the placement cutoff where it should be?
3. Are there significant variations in results by (A) delivery method of class and/or (B) instructor?
4. Do all students with similar backgrounds equally likely to pass a given class?
5. How close to 'equity' are our classes, in service of upward mobility?

The LCC math department has been using data to analyze our work and improve the curriculum for most of the past 45 years. This session focuses on our use of data at the level of pre-calculus or college algebra, using data variables that are often available at all of our institutions. Some of the data analysis can be done with a spreadsheet, while other processes involve the use of statistical software.

Sample data displays:



