

1086-VE-2436 **Jacob Sloujitel*** (jsloujit@globe.edu), 500 7th Avenue, New York, NY 10018. *Students' difficulties for studying undergraduate mathematics*. Preliminary report.

This presentation describes the results of research on the learning difficulties in statistics, discrete mathematics, pre-calculus, and calculus. Statistical analysis of student scores in the pre/post tests shows significant improvement for solving equations, constructing frequency distributions, calculating measures of central tendency, finding derivatives, evaluating integrals. Students have difficulties for understanding the graph theory, decision making process, hypothesis testing, optimization procedure. The methods for overcoming these problems are proposed in the presentation. (Received September 25, 2012)