

1014-G1-1751 **Andrew G Glen***, Dept of Mathematical Sciences, USMA, West Point, NY 10996. *Teaching Calculus Based Probability and Statistics with Technology*. Preliminary report.

A methodology of teaching a calculus based probability and statistics course with heavy emphasis on problem solving is presented. Mathematica and Excel are used to show students how to create their own probabilistic software. Charts, tables and pre-formed software packages are no longer needed and students see how probabilities, moments, percentiles, CDFs, IDFs, and so forth are found from first principles for any distribution. Assessment ideas are discussed to contrast this method with prior, more traditional methods. (Received September 29, 2005)