

1056-Z1-1241 **Patti Frazer Lock*** (plock@stlawu.edu), Dept of Math, CS, and Statistics, St. Lawrence University, Canton, NY 13617. *Statistics-Based Calculus?*

We often hear the argument that mathematics majors and/or statistics majors should take an introductory statistics course that is calculus-based. It is helpful for students to see the interplay between the two subjects: using integrals to calculate probabilities from a density function or a cumulative distribution function, for example. Where should students see this connection? The 100-level statistics course focuses on applied data analysis while the 100-level calculus course focuses on derivatives and integrals and their applications. This talk will argue that probability and statistics offers another important application that should be taught more frequently in our calculus courses, freeing the introductory statistics course to focus on applied data analysis – even for math majors. (Received September 21, 2009)