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Julie M Clark* (jclark@hollins.edu), 8003 Fishburn Drive, Hollins University, Roanoke, VA 24020. *Investigating Statistical Concepts, Applications and Methods using Minitab.*

This presentation will describe the use of Minitab in an introductory (mathematical intensive major-based) statistics course that is part of a randomization-based curriculum using a text written by Chance & Rossman. The approach emphasizes the entire process of statistical investigations, from design of data collection through statistical inference, throughout the course. The inference techniques are based on randomness introduced in data collection, specifically randomization and permutation tests, rather than on normal-based probability models. The goal is to lead students to develop a deeper understanding of fundamental concepts of statistical inference and of the process through which statisticians investigate research questions by collecting, analyzing, and drawing conclusions from data. Real data from genuine studies motivates all of the activities, which make extensive use of technology, in this case, Minitab. (Received September 10, 2013)