1023-J5-1784   **Mark H Inlow*** (`inlow@rose-hulman.edu`), Rose-Hulman Institute of Technology, CM 143, 5500 Wabash Avenue, Terre Haute, IN 47803. *Graphical Methods for Teaching and Assessing the IID Assumption.*

Essentially all statistical procedures taught in introductory statistics require IID data, i.e., data consisting of independent and identically distributed observations. In spite of the centrality of this assumption, especially for engineers and scientists who often encounter violations of it, most introductory statistics courses do no provide students with an adequate appreciation and understanding of this assumption nor do they provide students tools for assessing it. In this talk we present graphical methods (new and old) for checking the IID assumption. We also provide a new approach whereby these methods are revisited and used by students in various contexts throughout the course. (Received September 26, 2006)