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Michael Booty* (booty@njit.edu), Mathematical Sciences Department, New Jersey Institute of Technology, University Heights, Newark, NJ 07102. *Experiments from a Capstone Laboratory at New Jersey Institute of Technology.*

Sample experiments that have been used as part of a senior-level undergraduate Capstone course are presented, together with a brief outline of the associated mathematical models and the techniques that can be used to solve them. Also included are comments on what educational or other value both the instructor and the students believe was to be found in each case. (Received September 22, 2009)