1125-J5-1777 **Teresa D Magnus*** (tmagnus@rivier.edu), Dept. of Mathematics and Computer Science, Rivier University, 420 S. Main St., Nashua, NH 03060. Less is More: Mathematical Modeling Experiences for non-STEM Majors.

Mathematical modeling exposes students to how mathematics can be used to solve real-world, open-ended problems. This talk will share examples of some simply-stated questions which encourage students to make assumptions and choose their own strategies to solve a problem. Although the mathematical tools are not highly sophisticated, the lively mathematical discussions that ensue during the solving process and the refinement of solutions can lead to a deeper understanding of mathematics and dispel misconceptions about mathematics. No techniques or examples are presented in advance by the instructor. Instead the focus is on having students read and interpret the problem and determine the tools available to them. Less is provided, but more is gained. (Received September 19, 2016)