

1106-F5-2360 **Teresa D Magnus*** (tmagnus@rivier.edu), Dept. of Mathematics and Computer Science,
Rivier University, 420 S. Main Street, Nashua, NH 03060. *Exploring Debt through Spreadsheets,
Graphs, and Functions*. Preliminary report.

A Mathematical Problem Solving and Modeling course presents an ideal opportunity to expose mathematics majors and minors to quantitative literacy. While students may be familiar with the formulas for computing savings and debt at a given time t , working with Excel enables them to view what happens month by month to the account both numerically and graphically. The effects of various parameters become readily apparent. Following the lab, students apply their knowledge of functions and calculus as they explore the development of closed formulas. (Received September 16, 2014)