

1125-H5-112 **Kristen Mazur*** (kmazur@elon.edu). *A Basic Approach to Creating Interactive Calculus Lessons in Mathematica.*

Mathematica is a powerful computational tool and has the potential to also be a powerful teaching tool. However, effective integration of technology in the classroom is challenging, and bringing Mathematica into a calculus lesson can be daunting. In this talk I will discuss Mathematica-based lesson templates that allow students to explore concepts, perform calculations and take notes in an easy-to-use and easy-to-create format. These templates not only reduce technology anxiety for both students and instructors, they also become cohesive notes that students can revisit after class. Moreover, the templates support discovery-based and active learning. I will demonstrate the templates themselves and how to create one from a blank Mathematica file. I will also discuss some advantages and disadvantages for both students and instructors. (Received August 01, 2016)