

1125-97-1657      **J Todd Lee\*** (tlee@elon.edu), Campus Box 2320, Mathematics and Statistics, Elon, NC 27713.  
*Flipped Mastery Cycle Learning of Calculus II using a Plethora of Tools.*

The type and variety of content in a traditional American collegiate Calculus II course suggests a best-practice pedagogy like an emporium model or flipped-mastery-cycle (FMC) model. At a university where professor-student engagement is highly prized, a FMC based pedagogy is a natural choice to allow for just-in-time help and discussions between the professor and one or more students. Such a model can also be more robust in “covering” material that still exists with high inertia against change, and but still include the almost necessary skills in scripting in a professional computational software environment. With the included required familiarity with the use of Mathematica as a computational, visualization and communication tool, the number of technology tools in this course is rather high. Presentation will include sample screencastings along with the equipment and e-tools used, as well as demonstrations of the LMS and WebAssign setups and the work flow used for the course. (Received September 18, 2016)