

1135-G5-401 **Ivan Dungan*** (gregory.dungan@usma.edu) and **Randy Boucher** (randy.boucher@usma.edu).
An Alternative Calculus Sequencing for an Undergraduate Core Mathematics Program.

We will discuss a calculus sequencing where an introductory ordinary differential equations course is introduced immediately after a single variable calculus course. This is a slight variation of the usual sequencing of calculus courses, but we propose that the benefits are great especially when modeling real-world phenomena is integrated into the course. We will highlight these benefits which give students an early understanding of the power of mathematics in the academic and professional world with hope to create more math majors and in general, more STEM graduates. (Received August 31, 2017)