

1096-VE-2203      **Jason Howell\*** ([howelljs@cofc.edu](mailto:howelljs@cofc.edu)). *An Early Course on Modeling and Computation with Differential Equations.*

Traditionally, students gain minimal exposure to the modeling and solution of differential equations in first and second semester Calculus courses. In this talk I will discuss the design, implementation, and execution of a course in differential equations that can be taught after first-semester introductory differential and integral Calculus. The course is motivated by mathematical modeling and gives students early experience in using computational tools to compute approximate solutions to systems of differential equations. Another main focus of the course was on developing students' technical communication skills by requiring regular writing assignments and a final project in the style of a journal article and conference presentation (Received September 17, 2013)