

1125-Q1-3011 **Douglas Norton*** (douglas.norton@villanova.edu), Department of Mathematics and Statistics, Villanova University, 800 Lancaster Avenue, Villanova, PA 19085. *A Modeling Course for Majors in the Life Sciences.*

The second iteration of a new course on mathematical modeling for majors in Biology and in Cognitive and Behavioral Neurosciences at Villanova University will have just been completed as the Joint Math Meetings begin. Students with Calculus experience, either from high school or in our newly redesigned one-semester Biocalculus course, have had the option to take a new course that consists of ideas of mathematical modeling applied across a range of areas of mathematics as well as in a variety of biological contexts. The course culminates in a project from each student at the intersection of mathematical and biological areas they find interesting. In this presentation, we discuss the original edition of the course as well as the modifications introduced into the second edition based on input from three sources: student feedback from the first version of the course; experiences in a Faculty Mentoring Network on Bringing Research Data into Undergraduate Classrooms, sponsored by The Ecological Society of America (ESA) and Quantitative Undergraduate Biology Education Synthesis (QUBES); and participation in the Quantitative Biology Summer Institute, sponsored by the National Academies and others. (Received September 20, 2016)