1125-Q1-415 **Timothy D. Comar*** (tcomar@ben.edu). Getting Biocalculus Students to Apply Mathematics to Biology Through Active Learning.

The two semester course sequence in biocalculus (calculus for the life sciences) is an great starting place for students in the life sciences to seriously begin applying mathematical and computational techniques to investigating biological problems and phenomena. This talk discusses a variety of active learning activies in the course sequence that lead students to develop the skills and understanding needed to be able to use mathematics to address biological problems. With a broad, underlying theme of population dynamics, the activities take the students from investigating the relationships of simple dynamical systems to data sets and exploring simple models to reading journal articles, working through computer laboratory projects, and eventually leading to the detailed study of a sophisticated model in a published journal article. Students with this preparation subsequently have completed successful research projects in mathematical biology as well as majors and research projects in related scientific disciplines. (Received September 01, 2016)