

1116-K1-363

Eric Alan Eager* (eeager@uwlax.edu), 1725 State St., La Crosse, WI 54601, and **James Peirce** and **Patrick Barlow**. *Math Bio or BioMath? Flipping the Mathematical Biological Classroom*.

Mathematical and computational methods are vital to many areas of contemporary biological research, such as genomics, molecular modeling, structural biology, ecology, evolutionary biology, neurobiology, and systems biology. As such, the contemporary life science student needs to be exposed to, if not well-versed in, many of the techniques of mathematical modeling to keep pace. However, traditional ways of teaching mathematics may not be able to provide these students with the skills and experiences necessary to effectively use modeling in their careers as practitioners and/or researchers, as these skills and experiences (interdisciplinary collaboration, for example) are difficult to teach using traditional, lecture-style approaches. In this talk I describe the development, implementation and assessment of a flipped-classroom approach to teaching a sophomore-level mathematical models in biology course for life science majors. (Received August 27, 2015)