

1046-Y1-1606 **Jeff R Knisley*** (knisleyj@etsu.edu), Box 70663, Dept. of Math, East Tennessee State University, Johnson City, TN 37614-0663. *Active Learning in the Symbiosis Project.*

The Symbiosis project is an HHMI-funded response to the BIO2010 report that integrates biology, calculus, and statistics within an introductory laboratory science course. Active learning and inquiry-based investigation are featured throughout the curriculum, often as a means of introducing, developing, and assessing concepts in calculus and statistics. We describe several of the tools and techniques used to promote active learning in the Symbiosis project, with an emphasis on how scientific investigation can motivate mathematical development and how mathematical modeling and statistical inference can shape scientific pursuits. (Received September 16, 2008)