

1035-B1-576

Lisa Townsley* (LTownsley@ben.edu). *"A Joint Computer Lab can Serve Both Biocalculus and Traditional Calculus Students"*.

At Benedictine University, we offer one calculus laboratory course for students co-registered for either Biocalculus or traditional calculus. The lecture courses are reformulated to emphasize applications such as qualitative analysis of differential equations, and the co-requisite laboratory enhances this perspective. This talk will begin with a brief outline of the lab content covered. We discuss some laboratory projects that reinforce biological applications: using locally collected data on tree breadth, and running Euler's method on the logistic differential equation, and show how both types of students benefit from this experience. We also mention a few applications from traditional calculus, and the resulting benefits to both students. Finally, we share some assessment data that we are collecting on both types of students. (Received September 11, 2007)