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5700 College RD, Lisle, IL 60091. *Computer Laboratory Activities for Biocalculus Courses.*

The biocalculus courses at Benedictine University use a threefold approach integrating mathematics, biology, and the use of computational software to investigate biologically oriented problems. The courses now integrate the computer laboratory component with the lecture component rather than have separate laboratory courses. The courses meet in computer laboratory classrooms several times a week and provide a more flexible format for incorporating the computational activities. We demonstrate several activities using either Maple or Excel to explore biological problems and the mathematics needed to address biological problems. We also discuss how these projects are used in the courses, how they can enhance the learning process, and how they can be adapted to other applications. (Received September 16, 2014)