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Calculus Laboratory: A Companion Course to the Lecture. Preliminary report.

The first semester calculus course at St. Edward's University has a companion laboratory course. This one-credit workshop-style course serves to further and more deeply explore concepts and techniques discussed in the lecture. Major components of the course are discovery-based activities, skill verification exercises, and use of software geared for mathematical use. Students also complete projects to investigate the uses of calculus to applied problems. We shall discuss the genesis, motivation, objectives, and structure of the course, as well as the challenges in implementing it. (Received September 22, 2009)