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Divya Vernerey, Rebecca Machen and Harrison E. Stalvey*

(harrison.stalvey@colorado.edu). *Developing an Active Learning Environment in Precalculus.*

The notion of active learning is gradually becoming fundamental in the nature of mathematics courses at the undergraduate level. Here, we will discuss how instruction has evolved into active learning in the mathematics courses for STEM majors at the University of Colorado Boulder. Our presentation will focus on our recently redesigned Precalculus course and its recently developed corequisite lab. We will present examples of various group activities, each designed with particular goals in mind, such as fostering the development of students' conceptual knowledge, exposing students to applications, and engaging students in metacognition. Additionally, connections to established learning theories will be made. (Received January 16, 2017)