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Sarah E. Eichhorn* (sfrey@math.uci.edu), 340 Rowland Hall, Department of Mathematics, University of California, Irvine, Irvine, CA 92697, and **Rachel Lehman**. *An Online Pre-Calculus Course using ALEKS*.

UC Irvine recently undertook the creation of an efficient, scalable, portable and rigorous pre-calculus course. The course utilizes ALEKS software to allow each student an asynchronous learning experience focused on working on exactly the topics they have not yet mastered and are ready to learn. For this course we have created over 150 short video lecturettes which are now openly available online.

In this talk, we will discuss data on student performance in traditional vs. online implementations of this course. We will also share some of the challenges associated with online instructor-student and student-student mathematics discussions and our implementations. (Received September 26, 2012)