

1014-ZA-293

Janet Bowers* (Jbowers@math.sdsu.edu), SDSU Dept. of Mathematics and Statistics, 5500 Campanile Drive, MC 7720, San Diego, CA 92182. *Engaging Preservice Teachers in Online Learning: Interactive Video and Active Discussions*. Preliminary report.

According to the Conference Board of Mathematical Sciences, "Prospective teachers at all levels need experiences in using technology. ... These experiences should be designed with two goals in mind: the short-term goal of helping prospective teachers to effectively use current technology in teaching; and the long-term goal of enabling them to become thoughtful and effective in choosing and using educational technology" (CBMS, 2001). To address these two goals, mathematics educators at San Diego State University have created an online course that highlights ways to integrate The Geometer's Sketchpad and Excel into the teaching of high school mathematics. The course includes videos of real teachers using technology and interactive tutorials that demonstrate ways that the students can use technology to construct models, investigate connections between the mathematical topics they will teach, and develop lesson plans that transform static textbook lessons into dynamic activities. This presentation will describe the use of Camtasia Studio for developing interactive tutorial videos and describe some of the effective (and not so effective) discussion board topics that have engaged prospective teachers in active debates. (Received September 06, 2005)