

1086-VR-2629

Michael D Bice* (mbice@csustan.edu), Mathematics Department, California State University, Stanislaus, 1 University Circle, Turlock, CA 95380, and **Heather A Coughlin** (hcoughlin@csustan.edu), Mathematics Department, California State University, Stanislaus, 1 University Circle, Turlock, CA 95380. *Teaching a Course in Mathematical Communication for Prospective High School Mathematics Teachers, Preliminary Report.* Preliminary report.

At California State University, Stanislaus, the Mathematics Department offers a Subject Matter Preparation Program designed to train prospective high school mathematics teachers in content and in problem solving. In their senior year, students complete a capstone course entitled Senior Seminar in Mathematics. The primary focus of this class is to develop and improve mathematical communication in various forms and situations. Students write and present papers about problem solving techniques in the high school curriculum, and relate these techniques to the college-level mathematics studied in their undergraduate careers. Moreover, students provide critiques of journal articles found in mathematics education literature, and work in small groups to analyze and provide solutions to open-ended mathematical modeling problems. In this session, we will share our experiences with this course, discuss what has been accomplished and how our work has been influenced by the 2012 MAA PREP Workshop on TEMPT, and present future directions we wish to pursue in developing students' mathematical communication skills. (Received September 25, 2012)