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Preparing Prospective Teachers to Teach AP Calculus. Preliminary report.

The mathematics department at Louisiana State University (as part of its new *Geaux Teach program*) has implemented a new capstone course for prospective high school teachers designed to prepare them to teach Calculus AP. The course centers around the task of teaching a business calculus class to undergraduate students—each prospective teacher works with a graduate student and several math professors in a vertically integrated way to prepare and give lessons in a recitation section. In addition to the content goals, the course is designed to help prospective teachers: (1) see what is expected of their future high school students in college (from a teacher’s perspective) and (2) to gain confidence in teaching their own calculus AP course in their high school. In this talk I will give some insights on how to implement such a course and what we have learned from running the course over the past year. (Received September 08, 2006)