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Greisy Winicki Landman* (greisyw@csupomona.edu), Dept of Mathematics and Statistics - Cal Poly, 3801 W Temple Ave, Pomona, CA 91768. *Our capstone course - principles and tasks*. Preliminary report.

Our capstone course is a year-long experience developed by the math-educators at the department of mathematics. Its main purpose was to create a bridge between the content of the courses of the major in mathematics and the credential process required by the state of California. During this course the students: a) create robust connections between the concepts and skills learned during their math courses and the ones emphasized in secondary school mathematics; b) develop a deeper understanding of the role played by the structure (definitions, notation, theorems, problems, etc) of the topics taught in their teaching; c) experience genuine discovery learning in significant mathematics by using manipulatives and technology; d) read articles from different mathematics journals (College Mathematics Journal, Mathematics Magazine, Primus, etc), journals for math teachers (Mathematics Teacher, Mathematics in School, Communicator) and write reflective entries about their experience; e) design a game for school students and implement them in three different schools during the academic year. Specific examples of the tasks assigned will be shared. (Received August 12, 2011)