

1086-D1-1901 **Hayden Schaeffer***, UCLA Mathematics Department, Box 951555, Los Angeles, CA 90095.
Writing and Mathematics.

In the style of a "writing across the curriculum" pedagogy, this course combines a rigorous mathematics curriculum with a small discussion-based seminar. The material is a mixture of mathematics, group activities through physical experiments, and writing assignments. The focus is on both learning and communicating mathematics through discussions, presentations, and expository papers. The action of writing a paper is analogous in many ways to a proof: one needs to set up a formal argument in support of a main claim. The process itself - specifically conceptualizing, constructing, and revising - are skills that re-enforce a standard mathematics curriculum. For mathematics and science majors, the course teaches them rigorous mathematics while improving their interpersonal, communication, and writing skills. This provides a broader education for the students while also making them more marketable to both academia and industry. For students in non-technical majors, the course provides an opportunity to introduce students to mathematics who may not normally choose to do so due to their particular fears, anxieties, or lack of interest. (Received September 24, 2012)