

Henry Adams
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Contributions to Diversity

I am interested in promoting diversity in mathematics. During the summer of 2012 I was the Math Instructor for the Stanford Summer Engineering Academy (SSEA). SSEA is a four week on-campus academy for 50 newly admitted Stanford freshmen who are starting college in the fall. The students take a class in mathematics, take a class in computer science, and attend lectures from top science and engineering professors advertising their field. The goal of SSEA is to attract a diverse student body to science and engineering majors at Stanford, and the majority of the attendees are women or minority students.

As the Math Instructor for SSEA, I taught a course on single-variable calculus and a course on linear algebra. Each course met three times a week, and I organized a group of four Teaching Assistants who led section two times a week. I created a diagnostic placement test, weekly homework, extra challenge problems (including math riddles), and a final exam for each course. A big part of my job was to advise each student which math class they should take next. I believe that I helped give my students the tools and the confidence necessary to succeed in their next math class at Stanford.

The website below contains links to my calculus and linear algebra classes and to the SSEA program itself.

<http://www.stanford.edu/~henrya/ssea/>

I noticed that UCSB has a similar program, the California Louis Stokes Alliance for Minority Participation (CAMP) in Science, Engineering and Mathematics. The goal of CAMP is to provide support and advancement opportunities to ethnically underrepresented students seeking bachelor's degrees in science or engineering. I would be interested in participating in CAMP. In particular, I have given expository research talks at the Stanford University Mathematical Organization Speaker Series and the Stanford University Mathematics Camp Guest Lecture Series, and I would enjoy talking to CAMP students about interdisciplinary research opportunities in mathematics.

Thank you,
Henry Adams