

1114-00-141 **Arlo Caine***, Cal Poly Pomona, Mathematics, 3801 W. Temple Ave., 8-113, Pomona, CA 91786.
*Build up or Dive In? Two approaches to Linear Algebra/Advanced Calculus for the CSU PUMP
Summer Program.*

Cal Poly Pomona hosted the Summer Program for the CSU Alliance for PUMP (Preparing Undergraduates through Mentoring towards PhDs) in summers '14 and '15. Each year, 24 math majors from the alliance campuses were selected to: live on campus for the month of July; attend advanced courses and problem sessions 6 days per week, working collaboratively on problems and projects to form a community; and become informed by speakers about the culture of advanced study, the excitement of mathematical discovery, and career paths in mathematics. In this talk, I will compare my two different approaches to the Linear Algebra/Advanced Calculus course and offer some personal reflections on the role of this outreach program in my own growth as a mathematician. (Received August 21, 2015)