

December 16, 2010

From: Mallory Newell, College Researcher, De Anza College

To: Christina Espinosa-Pieb and Jerry Rosenberg

Re: Representation of Targeted Groups in Pre-Collegiate Mathematics Courses

Targeted students (Hispanic, African Ancestry, Pacific Islander and Filipino) were compared to all other ethnic groups of students at De Anza College enrolled in Math 210, 212, and 114 between fall 2007 and spring 2010. Success rates for students are calculated on A, B, C, and P, non success rates include D, F, NP and I, and withdraw rates include W. The Targeted Students population resulted in 8,027 students and the Other Students population resulted in 13,715 students for a total of 21,742 students over the time period.

- Between fall 2007 and spring 2010, 37% of students enrolled in pre-collegiate math courses were from the targeted student population (see figure 1).
- When compared to the fall 2009 student population at De Anza College, targeted students make up 21% of the total student population and 37% of the pre-collegiate math population (see figure 2).
- When analyzing the targeted populations' success rate, the average success rate for targeted students is 52% compared to 62% for other students (see figure 3).
- The non success rate for targeted students is also higher than non students – targeted students non success rate on average is 28% compared to 22% for other students (see figure 3).
- Withdraw rates follow the same pattern with targeted students withdrawing on average at 20% and other students withdrawing at 17% (see figure 3).

Questions to Explore:

- Why are targeted students overrepresented in pre-collegiate math classes?
- Why are the success rates of targeted students lower than other groups?
- How does this affect their transfer rate?
- What policies or practices can be implemented to address these issues?

Figure 1 – Pre-Collegiate Math Enrollment – Fall 2007 to Spring 2010

	Targeted Students	Other Students	Total Enrollments	Total Percent
MATH210.	46%	54%	4,710	100%
MATH212.	39%	61%	5,726	100%
MATH114.	32%	68%	11,306	100%
Total	37%	63%	21,742	100%

Enrollment for fall 2007 through spring 2010 - including summer terms.

Targeted students include: Hispanic, African Ancestry, Pacific Islander and Filipino.

Figure 2 – Fall 2009 Enrollment by Ethnicity

Targeted Students		Other Students	
African Ancestry	3%	Multiple/Other	20%
Filipino	5%	Native American	1%
Hispanic	12%	White	23%
Pacific Islander	1%	Asian	35%
Targeted Students	21%	Other Students	79%

*De Anza Fast Facts (Fall 2009)

Figure 3 – Success Rates in Pre-Collegiate Math – Fall 2007 to Spring 2010

	Success	Non Success	Withdraw	Total Enrollments	Total %
MATH210					
Targeted	51%	29%	20%	2,176	100%
Other	59%	23%	17%	2,534	100%
MATH212					
Targeted	51%	28%	21%	2,260	100%
Other	59%	22%	19%	3,466	100%
MATH114					
Targeted	53%	27%	19%	3,591	100%
Other	64%	21%	15%	7,715	100%
TOTAL					
Targeted Avg.	52%	28%	20%	8,027	100%
Other Avg.	62%	22%	17%	13,715	100%
Total				21,742	

Enrollment for fall 2007 through spring 2010 - including summer terms.

Targeted students include: Hispanic, African Ancestry, Pacific Islander and Filipino.

Success = A, B, C, and P, Non Success = D, F, NP, I, Withdraw = W