

To: Basic Skills Initiative Team

From: Mallory Newell, De Anza Researcher

Date: 9/27/2011

Subject: MPS Success Rates 2009-10 to 2010-11

Success rates for the Math Performance Success program were calculated for fall 2009, winter 2010, spring 2010, fall 2010, winter 2011 and spring 2011. Non MPS sections of MATH 212, 210, 114 and 10 was also included as a comparator.

From 2009-10 to 2010-11 the following changes were made to the program: 3 additional sections were added in 2010-11: 1 section of MATH 114, 1 section of MATH 210 and 1 section of MATH 10. 88 additional students received a grade in 2010-11 than in 2009-10. Three new instructors were added to the program in 2010-11 that had not taught in the program the year prior. An academic advisor was added to the program in 2010-11.

Findings Include:

- Success rates in MPS courses were 80% in 2009-10 and 76% in 2010-11. Success rates of all non MPS math comparator sections were 56% in 2009-10 and 57% in 2010-11.
- Success rates for MPS MATH 212 decreased from 76% in 2009-10 to 68% in 2010-11. Success rates in non MPS MATH 212 comparator sections were at 54% in 2009-10 and 2010-11.
- Success rates for MPS MATH 210 courses decreased from 78% in 2009-10 to 66% in 2010-11. Success rates in non MPS MATH 210 comparator sections were at 52% in 2009-10 and increased to 57% in 2010-11.
- Success rates for MPS MATH 114 courses increased from 79% in 2009-10 to 82% in 2010-11. Success rates in non MPS MATH 114 comparator sections were at 58% in 2009-10 and 2010-11.
- Success rates for MPS MATH 10 courses decreased from 85% in 2009-10 to 78% in 2010-11. Success rates in non MPS MATH 10 comparator sections were at 57% in 2009-10 and 59% in 2010-11.

By Ethnicity

- African American students enrolled in MPS courses exhibited higher success rates than African American students in a non MPS math section. In 2010-11, 62% of African American students passed MATH 212 while 46% passed a non MPS section of MATH 212.

- Hispanic students enrolled in MPS courses also exhibited higher success rates than Hispanic students in non MPS math sections. In 2010-11, 86% of Hispanic students passed the MPS section of MATH 114 while 47% of Hispanic students passed the non MPS section of MATH 114.

Possibilities for Additional Analysis:

- The MPS program may choose to survey their students regarding their perception of the program.
 - Whether students feel they are more successful academically because of their enrollment in the MPS program.
 - Whether students feel that their interaction with the academic advisor and academic counselor helped them be successful in the program and at De Anza.
- Survey faculty members on their perception of student success in the program, the effectiveness of the academic counselor and the academic advisor.

By Course

		MPS Success Rates							
		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
2009-10	MATH212.	100	76%	18	14%	14	11%	132	100%
	MATH210.	28	78%	4	11%	4	11%	36	100%
	MATH114.	141	79%	22	12%	15	8%	178	100%
	MATH010.	153	85%	14	8%	13	7%	180	100%
Total		422	80%	58	11%	46	9%	526	100%

		MPS Success Rates							
		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
2010-11	MATHD212.	97	68%	27	19%	19	13%	143	100%
	MATHD210.	41	66%	14	23%	7	11%	62	100%
	MATHD114.	163	82%	21	11%	14	7%	198	100%
	MATHD010.	165	78%	34	16%	12	6%	211	100%
Total		466	76%	96	16%	52	8%	614	100%

By Course and Year

MPS Success Rates

		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
2009F	MATH212.	51	81%	5	8%	7	11%	63	100%
	MATH210.	28	78%	4	11%	4	11%	36	100%
	MATH010.	56	82%	5	7%	7	10%	68	100%
2010W	MATH212.	49	71%	13	19%	7	10%	69	100%
	MATH114.	94	85%	9	8%	7	6%	110	100%
2010S	MATH114.	47	69%	13	19%	8	12%	68	100%
	MATH010.	97	87%	9	8%	6	5%	112	100%
Total		422	80%	58	11%	46	9%	526	100%

MPS Success Rates

		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
2010F	MATHD212.	44	57%	16	21%	17	22%	77	100%
	MATHD210.	41	66%	14	23%	7	11%	62	100%
	MATHD114.	30	88%	4	12%			34	100%
	MATHD010.	56	78%	10	14%	6	8%	72	100%
2011W	MATHD212.	53	80%	11	17%	2	3%	66	100%
	MATHD114.	91	88%	3	3%	9	9%	103	100%
	MATHD010.	30	81%	6	16%	1	3%	37	100%
2011S	MATHD114.	42	69%	14	23%	5	8%	61	100%
	MATHD010.	79	77%	18	18%	5	5%	102	100%
Total		466	76%	96	16%	52	8%	614	100%

MPS Success Rates - 2009-10 to 2010-11

By Ethnicity		MPS Success Rates							
		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
2009-10 MATH212.	African American	17	85%			3	15%	20	100%
	American Indian	1	100%					1	100%
	Asian	7	70%	2	20%	1	10%	10	100%
	Filipino	5	71%	1	14%	1	14%	7	100%
	Hispanic	35	83%	7	17%			42	100%
	Multi-Ethnic	4	57%	1	14%	2	29%	7	100%
	Pacific Islander	3	100%					3	100%
	White	16	67%	2	8%	6	25%	24	100%
	Unknown	12	67%	5	28%	1	6%	18	100%
	Total	100	76%	18	14%	14	11%	132	100%
MATH210.	African American	4	80%			1	20%	5	100%
	Asian	1	100%					1	100%
	Hispanic	11	73%	3	20%	1	7%	15	100%
	Multi-Ethnic	1	50%	1	50%			2	100%
	White	8	100%					8	100%
	Unknown	3	60%			2	40%	5	100%
	Total	28	78%	4	11%	4	11%	36	100%
MATH114.	African American	22	73%	4	13%	4	13%	30	100%
	American Indian	1	100%					1	100%
	Asian	18	100%					18	100%
	Filipino	11	100%					11	100%
	Hispanic	45	78%	9	16%	4	7%	58	100%
	Multi-Ethnic	2	100%					2	100%
	Pacific Islander	4	80%	1	20%			5	100%
	White	24	83%	3	10%	2	7%	29	100%
	Unknown	14	58%	5	21%	5	21%	24	100%
	Total	141	79%	22	12%	15	8%	178	100%
MATH010.	African American	22	79%	3	11%	3	11%	28	100%
	American Indian	2	100%					2	100%
	Asian	28	90%	1	3%	2	6%	31	100%
	Filipino	11	79%	2	14%	1	7%	14	100%
	Hispanic	45	96%	1	2%	1	2%	47	100%
	Multi-Ethnic	2	100%					2	100%
	Pacific Islander			1	100%			1	100%
	White	24	83%	3	10%	2	7%	29	100%
	Unknown	19	73%	3	12%	4	15%	26	100%
	Total	153	85%	14	8%	13	7%	180	100%
Total		422	80%	58	11%	46	9%	526	100%

MPS Success Rates - 2009-10 to 2010-11

MPS Success Rates

By Ethnicity		MPS Success Rates								
		Success		Non Success		Withdraw		Total		
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent	
2010-11	MATHD212.	African American	8	62%	4	31%	1	8%	13	100%
	American Indian	1	50%			1	50%	2	100%	
	Asian	4	57%	2	29%	1	14%	7	100%	
	Filipino	4	57%	3	43%			7	100%	
	Hispanic	26	62%	9	21%	7	17%	42	100%	
	Multi-Ethnic	10	91%			1	9%	11	100%	
	Pacific Islander	1	100%					1	100%	
	White	28	82%	4	12%	2	6%	34	100%	
	Unreported	15	58%	5	19%	6	23%	26	100%	
	Total	97	68%	27	19%	19	13%	143	100%	
MATHD210.	African American	2	50%	2	50%			4	100%	
	American Indian	1	100%					1	100%	
	Asian	4	100%					4	100%	
	Filipino	1	100%					1	100%	
	Hispanic	10	56%	5	28%	3	17%	18	100%	
	Multi-Ethnic	5	63%			3	38%	8	100%	
	Pacific Islander			1	100%			1	100%	
	White	10	100%					10	100%	
	Unreported	8	53%	6	40%	1	7%	15	100%	
	Total	41	66%	14	23%	7	11%	62	100%	
MATHD114.	African American	20	83%	4	17%			24	100%	
	American Indian	1	100%					1	100%	
	Asian	10	77%	1	8%	2	15%	13	100%	
	Filipino	6	75%	2	25%			8	100%	
	Hispanic	43	86%	5	10%	2	4%	50	100%	
	Multi-Ethnic	13	68%	1	5%	5	26%	19	100%	
	Pacific Islander	2	67%			1	33%	3	100%	
	White	45	85%	5	9%	3	6%	53	100%	
	Unreported	23	85%	3	11%	1	4%	27	100%	
	Total	163	82%	21	11%	14	7%	198	100%	
MATHD010.	African American	22	71%	5	16%	4	13%	31	100%	
	American Indian	1	100%					1	100%	
	Asian	13	87%	2	13%			15	100%	
	Filipino	10	77%	3	23%			13	100%	
	Hispanic	49	72%	17	25%	2	3%	68	100%	
	Multi-Ethnic	13	87%	1	7%	1	7%	15	100%	
	Pacific Islander	1	33%	1	33%	1	33%	3	100%	

	Success		Non Success		Withdraw		Total	
	Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
White	41	93%	1	2%	2	5%	44	100%
Unreported	15	71%	4	19%	2	10%	21	100%
Total	165	78%	34	16%	12	6%	211	100%
Total	466	76%	96	16%	52	8%	614	100%

By Course

Success Rates of All Non MPS Sections of Math 212, 210, 114 and 10

		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
2009-10	MATH212.	1,404	54%	697	27%	507	19%	2,608	100%
	MATH210.	693	52%	414	31%	233	17%	1,340	100%
	MATH114.	1,818	58%	776	25%	518	17%	3,112	100%
	MATH010.	1,710	57%	604	20%	678	23%	2,992	100%
Total		5,625	56%	2,491	25%	1,936	19%	10,052	100%

Note: Excludes course reference numbers identified as MPS sections.

Success Rates of All Non MPS Sections of Math 212, 210, 114 and 10

		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
2010-11	MATHD212.	1,327	54%	688	28%	436	18%	2,451	100%
	MATHD210.	785	57%	390	28%	199	14%	1,374	100%
	MATHD114.	1,743	58%	746	25%	499	17%	2,988	100%
	MATHD010.	1,889	59%	602	19%	703	22%	3,194	100%
Total		5,744	57%	2,426	24%	1,837	18%	10,007	100%

Note: Excludes course reference numbers identified as MPS sections.

By Course and Year

Success Rates of All Non MPS Sections of Math 212, 210, 114 and 10

		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
2009F	MATH212.	511	59%	207	24%	147	17%	865	100%
	MATH210.	304	54%	185	33%	70	13%	559	100%
	MATH114.	689	60%	258	23%	196	17%	1,143	100%
	MATH010.	598	58%	211	21%	219	21%	1,028	100%
2010W	MATH212.	537	52%	287	28%	201	20%	1,025	100%
	MATH210.	237	52%	123	27%	100	22%	460	100%
	MATH114.	581	58%	249	25%	179	18%	1,009	100%
	MATH010.	531	57%	192	21%	213	23%	936	100%
2010S	MATH212.	356	50%	203	28%	159	22%	718	100%
	MATH210.	152	47%	106	33%	63	20%	321	100%
	MATH114.	548	57%	269	28%	143	15%	960	100%
	MATH010.	581	57%	201	20%	246	24%	1,028	100%
Total		5,625	56%	2,491	25%	1,936	19%	10,052	100%

Note: Excludes course reference numbers identified as MPS sections.

Success Rates of All Non MPS Sections of Math 212, 210, 114 and 10

		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
2010F	MATHD212.	509	53%	283	30%	160	17%	952	100%
	MATHD210.	340	62%	156	28%	55	10%	551	100%
	MATHD114.	655	59%	265	24%	181	16%	1,101	100%
	MATHD010.	596	55%	225	21%	264	24%	1,085	100%
2011W	MATHD212.	445	54%	224	27%	153	19%	822	100%
	MATHD210.	209	52%	109	27%	82	21%	400	100%
	MATHD114.	600	60%	234	23%	167	17%	1,001	100%
	MATHD010.	638	62%	163	16%	233	23%	1,034	100%
2011S	MATHD212.	373	55%	181	27%	123	18%	677	100%
	MATHD210.	236	56%	125	30%	62	15%	423	100%
	MATHD114.	488	55%	247	28%	151	17%	886	100%
	MATHD010.	655	61%	214	20%	206	19%	1,075	100%
Total		5,744	57%	2,426	24%	1,837	18%	10,007	100%

Note: Excludes course reference numbers identified as MPS sections.

Non MPS Sections Success Rates - 2009-10 to 2010-11

Success Rates of All Non MPS Sections of Math 212, 210, 114 and 10

By Ethnicity		Success		Non Success		Withdraw		Total		
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent	
2009-10	MATH212.	African American	46	35%	50	38%	36	27%	132	100%
	American Indian	57	73%	17	22%	4	5%	78	100%	
	Asian	253	59%	100	23%	77	18%	430	100%	
	Filipino	128	60%	50	23%	36	17%	214	100%	
	Hispanic	262	46%	177	31%	131	23%	570	100%	
	Multi-Ethnic	140	54%	66	25%	55	21%	261	100%	
	Pacific Islander	10	43%	10	43%	3	13%	23	100%	
	White	386	58%	166	25%	108	16%	660	100%	
	Unreported	122	51%	61	25%	57	24%	240	100%	
	Total	1,404	54%	697	27%	507	19%	2,608	100%	
MATH210.	African American	40	40%	38	38%	21	21%	99	100%	
	American Indian	8	44%	4	22%	6	33%	18	100%	
	Asian	81	55%	45	31%	21	14%	147	100%	
	Filipino	44	59%	21	28%	9	12%	74	100%	
	Hispanic	164	48%	118	35%	58	17%	340	100%	
	Multi-Ethnic	77	45%	64	37%	30	18%	171	100%	
	Pacific Islander	6	46%	2	15%	5	38%	13	100%	
	White	206	58%	84	24%	67	19%	357	100%	
	Unreported	67	55%	38	31%	16	13%	121	100%	
	Total	693	52%	414	31%	233	17%	1,340	100%	
MATH114.	African American	43	44%	35	36%	20	20%	98	100%	
	American Indian	69	67%	22	21%	12	12%	103	100%	
	Asian	528	67%	161	20%	99	13%	788	100%	
	Filipino	148	53%	78	28%	52	19%	278	100%	
	Hispanic	265	49%	162	30%	112	21%	539	100%	
	Multi-Ethnic	131	61%	47	22%	37	17%	215	100%	
	Pacific Islander	15	71%	5	24%	1	5%	21	100%	
	White	454	60%	182	24%	124	16%	760	100%	
	Unreported	165	53%	84	27%	61	20%	310	100%	
	Total	1,818	58%	776	25%	518	17%	3,112	100%	
MATH010.	African American	34	44%	23	30%	20	26%	77	100%	
	American Indian	22	67%	5	15%	6	18%	33	100%	
	Asian	886	65%	230	17%	241	18%	1,357	100%	
	Filipino	68	40%	48	29%	52	31%	168	100%	
	Hispanic	112	38%	92	31%	92	31%	296	100%	
	Multi-Ethnic	49	50%	16	16%	33	34%	98	100%	
	Pacific Islander	6	21%	5	18%	17	61%	28	100%	

	Success		Non Success		Withdraw		Total	
	Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
White	326	57%	125	22%	123	21%	574	100%
Unreported	207	57%	60	17%	94	26%	361	100%
Total	1,710	57%	604	20%	678	23%	2,992	100%
Total	5,625	56%	2,491	25%	1,936	19%	10,052	100%

Note: Excludes course reference numbers identified as MPS sections.

Non MPS Sections Success Rates - 2009-10 to 2010-11

Success Rates of All Non MPS Sections of Math 212, 210, 114 and 10

By Ethnicity		Success		Non Success		Withdraw		Total		
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent	
2010-11	MATHD212.	African American	44	46%	29	30%	23	24%	96	100%
	American Indian	3	60%	2	40%			5	100%	
	Asian	343	67%	111	22%	56	11%	510	100%	
	Filipino	91	56%	46	28%	26	16%	163	100%	
	Hispanic	264	46%	185	33%	119	21%	568	100%	
	Multi-Ethnic	129	45%	99	34%	60	21%	288	100%	
	Pacific Islander	6	22%	11	41%	10	37%	27	100%	
	Unreported	113	50%	72	32%	42	19%	227	100%	
	White	334	59%	133	23%	100	18%	567	100%	
	Total	1,327	54%	688	28%	436	18%	2,451	100%	
MATHD210.	African American	37	37%	40	40%	24	24%	101	100%	
	American Indian	3	30%	6	60%	1	10%	10	100%	
	Asian	155	70%	40	18%	27	12%	222	100%	
	Filipino	51	72%	12	17%	8	11%	71	100%	
	Hispanic	191	55%	111	32%	48	14%	350	100%	
	Multi-Ethnic	90	51%	56	32%	29	17%	175	100%	
	Pacific Islander	10	59%	5	29%	2	12%	17	100%	
	Unreported	72	49%	55	37%	20	14%	147	100%	
	White	176	63%	65	23%	40	14%	281	100%	
	Total	785	57%	390	28%	199	14%	1,374	100%	
MATHD114.	African American	39	48%	30	37%	13	16%	82	100%	
	American Indian	6	60%	2	20%	2	20%	10	100%	
	Asian	542	67%	161	20%	108	13%	811	100%	
	Filipino	144	59%	62	25%	40	16%	246	100%	
	Hispanic	251	47%	156	29%	124	23%	531	100%	
	Multi-Ethnic	156	53%	85	29%	55	19%	296	100%	
	Pacific Islander	5	56%	1	11%	3	33%	9	100%	
	Unreported	167	56%	89	30%	40	14%	296	100%	
	White	433	61%	160	23%	114	16%	707	100%	
	Total	1,743	58%	746	25%	499	17%	2,988	100%	
MATHD010.	African American	23	30%	27	36%	26	34%	76	100%	
	American Indian	8	62%	1	8%	4	31%	13	100%	
	Asian	925	69%	192	14%	227	17%	1,344	100%	
	Filipino	101	51%	46	23%	50	25%	197	100%	
	Hispanic	140	40%	89	25%	121	35%	350	100%	
	Multi-Ethnic	124	57%	47	22%	45	21%	216	100%	
	Pacific Islander	7	30%	7	30%	9	39%	23	100%	

	Success		Non Success		Withdraw		Total	
	Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
Unreported	227	62%	68	18%	73	20%	368	100%
White	334	55%	125	21%	148	24%	607	100%
Total	1,889	59%	602	19%	703	22%	3,194	100%
Total	5,744	57%	2,426	24%	1,837	18%	10,007	100%

Note: Excludes course reference numbers identified as MPS sections.