

To: Title 3 Math Team
From: Mallory Newell, De Anza Researcher
Date: 12/8/2011
Subject: Title III Grant – Math Interventions – 2010-11

Findings

Math 210

- Interventions were only offered in fall 2010 for Math 210.
- In the fall, LinC students exhibited the highest success rate (73%), followed by MPS students (68%), above that of students in a 210 course without an intervention (66%).
- Students in the Enable Math In Class Tutoring (62%) section as well as the Group Tutoring (38%) section exhibited slightly lower success rates than students without an intervention (66%).

Math 212

- The students in the LinC, MPS, Enable Math In Class, and Group Tutoring sections exhibited higher success rates than the non intervention students in each quarter they were offered.
- The Non Enable Math – In Class Tutoring sections exhibited similar to lower success (46-50%) success rates than students not receiving an intervention (49-50%) in the quarters offered.

Math 114

- Students in LinC, MPS, and Enable Math In Class Tutoring exhibited higher success rates than students in courses without an intervention in each quarter.
- In fall 2010, students in the Non Enable Math – in Class Tutoring (53%) and Group Tutoring (47%) sections exhibited lower success rates than the non intervention students (59%).
- In spring 2011, LinC Group Tutoring section exhibited a success rate of 70%, well above the non intervention students (55%).

Methodology

The attached analysis includes fall 2010, winter 2011 and spring 2011 math courses for MATH 210, MATH 212, and MATH 114. Title III funded courses were identified by math faculty by type of intervention offered in each course. Course success rates (A, B, C or P) were calculated for each course as well as non success (D, F, NP) and withdraw rates (W).

Interventions included LinC, Enable Math In Class Tutors, Non Enable Math In Class Tutors, Group Tutoring, and MPS. Courses were also identified if they were offered through the LinC program or in a distance education format or a regular format. All other math sections for the identified courses that did not include an intervention were aggregated and used for comparison purpose.

Fall 2010

		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
MATHD210. Regular	MPS	41	68%	14	23%	5	8%	60	100%
Section	Enable Math In Class	43	62%	21	30%	5	7%	69	100%
	Group Tutoring	27	38%	37	52%	7	10%	71	100%
	No Intervention	251	66%	93	24%	36	9%	380	100%
LINC Section	No Intervention Other than LinC	19	73%	6	23%	1	4%	26	100%
MATHD212. Regular	MPS	44	58%	16	21%	16	21%	76	100%
Section	Enable Math In Class	156	70%	41	18%	25	11%	222	100%
	Non Enable Math - In Class Tutoring	53	50%	33	31%	21	20%	107	100%
	Group Tutoring	85	55%	50	32%	20	13%	155	100%
	No Intervention	259	50%	173	34%	82	16%	514	100%
MATHD114. Regular	MPS	30	88%	4	12%			34	100%
Section	Enable Math In Class	240	68%	72	21%	39	11%	351	100%
	Non Enable Math - In Class Tutoring	21	53%	10	25%	9	23%	40	100%
	Group Tutoring	34	47%	18	25%	20	28%	72	100%
	No Intervention	361	59%	166	27%	86	14%	613	100%
Online Section	No Intervention	20	45%	9	20%	15	34%	44	100%
Total		1,684	59%	763	27%	387	14%	2,834	100%

Title III Supported Math Courses - 2010-11

DA IR&P
12/07/11

Winter 2011

		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
MATHD210. Regular	No Intervention	209	56%	109	29%	54	15%	372	100%
MATHD212. Regular	MPS	53	82%	11	17%	1	2%	65	100%
Section	Enable Math In Class	109	60%	53	29%	20	11%	182	100%
	Non Enable Math - In Class Tutoring	18	46%	10	26%	11	28%	39	100%
	Group Tutoring	83	67%	28	23%	12	10%	123	100%
	No Intervention	218	49%	131	29%	96	22%	445	100%
LINC Section	Group Tutoring	17	81%	2	10%	2	10%	21	100%
MATHD114. Regular	MPS	91	92%	3	3%	5	5%	99	100%
Section	Enable Math In Class	274	65%	80	19%	65	16%	419	100%
	No Intervention	307	58%	144	27%	76	14%	527	100%
Online Section	No Intervention	19	51%	10	27%	8	22%	37	100%
Total		1,398	60%	581	25%	350	15%	2,329	100%

Title III Supported Math Courses - 2010-11

DA IR&P
12/08/11

Spring 2011

		Success		Non Success		Withdraw		Total	
		Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
MATHD210. Regular	No Intervention	236	57%	127	30%	54	13%	417	100%
MATHD212. Regular	Enable Math In Class	129	68%	41	22%	19	10%	189	100%
	Section Group Tutoring	54	67%	19	23%	8	10%	81	100%
	No Intervention	240	52%	133	29%	92	20%	465	100%
MATHD114. Regular	MPS	42	69%	14	23%	5	8%	61	100%
	Section Enable Math In Class	163	62%	71	27%	28	11%	262	100%
	No Intervention	283	55%	149	29%	86	17%	518	100%
	LINC Section Group Tutoring	26	70%	8	22%	3	8%	37	100%
Total		1,173	58%	562	28%	295	15%	2,030	100%