



FOOTHILL COLLEGE

Institutional Research and Planning

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TO: Peter Murray, Dean, Physical Sciences, Math & Engineering

FROM: Elaine Kuo, College Researcher

RE: Math 101/220 success rates

Overview

Students enrolled in Math 101 in 2006-07 and 2007-08 and those enrolled in Math 220 in 2008-09 or 2009-10 were tracked to determine their Math 101/220 course success and if they progressed to Math 105. There does not appear to be large differences in the course success rates among Math 101 and Math 220 students.

- There are about 400 students who pass Math 101/220 each year, yielding approximately a 60% success rate.
- Almost half of the students (45%) who pass Math 101/220 are successful in Math 105.
- A higher percentage of students who passed Math 101 compared to those who passed Math 220 did not attempt Math 105 (19% vs. 10%).

Methodology

Students who enrolled in Math 101 or Math 220 between 2006-07 to 2009-10 were identified and tracked from 2006-07 to 2010-11 to determine if they attempted Math 105 at anytime during this time period. Success rates were calculated if the student earned an A, B, C, or P grade. Distinct students were tracked in the initial cohort but repeat attempts in Math 105 are included.

Source

FHDA IR&P, ODA [Student Course]

Table 1. Math 101/220 Course Success Rates, 2006-2010

			Success		Nonsuccess		Withdraw		Total	
			Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
2006-2007	2006 Summer Foothill	MATHF101.	52	65%	23	29%	5	6%	80	100%
	2006 Fall Foothill	MATHF101.	188	61%	62	20%	57	19%	307	100%
	2007 Winter Foothill	MATHF101.	92	59%	24	15%	40	26%	156	100%
	2007 Spring Foothill	MATHF101.	86	56%	52	34%	16	10%	154	100%
	Total		418	60%	161	23%	118	17%	697	100%
2007-2008	2007 Summer Foothill	MATHF101.	43	77%	8	14%	5	9%	56	100%
	2007 Fall Foothill	MATHF101.	176	60%	68	23%	50	17%	294	100%
	2008 Winter Foothill	MATHF101.	94	53%	57	32%	25	14%	176	100%
	2008 Spring Foothill	MATHF101.	96	57%	51	31%	20	12%	167	100%
	Total		409	59%	184	27%	100	14%	693	100%
2008-2009	2008 Summer Foothill	MATHF101.	66	84%	8	10%	5	6%	79	100%
	2008 Fall Foothill	MATHF220.	164	64%	66	26%	26	10%	256	100%
	2009 Winter Foothill	MATHF220.	88	68%	26	20%	15	12%	129	100%
	2009 Spring Foothill	MATHF220.	87	62%	31	22%	23	16%	141	100%
	Total		405	67%	131	22%	69	11%	605	100%
2009-2010	2009 Fall Foothill	MATHF220.	145	60%	73	30%	23	10%	241	100%
	2010 Winter Foothill	MATHF220.	112	62%	52	29%	17	9%	181	100%
	2010 Spring Foothill	MATHF220.	89	58%	45	29%	19	12%	153	100%
	Total		346	60%	170	30%	59	10%	575	100%

Note: Success=A, B, C, P; Nonsuccess=D, F, NP, I

Table 2. Math 105 Course Success Rates of Successful Math 101/220 Students, 2006-2011

			MATHF105.									
			Success		Nonsuccess		Withdraw		Did not enroll		Total	
			Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent	Grades	Percent
MATHF101.	Success	2006-2007	238	43%	132	24%	75	14%	103	19%	548	100%
		2007-2008	263	48%	136	25%	69	13%	83	15%	551	100%
		2008-2009	18	21%	21	25%	10	12%	36	42%	85	100%
		Total	519	44%	289	24%	154	13%	222	19%	1184	100%
MATHF220.	Success	2008-2009	215	44%	130	27%	86	18%	53	11%	484	100%
		2009-2010	213	47%	122	27%	79	17%	44	10%	458	100%
		Total	428	45%	252	27%	165	18%	97	10%	942	100%

Note: Math 101 cohorts=2006-2007, 2007-08, Summer 2008; Math 220 cohorts=2008-09, 2009-10.

All cohorts were tracked from 2006-07 through 2010-11 academic year. Grades include students who repeat Math 105.

Table 3. Successful Math 101/220 Students who Repeated Math 105, 2006-2011

		Attempt 105 Distinct Attempts	
MATHF101. Success	2006-2007	445	315
	2007-2008	468	326
	2008-2009	49	30
Total		962	671
MATHF220. Success	2008-2009	431	286
	2009-2010	414	302
	Total	845	588

Source: FHDA IR&P, ODS [Student Course]

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