



FOOTHILL COLLEGE

Institutional Research and Planning

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TO: Lori Silverman, Faculty, Mathematics

FROM: Elaine Kuo, College Researcher

RE: NCBS 405 course success

Overview

Students enrolled in a STEM course and participated NCBS 405 during the 2011-12 academic year were identified to determine their course success. To provide some comparison, the student success rates were compared against those who did not enroll in NCBS 405. Course success rates were also examined by the number hours spent in NCBS 405.

STEM and NCBS 405 Course Enrollment

Table 1 shows student enrollment in the STEM courses during the 2011-12 academic. About half of the 4499 students were enrolled in a Math course while another quarter took a CIS course. MATH 48C enrollment was the smallest, representing only 3% of total STEM enrollment.

Table 1. Student Enrollment in STEM Courses, 2011-12.

STEM Course	Students	Percent
CHEMF001A	523	12%
CISF015A	615	14%
CISF027A	558	12%
MATHF001A	895	20%
MATHF048C	128	3%
MATHF105.	1237	27%
PHYSF002A	280	6%
PHYSF004A	263	6%
Total	4499	100%

Table 2 shows the number and percentage of the students who enrolled in NCBS 405 concurrently with their STEM course. Roughly 40% of students enrolled in a STEM course participated in NCBS 405. Note that the total does not match Table 1 because these students were only counted once.

Table 2. Concurrent Enrollment in STEM and NCBS 405, 2011-12.

Course	Students	Percent
NCBS 405	815	39%
No NCBS 405	2481	61%
Total	3296	100%

STEM and NCBS 405 Course Success Rates

Table 3 identifies overall course success in STEM courses during the 2011-12 academic year. The rate of course success ranged from a high of 75% in CHEM 1A to 44% in MATH 105. Note that MATH 105 also has the highest enrollment compared to all the other STEM courses.

Table 3. STEM Course Success, 2011-12.

STEM Course	Success		Nonsuccess		Withdrawal		Total	
	Students	Percent	Students	Percent	Students	Percent	Students	Percent
CHEMF001A	482	75%	72	11%	86	13%	640	100%
CISF015A	432	63%	108	16%	141	21%	681	100%
CISF027A	387	66%	78	13%	118	20%	583	100%
MATHF001A	559	52%	309	29%	209	19%	1077	100%
MATHF048C	93	64%	41	28%	11	8%	145	100%
MATHF105.								

STEM Course Success and NCBS 405

NCBS 405 students who spent either 5 hours or less (48%) or 11 or more hours (43%) in NCBS 405 experienced a higher success rate in their STEM course than those who spent between 6-10 hours (8%) (Table 7). Students who were not enrolled in NCBS 405 or those who were enrolled in NCBS 405 but reported no hours are excluded from this analysis.

Table 7. STEM Course Success by Hours Spent in NCBS 405, 2011-12.

NCBS Hours	<u>Success</u>		<u>Non Success</u>		<u>Withdrawal</u>	
	Students	Percent	Students	Percent	Students	Percent
5 hours or less						