## **FOOTHILL COLLEGE**

## Institutional Research and Planning

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RE: Math 1A-Math1B-Math 1C Pathway Progression, 2011-12 to 2014-15

## Overview

Students who enrolled in Math 1A between 2011-12 and 2014-15 are tracked to determine their progression through the Calculus sequence (Math 1A-Math 1B-Math 1C). Enrollment through the Calculus pathway is analyzed for one-year and two-year completion time frames (with the exception of the 2014-15 cohort).

Among the 2011-12 cohort, 276 F1 students and 369 non-F1 students enrolled in Math 1A, adding up to a total of 645 students (Table 1). Within this cohort, 198 (72%) F1 students and 144 (39%) non-F1 students successfully completed the course. These students are tracked to determine their progression through Math 1C in one and two years. Within one year, 27 (10%) F1 students and 20 non-F1 (5%) students successfully completed the Math 1A-Math 1B-Math 1C sequence.

Table 1. 2011-12 Math 1A-Math 1B-Math 1C Cohort Tracked for One Year.

Charles Land	Attempt	Pass	Attempt	Pass	Attempt	Pass
Starting Level	Math 1A	Math 1A	Math 1B	Math 1B	Math 1C	Math 1C
Math 1A F1	276	198	127	95	35	27
Math 1A non-F1	369	144	107	67	28	20
% of F1 starting cohort	100%	72%	46%	34%	13%	10%
% of non-F1 starting cohort	100%	39%	29%	18%	8%	5%
% from F1 previous step		72%	64%	75%	37%	77%
% from non-F1 previous step		39%	74%	63%	42%	71%

When the 2011-12 cohort is tracked for two years, the F1 student completion increases by 40 students (from 10% to 24%) and the non-F1 student completion increases by 22 students (from 5% to 11%) (Table 2). The percentage rates of completion from Math 1A-Math 1B-Math 1C more than doubles among F1 and non-F1 students. Note that while the initial Math 1A pass rate gap between F1 and non-F1 students is 33-percentage points, this gap narrows as approximately 75% of both groups of students who attempt Math 1B and Math 1C successfully complete these courses.

Among the 2013-14 cohort, 340 F1 students and 466 non-F1 students enrolled in Math 1A, adding up to total enrollment of 806 (Table 5). Within this cohort, 248 (73%) F1 students and 252 (54%) non-F1 students successfully completed the course. These students are tracked to determine their progression through Math 1C in one and two years. Within one year, 46 (14%) F1 students and 30 non-F1 (6%) students successfully completed the Math 1A-Math 1B-Math 1C sequence.

Table 5. 2013-14 Math 1A-Math 1B-Math 1C Cohort Tracked for One Year.

	Attempt	Pass	Attempt	Pass
Starting Level	Math 1A	Math 1A	Math 1B	Math 1B

Table 7. 2014-15 Math 1A-Math 1B-Math 1C Cohort Tracked for One Year.

Starting Level	Attempt Math 1A	Pass Math 1A	Attempt Math 1B	Pass Math 1B	Attempt Math 1C	Pass Math 1C
Math 1A F1	326	218	146	110	45	42
Math 1A non-F1	461	237	153	90	33	22
% of F1 starting cohort	100%	67%	45%			