



FOOTHILL COLLEGE

Institutional Research and Planning

DATE: January 7, 2013

TO: Peter Murray, Dean, Physical Sciences, Math and Engineering
Ion Georgiou, Instructor, Mathematics
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FROM: Elaine Kuo, College Researcher

RE: MATH 1A Enrollment + STEM course enrollment

Overview

Students enrolled in MATH 1A as of the first day of the Winter 2013 term were identified to determine if they are concurrently enrolled in any other STEM courses. Table 1 shows that almost half of the MATH 1A students are also registered for at least one other STEM course.

Table 1. Foothill College MATH 1A and STEM Course Headcount, Winter 2013.

MATH 1A Headcount	MATH 1A+STEM Headcount	Percentage
256	110	43%

Over half of the students who are concurrently enrolled in MATH 1A and at least one STEM course are enrolled in BIOL 1A, CHEM 1A/1B, CS 2A and/or PHYS 2A (61%) (Table 2). About one-fifth of the students enrolled in MATH 1A and a STEM course are registered for CHEM 1A (21%). Note that enrollment is a duplicated headcount as some students are enrolled in MATH 1A and multiple STEM courses.

Table 2. Foothill College Top STEM Courses among Students Concurrently Enrolled in MATH 1A+STEM, Winter 2013.

STEM Course	Enrollment	% of MATH 1A+STEM
CHEM 1A	29	21%
PHYS 2A	21	15%
CHEM 1B	14	10%
CS 2A	12	9%
BIOL 1A	9	6%
Other Courses	55	39%
Total	140	100%

While the majority of students are concurrently enrolled in MATH 1A and only one other STEM course (74%), one-fourth are enrolled in two other STEM courses (Table 3).

Table 3. Foothill College STEM Course Enrollment among MATH 1A Students, Winter 2013.

MATH 1A+1 STEM Crse	% All MATH 1A+STEM	MATH 1A+2 STEM Crses	% All MATH 1A+STEM	MATH 1A+3 STEM Crses	% All MATH 1A+STEM	Total ENR	% All MATH 1A+STEM
81	74%	28	25%	1	1%	110	100%

Methodology

Math 1A enrollment includes all students registered for Math 1A as of 1/07/2013 and may include those repeating the course. STEM course enrollment is defined based on registration in any of the following courses: BIOL 1A, BIOL 1B, CS 1A, CS 1B, CS 2A, CS 2b, CS 10, CS 50A, CHEM 1A, CHEM 1B, CHEM 1C, CHEM 2A, CHEM 2B, ENGR 6, ENGR 10, ENGR 39, ENGR 40, ENGR 49, PHYS 2A, PHYS 2B. These are the winter course offerings that fit into STEM parameters and whose courses have MATH 1A students enrolled.

Source

FHDA IR&P, ODS [Registration Analysis]