

Collection of AB705 research over past few months for Exec 2/3/20 meeting

Survey question: Why did you choose to enroll in ENGL M02 instead of M01A?

Population: Two sections of M02

Response rate: 20 out of 57 (35.1%)

Survey date: 9/24/2019

Methodology: Phone calls conducted by Outreach staff. Demographics pulled by Office of Institutional Effectiveness.

Findings:

	Total	% Total	Hispanic	%Hispanic	Men	% Men
Advised by Counseling	6	30%	3	50%	4	67%
Based on Self Placement	4	20%	2	50%	3	75%
By Accident	2	10%	1	50%	1	50%
Did not feel ready for M01A	8	40%	4	50%	4	50%

Math 05 success rates by whether they also enrolled in 905

The success rate in Math 05 is 11 percentage points higher for students who enrolled in 905. While it doesn't establish causality (I'm assuming students self-selected into 905), the results are very promising!

<https://trello.com/c/QJTodAon/562-compare-success-and-retention-of-math-05-with-and-without-math-905-support-course-and-alg-ii-by-ethnicity-for-phil>

Success

Math M05 with Math 905S: 52%

Math M05 without Math 905S: 41%

Retention:

Math M05 with Math 905S: 63%

Math M05 without Math 905S: 64%

Math 15 success rates fall 18 vs fall 19, limited to first time students

The success rates decreased by 11 percentage points from 69% in fall 18 to 58% in fall 19. The results are similar to other AB705-like initiatives from other states where the transfer level success rate goes down but the percentage of students who complete transfer level Math goes up since more students are placed directly into the course.

“For example, officials at Miami-Dade College found that enrollment in college-level math or intermediate algebra increased from 20,000 students this school year from just under 16,000 two years ago. Yet the pass rate for those Miami-Dade students over the same time period decreased to 46.8 percent from 55.7 percent.”

<https://www.insidehighered.com/news/2015/06/25/floridas-remedial-law-leads-decreasing-pass-rates-math-and-english>

However, “more first-time college students, including black and Hispanic students, passed the college-level math and English courses, also known as “gateway” courses, after the law went into effect in 2014.”

<https://www.insidehighered.com/news/2019/03/29/remedial-education-progress-florida-still-leaves-unanswered-questions>

Math 15 success rates fall 18 vs fall 19, limit to first time students

201807 (170 first time students): 69%

201907 (280 first time students): 58%

Math 05 success rates for students who completed HS Algebra

We completed an analysis of Math M05 success rates for student who successfully completed HS Algebra II or higher. Students who successfully completed HS Alg II had a substantially higher course success rate in Math M05.

Completed HS ALG II?	Fall 19 Math M05 Success rate
No	13.6%
Yes	53.2%

Methodology:

Kim pulled Math M05 success data by student for first time students in fall 2019. David pulled 121 HS transcripts from the sample of 310 (he checked all 310). Phil then reviewed all the HS transcripts with me to identify which student successfully completed HS Algebra II.

Math 05 success rates for students who completed HS Algebra and enrolled in 905

The data below suggests that enrolling in 905 improves success rates for both students who completed HS Algebra as well as students who did not complete HS Algebra. Given the really low success rates for students who did not take ALG in HS, 905 is definitely a successful approach, though for the other 80% of students who don't succeed even with 905 we may want to explore options (Math 11, 12, 03 for gen studies, etc).

	Fall 19 Math M05 Success rate
No HS ALG	14%
Yes M905S	20%
No M905S	10%
Yes HS ALG	53%
Yes M905S	57%
No M905S	51%