AB705 Update on Math 105

Math 105

- Intermediate algebra; satisfies requirement for AA degree but is not transfer-level.
- As of Fall 2018, all students are allowed to enroll directly into transfer-level math, and none are placed into Math 105.
- Math 105 continues to satisfy prerequisite requirements for some courses.

Math 105 Sections and Enrollment F18– Sp21

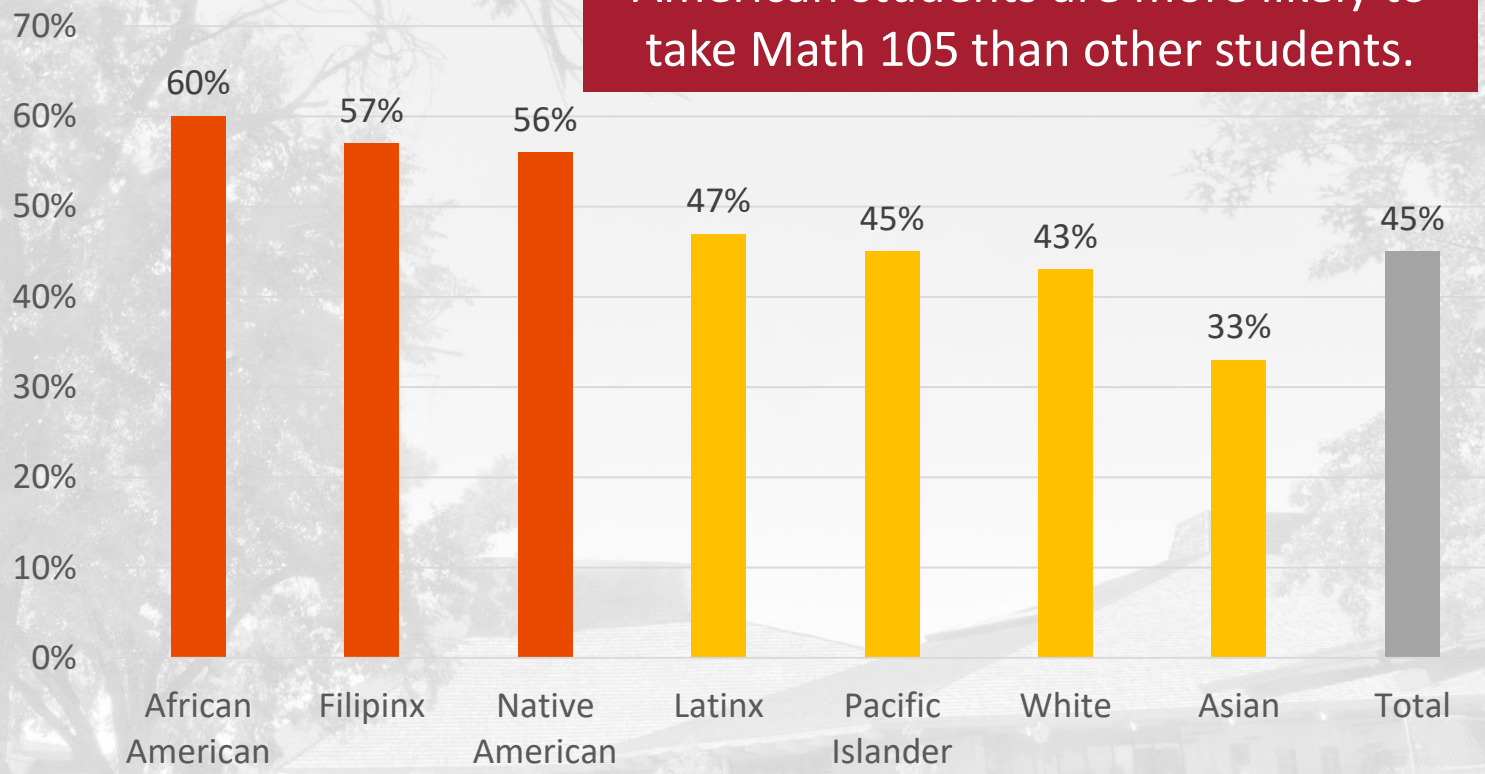
- 48 sections
- 1,480 enrollments
- 4% HS students
- 94% enrolled in other classes besides Math 105

Source: FH IRP. Enrollment in other classes besides Math 105 calculated as Spring 2021 enrollment or earlier.

Percent Enrolled in Math 105
Fall 2018 – Spring 2021

Out of all Math 105 and Math 48A enrollments, the percent in Math 105:

African-American, Filipinx, and Native American students are more likely to take Math 105 than other students.



Source: FH IRP. Percents calculated out of the number of enrollments for Math 105 or Math 48A between Fall 2018 and Spring 2021. HC: African-American = 158, Asian = 567, Filipinx = 150, Latinx = 1448, Native American = 16, Pacific Islander = 67, White = 823. Total HC = 3311.

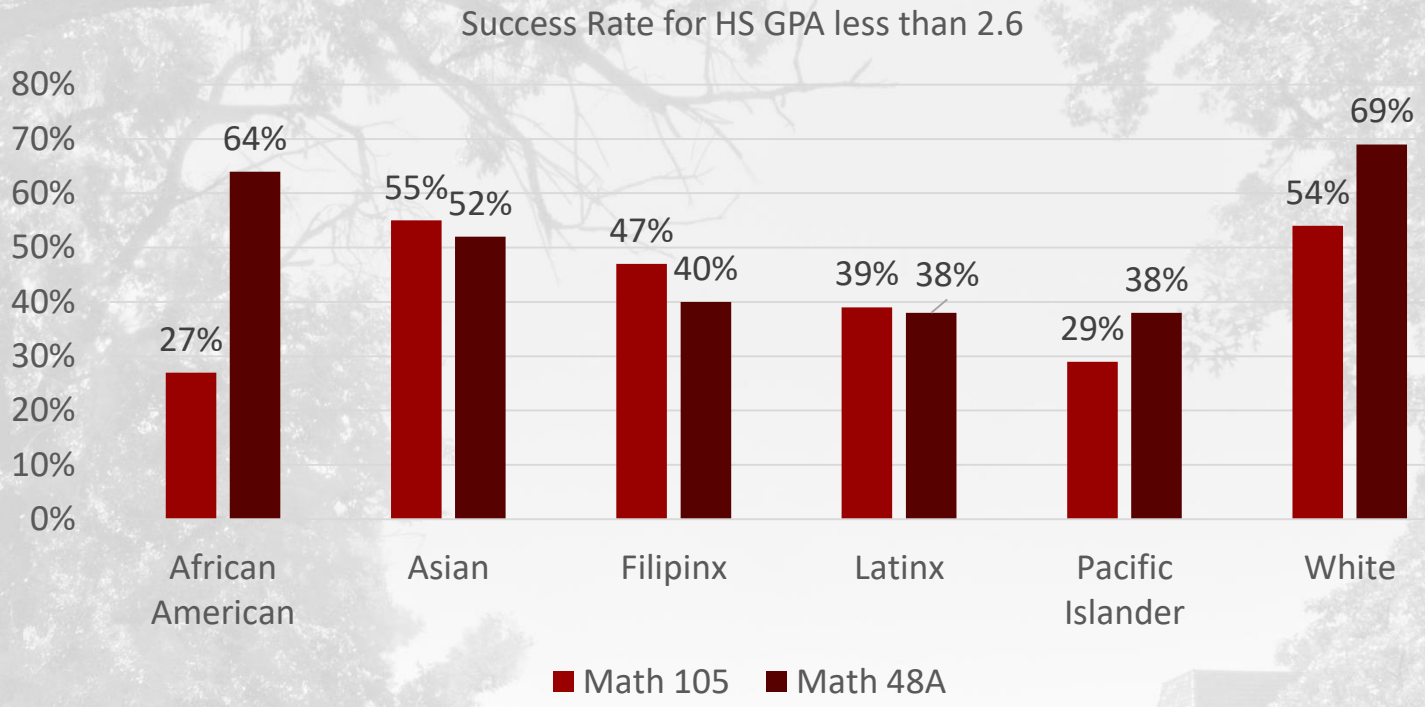
Math 105 and Math 48A: Success Rates F18-Sp21

HS GPA Band Precalc	Success Rate		Pct. Point Diff.
	Math 48A	Math 105	
3.4 or higher	73%	67%	-6%
2.6 to 3.3	57%	55%	-2%
Less than 2.6	46%	42%	-4%
Unknown GPA	78%	65%	-13%

Math 105 has a lower success rate for students in all HS GPA Bands.

Source: FH IRP. Success rates for students enrolled between Fall 2018 – Spring 2021. All HC greater than 200.

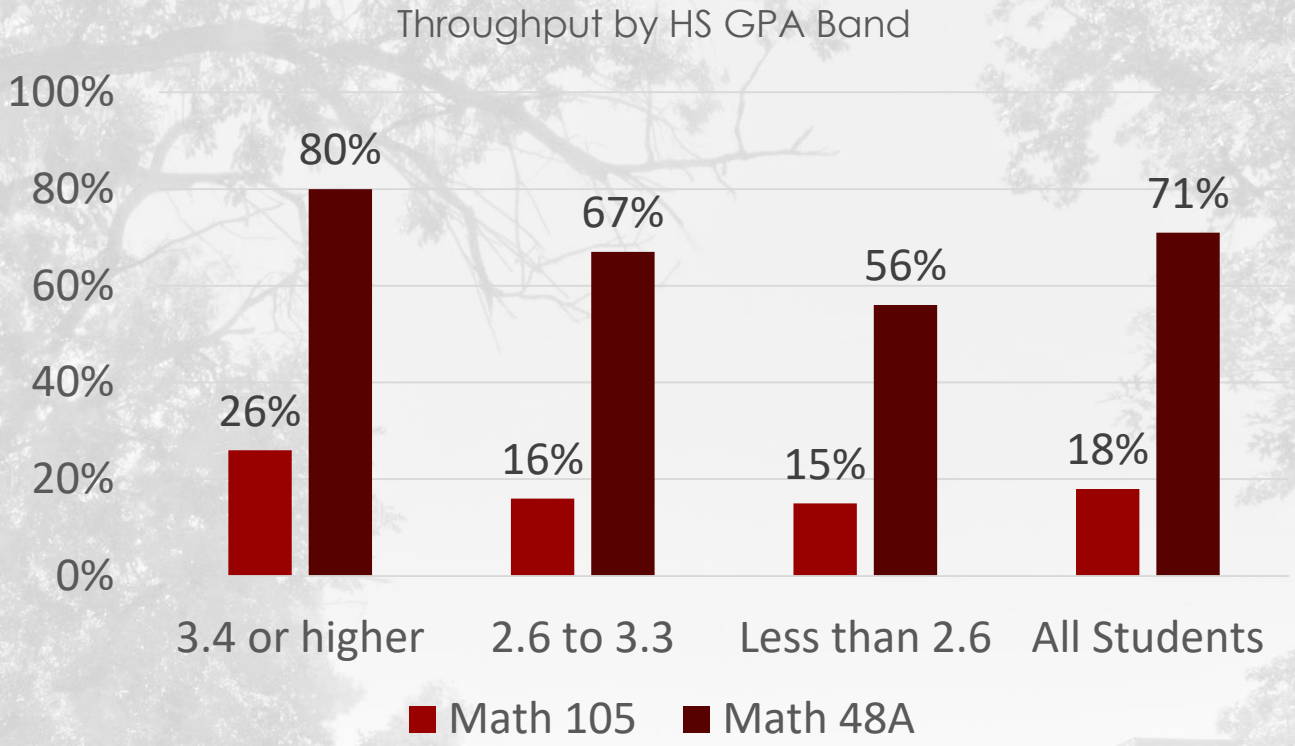
Math 105 and Math 48A: Success Rates for Lowest GPA Band



African American students in the lowest GPA Band have a lower success rate in Math 105. No other trends statistically significant (small effect/small HC).

Source: FH IRP. Success rates for students enrolled between Fall 2018 – Spring 2021. Math 105 HC: African American = 41, Asian = 31, Filipinx = 15, Latinx = 256, Pacific Islander = 14, White = 87. Math 48A HC: African American = 22, Asian = 75, Filipinx = 10, Latinx = 279, Pacific Islander = 13, White = 70. Native American students not included due to low counts (less than 10).

Math 105 and Math 48A: Throughput



Math 105 has lower throughput for students in all HS GPA Bands. Overall, 18% of students who began with Math 105 achieve throughput.

Source: FH IRP. Throughput rates for students who began math with Math 105 or Math 48A between Fall 2018 – Fall 2020. All HC greater than 100. Throughput = passing a transfer-level math course within three primary terms (Fall, Winter, Spring).

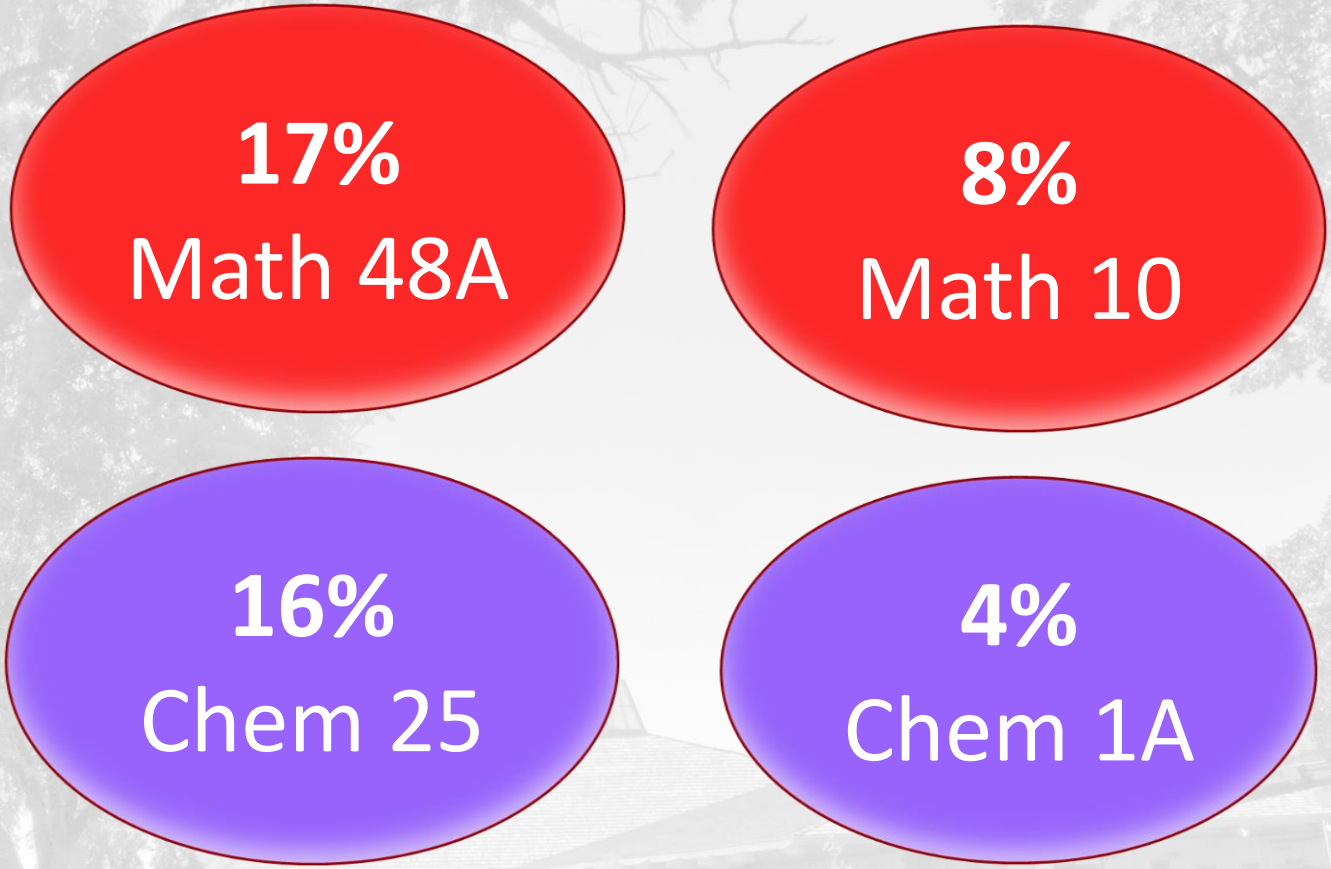
Educational goals of Math 105 students F18-Sp21:

	Percent
Transfer (with or without AA)	53%
AA	20%
Certificate	5%
Student from a 4-year college	2%
Undecided / Unknown / Other	20%
Total	100%

More than half of Math 105 enrollments come from students who say their goal is to transfer.

Source: FH IRP. Educational goal from CCCApply for students enrolled in Math 105 between F18 – Sp21. Students with no record in CCCApply were excluded from the data.

Of students who passed Math 105 between F18-Sp20, percent who later enrolled in:



Source: FH IRP. Percents calculated out of 506 students who passed Math 105 between Fall 2018 and Spring 2020. Enrollments in Chem 25, Chem 1A, Math 48A, and Math 10 based on enrolling by Spring 2021.