



# **Math 105**

## **Enrollment, Success, & Throughput**

Presentation to the Department of Mathematics  
January 21, 2022



## Math 105

- Intermediate algebra; satisfies requirement for AA degree but is not transfer-level.
- As of Fall 2018, all students have been allowed to enroll directly into transfer-level math, and none are placed into Math 105.
- As of Winter 2022, Math 105 has continued to satisfy prerequisite requirements for some courses.
- **By Fall 2022, Math 105 can no longer be offered to high school graduates under new AB705 implementation requirements.**



# Math 105 Sections and Enrollment F18– Sp21

- 48 sections
- 1,480 enrollments
- 4% HS students (but no dual enrollment sections)
- 94% enrolled in other credit classes at Foothill besides math



# 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 came from students who said their goal was to transfer.**



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

**17%**  
Math 48A

**9%**  
Math 10

**12%**  
Allied Health

**16%**  
Chem 25

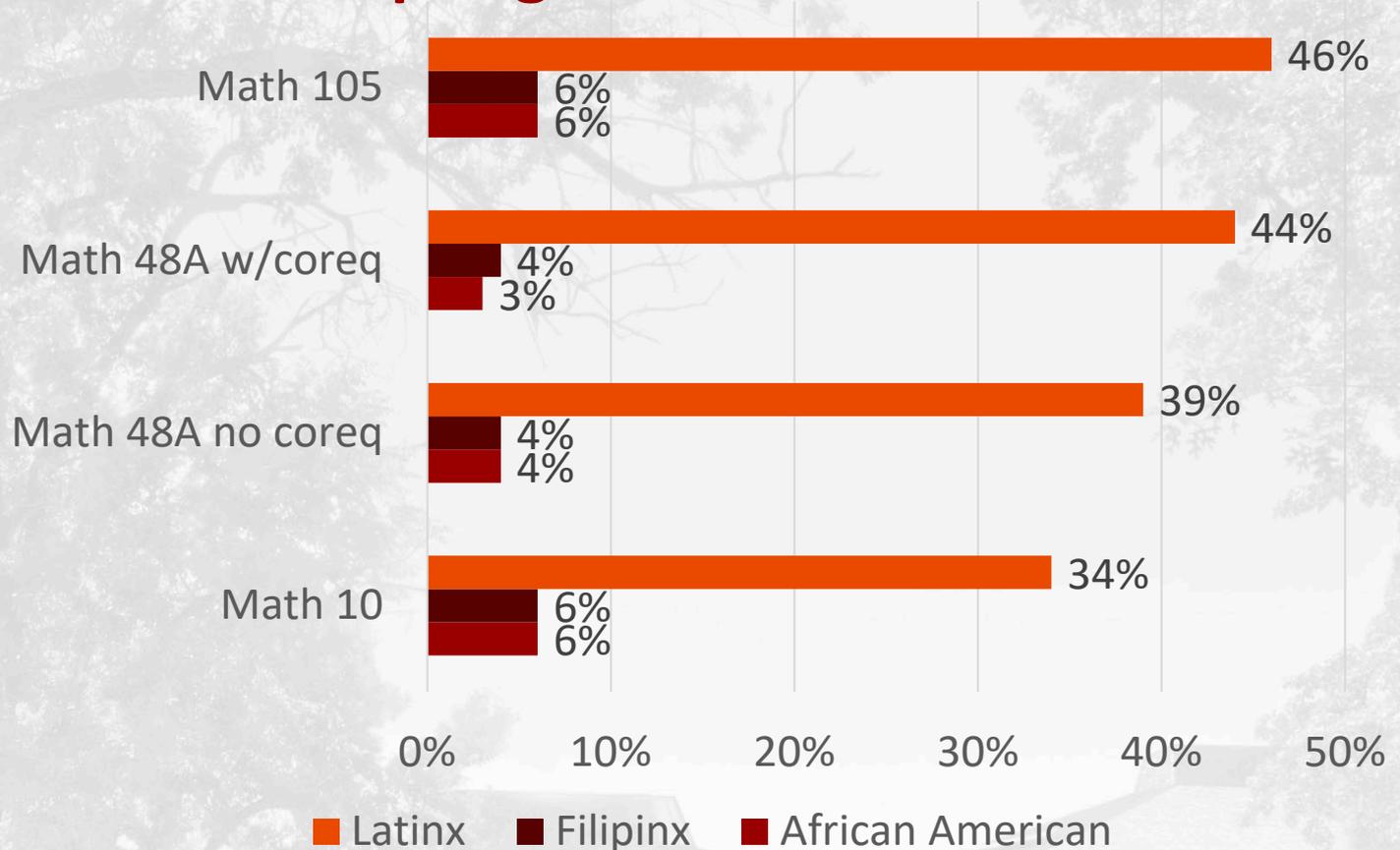
**4%**  
Chem 1A

Source: FH IRP. Percents calculated out of 516 students who passed Math 105 between Fall 2018 and Spring 2020. Enrollments in Chem 25, Chem 1A, Math 48A, and Math 10 based on being enrolled at census through Fall 2021. Enrolled in Allied Health based on being enrolled at census in a course coded AHS, DA, DH, EMS, PHT, RT, RSPT, or VT through Fall 2021.



# Enrollment by Ethnicity

## Fall 2018 – Spring 2021



Math 105 had a greater percentage of Latinx enrollment than Math 48A or Math 10



# Success Rates by HS GPA

Fall 2018 – Spring 2021

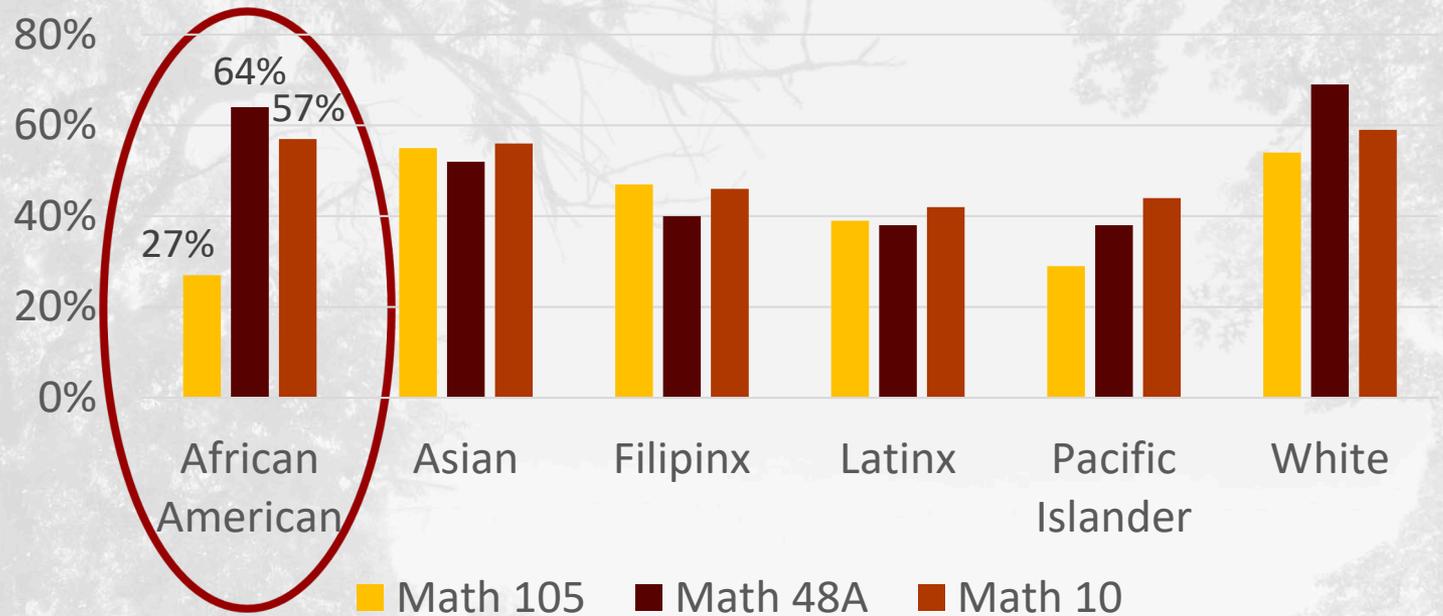
HS GPA	Math 105	Math 48A	Math 10
3.4 or higher	67%	73%	85%
2.6 to 3.3	55%	57%	65%
Less than 2.6	42%	46%	48%

**Math 105 had a lower success rate compared to Math 48A and Math 10 for students in all HS GPA Bands.**



# Success Rates for Lowest HS GPA Band by Ethnicity

Success rate for HS GPA less than 2.6

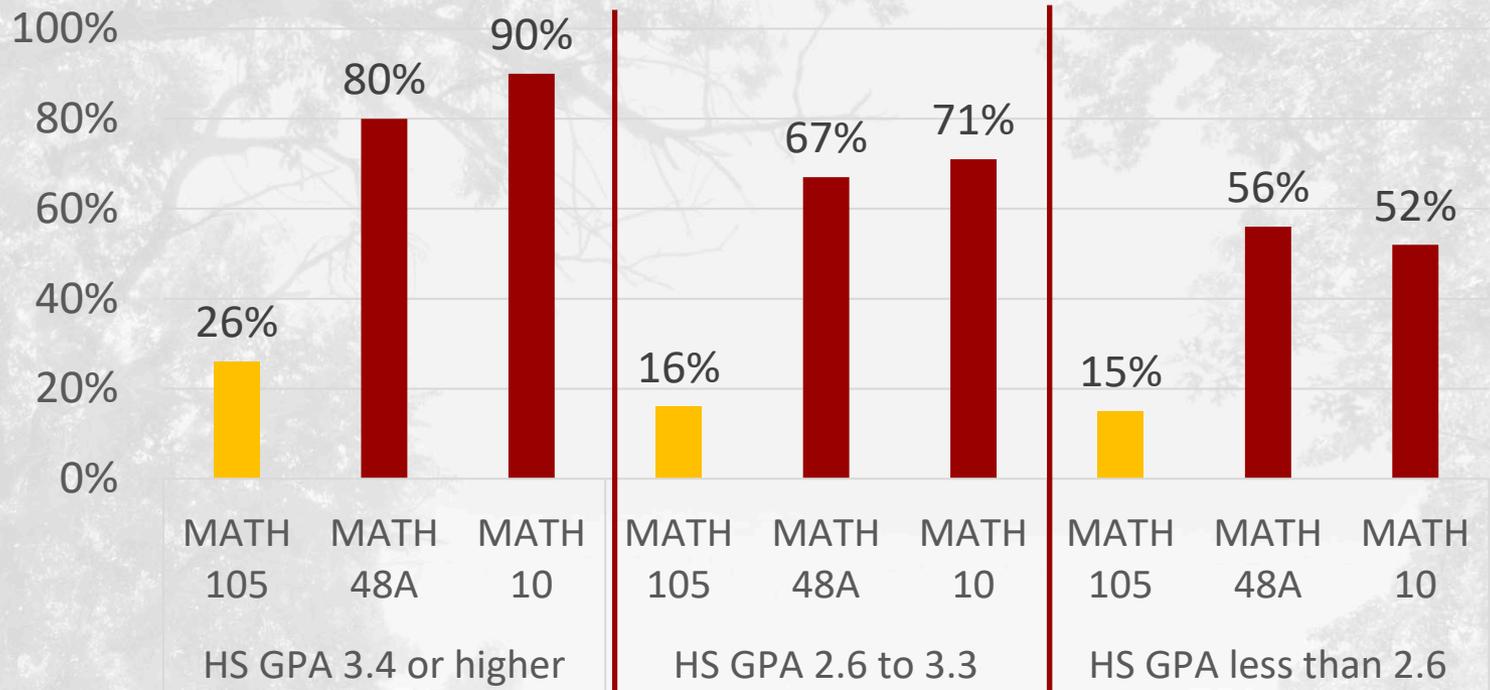


**African American students in the lowest HS GPA Band had a lower success rate in Math 105. No other trends statistically significant (small effect/small HC).**



# Throughput by HS GPA

Throughput by HS GPA Band (BSTEM)



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