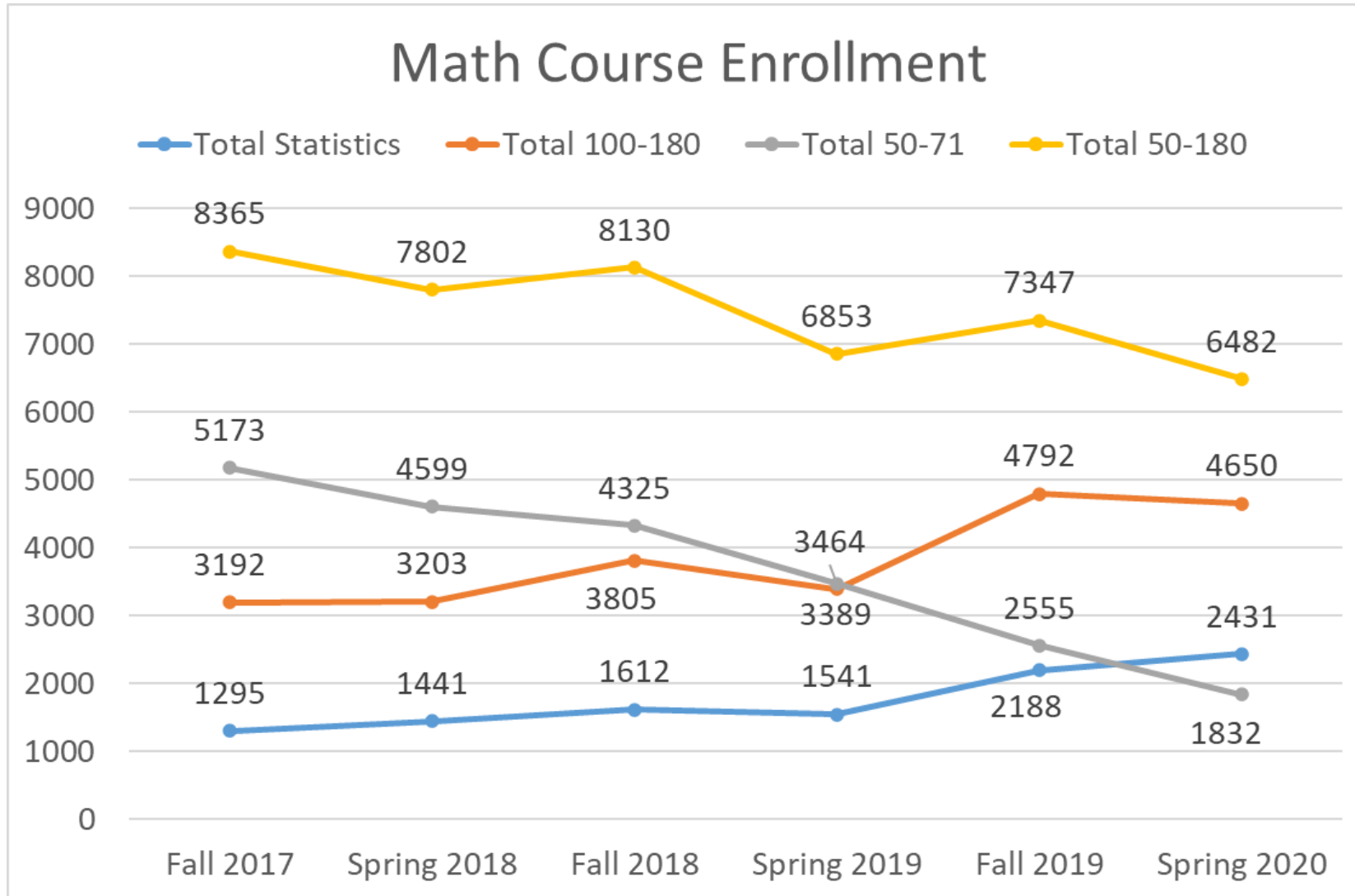


# Math Update to President's Cabinet

July 28, 2020

David Beydler

# Enrollment



# Spring 2020 Math Course Success Rates

## Caution!

- Classes were shifted online due to COVID-19
  - Concerns about cheating
  - Student/faculty technology issues
  - Possible student job volatility
- Students allowed to take EW late in semester
- Students had option to switch to P/NP after receiving grades
- Spring 2019 had fewer math corequisite classes (P/NP) than Spring 2020

# Spring 2020 Math Course Success Rates

|                | Spring 2019 | Spring 2020 |
|----------------|-------------|-------------|
| With W/EW's    | 51.6%       | 50.1%       |
| Without W/EW's | 65.2%       | 80.5%       |

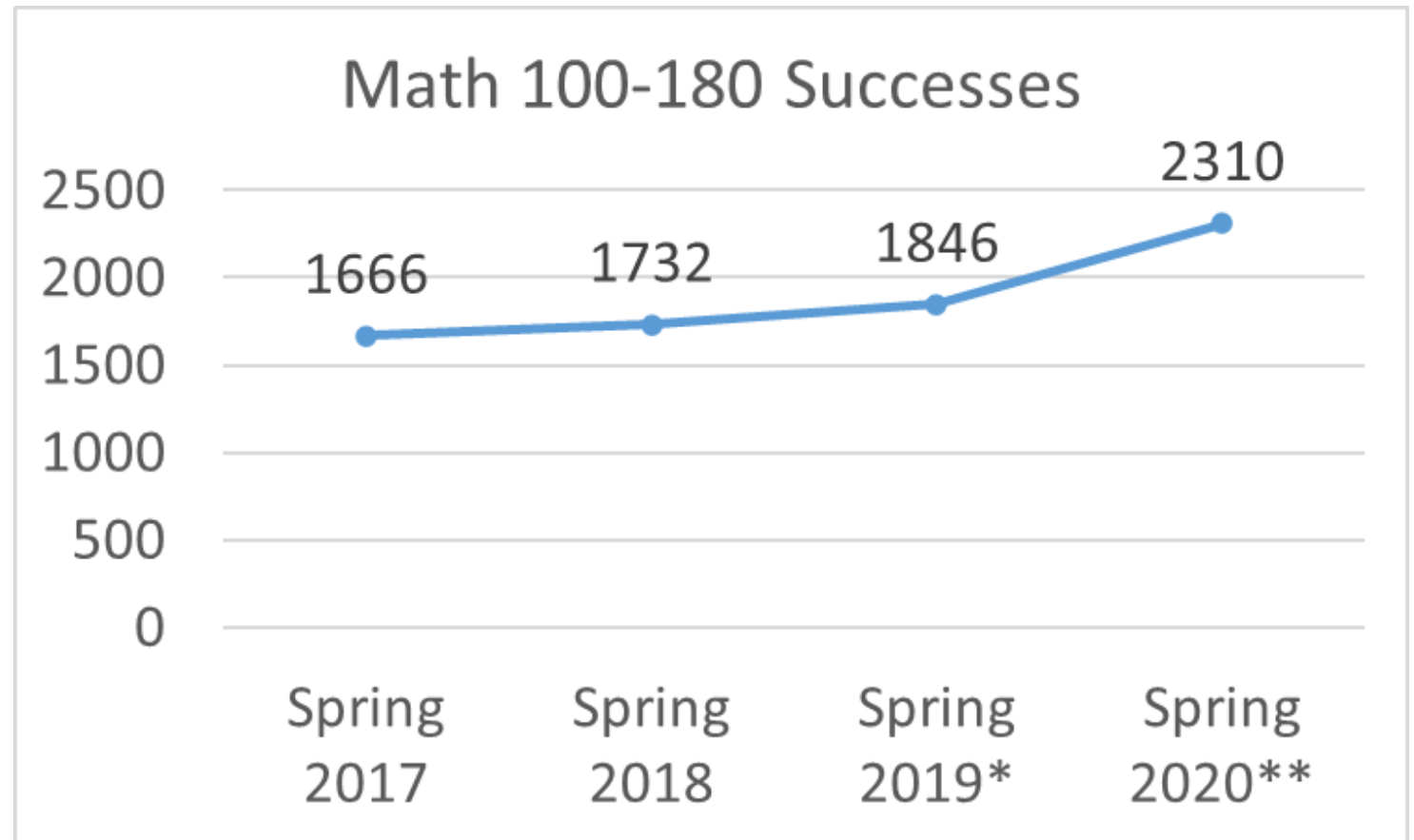
- Both rows count “success” as an A, B, C, or P.
- The first row counts “failures” as a D, F, NP, or W/EW (W for Spring 2019, EW for Spring 2020).
- The second row counts “failures” as only D, F, or NP, and doesn’t count W/EW’s at all.
- Data includes all math courses, including math corequisites.

# Math 100-180 Successes

**Spring 2018 → Spring 2020\*\***

The number of students succeeding in Math 100-180 has risen about 33% (1732 → 2310).

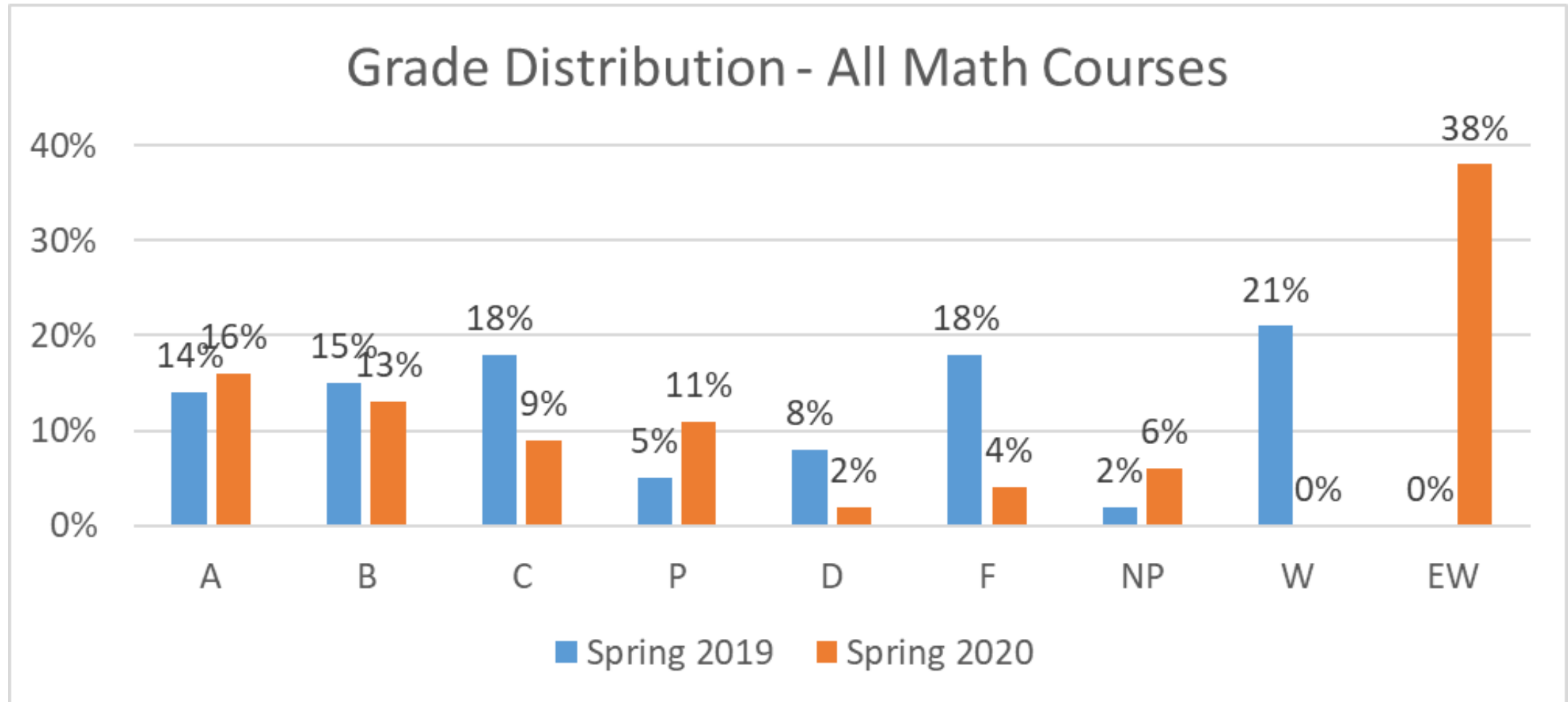
**Note:** Again, this success data is total successes. To get an accurate picture of throughput, we'll need success data for first-time math students.



\* Phase 1

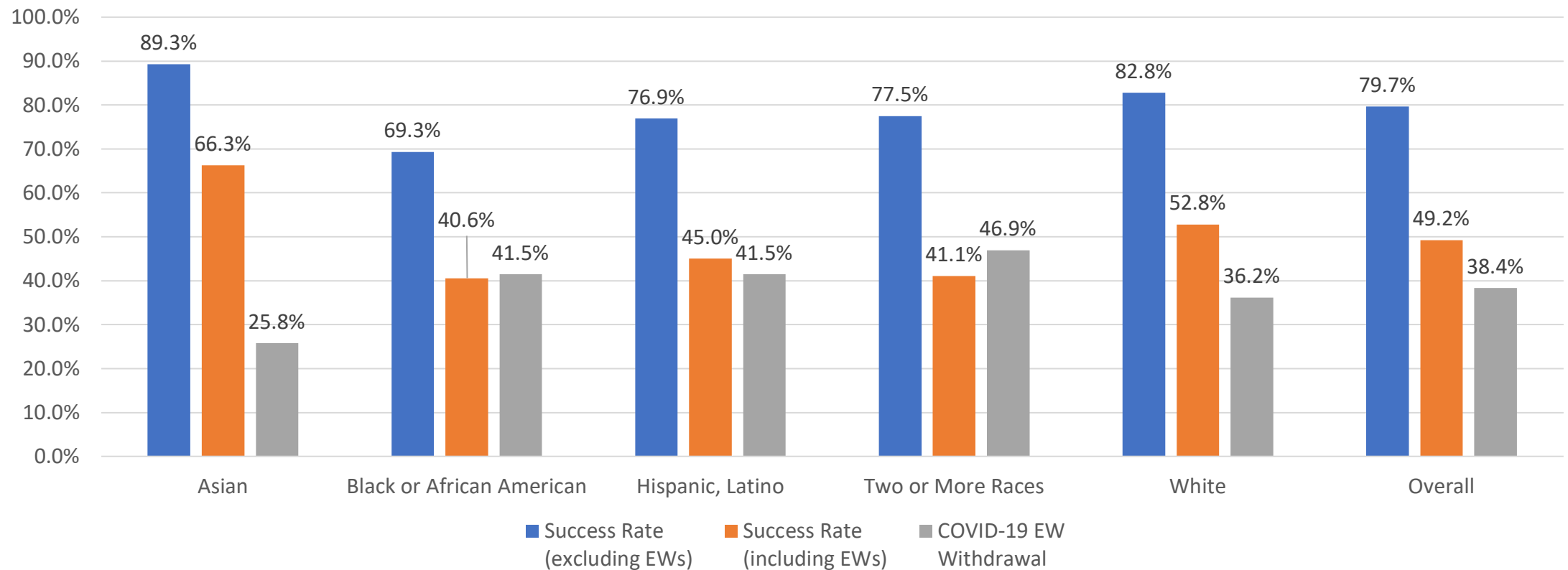
\*\* Phase 2, Online classes

# Grade Distributions



# Spring 2020 Equity

Spring 2020 Math 50-180 Success Rates and EWs



\* Not enough data for “American Indian or Alaska Native” and “Native Hawaiian or Other Pacific Islander” groups

# Spring 2020 Equity

| Spring 2020 (w/o EWs)  | Overall | Asian | Af.Am. | Latinx | White | Mult.R |
|------------------------|---------|-------|--------|--------|-------|--------|
| Math 50-180: Success % | 80%     | 89%   | 69%    | 77%    | 83%   | 78%    |
| Math 50-180: 80% Index |         | 100%  | 78%    | 86%    | 93%   | 87%    |

| Spring 2020 (with EWs) | Overall | Asian | Af.Am. | Latinx | White | Mult.R |
|------------------------|---------|-------|--------|--------|-------|--------|
| Math 50-180: Success % | 49%     | 66%   | 41%    | 45%    | 53%   | 41%    |
| Math 50-180: 80% Index |         | 100%  | 61%    | 68%    | 80%   | 62%    |

\* Not enough data for “American Indian or Alaska Native” and “Native Hawaiian or Other Pacific Islander” groups

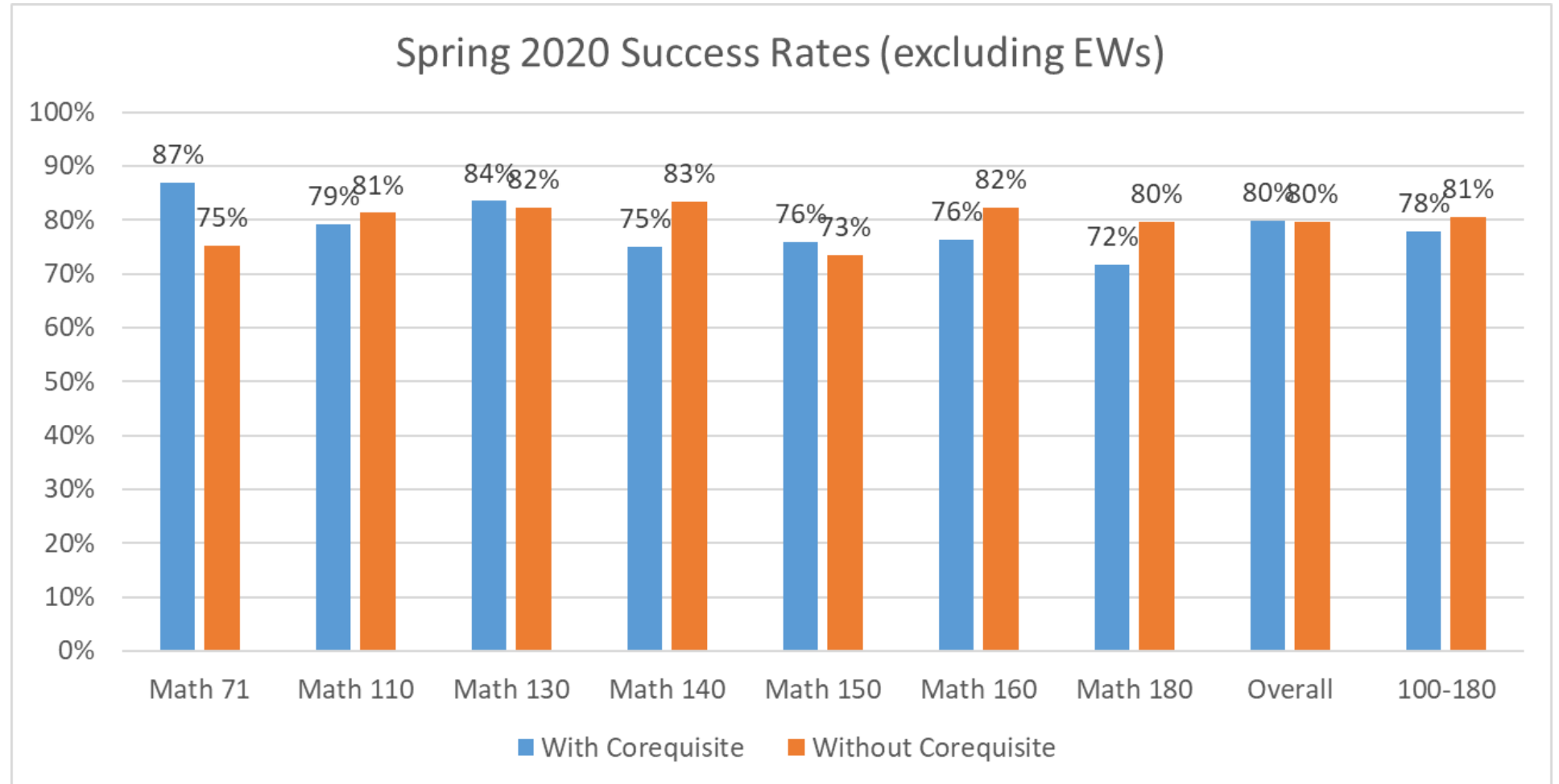
For reference, here was the Fall 2019 equity summary:

| Fall 2019              | Overall | Asian | Af.Am. | Latinx | White | Mult.R |
|------------------------|---------|-------|--------|--------|-------|--------|
| Math 50-180: Success % | 43%     | 62%   | 25%    | 38%    | 50%   | 48%    |
| Math 50-180: 80% Index |         | 100%  | 40%    | 61%    | 81%   | 78%    |



# Spring 2020 Math Corequisites

Note: Students who chose a corequisite pair tended to have lower high school GPAs than students who elected to take a target course alone.



\* Success rate for Math 140 with corequisite not statistically significant

# Spring 2020 – End-of-semester Math Faculty Survey

## What worked Spring 2020?

- Using Zoom for class and office hours
- Canvas
- Making videos

## What change for Fall 2020?

- More interactions with students

## Other thoughts

- Cheating a big issue

# Miscellaneous

- Fall 2020
  - Math 100 has filled. Shows UC transfer status.
  - Other courses (including corequisites) mostly filling, with some open sections.
- Request for 4-unit Math 110 is at stage 2 in WebCMS
- Tracking students who drop
  - Still under discussion
- Thanks to Maria Tsai!!