

Impacts of the UWS Math Initiative at the University of Wisconsin-Milwaukee

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Overarching and Lasting Impact

Stronger connections and better communication:

- with other UW System campuses
- within UWM



These gains will persist long after the formal life of the initiative.

More Students Taking Appropriate Mathematics Courses

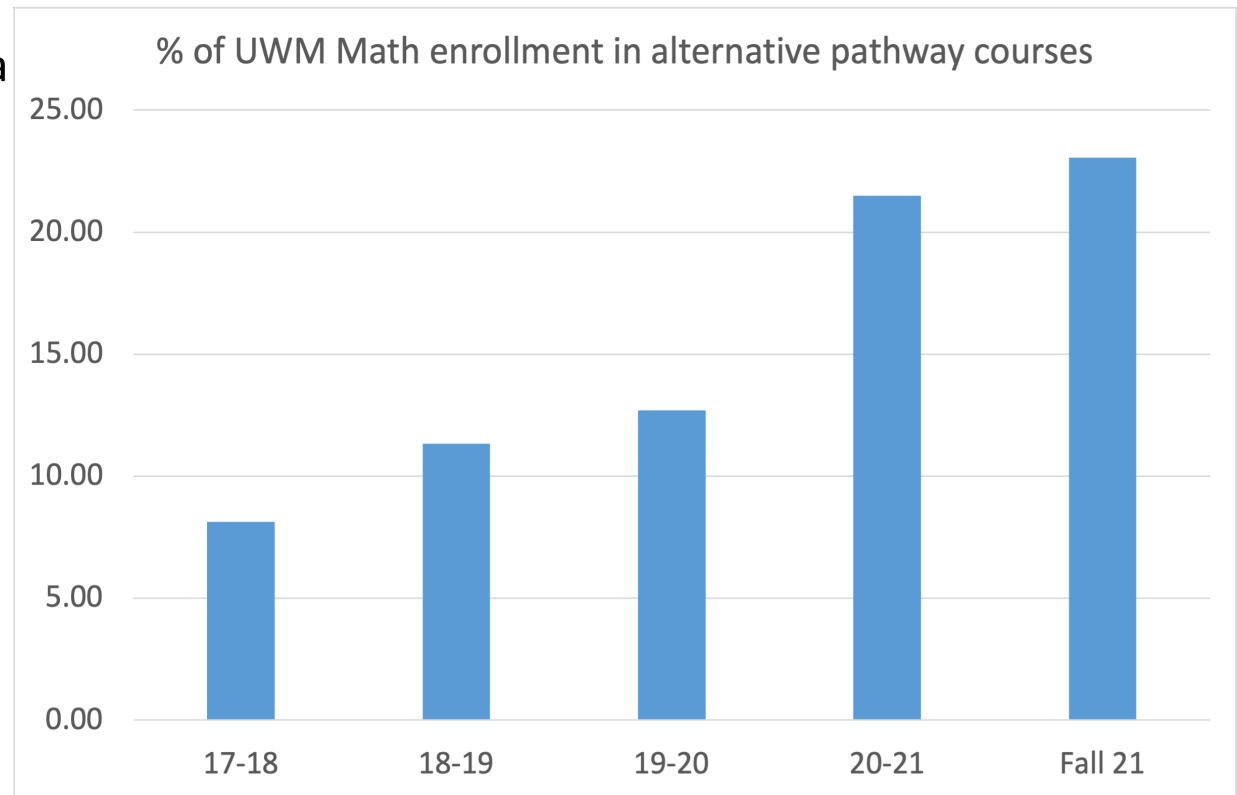
- Quantitative Reasoning

- Alternative to algebra

- Now for Nursing & Public health

- Quantitative Models for Business

- Alternative to Calculus



Co-requisite Pathways

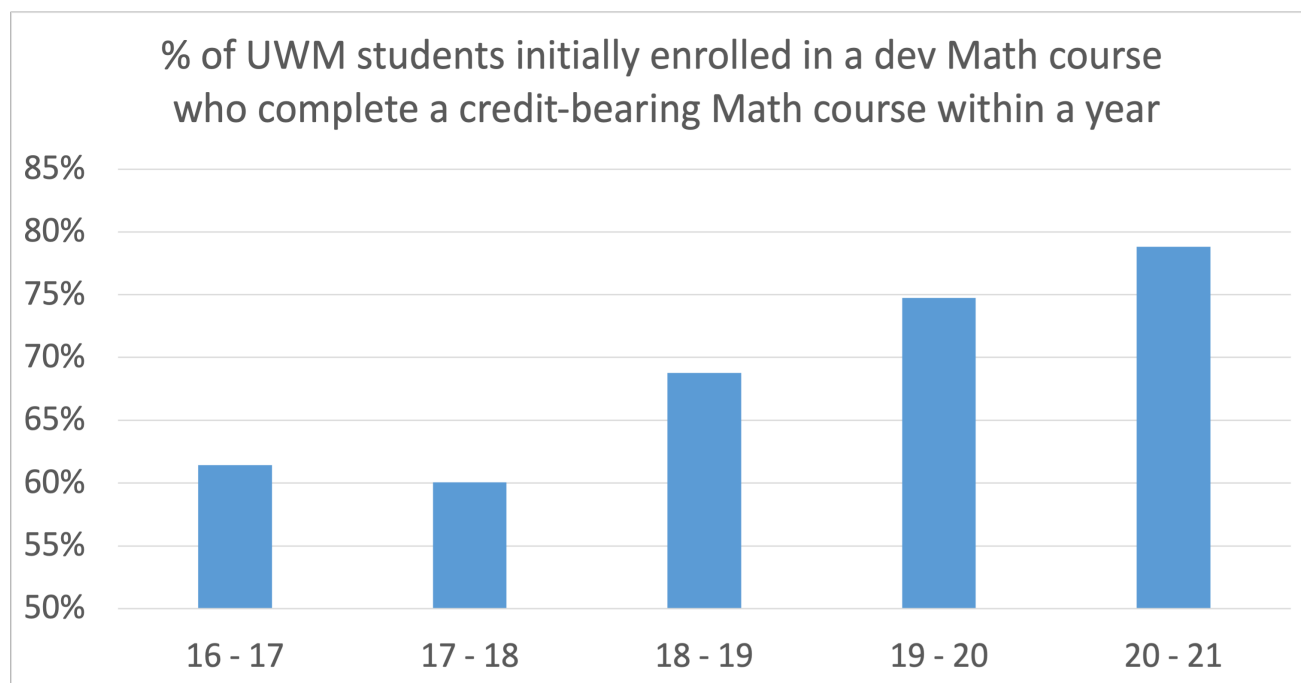
National best practice:

- *Old-Fall Dev / Spring Gateway:*

75% pass
each course
=> 50% pass
in 2 semesters.

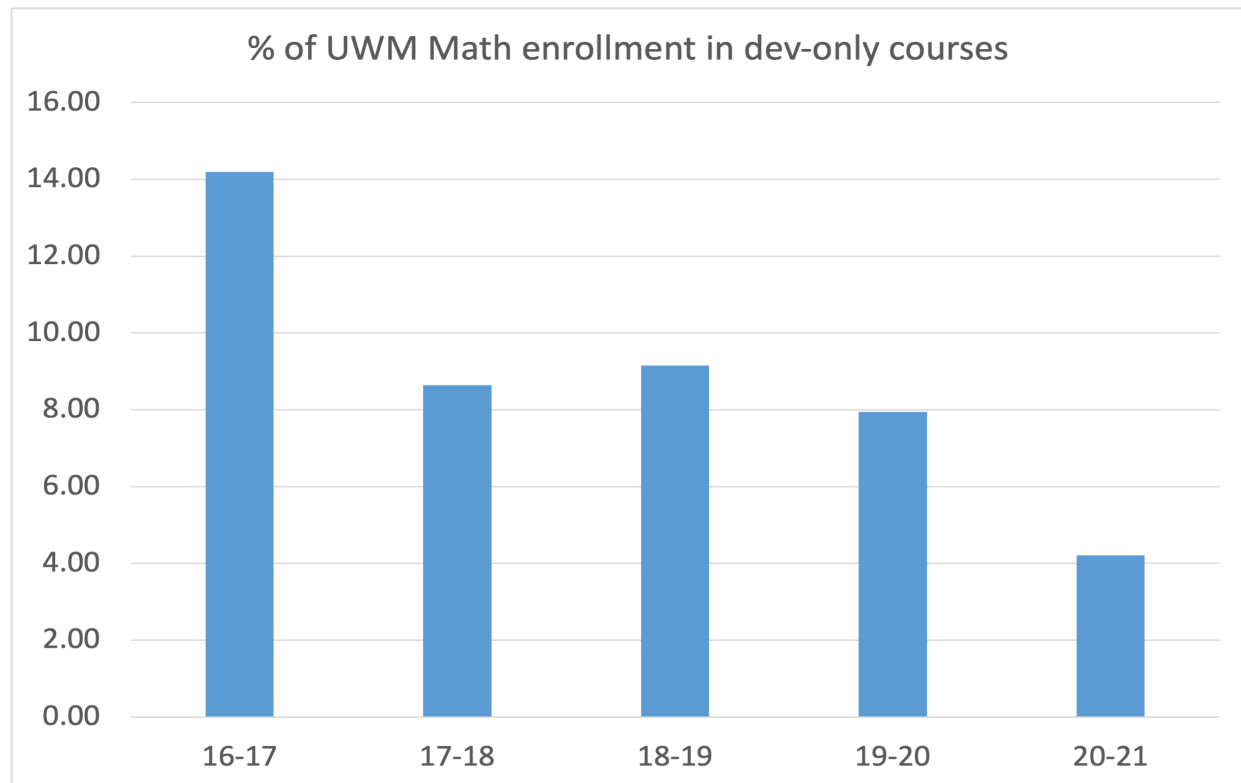
- *New-Coreq:*

over 80% pass
both
in 1 semester.



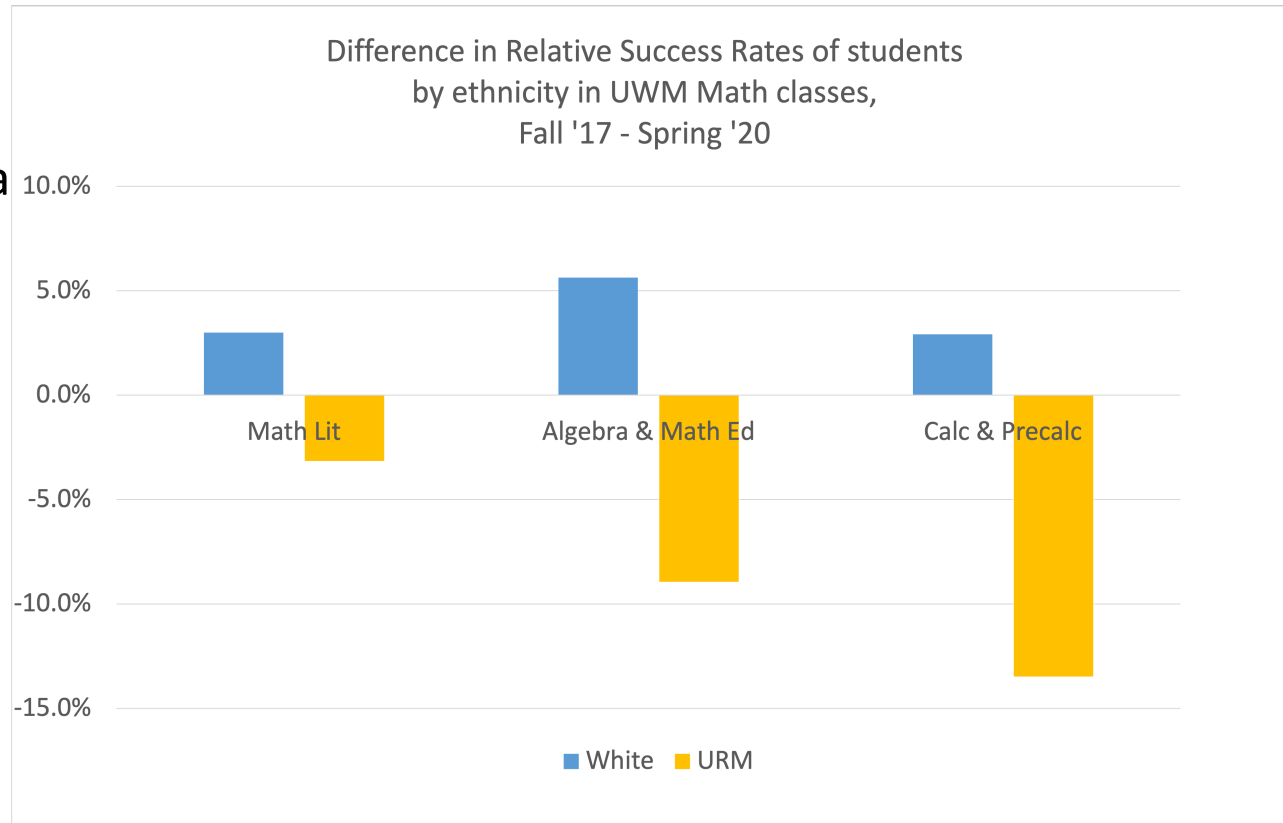
Fewer Students in Developmental Courses

- Co-requisite pathways => fewer students taking developmental-only courses.
- Goal to eliminate stand-alone developmental math courses.



Equity Issues

- Achievement gaps:
 - smallest in non-algebra courses;
 - larger in Intro Algebra
 - largest in Precalc & Calc, where the of URM students is also much lower.
- Turning our energy toward equity issues in Math courses.



P.S. Just for ACN: Spring 2022+ plans

Toward our goal of eliminating stand-alone dev courses....

- The 92+102+75 pilot in fall didn't work.
 - Algebra in 75 wasn't tied enough to work in 92+102
 - Too many credits of math in one term (7)!
- Two options:

One option would be for students with a C in 102 to take 75 in uwinterim then 105 in spring.

Spring 2022+ plans Cn'td

Cn'td:

- Option 2: we have set up some sections of 75+105 for Spring 2022,
 - anyone with a C or better in math 102 (whether or not they ever enrolled in 75) can take a 75+105 coreq in spring
 - 75 is only 1 'credit' so basically free, and makes 75+105 just 4 cr;
 - And the 75 material will be just-in-time prereq material tied directly to the 105 material
 - Contact Kelly Kohlmetz for enrollment permission
- Future: No more 75+92+102 – let anyone take 92+102 and look for 75+105 in a future term (or 75 in uwinterim then 105 in spring)