Co-requisite Approaches to Mathematics
Ohio Mathematics Initiative/Bridges to Success
October 26, 2018
What is the challenge?

Too few students placed in current systems of remediation successfully complete gateway mathematics.
Remediation: The effect of attrition.

Students assigned 3 or more semesters of math remediation.

- Completed 1st semester of remediation.
- Completed 2nd semester of remediation.
- Completed 3rd semester of remediation.
- Passed gateway course.

LOST

Enrolled and completed
Did not complete
Did not enroll or stopped enrolling

KNOW THIS The remediation system is broken. More students quit than fail.

For every 100 students in Ohio...

- At community colleges, 57 are placed in remedial math and of those students 46 do not complete gateway math.
- At universities, 24 are placed in remedial math and of those students 15 do not complete gateway math.
Corequisite Remediation

• Students enroll in entry level college-level courses while simultaneously participating in mandatory extended class periods or customized, just-in-time academic support.
Corequisite Remediation

- Common Elements
  - Acceleration
  - Support to pass linked gateway course
  - New methods of instructional delivery
  - Curricular reform
  - Enhanced advising
Multiple Models

- Paired course
- 101 Plus
- Technology-mediated
Paired Course Model

- Provides support skills in a separate course aligned to the learning objectives of the gateway course. The separate course is paired with the gateway course and delivered in the same semester.
101 Plus Model

- Offers academic support as an extension of the gateway course
Technology-Mediated Model

- Requires students to complete online lab support.
One Year Scaled Results

Traditional Remediation National Avg for Gateway Course Success

- **Colorado**: 64%
- **Georgia**: 71%
- **Indiana**: 55% English, 64% Math
- **Tennessee**: 64% English, 61% Math
- **West Virginia**: 62% English, 68% Math
Corequisites Result in Dramatic Improvements in Gateway Course Success

TBR Community College Gateway Math Success in One Year

- Pre-Requisite Model 2012-13
- Corequisite Full Implementation 2015-16

- Overall
- No ACT
- 18
- 17
- 16
- 15
- 14
- <15

Success Rates:
- Overall: 54.8%
- No ACT: 12.3%
- 18: 48.7%
- 17: 25.6%
- 16: 19.7%
- 15: 11.5%
- 14: 6.8%
- 13: 3.8%
- <15: 2.7%
- Pre-Requisite Model 2012-13: 32.9%
Frederick Hoffman – Burden of Proof
Questions?