Welcome & Housekeeping

- We encourage you to use the Q&A function for questions to the presenters, and the chat for comments or to share resources (including links) throughout the meeting
- Click the "Live Transcript" button to enable closed captioning
- Please note the webinar will be recorded and emailed to all registrants. It will also be posted on the CAPR website: <u>https://postsecondaryreadiness.org</u>.

Thank you for joining us!



Latest CAPR Research on Developmental Education Reforms: Implications for Policy and Practice

October 25, 2023

Nikki Edgecombe, CCRC Elizabeth Kopko, CCRC Sharon Fox, NorthWest Arkansas Community College Susan Sepanik, MDRC Nancy Shapiro, University System of Maryland



CENTER FOR THE ANALYSIS OF POSTSECONDARY READINESS This research is supported by the Institute of Education Sciences, U.S. Department of Education, through Grants <u>R305C140007</u> and <u>R305U200010</u> to Teachers College, Columbia University. The opinions expressed are those of the authors and do not represent views of the Institute or the U.S. Department of Education. CAPR is also grateful to the Ascendium Education Group and the Bill & Melinda Gates Foundation for their support of this research.

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Agenda

- CAPR Introduction
- Implementing Multiple Measures Assessment to Increase Access to College Level Courses
- Practitioner Perspective on Alternative Placement
- Supporting Underprepared Students: Math Pathways
- Role of Research in State Reform Efforts
- Q&A

CAPR Over the Years

CCRC and MDRC launch CAPR

CAPR began with 3 major research studies: a national study of developmental education and evaluations of multiple measures placement and of the Dana Center Mathematics Pathways

CAPR 2.0 begins

With funding from IES and Ascendium, CAPR begins long-term follow-up studies of original evaluations and multiple measures research and technical assistance



CAPR \

2022

Synthesis, MMA toolkit, and other 2.0 findings released

In addition to a report synthesizing developmental education intervention impact and implementation research conducted in the past 10 years, CAPR released several reports on assessment and placement and a MMA toolkit.

Insights from the Research

- 1. Grant students access to college-level math and English courses.
- 2. Provide targeted and tiered supports to address students' academic and nonacademic needs.
- 3. Employ contextualized curriculum and student-centered pedagogy.
- 4. Use equity-minded approaches for design and implementation.
- 5. Implement developmental education reforms alongside comprehensive, sustained supports to improve long-term outcomes.



Generating More Equitable Outcomes

On the whole, developmental education reforms with positive impacts have improved outcomes for all groups equally.

To achieve more equitable outcomes, reforms must begin to reduce existing disparities in outcomes across groups as well.



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Implementing **Multiple Measures Assessment to Increase Access to College-Level Courses**

CCRC

CAPR

Elizabeth Kopko

A Need for Placement Alternatives

- Single-test placement systems do a **poor job of placing students** (Belfield & Crosta, 2012; Scott-Clayton, 2011)
- Multiple measures assessment (MMA) provides a more holistic picture of students' academic preparation by relying on a broader set of measures that reflect achievement over time (e.g., high school GPA, coursetaking patterns, noncognitive assessments)
- CAPR researchers led an efficacy study to determine the causal effect of using an **algorithmic approach to MMA** compared to status quo

Study Design

- Seven State University of New York (SUNY) community colleges
- Developed algorithms (combining test scores + HS transcripts) to predict students' probability of success in college-level courses
- Students testing between fall 2016 and fall 2017 were randomly **assigned** to be placed using either the existing placement method (business-as-usual) or the MMA algorithm (program group)
- Academic outcomes of 12,796 students were tracked for at least nine **semesters** from random assignment

How MMA Changed Students' Course Placements

RANDOMIZATION

Test Scores: College-Level

MMA: College-Level



Test Scores: College-Level

MMA: Dev Ed



Test Scores: Dev Ed

MMA: College-Level



Business-as-Usual (Placed by *Test Scores*) **College-Level** College-Level **College-Level** Dev Ed Dev Ed CAPR

Test Scores: Dev Ed

MMA: Dev Ed



Program Group (Placed by MMA)







How MMA Changed Students' Course Placements



Test Scores: Dev Ed

MMA: Dev Ed



Program Group (Placed by *MMA*)





Bump Zones

BAU: Dev Ed **Bump-up zone.** Students had ACCUPLACER scores that fell below the threshold for placement in college-level *Program Group*: College-Level courses but had algorithm scores that exceeded the threshold for placement in college-level courses.

Bump-down zone. Students had ACCUPLACER scores that exceeded the threshold for placement in college-level courses but algorithm scores that fell below the cutoff for college-level course placement.



BAU: College-Level

Program Group: Dev Ed



When given access to college-level coursework via MMA, many students succeed; Students who are denied immediate access fare poorly.

College-Level Course Completion Among Students in Bump Zones



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NOTE: Data labels represent impact estimates, or the percentage-point difference between the mean outcomes for business-as-usual (BAU) and program group students.

--- BAU completion --- Program group completion

***p < .01, **p < .05, *p < .10.

Bumping up students in math was just as effective as bumping up students in English.

College-Level Course Completion Among Students in Bump Zones



CAPR

NOTE: Data labels represent impact estimates, or the percentage-point difference between the mean outcomes for business-as-usual (BAU) and program group students.

--- BAU completion --- Program group completion

***p < .01, **p < .05, *p < .10.

Access to college-level coursework may drive academic momentum and success.

Credential Attainment or Transfer Among Students in the English Bump-Up Zone



- BAU - Program group

NOTE: Data labels represent impact estimates, or the percentage-point difference between the mean outcomes for business-as-usual (BAU) and program group students.

***p < .01, **p < .05, *p < .10.

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MMA had little to no impact on differences in outcomes within student demographic groups (among students in the full sample).

- After nine terms:
 - Female program group students were 2 pp more likely to complete a college-level math course
 - Female, Pell-recipient, and Black program students were more likely to complete a college-level English course (3 pp, 3pp, and 4 pp, respectively)
- MMA did not reduce any disparities between gender subgroups, Pell status subgroups, or race/ethnicity subgroups in the rate of completion of college-level math or English courses

Implications

- MMA should be used to expand access to college-level courses by giving many more students college-level placements.
- Colleges should use a form of MMA that is relatively easy to adopt and that mitigates the risk of lowering any student's placement.
- MMA's potential to improve equity requires deliberate consideration of the experiences of underserved populations.



Practitioner Perspective on Alternative Placement

Sharon Fox Dean, Communication and Arts

visit our website www.nwacc.edu

What should you know about NWACC?

It is the largest Community College in Arkansas

- Students F23: 8,409
- **Open enrollment institution**
- \$254.2 million

Economic impact (2020-21 study):

CAPR Data Colleges in Arkansas

- Northwest Arkansas Community College
- South Arkansas University Technical College
- University of Arkansas, Cossatot
- Arkansas State University, Mid South
- South Arkansas University, Magnolia
- Arkansas State University, Jonesboro





Developmental Options at NWACC

English

- Composition I
- Composition I plus Lab (co-req)
- Composition I with Reading Class/Writing Class (co-req - stopped) Fall 2021)
- Composition I plus Studio (co-req started Spring 2022)
- Composition I plus Comp Review (ELL)

Math

- Pre-reqs foundations of algebra, beginning algebra, intermediate algebra,
- College Algebra
- College Algebra with Intermediate Algebra (co-req)
- College Algebra with Review (co-req)
- Quantitative Reasoning
- Quantitative Reasoning with Review (co-req)



Multiple Measures: NWACC



Pilot Implemented: Fall 2020 – pandemic!



Focus Prior to implementation: Accuplacer; ACT; SAT Writing Sample



Standards of College Read NorthWest Arkans June	iness for Reading and Writing as Community College 22, 2020
	19 ACT English 19 ACT Reading 480 SAT Critical Reading 480 SAT Writing 78 ACCUPLACER Classic Readi 83 ACCUPLACER Classic Sente
Any of the following scores/measures equals placement into ENGL 1013, College Composition:	260 ACCUPLACER Next Gener 252 ACCUPLACER Next Gener 2.85 High school G.P.A. 165 GED 428 ACT Aspire 10 Reading
	428 ACT Aspire 10 English 5 International Baccalaureate 4 ELPA (Level) 3 Advanced Placement (any s Completion of college course transcript) with a grade of C of

ing Comprehension ence Skills ation Writing ation Reading (IB) (any test) ubject test) work elsewhere (verified by or better from an accredited



Who needed to be in the discussion?

- Math
- English
- English for College and Career
- Assessment
- Registrar
- Financial Aid
- Enrollment Services
- Veteran Services
- First Year Successful Student

- Chief Academic Officer
- Associate VP for Learning and **Institutional Effectiveness**
- Chief Information Officer
- Institutional Research
- Testing Services
- Disability Resource Center • Adult Education

The first semester of implementation: Fall 2020

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Math

•HS GPA (threshold varies)

•HS course-taking (Pre-Calculus or Statistics with a C) English

•ACT/SAT/Accuplacer

Where are we right now?

•HS GPA (threshold 3.0) •ACT/SAT/Accuplacer





	Fall 2018	Fall 2023	%F18	%F23
Taking ENGA course	642	386	8.1%	4.6%
Taking Dev MATH course	1,268	744	16.0%	8.9%
Taking both ENGA/Dev MATH courses (*Also counted in ENGA/Dev MATH breakout)	366	205	4.6%	2.5%
Total Students	7,938	8,317		



Obstacles Advisor turnover etc. taken

First week growing pains: LOEP, incomplete information

Equity: IEP, ELL students,

Previous college classes: no standard for the course

Mat's next?

 Final decisions on cut-off scores for Math and English courses (at all levels). Successful placement of our ELL students Successful placement of students with IEPs

Planned implementation: Fall 2024 catalog

Supporting Underprepared **Students: Math Pathways**

MDRC

CAPR

Susan Sepanik

Dana Center Math Pathways Long-term Follow-up Study

- What is Dana Center Math Pathways?
 - Developmental math reform began in 2011
 - Four key components:
 - Multiple math pathways aligned to different fields of study
 - Accelerated developmental math sequence
 - Evidence-based, student-centered curriculum and pedagogy
 - Student success strategies



Dana Center Math Pathways Long-term Follow-up Study



Long-Term Follow-up

- Individual-level randomized controlled trial at 4 Texas colleges
- Follows students for 5 years after random assignment
- Looks at:
 - College Math Completion,
 - Academic Progress (credits earned),
 - Academic Attainment (credential attainment) or enrollment at a 4-year college)



Dana Center Math Pathways Long-term Follow-up Study

- Long-term Follow-up Findings
 - After 5 years, DCMP still had a positive impact on:
 - Completion of first college-level math course (6 pp)
 - After 5 years, no significant impacts were found on:
 - Overall college credits earned
 - Credential attainment or enrollment at a 4-year college
 - DCMP best supported students who tested two or more levels below college ready and female students.
- No significant differences were found between racial and ethnic groups

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a 4-year college d two or more idents. ween racial and

The Role of Research in State **Reform Efforts**

Nancy S. Shapiro University System of Maryland

October 25, 2023



What problem were we trying to solve in Maryland?

Cost o
(per st





of Developmental Education tudent per year)

What is the USM and why did this land in our office?



- USM is the **most diverse public system** in the country □ Serves **170,000** students
 - **Institutionally** and **geographically** diverse



□ Acts as a "**convener**" within and across the system



Had an existing P20 Policy Office and access to federal grant money



Common goals

- **Reduce time spent** in developmental/remedial math
- Increase the percentage of 1st year students successfully completing developmental math and general education math
- **Develop math pathways** to place students in more appropriate courses for their educational goals and degree program area
- Provide better advising for incoming first-years to support other goals







Students enroll in either the new or existing developmental math course

Data are collected from participating institutions over four semesters. Cohort 1: Summer/Fall 2017 to Winter/Spring 2018 Cohort 2: Winter/Spring 2018 to Summer/Fall 2019

Additional enrollment/graduation data are collected from National Student Clearinghouse for transfer students

MMRI program logic



New developmental courses are designed and piloted

Success in developmental math



- developmental math?



• Were there differences between treatment and comparison students in the rate at which they passed • Yes. A statistically significantly larger proportion of treatment than comparison students **passed** developmental math.

Success in credit-level math



- credit bearing math?
- comparison students.



• Were there differences between treatment and comparison students in the rate at which they passed • No. Once enrolled in a credit bearing math course, there were no significant differences in passing rates between treatment and

Reducing the number of attempts to pass



- passing?
- students.



Among students passing developmental math, were there differences between treatment and comparison students in the number of unique attempts they made before passing, or the number of semesters that elapsed before

• Yes. Treatment students made statistically significantly **fewer** attempts to pass and passed in fewer semesters than comparison

The Treatment was 36% more cost effective helping students enroll in credit bearing math compared to the Comparison

Components	Statistics Approach (Treatment)	Algebra Approach (Comparison)	
Number of students (N = 2,041)	748	1,293	
Effectiveness measure: Enrollment credit-bearing math	49%	34%	
Number who enrolled in credit-bearing math	367	440	
Total cost (student expenses)	\$1,833,960	\$3,424,940	
CE ratio: Average cost per successful student	\$5,000	\$7,790	
Efficiency gain	+36%		



Summary

- Statistics-based developmental math approaches can be cost effective and help underprepared students pass the math required by most majors
- Subgroup results show similar outcomes for part-time and older students
- Promising approach for reducing costs of and improving access to post-secondary educational opportunities and equity



an be cost effective and d by most majors e and older students ving access to



Nikki CCRC



Nikki Edgecombe

Hot Off the Press!

The Long-Term Effectiveness of Multiple Measures Assessment: Evidence from a Randomized Controlled Trial

Elizabeth Kopko, Hollie Daniels, & Dan Cullinan October 2023





Long-Term Effects of Dana Center Mat **Pathways Model: Evidence from a Randomized Trial**

Susan Sepanik & Sukanya Barman October 2023



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Thank you!

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