

Enhancing Early Academic Momentum:

The Impact of High School Transitional Math Courses on Community College Students

Addressing College Readiness

Research shows that early academic momentum, including taking and passing key gateway courses in the first year of college, is linked to higher degree completion rates. However, over two-thirds of community college students need at least one developmental education course before enrolling in gateway math and English, with many failing to complete these courses. Inadequate academic preparation and restrictive course placement **policies** contribute to this issue, disproportionately affecting Black and Latino students and those from low-income households. To address these gaps, several states have implemented high school transitional courses to prepare students for collegelevel coursework, enabling direct enrollment in credit-bearing gateway courses.

Illinois Transitional Math Program

This study examines the impact of a transitional math (TM) program implemented in Chicago Public Schools (CPS) as part of the Illinois Postsecondary and Workforce Readiness Act of 2016. The Illinois TM program is designed to support high school seniors who are intending to go to college but may not be eligible to take college-level coursework. It enhance their college readiness and seeks to ensure guaranteed placement into credit-bearing math courses at all Illinois community colleges and accepting universities. The program emphasizes real-world applications using contextualized content to promote problem-solving skills, helping students achieve their college and career goals.

Key Findings

High School Credit Accumulation and GPA



While the study found **no evidence that TM** participation improved general or math credit accumulation, overall GPA, or math GPA in high school, it underscores the need for targeted interventions to bolster these areas.

On-Time High School Graduation



There was **no significant impact on the likelihood of on-time high school graduation**, suggesting the need for additional supports to help TM participants stay on track.

Program Take-Up



Despite eligibility, only 29.8 percent of eligible students enrolled in TM during the study period. Of those who passed, only 57.7 percent have their TM completion verified by CCC, indicating that administrative barriers may hinder the program's efficacy.

Course Success



The relatively small number of students who successfully have their TM completion verified and enrolled in gateway math successfully passed the course 75.2 percent of the time. This rate is similar to the traditional pass rates for these courses, highlighting the importance of a seamless TM completion verification process.

Gateway Math Courses



However, given the challenges many students faced in translating TM course taking into gateway math course enrollment, the program overall did not significantly increase gateway math course pass rates.

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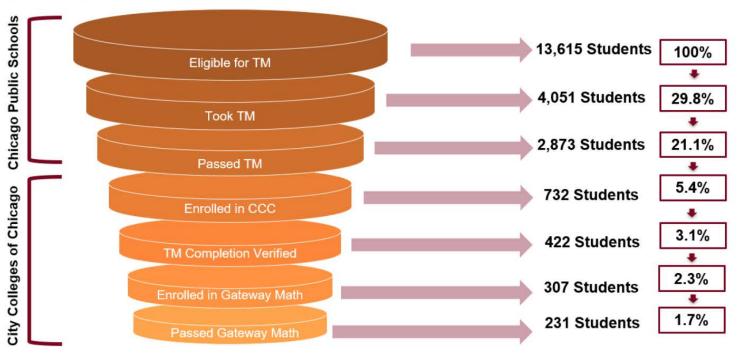
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From Eligibility to Success

Traditional pass rates for gateway math courses at City Colleges of Chicago (CCC) are about 70 percent. As shown in Figure 1 below, TM students who enroll in CCC and successfully have their TM completion verified are equally or more likely to pass compared to those placed through other pathways.

Figure 1: Transitional Math Pipeline



Note: Students who took TM in these samples are those who took TM for two semesters in schools that follow regular schedule and those who took TM for one semester in schools that follow block schedule.

Recommendations

To address these challenges and improve the effectiveness of the TM program, **two key recommendations** are proposed:

Increasing awareness about the benefits of TM, such as reduced college math requirements and improved readiness for college-level coursework, could motivate more students to enroll and succeed, expanding the program's reach and impact.

Clear TM completion verification
instructions throughout the application and
enrollment processes are essential to ensure
TM completion are recognized by
postsecondary institutions, maximizing the
program's benefits

These findings emphasize the promise of the TM program and the critical steps needed to enhance its impact on student success. By **increasing participation** and **improving the TM completion verified process,** the program could better support the academic momentum of community college students.

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