Planning Council Review

Student Success Rate in College-Level Math Courses Performance Measure 2024 Performance Measures for Student Success Report 2021-2024 Action Item Results and 2025-2028 Action Items Identified

Performance Measure: Student Success Rate in College-Level Math Courses (PM3)

Purpose: To ensure students are successfully completing credit-bearing Math courses within their first three academic years.

Description: Index score based on the percentage of first-time fall associate degree seeking and transfer pathway students passing a credit-bearing Math course with a "C" or better within three years.

Calculation:

Success Rate

Denominator: First-time fall associate degree and transfer pathway students (i.e., students with a curriculum code that begins with an A or P) during their first fall.

Numerator: Of those in the denominator, the number earning a standard letter grade of A, B, C, or P in at least one credit-bearing (course number >=100) Math course within three years (by the end of the third summer term).

Note: See appendix for new first-time fall cohort definition

Index Score

Pell and Underserved Race/Ethnicity (URE) Index Score: College success rate among cohort students receiving Pell whose race/ethnicity is identified as historically underserved divided by the statewide success rate among cohort students receiving Pell whose race/ethnicity is identified as historically underserved.

Pell and Non-Underserved Race/Ethnicity (Non-URE) Index Score: College success rate among cohort students receiving Pell whose race/ethnicity is not identified as historically underserved divided by the statewide success rate among cohort students receiving Pell whose race/ethnicity is not identified as historically underserved.

Non-Pell and Underserved Race/Ethnicity (URE) Index Score: College success rate among cohort students not receiving Pell whose race/ethnicity is identified as historically underserved divided by the statewide success rate among cohort students not receiving Pell whose race/ethnicity is identified as historically underserved.

Non-Pell and Non-Underserved Race/Ethnicity (Non-URE) Index Score: College success rate among cohort students not receiving Pell whose race/ethnicity is not identified as historically underserved divided by the statewide success rate among cohort students receiving not Pell whose race/ethnicity is not identified as historically underserved.

Pell and URE Denominator: Number of cohort students receiving Pell whose race/ethnicity is identified as historically underserved.

Pell and Non-URE Denominator: Number of cohort students receiving Pell whose race/ethnicity is not identified as historically underserved.

Non-Pell and URE Index Denominator: Number of cohort students not receiving Pell whose race/ethnicity is identified as historically underserved.

Non-Pell and Non-URE Index Denominator: Number of cohort students not receiving Pell whose race/ethnicity is not identified as historically underserved.

Total Numerator: (Pell and URE Index Score × Pell and URE Denominator) + (Pell and Non-URE Index Score × Pell and Non-URE Denominator) + (Non-Pell and URE Index Score × Non-Pell and Non-URE Denominator) + (Non-Pell and Non-URE Index Score × Non-Pell and Non-URE Denominator)

Total Denominator: Pell and URE Denominator + Pell and Non-URE Denominator + Non-Pell and URE Denominator + Non-Pell and Non-URE Denominator

Total Index Score: Total Numerator divided by Total Denominator

Excellence: 1.204 Avg Band Max: 1.114 Avg Band Min: 0.934 Baseline: 0.665

(2024 NCCCS Performance Measures for Student Success Report)

2021-2024 Action / Strategy Item Results:

Item	Action item identified in the 2021-2024	Results / Use of Results: (Provide results of the
	performance measures year-end reports	action item identified. Was the action item successful? If not, did you want to continue this action item going forward? If so, please include this action item in the 2025-2028 action items table below.)
1	Continue to offer one-on-one tutoring for all math courses	The mathematics department facilitated one-on- one tutoring sessions with students in addition to regularly scheduled office hours. These sessions were held on the following dates: • Spring 2022: April 1st, April 8th, and April 29th in preparation for exams. • Fall 2023: October 6th in preparation for MAT 171 Midterms • Fall 2023: December 1st and December 8th in preparation for exams. • Fall 2024: October 4th in preparation for MAT 171 Midterms • Fall 2024: December 1st – December 5th This one-on-one tutoring allowed any student the opportunity to come and get extra help to prepare for major exams. This will also be ongoing in the future. (I have flyers from these sessions for documentation, if needed.) Students also could visit Academic Skills Center and sign up for a peer tutor, virtual tutor, or a drop-in session.
2	Offering MAT 071 for students needing additional time to improve their skills in math	We scheduled MAT 071 offerings for each semester Fall 2021 to Spring 2024. New Developmental Education Alignment Project will begin to offer new courses MAT 025 and MAT 035 beginning Fall 2025.
3	Enrolling students in math for programs requiring math	We reviewed program requirements with advisees and enrolled them in appropriate math courses early in their program. We met with the College Transfer Advising Center as well as Lorie Waller, College and Career Program Director, to encourage students to take the required math early in their program of study. This will be ongoing in the future.

4	Focus on MAT 143 and MAT 171 offerings	We researched MAT 143 and MAT 171 offerings and offered them in several different modalities to encourage student success. • MAT 143: 2 hours 2 days a week, 1 hour 4 days a week, 8-week evening as well as 16-week 1 night a week on WCC campus, and online options. • MAT 171: 1 hour 4 days a week, one section per hour from 8am until 3pm, online, and late start online options. Some sections of MAT 143 are offered in a global format for students. Therefore, we offer the highest enrolled classes various modalities for their course selection.
5	Instructor's use of creative activities to engage student online learning	We provided professional development training to math faculty on how to add creative activities to engage student learning. Basic Quizizz Training Al Quizizz Training Harmonize Training Moodle Training Al Training Using these trainings, the math faculty have updated their classes with various activities to make them more engaging.

Student Success Rate in College-Level Math Courses – Performance Data

Year	Cohort	Enrolled	Enrolled &	% College-Level MAT	% Enrolled and	
			Successful	Enrollment	Successful	
Fall 2015 Cohort	716	439	343	61%	47.9%	
2019 NCCCS Report	710	439	343	01/0	47.570	
Fall 2016 Cohort	705	411	322	58%	45.7%	
2020 NCCCS Report	705	411	322	30%		
Fall 2017 Cohort	700	433	338	62%	48.3%	
2021 NCCCS Report	700	455	330	0270	40.370	

Source: NCCCS Performance Measures for Student Success Report

Ī	Year	ı	Fall Cohort		S	uccess Rat	:e	Index	Total	
		Pell	Non-	Total	Pell	Non- Total		Pell	Non-	Index
			Pell			Pell			Pell	Score
ĺ	2018	211	452	663	33%	53%	46%	0.948	1.022	0.998

Source: NCCCS Performance Measures for Student Success Report

	Fall Cohort					Fall Cohort Success Rate						Index Score			
Year	Pell/URE	Pell/Non-URE	Non-Pell/URE	Non Pell/Non- URE	Total	Pell/URE	Pell/Non-URE	Non-Pell/URE	Non Pell/Non- URE	Total	Pell/URE	Pell/Non-URE	Non-Pell/URE	Non Pell/Non- URE	Total Index
Fall 2019	109	77	195	326	707	30%	49%	36%	57%	46%	1.077	1.204	0.914	1.132	1.071
Fall 2020	111	60	189	261	621	26%	43%	35%	45%	38%	0.878	1.041	0.891	0.902	0.908

Source: NCCCS Performance Measures for Student Success Report

Overall assessment of Performance Measure: (Based on the performance measure data, provide a narrative of your analysis of the results. State any changes you plan to make for continuous improvement.)

WCC is currently 41st out of 58 colleges in this measure, with an index score of 0.908 (color indicator, red; ≥Baseline, <Avg. Band Min). WCC's Fall 2020 cohort totaled 621 which resulted in 61.5% of students were non-successful versus 38.5% of student successful in meeting the math performance measure.

2025-2028 Action / Strategy Items:

(Identify and address measure assessments resulting from the review of the data. Targets are established on a three-year cycle to provide ample time to address the action and achieve measurable results.)

Item	Action / Strategy Items (Identify action items	Assessment of Action Items (How will you assess
	as a result of measure assessment.)	the results of action items?)
1	Continue to offer one-on-one tutoring for all	Provide dates of tutoring sessions.
	math classes.	
2	Enroll students in required math course(s)	Provide the total numbers of fall cohorts and how
	within their program of study early in their	many students out of the cohort signed up for
	academic journey.	math classes.
3	Begin a targeted marketing campaign to promote early enrollment into curriculum math classes.	Develop informational materials on the importance of taking math early in programs. Highlight success stories from students that did take math early in their program. "Meet our Instructors" Include biographies of current math instructors. Include positive student comments about current instructors. • Ideas: Brochures, Flyers, Posts on the Arts & Sciences and WCC Facebook pages, and other types of social media. • Distribute to DevEd students, CTAC, post flyers around campus, etc.