



SBVC Math AB 705 Reform

Phase 1: Analysis

The background features a dark blue gradient with a prominent, glowing tunnel-like structure on the right side. This structure is composed of numerous thin, parallel lines that curve and converge, creating a sense of depth and movement. The lines are illuminated from within, with a bright white and light blue glow at the top of the tunnel, which fades into a darker blue as it recedes into the distance.

- SBVC AB 705 Implementation went into effect Fall 2019.
- Initially Math 095/096 were still offered to support students.
- Co-requisite courses were implemented Spring 2020.

Table 1. Total Success

Math Course Success Rates			
Fall Terms	2017	2018	2019
Math Course	Success	Success	Success
942	68.9%	59.5%	n/a
952	73.5%	83.4%	n/a
962	78.2%	65.3%	33.8%
090	52.6%	56.4%	n/a
095	61.1%	63.3%	39.1%
096	n/a	n/a	34.8%
102	52.2%	62.9%	37.4%
103	49.5%	49.6%	48.4%
108	63.0%	56.8%	55.3%
115	54.2%	70.0%	64.2%
141	n/a	n/a	81.8%
151	63.4%	50.6%	56.9%
250	58.8%	54.1%	55.0%
251	52.8%	59.7%	48.7%
252	90.0%	78.6%	88.9%
265	n/a	28.6%	77.3%
266	88.9%	50.0%	90.2%
Psych-105	61.3%	68.8%	67.6%

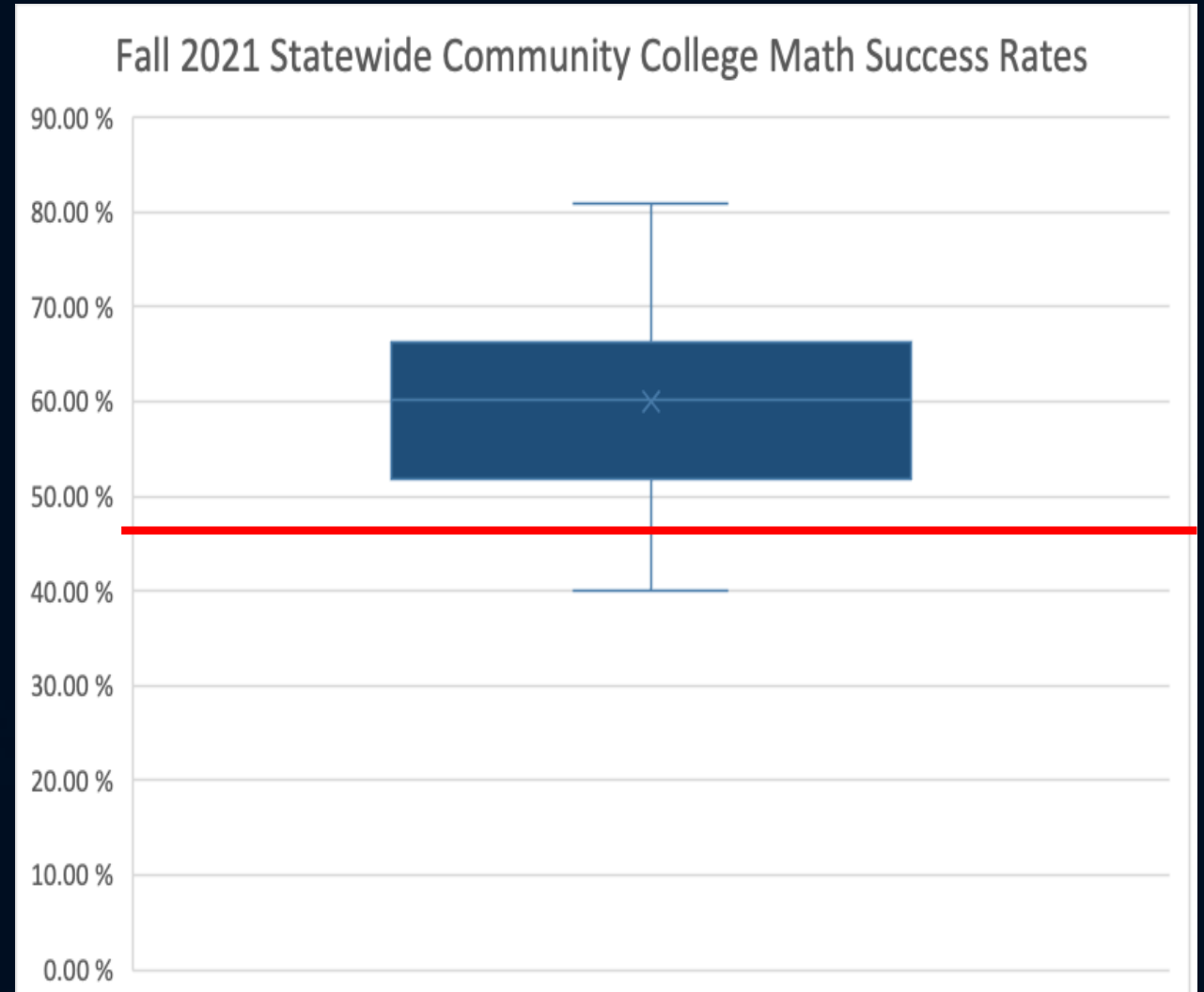
n/a = 5 or less students

Table 2. Total Retention

Math Course Retention Rates			
Fall Terms	2017	2018	2019
Math Course	Retention	Retention	Retention
942	92.1%	92.3%	n/a
952	94.8%	93.8%	n/a
962	94.6%	92.6%	75.2%
090	87.4%	88.6%	n/a
095	88.9%	91.3%	81.2%
096	n/a	n/a	79.7%
102	84.9%	86.4%	80.8%
103	82.5%	82.9%	82.1%
108	81.9%	81.4%	87.0%
115	83.3%	83.3%	92.7%
141	n/a	n/a	81.8%
151	91.5%	80.9%	88.1%
250	91.2%	87.8%	91.6%
251	83.3%	85.5%	75.0%
252	90.0%	85.7%	94.4%
265	n/a	92.9%	93.2%
266	88.9%	75.0%	97.6%
Psych-105	96.8%	100.0%	91.0%

Fall 2021 Assessment of SBCCD's Math Transfer- Level Success Rates

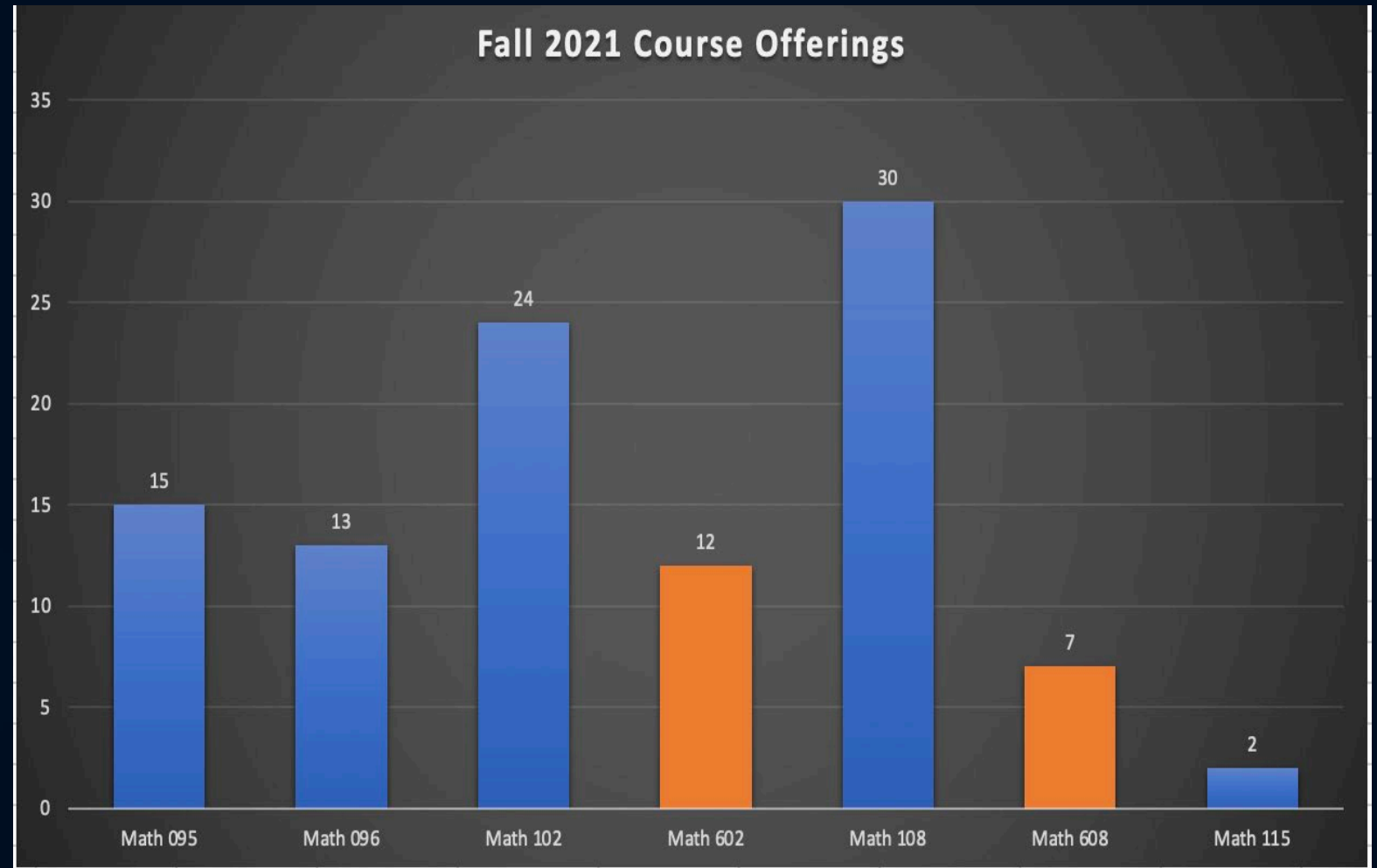
- The median transfer-level success rate of California Community Colleges was 60.09%.
- SBVC places at the **12th percentile** with a Fall 2021 transfer-level math success rate of **48.75%**.
- Crafton Hills colleges scores at the 61st percentile with a success rate of 52.88%.
- SBVC EMP data has 20-21 success rates at an overall 45%.



Two Major Issues within Infrastructure:

1. Support Courses were not Filling.
2. Math Courses Not Aligned with Programs of Study.

- Many majors being filtered into college algebra.
- Matriculation data gives that majority of SBVC students are SLAM majors.



The background features a series of concentric, glowing blue lines that create a sense of depth and movement, resembling a tunnel or a vortex. The lines are more densely packed and brighter in the center, fading towards the edges. The overall color palette is various shades of blue, from deep navy to bright cyan.

Phase 2: Math Pathways

SLAM

Liberal Arts
Pathway

Teacher Prep
Pathway

Statistics
Pathway

Finance
Pathway

BSTEM

Business Calc
Pathway

STEM
Pathway

Math 115 Ideas
of Mathematics

Math for
Educators

Math 608
Statistics
Corequisite
Math 108
Statistics

Math 120
Mathematics
and Society

Math 641
Business Calc
Corequisite
Math 141
Business
Calculus

Math 651
Precalculus Corequisite
Math 151
Precalculus

Math 250 Calculus 1

Math 265 Linear Algebra

Math 251 Calculus 2

Math 266 Differential
Equations

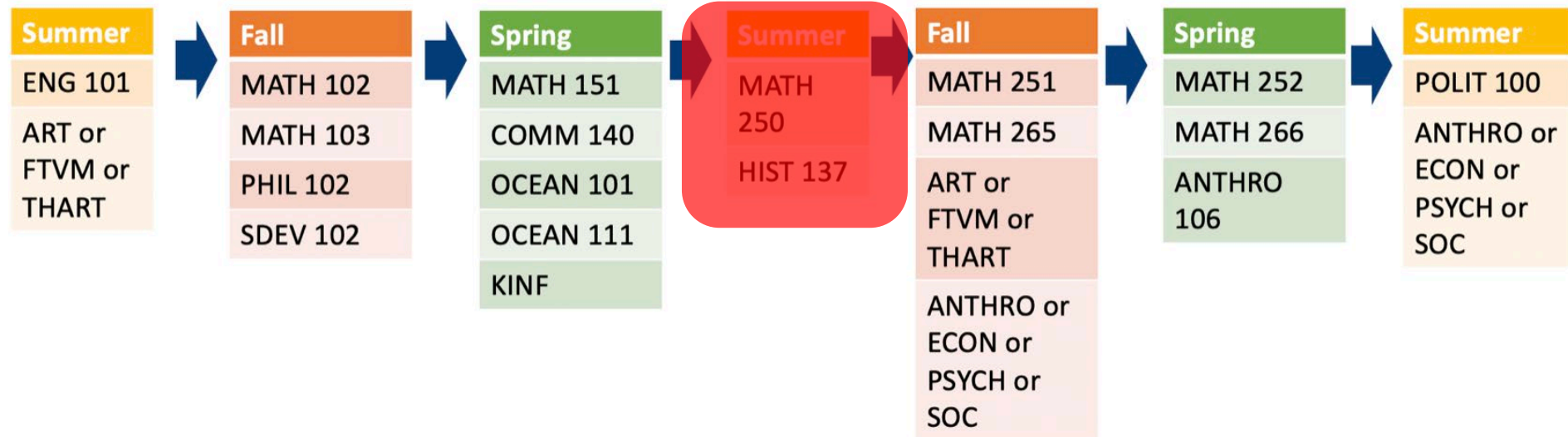
Math 252 Calculus 3

Not Degree Applicable
Degree Applicable for CSU Transfer
Degree Applicable for CSU/UC Transfer

The background features a dark blue gradient with a prominent, glowing tunnel-like structure on the right side. This structure is composed of many thin, parallel lines that curve and converge, creating a sense of depth and movement. The lines are illuminated from within, giving them a bright blue, almost white glow, which fades into the darker blue background as they recede.

Phase 3: New Placement Models

AST Full-Time Non Calc Ready



STEM Placement

High School Performance Metric for STEM Mathematics	Recommended AB 705 Placement for STEM Mathematics
HSGPA \geq 3.4 Or HSGPA \geq 2.6 AND enrolled in HS Calculus Course	Math 151 Or Math 250 Per Department Chair Challenge
HSGPA \geq 2.6 or enrolled in HS Precalculus	Math 151 with Math 651
HSGPA $<$ 2.6 and no Precalculus	Math 151 with Math 651 or Math 102/Math 103 Cohort

*Students that receive an A/B Combo in Math 102 and Math 103 can bypass Math 151.

** Per State Chancellor recommendation, the STEM table presumes student completion of Algebra 2, an equivalent such as integrated Math 3, or higher course in high school. Students should be informed that Algebra 2 is highly recommended as preparation for a STEM-oriented gateway mathematics course and that their likelihood of success will be higher in a statistics course.

Business Calculus

High School Performance Metric for Business Calculus Mathematics	Recommended AB 705 Placement for Business Calculus Mathematics
HSGPA \geq 3.4	Math 141
HSGPA $<$ 3.4	Math 141 with Math 641

*Business majors should meet with a counselor to review the business program at the university for which they want to transfer as requirements may vary across universities. UC campuses require Math 250 for example.

** Math 141 assumes you have completed Algebra 2, Math 3, or an equivalent course in high school.

SLAM (Statistics and Liberal Arts Mathematics)

High School Performance Metric for Statistics/Liberal Arts Mathematics	Recommended AB 705 Placement for Statistics/Liberal Arts Mathematics
HSGPA \geq 3.0	Math 108, Math 115, Math 120 (Fall 2023), Math for Educators (Fall 2023), Econ 208*, or Psych 105*
HSPGA < 3.0	Math 108 with Math 608, Math 115, Math 120 (Fall 2023), Math for Educators (Fall 2023), Econ 208*, or Psych 105*

*Enrollment into Econ 208 or Psych 105 per counseling advisement.

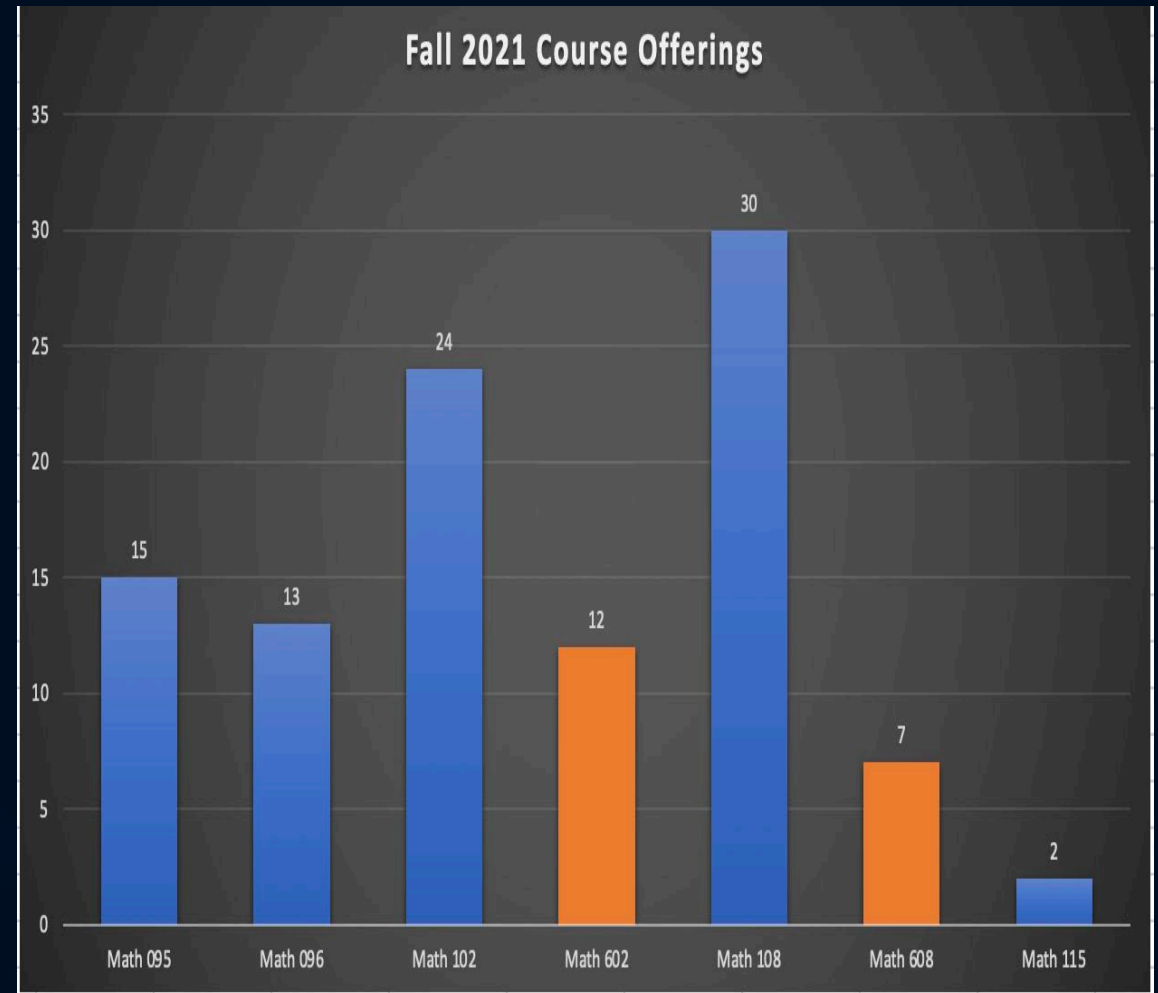
- Self-Guided Placement is currently being updated.
- New launch in summer.
- Advising will be done with new placement charts starting in April.



The background features a dark blue gradient with a complex, glowing pattern of concentric, curved lines that create a sense of depth and movement, resembling a tunnel or a futuristic architectural structure. The lines are more densely packed and brighter in the center-right area, fading into the dark blue on the left.

Phase 4: Full AB 705
Compliance Fall 2022

- Community Colleges will not offer math courses below transfer level starting Fall 2022.
- Math 095/096 will be removed from Fall 2022 schedule.
- Math 601 will be used for credit by examination process for students enrolled in program for local degree.
- Prerequisite course data for 095/096 has been analyzed to determine ramifications of removal. Many CTE programs had another math option available, and math department has worked with other chairs, articulation, and curriculum to remedy prerequisite issue.
- Program map enrollment data will be analyzed to place intermediate algebra students in a more suitable math course for their program of study.

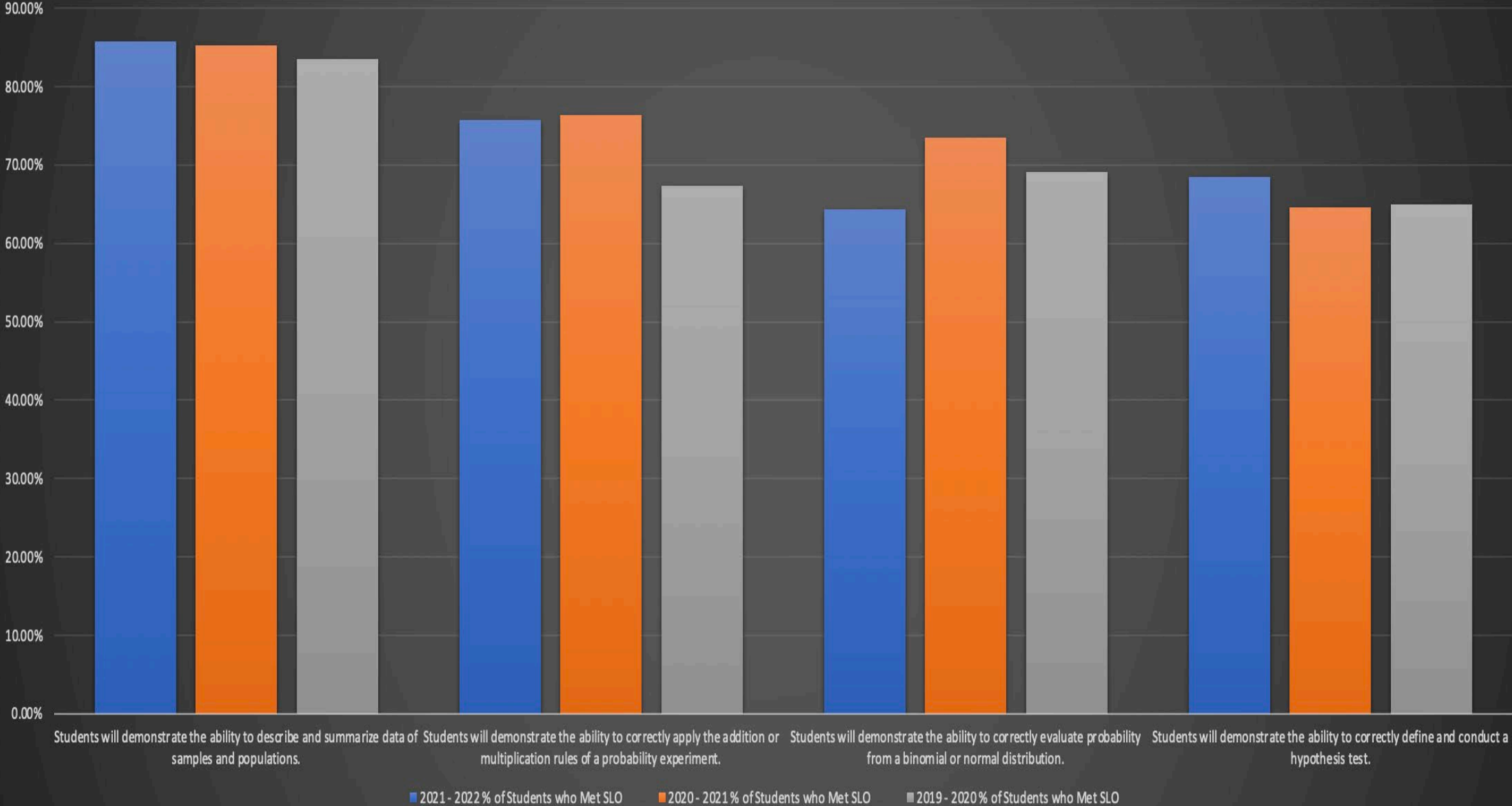


The background features a dark blue gradient on the left that transitions into a bright, glowing blue tunnel-like structure on the right. The tunnel is composed of many thin, parallel lines that curve and converge, creating a sense of depth and movement. The light source is at the far end of the tunnel, casting a bright glow that fades as it moves towards the foreground.

Phase 5: Next Steps

1. Uniform and aligned course models for co-requisite courses for college algebra and statistics. Available to students Fall 2022.
2. Reform tutoring efforts. Incorporate embedded tutoring models into transfer-level courses. Unify tutoring efforts with STEM, MESA, Student Success Center, and DSPS.
3. Analyze SLO data for instruction improvement in transfer level courses.

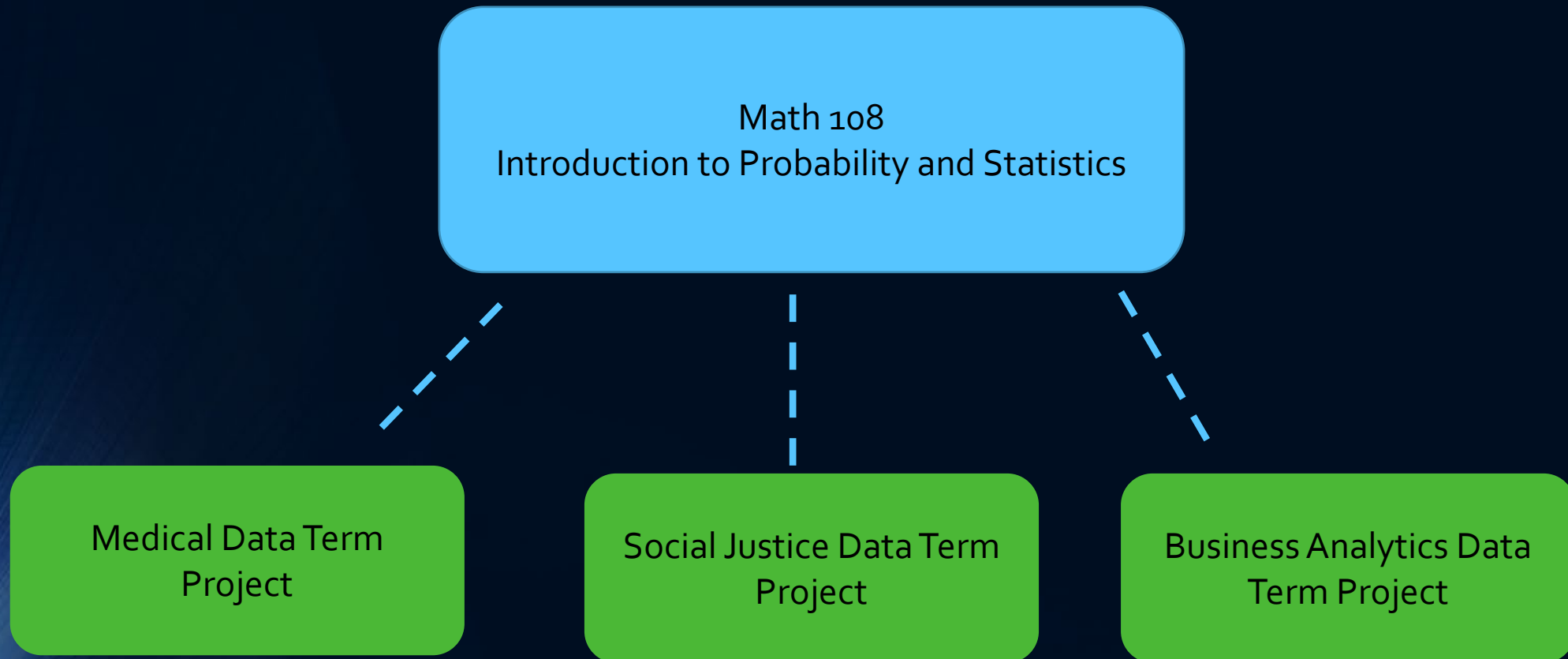
Math 108 SLO's



- SLO 4 (Students will demonstrate the ability to correctly define and conduct a hypothesis test) is taught near the last quarter of the semester.
- Community of practices efforts will address content issues with all 108 instructors before last quarter of semester to develop instruction techniques for improving outcomes in area.
- Tutoring efforts can be strengthened or enhanced with workshops during time period of semester where chapters are taught.

Course Project Pathways

- Students will have the ability to choose a course project that relates to their program map of study.



Align Math Course with Guided Pathway Maps

- SOAA objective
- Use CurrlQunet Meta capabilities to attach a math course to each program map that is relevant to study's program of study.