

Mathematics Pathways

Bachelor's Degrees Awarded in CT

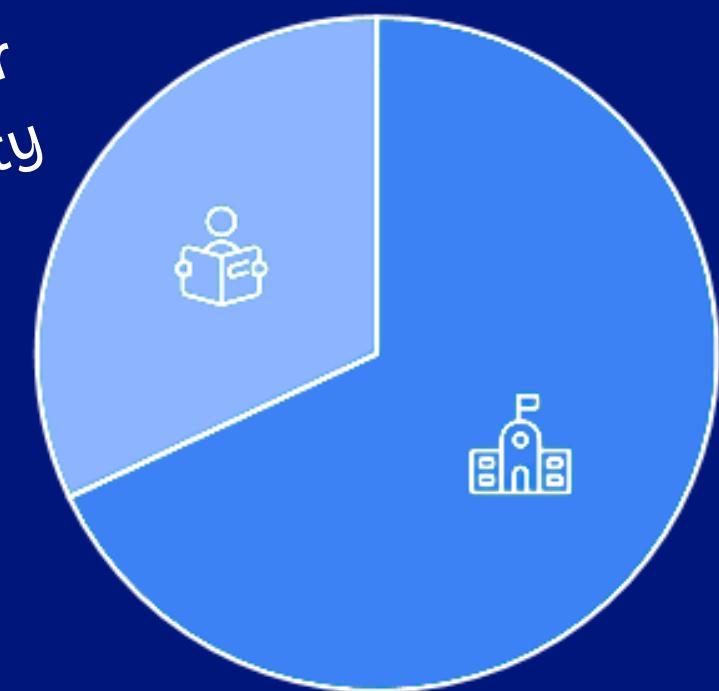


From 2020–2023, 30% (orange) of college degrees awarded in CT required calculus.

70% (yellow) of bachelor's degrees awarded in CT did not require calculus.¹

CT Class of 2023 Enrollment Rates

32% not enrolled in college or university



Source: public-edsight.ct.gov

68% enrolled in college or university

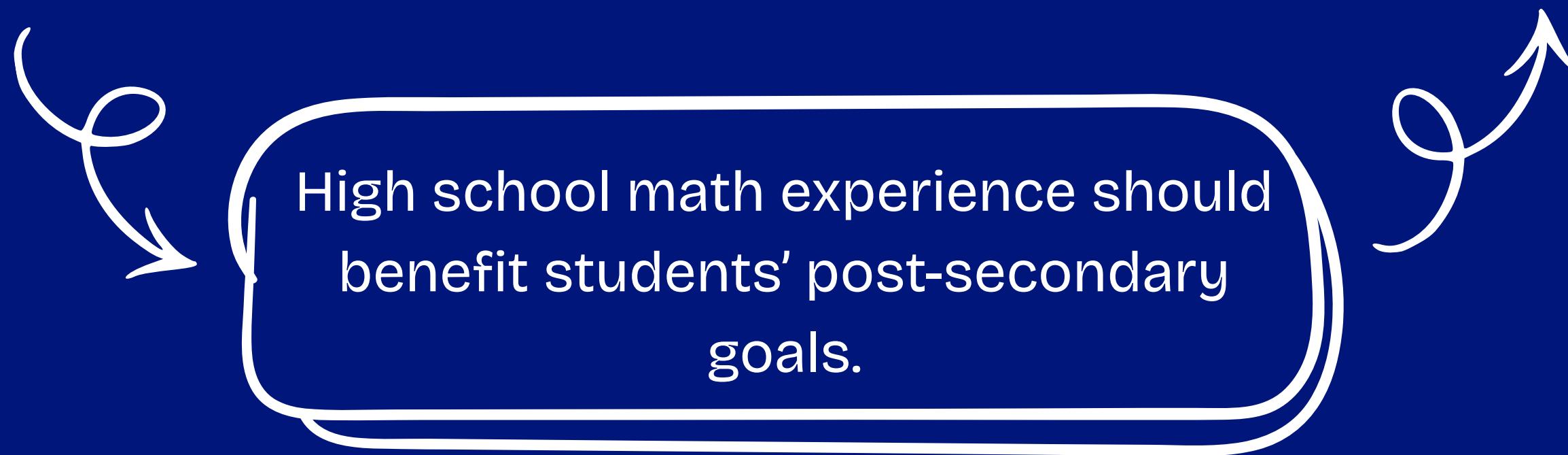
What Math do students really need?

1

There is a disconnect between math courses and their relevance to students' future goals and career advancements.

2

There is an overemphasis on a path to calculus that disserves many students.



Mathematics Pathways are sequences of courses or other learning opportunities that foster students' mathematical development in alignment with their interests and post-secondary goals.



Promoting student course choice increases relevance, leading to better attendance, engagement, and achievement.



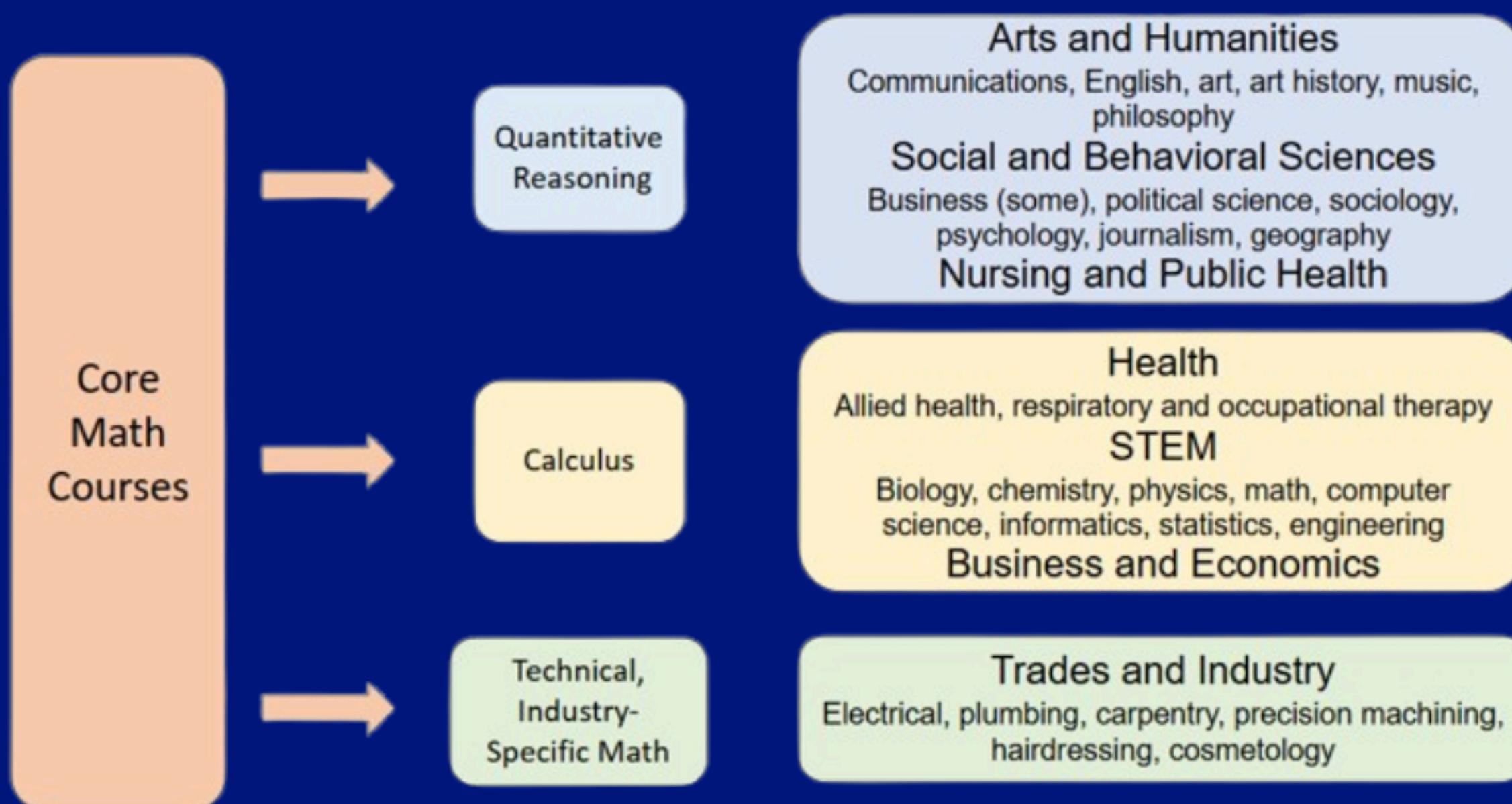
Providing access to courses aligned with career trajectories prepares students for post-secondary plans.



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Education

Mathematics Pathways

Course placement and offerings should be based on student interest and future goals, not solely on academic performance.



The Launch Years Initiative supports the scaling of math pathways that align to students' goals and aspirations. 27 states have joined this work, including [Indiana](#), where an example pathway is shown above.

What high-quality math options should CT schools offer in order to best prepare students for their future goals?
How can CT schools best leverage existing courses and personnel to strategically innovate?

The Pressing Questions

Percent of Alliance Districts Offering Courses for Potential Pathways

| | Statistics | Calculus | Computer Science and Data Science | Financial Literacy/Consumer Math | Applied Math and Modeling | Discrete Mathematics |
|----------------------|------------|----------|-----------------------------------|----------------------------------|---------------------------|----------------------|
| % offering | 97% | 100% | 40% | 29% | 17% | 29% |
| % offering AP or ECE | 79% | 97% | 34% | 0% | 0% | 20% |

Data sourced from 2025 Alliance District Symposium.

CT's 35 Alliance Districts are all poised to make changes with their current course offerings.

