



Quantway transforms introductory college math from a gatekeeper to a gateway, particularly for traditionally underserved students.

What is Quantway 1?

Quantway 1 is an accelerated quantitative reasoning course that:



Provides students and college institutions with a more **successful alternative to the traditional developmental mathematics sequence** for students who are placed two course levels below college-level mathematics.



Allows students to complete their developmental mathematics requirements in a single term so they can be eligible to enroll in a college-level quantitative reasoning course.

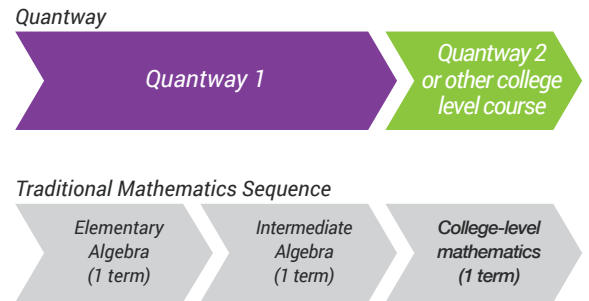


Is taught using a unique pedagogical approach that promotes collaborative learning and addresses socio-emotional factors that affect student success; employs innovative curricula supported by aligned assessments and an online student platform.



Provides students with a firm conceptual mathematical understanding in order to master developmental goals and use quantitative tools intelligently in their daily lives (aligned with AMATYC stance on the preparation of non-calculus-track students).

Traditional Mathematics Sequence vs. Quantway



Why should your institution adopt Quantway 1?



Quantway 1 students outperform students who take the traditional remediation track **in half the time**. Nationally, only 29% of students successfully complete the traditional sequence by the end of **two terms**, while 56% of Quantway students successfully complete the course in **one term**.¹



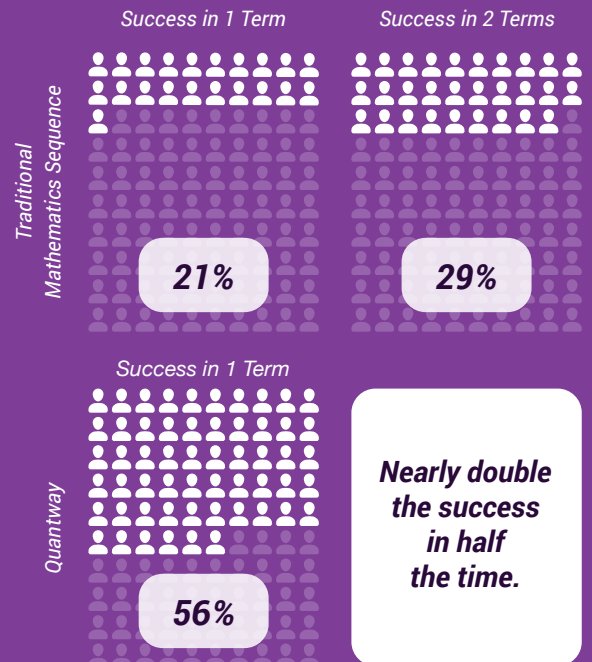
Many more first-generation, female, low-income, Hispanic, and African-American developmental mathematics students are able to achieve higher levels of education.



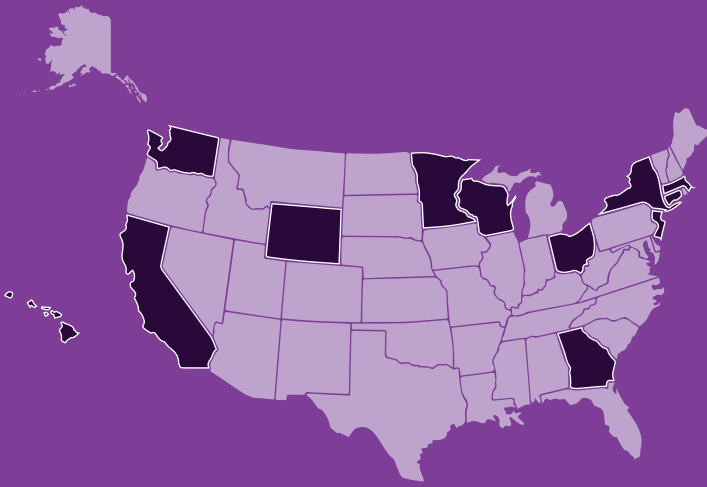
Quantway 1 has produced consistently positive and substantial improvement in student results, even as the national annual enrollment has tripled.



Students save time and money by completing transfer-level mathematics requirements more quickly. Institutions save money because Quantway 1 students go on to take and succeed in more courses.



Why should faculty join the network?



Quantway courses are being offered by more than 20 higher education institutions across 12 states and is expanding quickly.



Faculty teaching Quantway benefit from a comprehensive professional development program that includes online resources, faculty mentorship, and a community of support.



Network faculty lead the training and mentoring of all new faculty joining the network.



Faculty teams, each comprised of over a dozen faculty, lead all of the core aspects of the development and improvement of the program.



The Quantway instructional system also includes a common technology platform that supports teaching, rapid data analytics, and professional learning across the national network.



It's very inspiring to me as a faculty member that there are other people out there who are putting so much energy and so much intellectual power into helping us help students.

*-Kristin Spiegelberg,
Cuyahoga Community College, Quantway Faculty*

Most math classes I would go to I would have anxiety about. They'd just give me a sheet of equations and say, 'do them.' Now I actually enjoy coming to class...It has definitely changed the way I think about math, and it gives me inspiration that I can do it.

-Justin Daley, Quantway Student

How was Quantway 1 developed and designed?

Quantway 1 was created through a collaborative process that included community college and university faculty and was developed using a strong pedagogical research base. Researchers, practitioners, and the major mathematics professional societies worked together to establish the learning outcomes and design principles that guide student work.² Quantway 1 was developed and continues to be improved by community colleges for community colleges.

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References

¹ Sowers, N., & Yamada, H. (2015). Pathways Impact Report. Retrieved September 1, 2015, from: https://www.carnegiefoundation.org/wp-content/uploads/2015/01/pathways_impact_report2015.pdf

² The Mathematical Association of America (MAA), National Numeracy Network (NNN), and American Mathematical Association of Two-Year Colleges (AMATYC) all provided letters of support and endorsement for the Quantway learning objectives.

For more information, email pathways@carnegiefoundation.org.



Carnegie's work on Quantway and Statway is supported by The William and Flora Hewlett Foundation, the Bill & Melinda Gates Foundation, the Lumina Foundation, The Kresge Foundation, the Carnegie Corporation of New York, the Great Lakes Higher Education Corporation, and the National Science Foundation's grant DUE-1322844.