



## Transforming Student Learning with Online Course Solutions

50 INSTITUTIONS

Carnegie Math Pathways Quantway and Statway online course solutions are changing students' experience with learning mathematics remotely.

Since their launch in 2019, these course solutions have been offered at more than 50 institutions, serving over 5,000 students. And they've demonstrated the same high success rates as our in-person courses, even as implementation scaled in fall 2020.

5K+ STUDENTS SERVED

In 2018, Carnegie Math Pathways partnered with educators in our community and education technology experts to reimagine our Quantway and Statway solutions for the online space with the aim of creating an online learning experience that is just as effective as our in-class course solutions.

Building off the evidence-based features of our in-person solutions, and designed to avoid the pitfalls of traditional online courses, Carnegie Math Pathways online course solutions use technology tools and a thoughtful design model to create an engaging, intuitive, and supportive experience for students and instructors.

Our online solutions uniquely integrate an adaptive learning technology for individualized support with video conferencing to enable small group collaborative learning.

The solutions retain our focus on making mathematics relevant and relatable, and address the social emotional factors that affect students' learning and persistence. The platform infrastructure also includes built-in data tools that provide instructors with meaningful feedback to understand the student experience and to intervene in key areas of student learning and engagement.

### PATHWAYS ONLINE DESIGN PRINCIPLES

- Always Welcoming** Feel like you belong, right from the start
- Coherent** How everything fits together is clear
- Adaptive** A learning system that meets you where you are
- Collaborative** Teach others and learn from them
- Intentional** A controlled structure and flow, where there is always an explicit next step
- Supportive** Help is there when you need it
- Interactive** Rich, meaningful, and productive communication

## Results

At the college-level, students enrolled online in Statway College and Quantway College have an average 71% success rate.\*

Students taking Quantway Core online, a single course that replaces a sequence of developmental courses and prepares students for success in college level mathematics, have shown a 65% success rate\*.

Additionally, based on survey data from students and instructors, the collaborative component of the online design is seen as a valuable and beneficial part of the learning experience and contributes to success in the course.

*\*Success rate based on a C-grade or higher.*

## Getting Started

We support educators in the online delivery of Carnegie Math Pathways course solutions through specialized instructional training and peer mentorship.

To learn more about the Carnegie Math Pathways course solutions and our educator supports, visit [www.carnegiemathpathways.org](http://www.carnegiemathpathways.org).

## About Carnegie Math Pathways

We believe that math should be a gateway, not a gatekeeper for college graduation. Together with a nationwide community of educators, we're fundamentally reimagining math teaching and learning to create course solutions that meet the diverse needs of students and ensure that every student — regardless of their race, ethnicity, zip code, or income — can access high-quality math learning opportunities that prepare them for college and career success.

“

I went completely online with my major and did not feel that I had any connection with my other peers after each class was over. With Quantway College online, I was able to establish an actual relationship with my peers and actually felt that I was in a class with others.

*Stephanie Paszkiewicz  
Former Quantway Student  
University of Wisconsin-Milwaukee*

