

Increasing Student Success with Corequisite Solutions

Students in Carnegie Math Pathways' Quantway and Statway Corequisites are succeeding at 3 to 4 times the rate of students in traditional math sequences.

Since fall 2017, Quantway and Statway Corequisites have seen a combined average student success rate of **68.4%** (C or better). By comparison, only 6% of students in the traditional approach—developmental courses followed by a credit course—earn college-level credit within a year, and only 20% within three years.

Designed with a focus on relevant content, collaborative learning, and tailored supports, Carnegie Math Pathways Corequisite Solutions are helping more students earn college math credit in less time and with less expense.

A thoughtful and flexible corequisite solution

Quantway and Statway Corequisites are quantitative and statistical reasoning course solutions, each designed as a one-term college-level course with corresponding corequisite support materials. They build on the design features of the proven Quantway and Statway 2-term pathways, which have for years helped accelerate students' path to and through gateway college math.

Structured to meet multiple implementation models, these solutions give educators the flexibility to provide students with the level of support needed. Educators can adapt these solutions to a cohort or non-cohort implementation model with various credit and contact hours.

By the Numbers



Student Success Rates: Pathways Corequisites Compared to Traditional Sequences



Sample Implementations

Pathways corequisites have supported a variety of implementation models

| Credit Hours | Contact Hours | Delivery of Corequisite |
|--------------------------------|---|---|
| 4-7 credits | 4-7 contact hours* | Separating and delivering coreq and college content on alternating days |
| 1-3 developmental math credits | *schools with higher contact hours have seen the highest course success rates | Integrating support and college content throughout each class period |
| 3-4 college math credits | | |

Attention to Student Engagement and Instructor Support

A critical factor in successful corequisite implementation is relevant curriculum and engaging instruction. Quantway and Statway Corequisites incorporate evidence-based design principles focused on creating an engaging and supportive learning experience.¹

Alongside these solutions are rich resources to support instructors with delivery, including in-depth preparation training, user guides, and peer mentorship from faculty deeply familiar with corequisite instruction and Carnegie Math Pathways materials.

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The class came together as a learning community in ways I have not seen in classes taught using a lecture model. Students were more engaged with the material and in each other's success.

Earle Crosswait
Math Faculty
Saginaw Chippewa Tribal College

Getting Started

Contact our team to discuss how we can support you and your institution to bring these solutions to your students:

info@carnegiemathpathways.org.



To explore our corequisite curriculum and learning platform visit www.carnegiemathpathways.org and sign up for our Explorer site.

¹ Huang, M. (2018). 2016-2017 Impact Report: Six Years of Results from the Carnegie Math Pathways. Carnegie Foundation for the Advancement of Teaching. https://carnegiemathpathways.org/wp-content/uploads/2021/03/pathways_descriptive_report_january_2018.pdf

Carnegie Math Pathways Corequisite Design Principles

active, collaborative learning

authentic and relevant problem contexts

learning activities that support productive struggle, explicit connection to math concepts, and deliberate practice

social emotional supports that build confidence and a sense of belonging

language and literacy supports

