

1086-Q1-2084

Karon Klipple* (klipple@carnegiefoundation.org) and **Cinnamon Hillyard** (hillyard@carnegiefoundation.org). *Quantway and Statway: Successful Pathways To and Through a College Level Math Course.*

The Carnegie Foundation for the Advancement of Teaching has developed two new math pathways, Quantway and Statway, which have demonstrated promising results in their initial implementation. Compared to previous developmental math students from their institutions, students in these pathways have dramatically increased the success rate of passing a math course. Recent studies report that between 60 and 70 percent of students do not successfully complete the sequence of required math courses. These pathways replace this sequence of courses that can take as long as two years once students are placed into developmental math. Carnegie's pathways are designed to accelerate this process, by integrating developmental and college-level content into a single year-long statistics or quantitative reasoning course. We will describe the design principles and corresponding curriculum for these pathways and share the results from the first year of implementation in 30 colleges. We will demonstrate the need to approach a mathematics pathway as a system of improvement rather than just a curricular change. We will talk about our multi-faceted efforts to improve this system which includes faculty and administrators, online and in class materials, and student and faculty support structures. (Received September 24, 2012)