

1125-O5-738

Dan L Ray* (ray@carnegiefoundation.org), 51 Vista Ln, Stanford, CA 94305. *The Carnegie Math Pathways: Structural, Curricular, and Pedagogical Innovation in Developmental Mathematics at Scale.*

Since 2010, 58 colleges have partnered with the Carnegie Foundation for the Advancement of Teaching to implement broad changes to their developmental mathematics course sequences and the way that these courses are being taught. The Carnegie Math Pathways, Statway and Quantway, accelerate students who place into developmental math to and through college level mathematics courses in a single year. Statistics and Quantitative Reasoning are used in these pathways to provide much needed context to the mathematics being presented. Faculty who teach these courses are trained to facilitate their classes in a way that encourages student collaboration, fosters a growth mindset, and creates opportunities for productive struggle. To implement these curricular and pedagogical changes, the Pathways Network supports faculty and administrators with making the transition and provides ongoing professional development. Support for new faculty includes national, regional, and local workshops, mentoring from an experienced faculty member, and an online preparation course facilitated by a faculty mentor. This approach allows all of the networked colleges to be active players in ongoing improvement and refinement. We will provide evidence of the impact of these changes on student success rates. (Received September 10, 2016)