

## VCCS Math Pathways Projects – Implementation 2016

Goal: Improve success in developmental mathematics and gateway math courses by reducing the time to completion with equal or greater success and equal or greater levels of rigor.

Related VCCS Initiatives and National Developments: Complete 2021, Student Success Institute, Student Success Based Funding Model, Multiple Measure Placement, Meta Majors and Structured Pathways

### Math Pathways Project Overview - Implementation

Pathways	Co-Requisite Models	Math Placement
<ul style="list-style-type: none"> <li>• Collaboration with Virginia four year public and private high schools.</li> <li>• Creation of 14 transfer level pathway courses.</li> <li>• Creation of Calculus I Support Lab</li> <li>• Creation of Master Course File Crosswalk.</li> <li>• Continued work in the Career and Technical Education areas to develop pathway courses to support CTE programs.</li> <li>• Continued work on the remaining credit courses to identify need and develop curriculum in collaboration with the four year colleges.</li> <li>• Continued work with the developmental and credit instructors to define what happens between the completion of MTE 5 and entry into PreCalculus.</li> <li>• Virginia Math Summit bringing together public and private, two-year and four-year colleges for mathematics conversation.</li> <li>• Professional development for VCCS instructors who will be early adopters and/or campus leads in the teaching of the pathway courses: QR, SR, and PreCalc. Training will focus on ways to increase student engagement in the learning process.</li> </ul>	<ul style="list-style-type: none"> <li>• Creation of four corequisite courses serving the new pathway courses: Quantitative Reasoning Statistical Reasoning Precalculus I Precalculus with Trigonometry</li> <li>• Seven – nine pilots in place for 2016-2017.</li> <li>• Increased and focused conversation with the Developmental Math Leads on the future of developmental mathematics and initiatives to achieve.</li> </ul>	<p style="text-align: center;"><b>Math Readiness</b></p> <ul style="list-style-type: none"> <li>• VCCS position on calculator use from placement to credit level courses.</li> <li>• References to four-year college use of calculator and other technologies.</li> <li>• State model for collaboration between high schools and the community college to provide a senior year capstone course giving students the direct opportunity to enter college at the credit level.</li> <li>• Collection of instructor and student resources to assist in preparing for college placement.</li> <li>• Sample models and contacts of college boot camps that give students support in preparing for college placement testing.</li> </ul>
		<p style="text-align: center;"><b>Placement Testing</b></p> <ul style="list-style-type: none"> <li>• Development of the “Cadillac test” to include three components: D1 (MTE 1-5), D2 (MTE 6-9) and Calculus levels</li> <li>• Problems types varied.</li> <li>• Build in test preparation and customized remediation.</li> </ul>
		<p style="text-align: center;"><b>Multiple Measures Placement</b></p> <ul style="list-style-type: none"> <li>• Multiple Measure Task Force recommendations coming late Fall 2016</li> </ul>

Link to Pathway Documents:

<https://drive.google.com/folderview?id=0BxWNJYiqX4kRdTNBcWFZdl9QTTg&usp=sharing>