

1135-VJ-3171      **Gianluca Guadagni** (gg5d@virginia.edu), **Bernard Fulgham**, **Stacie Pisano\***  
(sp7h@virginia.edu), **Hui Ma**, **Diana Morris**, **Monika Abramenko** and **Julie Spencer**.  
*New tracks for a Calculus Curriculum in Engineering.* Preliminary report.

This paper describes a calculus redesign project that is in progress at our institution.

The goal involves creating three Engineering Math tracks for incoming engineering students, in which students in all tracks will complete a calculus sequence in two semesters. In addition, a self-paced Math Lab course address knowledge and skill gaps in non-calculus areas.

The Core Engineering Math track is for students whose calculus background is weak . This track provides the minimum necessary calculus foundation, but a strong foundation nonetheless.

The Engineering Math track is for students who have a good calculus background, having completed Single Variable Calculus I (AP AB) in high school.

The Honors Engineering Math track is for students with the strongest math background who would begin with Multivariable Calculus today.

In 2016-2017 we implemented the Honors Engineering Math track. The measurable outcome has been positive and we are now moving forward with a pilot course of the Core Engineering Math I and II. We will report on the results of the first semester of Core Engineering Math, on how the Bridge summer program has supported the first class, and how the two semester structure can benefit all our students. (Received September 26, 2017)