

1135-E5-2042 **Frank Savina*** (fsavina@austin.utexas.edu). *Mathematical Modeling for STEM Intending Students.*

The Charles A. Dana Center at the University of Texas at Austin has developed a new and innovative pathway to Calculus for STEM intending students. This curriculum provides students a meaningful pre-calculus experience that values and honors their STEM aspirations by providing extensive opportunities to explore mathematical modeling within authentic STEM contexts. In order to provide meaningful modeling opportunities while developing the skills necessary for success in Calculus, many student activities were designed in collaboration with faculty members from other disciplines. This paper will describe these collaborations and provide specific examples of mathematical modeling within STEM disciplines. (Received September 25, 2017)