

1135-D5-3187 **Michael Sebastian Gagliardo*** (mgagliar@callutheran.edu). *3D Printed Surfaces in an IBL Multivariable Calculus Course.*

In Fall of 2016, I adapted my IBL multivariable calculus course by including 3D printed manipulatives to strengthen student understanding of contour plots and quadratic surfaces. In this talk, I will discuss my motivation for using physical 3D printed surfaces and the activities students worked through. (Received September 27, 2017)