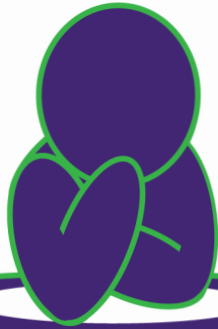


SUNY POTSDAM

SCHOOL OF EDUCATION AND PROFESSIONAL STUDIES



SEMINAR SERIES

DISCIPLINED INQUIRY IN EDUCATION

Wednesday, September 27th, 2017, Noon

Satterlee Hall
The Literacy Center Balcony

Dr. Brian Winkel

United States Military Academy at West Point

Dabbling in Differential Equation Modeling

Abstract. We use counting principles and a physical simulation with m&m candies to introduce modeling with difference and differential equations. This first day of class activity will engage and yield deep principles in modeling and applied mathematics. We demonstrate other models involving physical situations, one in which we can collect data from YouTube videos. Using modeling to motivate the study of mathematics is what SIMIODE - Systemic Initiative for Modeling Investigations and Opportunities with Differential Equations (www.simiode.org) is all about. In this talk we will concentrate on the issue of modeling and how it motivates students NOT on the mathematics.