

## Teaching Differential Equations Through a Modeling First Approach

Brian Winkel

Follow this and additional works at: <http://scholarship.claremont.edu/jhm>



Part of the [Arts and Humanities Commons](#), and the [Mathematics Commons](#)

---

### Recommended Citation

Winkel, B. "Teaching Differential Equations Through a Modeling First Approach," *Journal of Humanistic Mathematics*, Volume 6 Issue 2 (July 2016), pages 241-241. DOI: 10.5642/jhummath.201602.22 . Available at: <http://scholarship.claremont.edu/jhm/vol6/iss2/22>

©2016 by the authors. This work is licensed under a Creative Commons License.

JHM is an open access bi-annual journal sponsored by the Claremont Center for the Mathematical

Sciences and published by the Claremont Colleges Library | ISSN 2159-8118 | <http://scholarship.claremont.edu/jhm/>

# SIMIODE: Teaching Differential Equations Through a Modeling First Approach

Brian Winkel

*Emeritus Professor of Mathematics, United States Military Academy, West Point, NY, USA*  
brianwinkel@simiode.org

---

SIMIODE - Systemic Initiative for Modeling Investigations and Opportunities with Differential Equations is about teaching differential equations using modeling and technology upfront and throughout the learning process. You can learn more at our dynamic website, [www.simiode.org](http://www.simiode.org), where we offer a community in which colleagues can communicate, collaborate, publish, teach, explore, and contribute to learning.

We are building a complete environment for teachers and learners—communication, groups across and intra/inter campus, projects for students and teachers, models, data, and videos. We publish on line modeling scenarios which serve to teach differential equations in context. These are peer reviewed, double blind publications and are valued by colleagues. A recent modeling scenario we published was on Word Propagation of words like Jumbo using Google's Ngram feature and exponential decay modeling, by Rachelle DeCoste (Wheaton College) and Rachel Bayless (Agnes Scott College).

Join us. SIMIODE is free! We have a Teachers Group which allows colleagues to not only share their own teaching materials, but also permits rich discussion of ideas surrounding the material. Register now at [www.simiode.org](http://www.simiode.org).

We will have a minicourse on SIMIODE at both MathFest in August 2016 and the Joint Mathematics Meetings in January 2017. Look for announcements in MAA FOCUS and sign up. Come join our merry band!