

Teaching Differential Equations Through a Modeling First Approach

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SIMIODE: Teaching Differential Equations Through a Modeling First Approach

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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, 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 Rachele DeCoste (Wheaton College) and Rachel Bayless (Agnes Scott College).

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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!