Computational Thinking and Mathematical Modeling: A Workshop for High School Teachers and Administrators

The Framework for K-12 Science Education and first draft of the Next Generation Science Standards emphasize computational thinking and mathematical modeling. The Common Core State Standards for Mathematics includes mathematical modeling as a standard for mathematical practice. But what exactly are Computational Thinking and Mathematical Modeling? How are these skills utilized by university researchers? How can they be taught as part of the existing high school science and mathematics curricula? Are they already being taught?

Find the answers to these questions and others by attending the CT/MM Workshop at Niles North High School on Wednesday November 28th from noon until 3 pm. This FREE workshop will include lunch and a presentation on the role Computational Thinking and Mathematical Modeling play in the Next Generation Science Standards. It will be followed by a panel discussion on the educational research, utilization, and high school classroom applications of CT and MM. The workshop will conclude with the opportunity to choose from an assortment of small group presentations of lessons that incorporate CT/MM into traditional Biology, Chemistry, Physics, Earth and Space Science, and Mathematics courses. These lessons were developed by teachers and Northwestern graduate students in the Reach for the Stars and CT-STEM programs.

Space is limited - please register today. Your participation will be confirmed before November 16th.

Questions? Contact Michelle Paulsen: m-paulsen@northwestern.edu

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