



Mathematics Teacher Professional Development Workshop

October 21, 2023

Offered by the Cornell University Department of Mathematics as part of MATH 4980/5080, together with the NYS Master Teacher Program & the Teacher Center of Central Westchester

AGENDA

9:00 – 9:15 am **Welcome & Overview**

9:15 – 10:45 am **The 21st Century Mathematics Classroom**
Christie Kalinoglu

How do we maintain Academic Excellence in our schools as we hurtle deeper into the 21st Century? How do we keep our students authentically engaged when research tells us that, for many, their attention span is just 8–10 minutes? Take the leap and learn how to regularly integrate a variety of best practices into your instruction to answer these questions. Learn and strengthen strategies that will foster the Four C's. Experience how Flexible Seating, Accountable Talk, The Workshop Model, Chromebooks, and more are seamlessly interwoven to create a student-centered learning studio. See how progressive software is used to help move you along the pathway to the paperless classroom as we head into the age of computer-based testing (CBT). Learn how these K-12 best practices foster student success in higher-level accelerated classes such as high-school algebra, and bring some great ideas back to your classroom by participating in hands-on learning!

10:50 am – 12:15 pm **A Game, A Paradox, and The Most Irrational Number**
Paul Cartie (Mathematics Department, SUNY-Broome)

In this session we re-visit the game of Tic-Tac-Toe with a new approach and learn how to apply mathematics to a variation of the traditional game. We will discuss a mathematical “paradox” involving sums of numbers. Finally, we will discover a familiar irrational number using a less common technique.

12:15 – 12:45 pm **Break & Discussion**

12:45 – 1:00 pm **Birds-of-a-Feather Session**

Break-out rooms will be available for same grade / same class discussions.

1:00 – 2:20 pm **Elementary-School Intervention Strategies**
Irina Lyublinskaya (Teachers College, Columbia University)

Learn about specific research-based recommendations to address the needs of struggling learners in mathematics; discuss how to carry out each recommendation; review examples illustrating specific intervention strategies for different recommendations; and develop strategies based on these recommendations for teaching specific topics of school mathematics in Grades 1–5.

2:20 – 2:30 pm **Closing**

Modality	Credit	Cost	Registration & More Information
virtual	5½ CTLE hours or Master Teacher credit	free, unless seeking Cornell University credit	https://e.math.cornell.edu/classes/math5080/ Mary Ann Huntley (huntley@math.cornell.edu)