Mathematics Teacher Professional Development Workshop
January 28, 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 – 9:20 am Welcome & Overview

9:20 – 10:20 am Implementing Creative Real-World Projects in Secondary Mathematics Classes
Mark Marino (Department of Mathematics, SUNY-Buffalo)

I will share examples of creative, innovative, and engaging real-world projects for use in middle- and high-school mathematics classes. These projects promote students’ success and interest in a variety of math topics and can easily be adapted for different student ability levels. I will discuss strategies for successfully implementing, facilitating, and assessing projects through use of rubrics.

10:30 am – 12:00 pm Differentiating Mathematics Instruction with Mobile Technology
Irina Lyublinskaya (Teachers College, Columbia University)

In this session we will discuss how to use various online and mobile Apps (e.g., Google Apps, Nearpod) to differentiate instructional strategies and to assess learning in inclusive middle-school mathematics classrooms.

12:00 – 12:50 pm Break & Discussion

12:50 – 2:20 pm Math Fact Fluency and Beyond: Developing Reasoning Strategies Within a Culture of Care to Uplift All Students
Melanie Myers (Williamsville Central School District)

I will discuss several research-based strategies for helping students develop mathematical fact fluency and applying their thinking to higher-level mathematics. In addition to developing mathematical reasoning strategies, we will also dive into many ways we can support students as they build their sense of agency and learn to see themselves as mathematicians.

2:20 – 2:30 pm Wrap-Up & Closing

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<tr>
<th>Modality</th>
<th>Credit</th>
<th>Cost</th>
<th>Registration &amp; More Information</th>
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<tbody>
<tr>
<td>virtual</td>
<td>5½ CTLE hours</td>
<td>free, unless seeking Cornell University credit</td>
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https://e.math.cornell.edu/classes/math5080/
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