ONLINE ENHANCING MATHEMATICS THROUGH PROBLEM SOLVING

WITH
WENDY PELLETIER CLEAVES

LOCATION: Online

DESCRIPTION

While developing strategies for teaching the Common Core skills of reading comprehension, reasoning and problem solving; upper elementary and middle school teachers of regular education students, special education students, and English Language Learners will expand their mathematical and pedagogical content knowledge relating to fractions, proportional reasoning and linear relationships. Wendy Pelletier Cleaves will lead the exploration through various media including standards-based, hands-on activities, web-based videos and interactive tools, graphic organizers, readings and discussions. Participants will be able to develop a case study or lesson plan, try out problems and strategies with their own students and collect and analyze student work and feedback to assess their impact.

GOALS / OBJECTIVES

Participants will:

- Deepen their mathematical understanding as well as improve their pedagogical content knowledge
- Use problem solving to promote classroom engagement and discourse and as a vehicle for deepening mathematical understanding
- Gain a deeper understanding for the Common Core State Standards in Mathematics (CCSSM)
- Learn how to apply effective reading comprehension strategies to mathematics teaching and learning
- Represent and communicate connections among the targeted mathematical learning standards
- Use reasoning skills and informal proof to make mathematical arguments
- Investigate strategies in the areas of instruction and assessment designed to improve mathematics achievement
- Use technology to gain mathematical insight and understanding, especially in the visualization of math lessons in action and the illustration of mathematical standards
- Examine how the use of technology changes both content and the means of delivering content

INTENDED AUDIENCE

This course is intended for classroom teachers, special education teachers, curriculum leaders, principals, and central office personnel.
WHAT PEOPLE ARE SAYING

I enjoyed the course content and Wendy Pelletier Cleaves was a breath of fresh air in a forest of mediocrity.

Wendy's feedback on assignments was clear, concise and supportive and helped me recognize my strengths and improve areas of weakness.

The course was organized and well thought out.

NUMBER OF TOTAL SESSIONS: Space is limited to 25 students in order to promote collaboration, opportunity for discussion, and individual support from instructors.

NUMBER OF TOTAL HOURS: Approximately 50 hrs. total over 10 weeks.

CREDITS/PDPs: 3 credits (optional) / opportunity to earn up to 67.5 PDPs is available.

COST: $700 per person plus $50 technology fee (paid directly to Fitchburg State University)

Optional:
3 graduate credits available from Fitchburg State University for an additional $285 plus $21 technology fee (paid directly to Fitchburg State University).

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