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TSSA Report_Winter 2020

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Term/Year of Award: Winter/2020

Conference attended: Joint Mathematics Meetings; Denver, January 15 - 18, 2020

Teaching Skill(s) Studied

I've attended sessions/presentations on *best practices and considerations in designing and developing math courses*, sessions on *ideas and innovations in teaching*, and sessions on *inquiry-based learning and teaching*. Here is a list of the titles of some of the sessions/presentations I attended:

- *Mathematics Stretch Courses as an Alternative to Remedial Mathematics Classes*
- Unleashing Creativity in 100 math class
- Creative Problem Solvers
- A Framework for Equitable Math Instruction
- When Novel Instructional Practices Go To Scale: A Case Study

Impact on Current Teaching (How was this info applied)

Learning about new research-based teaching practices is helping me to continue working on creating active-learning environments in my classrooms, where my students can learn to be independent learners. It is also helping me to keep challenging my students by providing them with a blend of experiences to help them grow as creative problem solvers; that is, by enabling creative problem solving through class instruction, during class activities, during out of class assessments, and during in-class assessments. Furthermore, being the coordinator of college algebra and pre-calculus courses, I've shared these best teaching practices with the instructors during our professional development meetings that I hold every other Friday. In addition, learning about new best practices and considerations in math stretch courses is helping me evaluate our College Algebra Stretch Courses and learn about different ways of offering corequisite instruction to improve our Math Support Labs to better serve students deemed to need remediation in introductory college math courses.

Assessment/Evaluation

One way to assess/evaluate the effectiveness of such practices is to compare students performance and final grades to previous years. We can also look at data from IR on the pathways of students in their subsequent classes (such as Math 120, Chem 215). I also plan to keep getting instructors' feedback.

Date: 2-13-2020