

## CSAAPT Spring 2022 Semi-Virtual Meeting



Chesapeake Section of the  
American Association of Physics Teachers  
Spring 2022 Semi-Virtual Meeting  
April 2, 2022 @ **RADFORD** UNIVERSITY

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Type: **Talk**

# Best Practices for Effective Support of Student Learning in Algebra-Based Physics Courses

*Saturday, April 2, 2022 2:30 PM (15 minutes)*

To better serve increasingly diverse learners in college algebra-based physics courses, instructors will need to gain understanding of the backgrounds of their audience and shift the center of instruction from educators to learners. Based on over 15 years of teaching experience of algebra-based physics courses in an urban university and a historically-black university, the speaker will present the best practices in classroom instruction of algebra-based physics courses. Case studies will be presented to substantiate these practices that have effectively enhanced the student learning outcomes. The ultimate goal of these practices is to expand learners' worldview with the physical laws that govern how the universe behaves and the mathematical approaches that lead to the quantitative analysis of the physical world around us.

**Presenter:** LU, Qi (Delaware State University)

**Session Classification:** Afternoon Session 1