

1135-D5-2911 **Tara T. Craig*** (tcraig@coastal.edu). *Transforming Future Math Teachers into Mathematicians.*

Since the turn of the century, engagement in authentic learning experiences has been a major initiative for reforming school classrooms, but our future math teachers are often taught mathematics in teacher-centered, lecture halls. This lack of personal experience with student-centered instruction makes it difficult for a future educator to see the value of these best practices. In a course restricted to math majors interested in teaching, students' engaged in inquiry-based learning (IBL) explorations the duration of the semester with the goal of deepening and broadening their understanding of topics focused on in secondary mathematics. In this session, I will highlight some of the most impactful explorations from the course and share the effect IBL had on students' understanding of foundational mathematics topics, their ability to think more effectively, their general perceptions of math, and further their teaching philosophy. (Received September 26, 2017)