

1145-O5-2364 **Rachid Ait Maalem Lahcen*** (rachid@ucf.edu), Rachid Ait Maalem Lahcen, Mathematics Department, University of Central Florida, Orlando, FL 32816. *Preparing students to succeed in subsequent math courses through mixed instructional approaches.*

Preparing students to be successful in subsequent courses is a challenge because many students don't retain or transfer the knowledge from those course to Pre-Calculus or Calculus. Consequently, there is a need to use various instructional methods to motivate the students and help them reach a certain level of mastery in the topics covered. We'll share case studies in which we used inquiry based learning and adaptive to personalized instruction. The results from those course and their subsequent mathematics courses were encouraging. (Received September 25, 2018)