

1116-H1-2422 **Christina Lee*** (christina.lee@emory.edu), Oxford College of Emory University, 180 Few Circle, Pierce Hall, Oxford, GA 30054. *Using Matlab and Blended Learning Techniques for a Successful Linear Algebra Learning Experience.*

Linear Algebra one of the most useful undergraduate mathematics courses, but it is often regarded by students as a difficult transitional course. Students who struggle with the theoretical and proof writing aspects of the course lose sight of the many applications of Linear Algebra. I used readings and pre-lecture assignments so that lectures focused on clarification and applications, weekly Matlab sessions so that students could understand the value of learning to code and tackle realistic linear algebra problems, and a final group project so students could reflect and apply what they learned. I was able to cover more material and my students were better able to make theoretical connections on material throughout the course than previous courses taught the traditional way. The most exciting outcome was how students who failed the first exam, stuck it out and were able to ace the last exam and final. (Received September 22, 2015)