

1116-H1-895 **Mark Hughes*** (hughes@mathematics.byu.edu). *Exploring linear algebra with technology while being crunched for time.* Preliminary report.

One common challenge faced by educators involves finding time in class to discuss important definitions, theorems and examples, while still giving students the opportunity to investigate and explore new concepts on their own. Indeed, the pressure to cover a fixed number of topics in a limited amount of time can lead to fewer opportunities for students to experiment with new ideas. In this talk I will discuss ways that inquiry based learning approaches can be used to teach linear algebra, without taking up large amounts of limited class time. These approaches involve the use of freely-available software, and help students connect principles being discussed in class with phenomena they observe through their own hands-on experimentation. (Received September 14, 2015)