## 1125-E5-2345 **Steven Schlicker\*** (schlicks@gvsu.edu), Department of Mathematics, Grand Valley State University, 1 Campus Drive, Allendale, MI 49401, and Feryal Alayont. Active Learning in Linear Algebra.

Linear algebra provides significant learning obstacles for many students. Students need to master algorithms, understand a beautiful yet complicated web of mathematical concepts, and often also wrestle with writing mathematical proofs for the first time. We will describe how we use a collection of preview and in-class activities throughout the semester to help improve student success in these course goals. With each preview activity, students are exposed to the day's material through concrete examples of newly defined concepts or algorithms, or through questions asking them to reflect on previous concepts. In-class activities are built on students' preview work and strengthen their conceptual understanding and connections between the different topics. The text we are writing, which contains all of the preview and in-class activities, will be available as a free open-source text. (Received September 20, 2016)