

1106-L1-901      **Sarah Hanusch\*** ([sh1609@txstate.edu](mailto:sh1609@txstate.edu)), Department of Mathematics, Texas State University, 601 University Drive, San Marcos, TX 78666. *The use of examples in the learning and teaching of proof writing.*

This study investigates the ways that undergraduate students use examples in their transition to proof course, and the influence that the instructor had on the students' decisions to use examples. Qualitative data was collected from the instructor and a sample of students via observations and interviews to investigate the connections between the teaching and learning of examples in this proof writing course, and then analyzed using the constant comparative method. The results show that the students can often state the circumstances in which an example could provide insight during proof writing, but struggle to during the implementation of the strategies. (Received September 08, 2014)