

1035-U1-820

Jennifer E. Szydlik* (szydlik@uwosh.edu), Math Department, UWO, 800 Algoma Blvd.,
Oshkosh, WI 54901. *Measuring Mathematical Sophistication.*

In previous work (Seaman & Szydlik, JMTE 2007) we proposed a framework to define 'mathematical sophistication' based on values and behaviors of practicing mathematicians, and we used that construct to help us to explain why preservice teachers were unable to use a web-based resource to study mathematics. In this presentation, I will share a paper-and-pencil instrument my colleagues and I have developed to measure mathematical sophistication among undergraduate students, and I will describe the results of a pilot study designed to test the validity and reliability of the instrument. (Received September 16, 2007)