1145-I5-1616 **Robert L. Sachs*** (rsachs@gmu.edu), MSN 3F2, George Mason University, Fairfax, VA 22030. *A Transition / Proofs Course Based on the Complex Numbers.*

This talk will describe an alternative transition / proofs course offered for the first time last spring. The unifying theme is the complex number system. The basic algebra, analysis, and geometry that develops also includes some discrete math, number theory, and topology. Students were introduced to a connected body of mathematics that simultaneously stimulated interest in the further content of upper-level courses and provoked a need for proof, attention to definitions and notation, a variety of proof techniques, prior content in a new context, and some surprising results. Student feedback and some preliminary data about their performance in subsequent courses this past fall will be discussed. (Received September 23, 2018)