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David C Marshall* (dmarshall@monmouth.edu). *A Two-Step Transition to Higher Mathematics.*

The transition to higher mathematics begins during a student's first year in college, yet most "transition" courses are taken during the sophomore or junior year. In this talk we describe a two course sequence for mathematics majors at Monmouth University. The first introduces freshman to the language and rigor of college level mathematics using a somewhat traditional lecture style. The second is an inquiry-based number theory course designed to introduce students to a mathematical perspective that features active participation in developing ideas that are new to the students and in developing proofs of mathematical assertions. A study on the effectiveness of the inquiry-based course will also be discussed. (Received August 28, 2007)