David A. Brown* (dabrown@ithaca.edu), Ithaca College, Dept of Mathematics, 953 Danby Road, Ithaca, NY 14850-7000. From Inquiry to Research - Fostering Research with Undergraduates.

The Mathematics Department at Ithaca College has maintained a research course sequence for several years. Recently, we added a first year inquiry based course, Mathematical Experimentation, to introduce students to the nature of experimentation and conjecture/proof in mathematics. This course, along with a second year course, Sophomore Seminar, prepares students for the junior level research sequence of Junior Seminar and Research Experience in Mathematics. We will discuss the impact of this inquiry-based approach on the majors (and non-majors.) We also highlight future changes in the senior year that will provide a conclusion to the research efforts in the first three years. (Received August 15, 2009)