

1106-G5-2281 **Amy Ksir*** (ksir@usna.edu), **Christine von Renesse** (cvonrenesse@westfield.ma.edu) and
Margaret C. Nikolov (nikolov@usna.edu). *Inquiry-Based Calculus III*. Preliminary report.

The first author has taught Calculus III (multivariable calculus) nine times in the past 11 years. Two years ago she “took the plunge” and switched from an interactive lecture / homework-from-the-textbook format to an inquiry-based format centering on student presentations. We will present a comparison of various student learning outcomes from “before” and “after,” analyzed with the help of the third author. We will describe the problem set developed by the first and second authors that replaces the course textbook; it has also been successfully used by the second author in an IBL class centered on group work. (Received September 16, 2014)