

1135-D5-731 **Diana Davis*** (ddavis3@swarthmore.edu), 500 College Avenue, Swarthmore, PA 19081. A “Harkness” discussion-based, problem-centered first-year honors calculus course. Preliminary report.

We describe a case study of a problem-solving section, using the “Harkness” discussion method, of an honors multivariable calculus course. Students in the problem-solving section had equivalent outcomes on exams, reported higher ratings in self-assessments of skills, and took more math classes in the following year, compared to students in the lecture-based sections. This talk will include examples, graphs, and lots of pictures. (Received September 13, 2017)