1096-K5-1673 **Nicholas Baeth*** (baeth@ucmo.edu), W.C. Morris 213, UCM, Warrensburg, MO 64093.

Resequencing Calculus — An early multivariate approach. Preliminary report.

Calculus at the University of Central Missouri has, for decades, been taught in "the standard order" beginning with limits, and then progressing to derivatives, antiderivatives, sequences and series, and finally on to multivariate topics. Although this has generally worked well at UCM, a regional comprehensive state university with roughly 11,000 students, there have always been certain downsides to saving multivariate topics until the third semester. Thus the Department of Mathematics and Computer Science was pleased to be asked to pilot a restructuring of the calculus sequence as part of a Phase 2 NSF TUES Type 2 Grant (no. 122556) coordinated by the University of Evansville. In this talk I will briefly give an overview of UCM, our students, and the traditional calculus sequence. I will then discuss the pros and cons of our current system as experienced by both students and faculty and the expected benefits and downsides of restructuring the sequence to allow for an earlier introduction of multivariate topics. Finally, I will share our experiences having completed the first semester (calculus 1 only) of the restructured pilot. (Received September 16, 2013)