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Expanding Redesign Success. Preliminary report.

The Math Department at the University of North Carolina in Charlotte has implemented a complete redesign of its Intermediate Algebra course. The redesign was implemented with technology that enhanced instruction and evaluation. Mastery learning and course-wide consistency were also big components of this restructure.

The focus will be on how the redesign aspects were applied in a higher-level math courses, such as Business Calculus. Comparisons will be drawn between the previous traditional course set up and the new redesigned structure. Also to be covered are details on planning, implementation, use, and outcomes of the changes. The effects of mastery learning and student results, along with reactions and comments about the course will be explored. Helpful software resources will be shown, such as step-by-step instructions and an interactive tutor that gives student feedback on their work.

This redesign has not only had a positive impact on students, but instructors have found it to be extremely beneficial as well. Implementation tips, methods proven to be successful, and lessons learned will be shared so others who may be considering similar changes can benefit from learning about our successful experience. (Received September 21, 2011)