Recently Morehead State University’s College Algebra class has undergone a drastic redesign. Through a grant from the National Center for Academic Transformation (NCAT) we have modified our delivery of content, lecture time, student requirements and amount of student interaction. We will look at the details of how the course was redesigned, technology used, implementation issues and solutions, possible additional changes for the future, and early results showing the effectiveness of the changes. (Received September 26, 2012)