

962-H1-602

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”College Algebra” at CBU is a course that prepares students for courses that satisfy their mathematics requirement. With the reforms in Math Education, we tried to interest students with real-world data. The hope was that the applications would engage students and motivate study of basic algebra skills. However, students did not sufficiently master the fundamentals of algebra to have the desired success in later courses. In Fall 1999, CBU revised its approach in this course. One goal was to reach the different learning styles of students who needed developmental work in mathematics. We adopted a mediated learning approach in which we combined mini-lectures, computer tutorials and quizzes, and individual instructor help in a lab setting with traditional homework and class testing. Academic Systems produces our class materials and their software maintains records of student activity. With the new format, individuals are able to address some areas in which they need review but are generally considered prerequisite material for this class. This paper shares our goals with the restructure of the course, early results, and modifications due to initial experiences. (Received September 15, 2000)