

Meeting: 1003, Atlanta, Georgia, MAA CP V1, MAA Session on Research on the Teaching and Learning of Undergraduate Mathematics.

1003-V1-106 **Margo P Alexander*** (malexander@gsu.edu), Georgia State University, Department of Mathematics & Statistics, University Plaza, Atlanta, GA 30303, **Jean Bevis** (jbevis@gsu.edu), Georgia State University, Department of Mathematics & Statistics, 30 Pryor Street, Atlanta, GA 30303, and **Valerie Miller** (vmiller@gsu.edu), Georgia State University, Department of Mathematics & Statistics, 30 Pryor Street, Atlanta, GA 30303. *Course Redesign*. Preliminary report.

GSU is redesigning College Algebra, a core curriculum course taken by about half of the entering freshmen. The course has been taught by a diverse group of GTAs, part-time instructors, visiting instructors, and regular faculty. The result has been inconsistencies from section to section in both content and assessment, with unsuccessful students (grades of D, W, or F) accounting for as much as 45% of the enrollment. The planned redesign follows the model of half of class time each week will be replaced by student-centered computer lab tutorials based on the successful experiences at Virginia Tech and The University of Alabama. A course/lab coordinator will be appointed to ensure greater consistency among the sections and organization of the faculty teaching the courses and the common lab materials will provide more uniform alignment of the individual sections with established content and assessment standards. During the Fall semester, data will be collected from both traditional and pilot sections. This will include performance on selected assessment items that will be included on all final examinations, attitude surveys, and scores on placement tests. An explanation of the course redesign and results collected will be discussed. (Received August 06, 2004)