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Lisa S Yocco* (lisay@georgiasouthern.edu), P.O. Box 8093, Statesboro, GA 30458. *The Right Stuff: Are We Teaching It In College Algebra?*

The Right Stuff: Appropriate Mathematics for All Students was an AMATYC project funded by the National Science Foundation. The project promotes a redesigned college algebra course that engages students in data modeling, effectively uses technology, equips students with strong problem solving skills, increases critical thinking skills, and enhances quantitative literacy. Mathematics has traditionally been taught using “skill and drill” methods, which often leaves students bored, uninterested, and distasteful of math. An approach incorporating data analysis, modeling, and technology makes College Algebra relevant, refreshing, and interesting. As a result, faculty are preparing students mathematically for their majors, future careers, and life. Real data problems will be explored that illustrate how applications from the management, life, and social sciences can be used to teach algebra concepts and skills. Solution methods include modeling, graphical solution, and matrices using the TI-84 Plus and the TI-Nspire calculator. Modeling and other algebra topics with Excel will be demonstrated. Problems to be illustrated include life expectancy, home loans, male vs. female earnings, and cost-benefit. (Received September 10, 2010)