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Richard J. Sinclair* (sinclair@unt.edu), 1155 Union Circle 305309, University of North Texas, Denton, TX 76203-5017. *An Option for Accelerated Mathematics Education.*

The Texas Academy of Mathematics and Science at the University of North Texas is a college-based program that allows students to complete concurrently the last two years of high school and the first two years of college. The academy's goal is to create "young scientists and engineers" by a focus on rigorous STEM courses and participation in state-of-the-art research. Students take a two-year curriculum of science courses, balanced with humanities and electives. About one-half of the applicants are female. Because of the configuration of the dormitory, the student body is 44% female. The average math SAT (10th grade) for admitted females is 662, and males 697. Minorities represent about 12% of the student population. Typically, females perform better in the required math classes (Precalculus through Calculus II) than the male students, and about equally in Calculus-based Physics. However, males are seven times more likely to select more advanced math courses as electives (Calculus III, or above), than females. While more girls at TAMS are declaring math or engineering majors over time, Biology and Pre-Medicine are the most popular directions despite excellent mathematics ability and performance. (Received January 30, 2014)