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At the Air Force Academy, we face the challenge of preparing students to take an extensive technical core of classes. The “traditional” algebra & trigonometry course was not meeting the need of adequately preparing students for this technical core, so major changes were made to course content and structure. We report on a reformed version of algebra & trigonometry with an emphasis on modeling, and give preliminary indications of whether our reform efforts were successful. (Received September 22, 2010)