For over 30 years, colleges and universities have offered developmental mathematics programs for underprepared students. However, efforts to evaluate the efficacy of these programs have been sporadic. During the past two years, the Richard Stockton College of NJ has developed and implemented a robust, long-term assessment plan for its developmental mathematics program, passing through the following stages: setting goals, defining objectives, establishing expected student outcomes, collecting data, analyzing results, drawing conclusions, and planning for further assessment. The assessment program covers both the cognitive and the affective domains. This paper describes the process used to develop and conduct the assessment program, early results, and lessons learned. (Received September 21, 2009)