Our department began assessing our math majors and our overall program using a student portfolio beginning spring 2001 after attending an MAA minicourse. In this talk we will explain our process of writing department goals and objectives, developing assessment tools, developing mechanisms for collecting data, and collecting and analyzing that data. We currently use a combination of exam questions, surveys, reflective writings, and course projects. We will share what we have learned and what changes have been implemented based on our findings. The math major portfolio assessment was used as a component of our recent NCATE (National Council for Accreditation of Teacher Education) review. (Received September 28, 2005)