The talk will describe a hands-on course titled "Quantitative Reasoning and Informed Citizenship." As its title suggests, in this course students use real data to investigate relevant applications requiring quantitative analysis. The course is designed to help students become more informed citizens and to learn to use technology effectively. We will give an overview of the course, present examples of some activities, and discuss student placement issues and course and student assessment data. (Received September 28, 2004)