Approximately 40% of the PhDs awarded by the Department of Mathematics at the University of Nebraska-Lincoln in recent years have been earned by women. In 1998 the Department was awarded The Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring in recognition of its success in mentoring female graduate students. In this presentation, I will talk about our efforts to recruit, retain, and encourage women in mathematics at the high school, undergraduate, graduate, and postdoctoral levels. (Received September 22, 2005)