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Thomas W Judson* (judson@math.harvard.edu), Department of Mathematics, 1 Oxford Street, Harvard University, Cambridge, MA 02138. *Teaching Graduate Students to Teach Mathematics.*

Although teaching is a significant component of most mathematicians' careers, teacher-training programs for graduate students who are pursuing a research career in mathematics are a relatively recent development. Future mathematicians must study and train to improve their teaching skills. Teaching fellows must understand the mathematics in the context of the course that they are teaching and must be able to understand and relate to their students. They must acquire basic lesson planning and time management skills, develop their communication skills, and learn how to write exam problems and assign homework. All mathematics graduate students at Harvard University must undergo a yearlong teaching apprenticeship before they begin teaching their own class. We will describe the structure of our apprentice program as well as some of the methods that we employ for training and assessment. (Received August 24, 2006)