

1046-97-990

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Math in the Middle is an NSF-funded Math Science Partnership Institute for middle-level mathematics teachers at the University of Nebraska-Lincoln. The Institute seeks to develop teachers' mathematical knowledge for teaching, knowledge of effective classroom pedagogy, leadership skills, and an understanding of action research, with the goal of enabling graduates to become intellectual leaders in their local schools and districts. Teachers in the institute take seven mathematics courses, one statistics course, three education courses and one integrated math and education capstone course and earn a Master's Degree from UNL. To date, 93 teachers have earned a Master's Degree through the Institute. We will discuss the design of the institute and offer a closer look at two of the mathematics courses that have been developed for use in the Institute. (Received September 13, 2008)