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In response to the growing need for secondary mathematics teachers who are willing and able to effectively teach statistical concepts, we are integrating methods for teaching statistics into our mathematics teaching methods course for pre-service secondary mathematics teachers. In addition to learning about appropriate teaching methodology, our goals for the students include that they will be aware of similarities and differences in approaches to mathematics and statistics teaching, that they will appreciate the need for statistical literacy, and that they will increase their own understanding of statistical principles. We work to achieve these goals through a combination of teacher led discussions and student presentations. The course is jointly taught by a mathematician and a statistician with interests in mathematics and statistics education. We will present an outline of the course, describe lessons learned from our experience with this integrated course, and discuss student response and recommendations for future efforts. (Received September 16, 2008)