

962-97-10

Jeffery T. McLean* (jtmclean@stthomas.edu), Jeffery T. McLean, University of St. Thomas,
Mail # 201 OSS, St. Paul, MN 55105. *A capstone course for mathematics education majors.*

A new capstone course, Advanced Mathematics: Exploration and Exposition, has been designed to build upon required major courses and give the students a sense of the history, applicability and currency of mathematical ideas. Students make substantial oral and written presentations on topics carefully selected to have a strong relationship to secondary school mathematics using current publications, e.g. The American Mathematical Monthly, Mathematics Magazine, Mathematical Intelligencer, Scientific American, as well as standard texts, as sources for their work. The course will have been taught twice and will be outlined and evaluated in this presentation. Attention will be given to national recommendations for teacher preparation. (Received May 10, 2000)