

EMAT 6000  
SPECIAL PROBLEMS IN MATHEMATICS EDUCATION  
Spring 2008

Instructor: Dr. Andrea Knapp  
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Class times: By appointment with instructor.  
Office hours: Monday 7:45-8:15, Tuesday 8:15-8:45, By appointment

Course Materials and Websites

Ma, L. (1999). *Knowing and teaching elementary mathematics: Teachers' understanding of fundamental mathematics in China and the United States*. Mahwah, N. J.: Lawrence Erlbaum Associates.  
Stigler, J.W., & Hiebert, J. (1999). *The teaching gap*. New York, NY: THE FREE PRESS.  
StyleWizad-www.stylewizad.com for APA style  
Selected readings related to chosen book

Course Objectives

1. To become familiar with issues and trends in mathematics education.
2. To synthesize literature in mathematics education.
3. To clearly articulate issues and trends in mathematics education in written and spoken form.

Assignments

1. Choose from the above list a book related to issues and trends in mathematics education. Obtain approval from instructor.
2. Read the book. Meet with instructor at least twice to discuss the readings.
3. Choose 3 sources cited in the book, and read them. Instructor will help identify relevant sources.
4. (90 pts) Write a 6-8 page paper summarizing the book (30) and synthesizing the literature (30). At the end, include a reflection about your reaction to the readings with respect to your experience and practice (20). To synthesize the literature, do not give a list of topics in each source. Rather, identify themes common to the sources, and compare and contrast the ideas from the three sources. Use statements such as "The second author agreed with the first in that...". Your paper should adhere to APA standards and should reflect clarity and correct grammar (10). Be sure to have someone read and comment on your paper for you before submitting the final draft.
5. (10 pts) Make a presentation to the class about the book and your reactions to it. The presentation should be 15-20 minutes in length. (10)

\*Papers may be ONE page longer or shorter than assigned. All papers should be double-spaced with 12 pt. font and 1-inch margins. Use APA 5<sup>th</sup> ed. style for writing. Check your work for correct spelling and grammar as well as clarity.

Grading: See UGA grading system at <http://bulletin.uga.edu/bulletin/acad/Grades.html>. More specifically,

A+=97, A=93, A-=90  
B+=87, B=83, B-=80  
C+=77, C=73, C-=70  
D+=67, D=63, D-=60

This syllabus is subject to change at the discretion of the instructor.

University Policies:

Students are required to meet the standards of "A Culture of Honesty." In addition, students must abide by the University Honor Code and Academic Honesty Policy. Students are responsible for informing themselves about such standards before performing any academic work. See <http://www.uga.edu/ovpi/honesty/acadhon.htm>.