MATH 791

Intro to Mathematics Education

Andrew Bennett

This course will cover fundamental topics in mathematics education research, including such areas as problem solving and assessing levels of understanding of mathematics. It is intended to give an overview of broad areas of research in mathematics education with emphasis on education at a collegiate level. The course will be taught in a seminar format and will meet once a week on Mondays from 4:30-7:00. Significant amounts of reading and some writing assignments will be required.

You should consult the instructor for the current (but constantly changing) list of readings for the course. These will likely include selections from the following, along with a variety of other papers.

- Schoenfeld, *Mathematical Problem Solving*
- Ma, *Knowing and Teaching Elementary Mathematics*
- NRC, *How People Learn*
- Seymour and Hewitt, *Talking About Leaving: Why Undergraduates Leave the Sciences*
- Anderson, et. al., *Applications and misapplications of cognitive psychology to mathematics education*