

MA 201 Mathematics for Elementary Teachers
Fall, 2004, 2005, 2006 (Spring)

Course Instructors:

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Dr. Richard Millman, Patterson Office Tower 941,
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Purpose of the Course: This course is to deepen the content understanding of mathematics that is needed for teaching elementary or middle school mathematics and to do so in a way that emphasizes the national and Kentucky standards and principles for school mathematics. There will be student interactions during class and inquiry based learning will be used. Examples coming from actual K-6 student work will be included.

Prerequisites: MA 109 or equivalent.

Text: *Mathematical Reasoning for Elementary Teachers*, by Calvin Long and Duane DeTemple, third edition. (This is also the text for MA 202 next semester.)

Grading Policy: There will be three in class exams, a final, and an oral group presentation (which will also have an individual writing component in it.) Homework will be collected and a grade assigned on each based on a selection of the problems assigned. Note: The final exam will be cumulative and common to all of the sections. Should a student miss an exam, notifying the instructor as soon as possible (preferably before the exam), the final exam can be used as that exam. This procedure will be followed only in the case that the reason for not being present at the exam is an allowable University excuse. The final grade will be computed as follows:

Homework	10%
3 Exams (total)	45%
Comprehensive Final	30%
Presentation/Paper	15%

Exam 1: Week of September 20
Exam 2: Week of October 18
Exam 3: Week of November 15
Final Exam: During Finals period

A detailed description of the presentation project and writing assignment will be given three weeks before it is due and will cover material from Chapter 5. Please note that the exams (except the final) will be given in class and so there are no Tuesday evening exams as listed on the class schedule. Students are advised to attend class. The lowest grade on homework will be dropped in calculating the homework component of a student's grade. Attendance is mandatory during the group presentations.

Homework: Homework must be handed during class on the day it is due in order to be graded.

Calculators will be allowed on exams one and two but not three nor the final. On the other hand, cheating on exams and other forms of academic dishonesty are not acceptable. The minimal grade for cheating, according to UK policy, is an E in the course.

Coverage of Text: The first 7 chapters of the book will be covered. We will start with chapters 2 and 3 and then move on to Chapter 1, omitting sections 1.1, 3.5, 3.6, and 4.4. You will not be asked on an exam about the material in the historical notes nor the Egyptian nor Mayan numerals from 3.1.

Question 1, Exam 1: What are the Principles and Standards of the NCTM? Hint: ECTLAT and $5 + 5$?

Syllabus for 2005/06 also.