

Course Syllabus for MA 202: Mathematics for Elementary School Teachers

Section 002: TR 9:30am - 10:45am

Section 004: TR 12:30pm - 1:45pm

Contact Information:

Instructor: Megan Dailey

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Office Hours: TR 2-3:30pm

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Course Webpage: www.ms.uky.edu/~mdailey

Textbook: *Mathematical Reasoning for Elementary Teachers* (5th Edition), by Long, DeTemple, and Millman. We will cover chapters 7-13.

Course Overview: MA 202 is the continuation of MA 201 and is designed to clarify and deepen the conceptual content of mathematics needed for an elementary school teacher as dictated by the national and Kentucky standards and principles for school mathematics. We will concentrate on the 'why' more often than the 'how' and develop connections between concepts and real examples. Many of these examples will come from actual K-6 students. The course will cover algebraic reasoning, introduction to statistics and probability, geometry, and measurement.

Prerequisites: A grade of "C" or better in MA 201. Also recommended: a course in logic (e.g. PHI 120) or a course in calculus (e.g. MA 123).

Attendance: Regular attendance is one key to success in this and any math course. You are strongly encouraged to attend, though attendance will not explicitly affect your grade except during the weeks of student presentations.

Homework: There will be weekly homework assignments that will be collected *at the start of class every Tuesday*. It must be submitted in numerical order on loose-leaf paper (i.e. not ripped from a spiral notebook) which contains your name and section number, and should be stapled if there is more than one sheet. Problems submitted improperly will have points deducted. Deductions will be made on late homework assignments (10 % on the due date, 20 % for *each* weekday after the due date), and no credit will be given for assignments that are 2 or more class periods late. You may work with classmates, but you are each expected to turn in *original* work. Copying solutions from the back of the textbook and/or a solutions manual is considered cheating and will be dealt with as such. You will find the assignments posted on the course website.

Each homework assignment will be worth a total of 15 points. You will earn 6 points for successfully completing *every* problem. The remaining 9 points will come from an in-class quiz consisting of problems from the assignment. On each quiz you will be allowed to use your homework solutions. Homework will be worth 15% of your final grade.

Presentations: During the course, you will be giving a group presentation to the class. Grades for the presentation will be assigned based on both the group and individual performance as well as your ability to write a peer review. Details about the presentation will be distributed about three weeks before the presentations. Attendance during all presentations is required and will be monitored. The presentation will be worth 15% of your grade.

Exams: There will be three midterm exams and one final exam. Calculators will not be allowed unless otherwise noted. Makeup exams will only be given in the presence of a university excused absence. Even then, you must notify the instructor of your absence no later than the day of the exam. For example, if you are sick the day of an exam, you must notify me *that day* and be prepared to present a doctor's note. The final exam will be comprehensive and must be taken at the time designated by the university.

Grading: Grades will follow the standard 10 point scale (90-100% A, 80-89% B, etc.). Individual grade components and overall course grades may be curved up (but not down) to ensure a fair distribution of grades. Grades will be determined as follows:

Homework.....	15%
Presentation...	15%
Exam 1.....	15%
Exam 2.....	15%
Exam 3.....	15%
Final.....	25%

Academic Integrity: All violations of academic integrity will be taken seriously and dealt with according to university regulations.

Classroom Decorum: You are expected to attend and *participate* in every class. I expect you to be respectful to me and the other students and to exhibit proper conduct. If you are disruptive, if you are sleeping, reading the newspaper, using your laptop, cell phone, or other wireless device, working on other homework, or for any other reason are not actively engaged in activities related to math class you will be asked to leave the classroom.

Academic Accommodations: If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754) for coordination of campus disability services available to students with disabilities.

Resources: The office hours that I give above are dedicated to helping you. You can stop by any time during those hours without having to actually set up a time with me. If I ever will be missing an office hour, I will let you know. If it happens that you want to meet with me but cannot make any of these times, let me know through email and I will try to work with you to find a time good for both of us.

I am also available for questions through email. I will try to be prompt about answering emails, but I may not get to emails received after 5pm until the next day. Note that statements such as "I don't know how to do problem 11," are not questions. Please tell me what you have tried, directions you have attempted, and where the problem is occurring.

Also try the Mathskeller, located in the basement of the Classroom building, and the Study, located in the Commons Complex the Blanding Towers.

Tentative Schedule:

Date	Section	Notes
1/13	7.1	
1/18	7.2	Homework 1 due
1/20	7.3	
1/25	7.4	Homework 2 due
1/27	8.1	
2/1	8.2	Homework 3 due
2/3	8.3	
2/8	Exam 1	
2/10	9.1	
2/15	9.2	Homework 4 due
2/17	9.3	
2/22	10.1	Homework 5 due
2/24	10.2	
3/1	10.3	Homework 6 due
3/3	10.4	
3/8	Exam 2	

Date	Section	Notes
3/10	11.1	
3/22	11.2	Homework 8 due
3/24	11.3	
3/29	12.1	Homework 9 due
3/31	12.2	
4/5	12.3	Homework 10 due
4/7	Exam 3	
4/12	13.1	Homework 11 due
4/14	13.2	
4/19	13.3	Homework 12 due
4/21	Presentations	
4/26	Presentations	
4/28	Presentations	
5/3	Final	Section 002, 8am
5/5	Final	Section 004, 1pm