

MA 201: Math for Elementary Teachers, Section 007

College of Arts & Sciences (A&S)

Department of Mathematics (MA)

Fall 2014

Instructor Information:

Instructor: Clifford Taylor

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Office Hours: M 3-4, W 1-2 POT 802 Other times by appointment

Class Time and Location: TR 2:00 pm - 3:15 pm, CB 339

Blackboard: This course will use the UK Blackboard site for some components. You can access the Blackboard sites for your course(s) from the following website, using your LinkBlue account: <http://elearning.uky.edu>. I will post homework assignments, presentation schedules, grades, recent versions of the syllabus, important announcements, etc. to Blackboard.

Required Course Materials:

Textbook: *Mathematical Practices.*, Ron Larson, Robyn Silbey, ISBN: 978-1-285-44710-0.

Calculator: No calculators will be allowed on the exams. You also may not use calculators on cell phones or any device capable of wireless communication.

Introduction: This course will provide future elementary educators with the mathematical background needed for teaching elementary school mathematics. The emphasis of the course is on developing conceptual knowledge which is a requirement for effectively communicating mathematics to elementary school students. This is not a pedagogy course! This is an upper level college mathematics course in which you will acquire mathematical skills to use in future education courses.

Course Content: We will cover the following chapters this semester

- Ch. 1 Problem Solving
- Ch. 2 Sets and Numeral Systems
- Ch. 3 Operations with Whole Numbers
- Ch. 4 Exponents and Estimation
- Ch. 5 Number Theory
- Ch. 6 Fractions
- Ch. 7 Decimals and Percents
- Ch. 8 Integers

Grading:

The point breakdown of your course grade is as follows:

Homework	40
Quizzes	40
Presentation	20
Exam 1	100
Exam 2	100
Exam 3	100
Exam 4	100
Total	500

Your letter grade will be based on the following percentages:

A	> 89%
B	> 79%
C	> 69%
D	> 59%
E	0-59%

Homework: Homework will be collected most Tuesdays (with exceptions including exam days) and will be graded out of 4 points for completeness. Homework should be legible, neat, stapled, and represent the final draft of your work, not quickly dashed-off scratch work. You are encouraged to work in groups on the homework, but the final write up and explanations of the work should be your own. The quiz questions will largely be drawn from/similar to the homework problems. There should be approximately 9 homework assignments throughout the semester.

Quizzes: Quizzes will be given most Thursdays (again with a few exceptions involving the exam days) and will be graded out of 4 points each. There should be approximately 9 quizzes.

Presentations: There will be a sign-up sheet of days to present throughout the semester. Each student must present once and we will have 2 presentations on a given day. The topic of your presentation will be assigned to you a week in advance and you should prepare a 5 minute talk as if you were presenting a mini-lesson in a classroom. This will be a chance to practice effectively communicating mathematics. You will also submit a short reflection, about half a page, discussing how you think your presentation went, how it may have been improved, and how you think the class reacted. Reflections will be due the class following your presentation.

Exams: We will have four total exams. The “final” exam will be just like any other exam and is not cumulative.

Attendance: The attendance portion of your grade will be included under the Quizzes & Homework points. This means that I will not accept a homework assignment that is not handed in by the sole author of the work. Further, this means you must be present for

the entire class for me to accept the assignment. Exceptions will be made in the case of a University defined excused absence.

Electronics: I do not permit any forms of electronics to be present during lecture. This includes, but it not limited to, laptops, tablets, cell phones.

Academic Integrity, Cheating, and Plagiarism: You should feel free to study with friends, but any work you submit for a grade should be your own work. This applies to all exams, quizzes, and writing assignments, with the exception of any assignment that is specifically designated as a group assignment.

Academic dishonesty, in any form, will not be tolerated. This includes, but is not limited to, copying a classmate's work, allowing a classmate to copy your work, modifying an exam after it has been handed back in an attempt to deceive the instructor into believing the assignment was graded incorrectly. A student found guilty of academic dishonesty will receive an automatic E on the assignment, and in some cases the offense may lead to an E for the course, academic probation, or even expulsion. See sections 6.3.1 and 6.3.2 at www.uky.edu/StudentAffairs/Code/part2.html for more information regarding academic integrity.

Disability Accommodations: If you have 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, 859 257 2754, email address jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

Suggestions: Constructive suggestions for this course are welcome at any time. I welcome suggestions that will improve the course both this semester and in semesters to come.

I reserve the right to change or amend this syllabus at any time for any reason.