Spring 2017 Math 131 Section 001 Syllabus

Time: MW 4:45-6:00  
Room: Van Vleck B113  
Instructor: Woojin Kim  
Office: Van Vleck 816  
Office Hours: Th 4:00-5:00, F 11:00-12:00, or by appointment  
E-mail: wkim@math.wisc.edu  
Course Website: https://www.math.wisc.edu/~wkim/s2017-m131.html

Course Goals

Math 131 is the second of Math 13x course sequence focusing on the mathematics needed for teaching in elementary school and middle school. Math 131 focuses on geometry and measurement. Note that this course is designed to teach mathematics, not pedagogy. The main goal of this course is to acquire a solid knowledge of the mathematics taught in elementary schools. This course emphasizes how to present the material in the simplest and clearest way. This course also emphasizes what students will find difficult and what errors they are likely to make.

Materials

- Textbooks:
  - Elementary Geometry for Teachers, by Thomas H. Parker and Scott J. Baldridge
  - Primary Math 3B, 4A, 5A, 5B, 6B Textbook (U.S. Edition)
  - New Elementary Math Textbook 1
  - Activities Manual for Mathematics for Elementary Teachers (3rd edition) by Sybilla Beckmann

- Other Materials: Ruler, Compass, Protractor, Setsquare
Grading

There will be homework, 2 in-class midterm exams, and a cumulative final exam in this lecture.

- **Homework (30%)**: Solving problems is the best way to learn math, so homework will be given in most weeks. Homework will be due at the beginning of Wednesday’s lecture. Unexcused late homework will **not** be accepted. 50% of homework grading will be based on completion, and the other 50% will be based on completeness on 2 problems. We will have 12 homework in this lecture. 2 lowest homework will be dropped at the end.

- **Exams (20%+20%+30%)**: There will be 2 in-class midterm exams and a cumulative final exam. Each midterm exam will count for 20% of grade, and the final exam will count for 30% of grade. The final exam will be held on Sunday May 7\textsuperscript{th} from 12:25 PM to 2:25 PM. If you need to take an alternative exam, contact the instructor as soon as possible.

- **Regrading**: Every grade will be posted on Learn@UW. You are responsible for checking your grade regularly on Learn@UW. If you want to request regrading, you should request it within a week from receiving graded materials.

Expectation

- **Before Class**: You need to read the relevant sections of the textbook before coming to class.

- **In Class**: We will do group activities in class. You are expected to participate in group activities and to ask questions about what you do not understand.

- **After Class**: You are encouraged to work in groups on difficult homework problems. However, you should write up your homework on your own.

- **Calculator**: Calculators will **not** be used for this lecture, and will **not** be allowed for exams. A successful elementary school teacher should be confident and comfortable solving problems mentally and on paper. One of the goals of this course is to develop that facility.

If you are a McBurney student, please talk to me as soon as possible.