

Math 210: Basic Number Concepts

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Office: SN 111

Office hours: Wednesday 1-1:50 pm in SN 111, Saturday 8-8:30 am, Saturday 11:30-12 pm in SH 276 & by appointment

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Course Objective: This course is a *mathematics* course focusing on elementary school mathematics. The main goal is to acquire a solid knowledge of that material. However, an elementary school teacher needs to know much more, including: (i) how to present the material in the simplest, clearest way, (ii) the appropriate sequential order for developing mathematics skills, (iii) what the students will find difficult and what errors they are likely to make, and (iv) how each topic helps advance the mathematical level of the students.

Texts:

Elementary Mathematics for Teachers by Thomas Parker and Scott Baldrige
Primary Mathematics Textbooks (U.S. Edition)–Primary Mathematics 3A, 4A, 5A, 6A and Workbook 5A. These textbooks have been approved by LAUSD for classroom use.

Material:

All sections except 1.7, part of 6.6, and part of 9.4

Chapter 1 Place Value and Models for Arithmetic

Chapter 2 Mental Math and Word Problems

Chapter 3 Algorithms

Chapter 4 Pre-algebra

Chapter 5 Factors, Primes, and Proofs

Chapter 6 Fractions

Chapter 7 Ratios, Percentages, and Rates

Chapter 8 Negative Numbers and Integers

Chapter 9 Decimals, Rationals, and Real Numbers

There is a Homework Set for each section in the text and homework exercises will be assigned with every class (and are posted on our class webpage). In addition, there will be a number of collected homework assignments. These will be graded and the problems will either be from the

text or on a separate handout. it is extremely important to keep up with all assignments. **No late homework will be accepted.**

Attendance is an essential part of this course. Attendance means being on-time and not leaving the classroom before the end of the lecture. *Cell phones and pagers must be turned off.*

University drop/add policy: During the first three weeks of class, students can drop a class through SOLAR; after week four, a partial withdrawal is normally not permitted. I cannot drop students, so it is your responsibility to drop the class if you do not intend on finishing it.

Exams: There will be three in-class examinations and a comprehensive common final on Saturday, May 10 11:30 am - 1:30 pm (room to be announced). Please arranged your work schedule and exam dates for CSET or other exams so there is not a conflict. There will be **no makeups on tests or quizzes**. In case of an emergency, contact me immediately. Be prepared to provide evidence of the emergency.

Calculators: Calculators will *not* be used for this class, 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 ability.

Recommendation for a review of basic algebra: Facility in arithmetic and elementary algebra will be assumed on the final exam. For a review of basic algebra, students are encouraged to purchase ALEKS, and interactive computer program. Information about purchasing ALEKS online is posted on the course webpage (<http://www.csun.edu/math/210.html>).

Tutoring: In addition to my office hours, free tutoring will be available for Math 210/310 students in the Math Tutoring Center SH 274.

Grading: I will use the \pm grading system and will compute your grade as follows:

three in-class exams 15% each

collected homework 15%

micro-teaching 15%

final exam 25%