

# Math 230-20 (8:00 - 10:00 MTWRF 342 Stillwell)

## Theory of Arithmetic I

### Summer 2006 - Session I (June 1 – July 3)

**Instructor:** Dr. Lori Koban

**Office:** Belk 186 (Enter through Belk 183.)

**Phone:** 227-2484 (Probably won't work.)

**E-mail:** lkoban@email.wcu.edu (Best way to contact me.)

**Webpage:** [www.cs.wcu.edu/~fern](http://www.cs.wcu.edu/~fern) (Check EVERY day!)

**Office Hours:**

I will be in my office at the following times: **MTWRF 1:00 - 2:00.**

Please feel free to make an appointment for another time.

**Text:** Rick Billstein, Shlomo Libeskind, Johnny Lott (2004). *A Problem Solving Approach to Mathematics for Elementary School Teachers* (Eighth Edition).

**Course Description:** Logic, sets, relations, mathematical systems, counting, numeration systems, and algorithms for whole numbers.

**Class materials:**

- A simple calculator is **required**.
- I **recommend** that you have a three-ring binder.
- A cheap folder (for homework "Exam problems") is **required**.
- **BRING YOUR CALCULATOR, NOTES, HOMEWORK, AND TEXTBOOK TO EVERY CLASS!**

**Grades:** Your grades will be calculated in the following way:

3 Exams	375 points (125 points each)
Cumulative Final Exam	150 points
Quizzes	125 points

**Exams:** There will be three exams. Tentative exam dates are June 12, June 21, and June 29. Taking exams is not optional. Unless you have an excellent reason that is supported by documentation, there are no make-up exams. If you think that you have a reason to miss an exam, then contact me in advance and we will discuss your situation. If you miss an exam, then your score is a 0. For each exam, 25 points (which is 20%) is from homework problems.

Each day there will be one homework problem that is designated as an “Exam Problem”. This problem is to be written up neatly and placed in your folder. I will collect your folder at the beginning of each exam day. Folders will NOT be collected late. The homework “Exam problems” MUST be completed independently. You may use your notes and book, but you may not receive assistance from anyone else. Violation of this policy is considered cheating.

**Final:** The cumulative final exam is on Monday, July 3.

**Quizzes:** There will be a short quiz every day that is not an exam day. Each quiz is worth 10 points. Your thirteen best quizzes will count towards your quiz grade. (Notice that this gives you 5 free points.) Each quiz may be in-class or take-home. If it is take-home, then it is due at the beginning of the next class. If you are not present to receive or turn in a take-home quiz, then your score is a 0. There are no make-up quizzes.

**Homework:** Homework is the most important part of this course. You “learn by doing”. Plan to spend about 3 hours a day on homework. (Roughly, spend 1 hour reading the text and reviewing your notes, and 2 hours doing homework problems.)

**Attendance:** I expect you to attend all classes because it is impossible to make up class discussions and activities. Missing even one class is unacceptable, unless you have a very good reason. Please come to class on time. Attendance will be taken at 8:00 sharp.

**Academic Honesty:** If you cheat, the minimal penalty is a grade of “F” on the pertinent exam (or assignment). The maximal penalty is a grade of “F” in the course AND my recommendation that your cheating be brought to the attention of the Director of Student Judicial Affairs and the Dean of the College of Education.

**Course Grades:** Here is how your number of accumulated points will determine your grade. I reserve the right to change the scales to benefit the students.

	B+: 563 - 581	C+: 498 - 516	D+: 433 - 451	F: less than 387
A : 602 - 650	B : 537 - 562	C : 472 - 497	D : 407 - 432	
A- : 582 - 601	B- : 517 - 536	C- : 452 - 471	D- : 387 - 406	

If your grade is borderline (eg. 536 points), I may increase your grade (give you a B instead of a B-) if your class attendance, participation, and effort have been exceptional throughout the course.