

# Math 7770 Number Theory

## Spring 2011

### Basic Course Information

**Instructor:** Dr. Jen Paulhus

**Time and Location:** M 6:15-8:45 PM in Mendel Hall 258

**Office Hours:** By Appointment

**Office:** 318 SAC

**e-mail:** jennifer.paulhus@villanova.edu

**web site:** <http://www.csc.villanova.edu/~jpaulhus/teaching/ma7770sp11.html>

**Text:** *An Introduction to the Theory of Numbers*, Niven, Zuckerman, Montgomery

**Material Covered:** I plan to cover at least Chapters 1, 2, 3, 5, and 9 from the book.

**Notes:** Any student with a disability who needs special accommodations or other assistance in this course should make an appointment to speak with me as soon as possible.

Please show up on time for class and please keep cell phones packed away.

### Grading Policies

- *Homework:* Homework assignments will be due each week. Assignments will be posted on the course webpage. Homework is 50% of your grade.
- *Midterm:* Instead of a homework assignment due March 7, there will be a take-home midterm which will be worth 20% of your grade.
- *Final:* There will be a take-home final which will be due May 2 and will be 30% of your grade.

### Homeworks

Homework assignments (and the midterm) are due at the beginning of class each week. You are welcome to work with others on the homework, but everyone must write their own solutions and please list at the top of the first page the names of anyone with whom you worked or any source (animate or inanimate) from which you received assistance. This is purely for bookkeeping purposes and will not affect your score whatsoever.

The grading rubric for homework may be found on the course webpage as well. It probably does not need to be said at this level but your solutions should be written in complete sentences and with plenty of justification.

Each assignment will have three parts: "Warmup", "Problems", and "Challenge". You will only be formally graded on the "Problems" section but I will give feedback on anything you want to turn in. The "Challenge" problems will be worth a small bonus, but not enough for them to be done in place of the "Problems" section.

### Exams

The midterm and the final exams will be similar to homework problems but you will be required to work on your own and you will not be able to consult sources outside of me, our textbook, or class notes.