Math 328

Introduction to Number Theory
Fall 2018: MW 11:30am-12:45pm
Classroom: W301
Office Hours: MW 900-1000am, and 1:15-2:15pm, W418

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Course website: The syllabus and problem sets can be found at:
    http://www.mathcs.emory.edu/~ono/ (click on course title)

Course Description: This course is an introduction to ‘Number Theory.’ We shall study the following topics:
    • Pythagorean Triples,
    • Fermat’s Last Theorem,
    • Congruences,
    • Multiplicative Functions,
    • Quadratic Residues,
    • Representations of Integers as sums of squares,
    • Distribution of Primes,
    • Pell’s Equations.

Text: The official text for the course is:

Assignments: There will be two midterms and one (optional) final exam. Regular homework assignments will be distributed. Homework will be collected and graded, and students will present solutions to some homework problems in class. Final grades will be assigned according to the following weights:
    Each Test (including the Final Exam): 25%
    Homework: 15%
    In class participation: 10%

Note: The Final Exam is optional. For students who do not take the final exam each of the two midterms will count for 37.5% of the final grade.