

## MATH 4713, FALL 2018

**Professor:** Anand Patel (anand.patel@okstate.edu)

**Lectures:** MWF 12:30 - 1:20, **Classroom:** Classroom Building 203

**Course Description:** This course provides an introduction to the theory of numbers, covering the following topics (time permitting): Divisibility, Congruences, Modular arithmetic (Chinese remainder theorem, Quadratic residues, primitive roots) and techniques for solving simple Diophantine equations.

**Textbook:** *A Friendly Introduction to Number Theory* (Fourth Edition) by Joseph Silverman. **The book is absolutely essential – we will be following it closely.**

**Homework:** Homework will be assigned each week. It is by far the most important part of the class, and is absolutely essential for learning the material.

### Exams and Grading:

Midterm: October 26, **in class**

Final Exam: TBA

Exams are in class. Total grade distribution:

- (1) Homework 75%
- (2) Midterm 10%
- (3) Final 15%

**Classroom Etiquette:** Please arrive on time. And please, cell phones, beepers, and laptops should be turned off and put away during lectures.

**Office Hours:** Office: 529 MSCI. Time to be determined – you can always schedule an appointment.

**Academic Integrity:** Discussion and the exchange of ideas are essential to doing academic work. For assignments in this course, (not exams) you are encouraged to consult with your classmates as you work on problem sets. However, after discussions with peers, **make sure that you can work through the problem yourself and ensure that any answers you submit for evaluation are the result of your own efforts.**