

# Math 4713, Number Theory, Fall 2012

MWF 12.30-1.20 MSCS 509

INSTRUCTOR: Amit Ghosh

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OFFICE HOURS: MWF 1.30-2.20

TEXT: Elementary Number Theory by Kenneth Rosen, 6th edition.

COURSE DETAILS: Chapters 1,3,4,6,7,9,11,14 at least and more if we have more time.

HOMEWORK/QUIZZES: Homework will be assigned daily but not collected. Special homework, which will be graded will be assigned generally on Mondays and are due on Fridays. No late submissions will be accepted. You must write in a clear way so that I can understand your logical thought process and give partial credit where applicable.

CALCULATORS: Electronic calculators may be used for some of the homework problems. They will NOT be permitted in exams. Answers should be given in an exact form unless a numerical approximation is specifically requested. I recommend you not rely too much on a calculator for homework as you will then not do well in the tests and exams.

ATTENDANCE: Attendance of lectures is mandatory, but roll will not be taken in class. You are responsible for knowing the material, assignment, etc. presented in the class. If you miss a class, make sure your notes are up to date .... speaking of which, I don't have notes.

HELP:

- I am available during office hours, or at other times by appointment. Office hours: see above.
- Discuss the problems with your friends, but write up the solutions on your own.

EXAMS: We will have 3 in class midterms (dates will be announced here).

- MIDTERM 1: TBA
- MIDTERM 2: TBA
- MIDTERM 3: TBA

FINAL EXAM DATE: Dec 12<sup>th</sup>, 10.00 -11.50 am

GRADING: There will be no makeup exams unless your circumstances are very unusual (documentation may be needed). Your grade will be based on  $100 \times 3$  for the 3 midterms, 150 for homework and 150 for the final. Students who achieve at least 90% are guaranteed to receive an A. A score of at least 80% will receive at least a grade of B. A score of at least 70% will receive at least a C, and students with scores at 60% or above will be assured of passing. The Midterms and Final Exam has a minimum grade of 40%. Some

discretion may be used in deciding borderline cases, based on my subjective judgment of students' effort and performance.

**GENERAL STUDY HINTS:** Go to every class meeting and get help when you need it! Don't be afraid to ask questions, in class or out of class. The MLSC is available for tutoring and I am anxious to help you. But only you will know when you need it. I will likely not know you need help until after an examination, which is often too late. Do the homework! As soon as possible after class, review your notes and make an outline of the class notes paying particular attention to the definitions and theorems discussed that day. Redo the examples from class in light of your outline. Then do the homework problems. Work out homework problems on scratch paper before looking at the answers in the book. Concentrate on what you are doing rather than being distracted by the radio, TV, or conversation with friends. On average you should expect to spend a minimum of three hours on homework for every class period. However you should not be discouraged if it takes you longer to complete the homework assignments. In addition, extra time will be needed to study and review for examinations.

Additional information:

Office of Student Disability Services (315 Student Union) - According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. Call 405-744-7116 or go to [http:// www.okstate.edu/ucs/stdis/](http://www.okstate.edu/ucs/stdis/) .

**ACADEMIC INTEGRITY POLICY:** Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. For a brief overview of the policy you can watch the video or contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627, [academicintegrity.okstate.edu](http://academicintegrity.okstate.edu).

Any changes to this syllabus will be announced in class.

The <http://academicaffairs.okstate.edu/images/documents/sylatfa.pdf> contains useful information concerning important dates, academic integrity and students with disabilities, and much else.