Math 373 — Theory of Positive Integers: an introduction to number theory

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Course Webpage: www.unr.edu/~jingjingh/373/


Class: 11:00-12:15 TuTh, MIKC 107

Office Hours: TuTh 10-11 or otherwise by appointment

Course Coverage: Emphasis in this course will be placed on understanding the underlying concepts rather than memorization: knowing why is the key to knowing how. We will roughly follow our textbook, but occasionally I may add additional materials. The course will cover Chapter 1-6 of the textbook; if time permits, we will do selected topics from the last three chapters.

Grading policy: Your grade will be a function of your scores on homework, mid terms and the final. Your grade will be computed as follows:

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<tbody>
<tr>
<td>Homework</td>
<td>35%</td>
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<tr>
<td>Mid-Term 1</td>
<td>15%</td>
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<tr>
<td>Mid-Term 2</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>35%</td>
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Two of your lowest homework scores will be dropped and one of your lowest midterms will be replaced by your final if the final is higher.

Letter grades will be based upon your numerical score: A: 90%, B: 80%, C: 65%, D: 50%. There will be plus/minus letter grades.

Homework: Late homework will not be accepted unless prior permission is granted. No home- work will be accepted after the graded ones have been returned to the student. Solving homework problems will help you to understand the key concepts and to master
the skills you will need to succeed in this course. You may discuss problems with other students, but all submitted work should be your own.

**Final Exam:** The final exam is mandatory. There will be no early finals.

**Missed exams:** Accommodation for a missed midterm exam will only be considered for serious circumstances with documentation. At instructor discretion, accommodation can mean a make-up exam or replacing the percentage score of the missed exam with the percentage score from the Final Exam.

**Student Learning Outcomes:** Students will be able to demonstrate knowledge of the Euclidean division algorithm, divisibility and prime numbers. Students will be able to solve Diophantine equations and congruences, and use the theory of congruences in applications.

**Statement on Academic Dishonesty:** Cheating, plagiarism or otherwise obtaining grades under false pretenses constitute academic dishonesty according to the code of this university. Academic dishonesty will not be tolerated and penalties can include canceling a student's enrollment without a grade, giving an F for the course or for the assignment. For more details, see the UNR General Catalog.

**Statement of Disability Services:** Any student with a disability needing academic adjustments or accommodations is requested to speak with me or the Disability Resource Center (Thompson Building, Suite 101) as soon as possible to arrange for appropriate accommodations.

**Statement for Academic Success Services:** Your student fees cover usage of the Math Center (784-443 or www.unr.edu/mathcenter), Tutoring Center (784-6801 or www.unr.edu/tutoring), and Writing Center (784-6030 or www.unr.edu/writing-center). These centers support your classroom learning.

**Note:** Surreptitious or covert videotaping of class or unauthorized audio recording of class is prohibited by law and by Board of Regents policy. This class may be videotaped or audio recorded only with the written permission of the instructor. In order to accommodate students with disabilities, some students may have been given permission to record class lectures and discussions. Therefore, students should understand that their comments during class may be recorded.