Number Theory
Pacific University  Math 400  Fall 2011

Class Time and Location
MWF 3:30-4:35, Price 204

Textbook

Instructor Information
Michael Boardman
Price 209, 352-1496
boardman@pacificu.edu
http://www.math.pacificu.edu/~boardman
Office hours: MW 9:15-10:15, Tu 10-11, Th 1:30-2:30

Prerequisites
To be enrolled in this course, you should have passed Math 306 with a C or higher.

Primary Course Goals
Number theory is the study of the properties of the integers, principally the positive integers. Our primary goals include developing an understanding of divisibility, congruence, the prime numbers, the uses of number theoretic functions, and some applications (including cryptography). While there will be computations during the term, much of our work will be focused on reasoning and proof.

Homework (40%)
Homework is assigned and collected weekly. As in most upper division courses, homework is graded on the accuracy of your work. Homework must be completed on standard 8.5"×11" or 8"×10.5" 3-hole punched paper stapled in the upper left corner with your name on the first page. Homework that is difficult to read will receive a lower score. You may use LaTeX to complete your homework. No late homework is accepted.

Exams (30%)
We will have two midterm exams. Exam dates will be announced in advance.

Final Exam (30%)
The final exam is scheduled for Friday, December 9, 12:00-2:30 pm. You must take the final at this time.

Attendance
You should attend all classes. If you cannot make a particular class day, please see a classmate to get notes on material covered. If you will be participating in a university-sanctioned event that will keep you from class, you must make arrangements ahead of time for exams. If you are ill, or away from class for a university event, you may have someone turn in your homework for you.
**Academic Honesty**
Pacific University has no tolerance for academic misconduct. It is university policy that all acts of misconduct be reported to the Dean’s Office. Any act of academic misconduct in this course will result in an “F” for the course. Further sanctions may be imposed by the university, including suspension or dismissal from the university. Forms of academic misconduct include but are not limited to plagiarism, fabrication, cheating, tampering with grades, forging signatures, and using electronic information resources in violation of acceptable use policies. All work in this course is expected to be your own. There may be assignments in which you will be allowed to work with a partner or partners, in which case you will equally participate in the completion of the assignment.

**Learning Support Services (LSS)**
If you have documented challenges that will impede your learning in any way, please contact our LSS office at ext.2107. The Director or Assistant Director will meet with students, review the documentation of their disabilities, and discuss the services that Pacific offers and any ADA accommodations for specific courses.

**Grades**
I use the scale below to determine final course grades. This scale may change at the end of the term. If so, the cutoffs will not raise.

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<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>[92,100]</td>
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<tr>
<td>A-</td>
<td>[90,92)</td>
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<td>B+</td>
<td>[88,90)</td>
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<td>B</td>
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<tr>
<td>D</td>
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<td>F</td>
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**Important Dates**
- Sep 5  No Classes
- Sep 12 Drop w/o “W” Deadline
- Oct 7  No Classes
- Nov 7  Last day to Drop Courses
- Nov 23-25 No Classes
- Dec 5  Last Day of Classes
- Dec 9  12:00-2:30 p.m. Final Exam