Math 330, Section 3: Number Systems Fall 2010

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Course web page: www.math.binghamton.edu/mazur/teach/33011.html

Office Hours: M, F 10:50-11:45; T 1:20-2:20. Also by appointment.

Textbook:

The Art of Proof: Basic Training For Deeper Mathematics, by M. Beck and R. Geoghegan.

Course content: The objective of this course is to present a solid introduction to number systems, logic, sets and proofs. These ideas constitute a necessary preparation for the rigorous mathematical reasoning of real and complex analysis, topology, and modern algebra. The course will be heavily focused on proofs and techniques of proof writing. There will be many proofs done in class, and you will need to write similar proofs on your own in the homework and on the exams. While most of the material discussed in this course can be found in the textbook, the presentation of the topics and the order in which they are introduced in class will often be different from the approach taken in the book. Additional topics (not covered in the book) may be discussed in class and alternate sources may be provided.

Homework and Classwork: Homework will be collected regularly. Assignments and corresponding due dates will be posted on the course web page. Solutions will be collected and graded. Quizzes will be given frequently, usually every Tuesday. Both class attendance and systematic work on the homework problems and the material discussed in class are crucial for the success in this class. Your homework will not be graded unless it is written carefully, clearly, using full sentences.

Tests: There will be two tests and the final. No make-up tests. Date of the tests: Tuesday, March 1 and Tuesday, April 12. Date of the final exam: 11:00-1:00, May 18, 2011; SW321.

Grading Policy: Grades will be based on a combination of homework, classwork, the tests, and the final as follows: homework and classwork 30%, tests 30%, final 40%.

Academic Honesty: All students are expected to adhere to the Student Academic

Honesty Code. In particular, copying proofs from books or any other source is not allowed on homework problems. You are required to write your own solutions; you may not use another student's work as a "model" and you should not allow other students to use your work.

Final Remarks: You are responsible for attending class, behaving in class, taking class notes, doing homework problems, asking for and coming in for help, etc.; in the end, you are responsible for your success in this class so work hard! Late arrivals, early departures, cell phone conversations, eating, or drinking are not appropriate. It is your responsibility to keep informed of all announcements, syllabus adjustments, or policy changes made during scheduled classes.

All the above information is tentative. I reserve the right to make reasonable changes if I find it necessary.