MA 2025 (4-1) Bridge to Advanced Mathematics,  
Winter 2011  
Class time: Mon, Wed: 2:00-2:50 p.m., Tue, Thu 1-2:50pm, in 226 Spanagel

Instructor : Prof. Raluca Gera  
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Office Hours : Tue, Thu 10-11am, Mon and Wed 1-2pm (or by appointment), in 260 Spanagel.


Homework: Regular homework assignments will be made but none will be collected. Homework will be posted on line.

Make-up policy : There will be absolutely no accepting of late or make-up assignments. If you know you will be missing school, you can take the quiz ahead of time, if you let me know two days before the quiz will be given. If you cannot attend the Exams, a makeup will be given only if you have informed me of your expected absence no later than 2 class periods preceding the test. For sudden illness and accidents, please see me upon your return to class.

Grading: Your final grade is the average of your 3 exams (100 points each) and the final(200 points). The final is cumulative, but heavier on the part covered since the last exam.

Course Description: MA 2025 is the first course in a two-course sequence designed to provide a foundation in logic and elementary discrete mathematics. The course is useful for students from a number of disciplines, but has been specifically tailored for students of computer science. The principal emphasis is on logic and its application to mathematical proof. Once the logical underpinnings are firmly in place, the course applies them to a handful of fundamental areas of discrete mathematics that are also essential in computer science. These are naive set theory, properties of functions (and a menagerie of especially useful functions), integer divisibility, mathematical induction, and elementary combinatorics. Three of these areas (elementary number theory, mathematical induction, and combinatorics) are pursued in greater depth in the follow-on course, MA3025.