Lectures: MWF 9:05-9:55
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Office hours: MWF 11:15 - 12:05 or by appointment

1. Course Assessment. Your grade will be determined by your performance on
homework, quizzes given in class and a final exam. I will take in homework from you each
Monday, starting on 9/15/08, except that the last homework will be due on Friday 12/5/08
instead of Monday 12/1/08. Homework may be given to me during class, and I will also
accept it if you put it in my mailbox before 4pm on Monday. There will be twelve sets
of homework altogether during the semester. Every other Monday (except for 12/1/08)
there will be a 30 min. quiz in class on the subject matter of the homework due that day
and on the previous Monday. There will be 6 quizzes altogether, on 9/22/08, 10/6/08,
10/20/08, 11/3/08, 11/17/08 and 12/5/08. We will finish with a final exam on all the
topics covered, to be given in exam week. This may be either a formal sit-down exam,
or perhaps a take-home exam – I have not yet decided which, and we will discuss this.
Each quiz will count 6%, the homeworks will count 48%, and the final exam will count
16%. There will be no make-up quizzes. If you miss a quiz and explain to me your genuine
reason I will give you a score which is the average of your remaining quizzes. If you do
not talk to me about missing a quiz you get 0, and I am most unlikely to think favorably
about missing 3 or more quizzes. I will probably drop the lowest homework score of each
person.

2. Syllabus. Over the two semesters we will cover the topics which appear on the
official graduate preliminary written exam syllabus, obtainable from
http://www.math.umn.edu/grad/syllabus.html,
and we will probably cover one or two further things as well. Most of this syllabus is
treated by Rotman. The material on the spectral theorem for symmetric and Hermitian
matrices does not appear in the book. The sections of the book we will use over the two
semesters are Chapters 2 - 4, then sections 5.1 - 5.3, 6.1 - 6.4, 7.1, 7.4, 9.1- 9.5.

3. Expectations of your work. You may discuss homework problems with other
students, indeed I encourage you to do this; but I would like each person to write out their
own homework as an independent effort. If the final exam turns out to be a take-home
exam, I expect this to be entirely your own work, done without any collaboration.

As concerns your written style, I expect your homework to contain full written
explanations of your arguments. These should be written in English sentences (recall that
sentences start with a capital letter, contain a verb and finish with a period or symbol such
as?!) and read smoothly as English. If some portion of argument is missing from what
you write, you will not get credit by explaining afterwards that you knew it really but you just omitted to write it down. I expect that you all will come with some experience of writing mathematical arguments in this fashion.

4. Other books. The following books are very useful: D.S. Dummit and R.M. Foote, Abstract Algebra; S. Lang, Algebra; M. Artin, Algebra; I.N. Herstein, Topics in Algebra as well as books by Jacobson and Hungerford.