Math 3134, Applied Combinatorics and Graph Theory
Spring 2005
10:10–11:00 AM MWF, Derring 3092

Instructor: Imre Tuba
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Prerequisites: A passing grade in Math 3034 or 2534 is required to take this course. If you earned less than a B in either of these courses, you may find Math 3134 very challenging.

The Honor Code will be in effect on all assignments except for certain homework exercises, which you will be allowed to discuss with others.

Text: Dossey, Otto, Spence, Vanden Eynden: Discrete Mathematics, 4th edition. We will cover parts of chapters 3–8.

Website: `www.math.vt.edu/people/ituba/math3134`.

Office hours: 1–2:30 M, 2:30–4 W, 12:10–1:10 F. I am often in my office at other times, so if you cannot make the above times, you can always try your luck some other time. Don't be shy, call ahead to see if I am there if you'd like, or just stop by.

Homework will be assigned after each class and posted on the class website. It will generally be due at 5 PM the following Monday in the envelope on my door. There will be three types of exercises:

- some which you will have to do but not turn in,
- some which you will have to do on your own and turn in,
- and some which you can work on with other students but will have to write up and turn in on your own.

I am letting you work together on some exercises so that you can test your ideas on each other and work together constructively. I still expect you to fully understand the solution and write it up on your own. Submission of nearly identical work by two different students will not be acceptable.

I want to be able to grade and return HW promptly. So to be fair to everyone, I will not accept late HW for credit. It is still better to turn in homework late than never. I will still grade it. It is essential that you take the HW very seriously. Don't leave it to the last moment, do it all, and do it on time. You are unlikely to succeed in a math class without doing the all of the HW.

Exams: There will be 3 in-class hourly exams: Feb 18, Mar 18, and Apr 15. The lowest of the three scores will be dropped. There will be no make-ups. The final exam is at 7:45 AM May 9.

Grading scheme:

Homework:	30%
In-class exams:	40%
Final exam:	30%

A score of 90% or more will guarantee an A, 80% a B, 70% a C, and 60% a D. The curve may be adjusted lower than this.

Quality of work: It is important that you work neatly on the assignments. The quality of your work will affect your grade. Quality has to do with how easy it is for someone else to read your solution to a problem. It is not enough to do math right, you must also present it well.

Students with disabilities: If you need special arrangements, let me know well in advance so we can plan to accommodate your needs.

Another general note: Learning math is much like learning to ride a bicycle in that you learn by doing it and not by watching someone else do it. Attending class and reading the textbook won't be enough to do well on the exams. You should work through every example and computation in the book and in your class notes and expect to have to re-read everything several times. It's slow, but then your reading list for this class is short.