MATH 5366 Fall 2010 — Enumerative Combinatorics

MWF 12 – 12:50  Engr  118 (3 credits, prereq MATH 3355, 4326 or 3280)

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Office Hours: M 11:00 – 12:00 & 3:00 – 4:00, W 2:00 – 3:00, F 1:00 – 2:00, and by appointment

Required Material (Textbook):
We will cover most of Chapters 1–9 and some of Chapter 14 as time permits.

Course Goals and Objectives:

Attendance requirements and penalties:
While regular attendance is highly recommended and very welcome, it is not mandatory and absences will not be penalized. Obviously, we will often in assignments, tests, and proofs performed in class refer to previously mentioned material which may not always be easily found in the book. Therefore, missing classes may cause difficulties in meeting the course standards.

Assignments:
There will be assignments from almost every class. Problems will be posted on the web every Friday and are due on the following Monday except possibly for the weeks when there is a test. There will be NO make-up assignments. A 10–50% penalty may be assessed for repeatedly late assignments (you have one grace late submission). The lowest assignment score will be dropped. An assignment is assumed to be your own work! Therefore, you can collaborate with other people when preparing for the assignment, but you have to work alone when you are actually doing it. Also, you cannot use any kind of solutions to assigned problems that can be found in manuals, on Internet, or elsewhere.

Additional homework:
There will be additional homework exercises from almost every class. The problems will be posted on the web but are not to be turned in.

Tests:
There will be three tests. Tentative dates are weeks 3/4, 7/8, 13/14. The material to be covered in the tests will be announced in class. The tests can be open book and/or take home. In-class tests may be given at evening time periods outside of your regular class times to give you extra time for completing the test without too much stress.

Missing an exam is a serious matter. In order to schedule a make-up exam, you must have a written medical excuse or a very serious personal reason. Let me know of your absence before the exam takes place.
Extra Credit:
Extra credit is given in the form of bonus point. Details in class.

Final Exam:
The Final Exam will be cumulative. It can be an open book exam. It is scheduled for Wednesday, December 22 at 8 AM in the regular classroom.

Grading:
Your grade in this course will be based on:
Tests = 60% (20% each)
Assignments = 20%
Final Exam = 20%
Bonus points (details in class)

Grading scale:
Your grade in this course will be determined as follows:

91–100 A
86–90 A–
81–85 B+
76–80 B
71–75 B–
66–70 C+
61–65 C
56–60 C–
50–55 D
below 50 F

Students with Disabilities:
It is the policy and practice of the University of Minnesota Duluth to create inclusive learning environments for all students, including students with disabilities. If there are aspects of this course that result in barriers to your inclusion or your ability to meet course requirements – such as time limited exams, inaccessible web content, or the use of non-captioned videos – please notify the instructor as soon as possible. You are also encouraged to contact the Office of Disability Resources to discuss and arrange reasonable accommodations. Please call 218-726-6130 or visit the DR website at www.d.umn.edu/access for more information.

Cell Phones:
Cellular telephones and other communication devices are prohibited during quizzes and exams. Having any communicating device out during an exam will be considered cheating and result in an immediate zero. Also note it is discourteous and a distraction to have ringing phones during class time. If you do not turn off your ringer you may be asked to leave the room.

Pictures and Videos:
Photographs and video cannot be taken without prior instructor’s consent. If a verbal consent is given, they cannot be made public (e.g., on internet) without written consent of instructor and UMD administration.
Policies:
The following policies apply:
http://www.policy.umn.edu/Policies/Education/Education/SYLLABUSREQUIREMENTS_APPA.html
All students at the UMD must be in compliance with the student conduct code in the policies and procedures section of the 2005-2007 University Catalog, specifically in this course with regards to scholastic dishonesty. Academic integrity is of utmost importance and all procedures and sanctions will be followed as per the university catalog.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities and employment without regard to race, religion, color, sex, national origin, handicap, age, veteran status or sexual orientation.

**Academic Dishonesty—Prohibited Conduct:**
All forms of academic dishonesty are prohibited, including (but not limited to):

1. submission of false records of academic achievement
2. cheating on assignments or examinations
3. submitting sentences or ideas as your own without proper acknowledgment or citation (plagiarizing)
4. altering, forging, or misusing a University academic record or forging the signature of any member of the University community
5. taking, acquiring, using, or circulating test materials without faculty permission
6. acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement
7. facilitating academic dishonesty by helping another student to violate the academic integrity policy, such as providing course work for another student to turn in as his or her own effort or taking an exam for another student
8. presenting as one’s own a plot, succession of ideas, or list/outline of another without proper acknowledgment
9. attending a class, completing an assignment, or taking a quiz/test in the name of another student
10. copying, editing, using, or deleting computer files without permission
11. altering or viewing computer records, dispensing or releasing information gained via unauthorized access, modifying computer programs or systems, or interfering with the use or availability of computer systems or information
12. bribing or attempting to bribe, promising favors, or making threats with the intention of affecting a grade, a record, or an evaluation of academic performance
13. purchasing or otherwise presenting work as your own when it was done by another person
14. submitting the same paper or generally similar papers to meet the requirements of more than one course without the approval and consent of all faculty members of all such courses
15. depriving another student of necessary study or research materials or in any way impeding another student’s work and pursuit of education
16. submitting falsified data, such as bibliographic resources and experimental data or altering graded academic work/quizzes/tests and resubmitting them in order to get a higher grade (fabrication)
17. intentional use, misuse, or alterations of University materials or resources in an attempt to make them inaccessible to others (e.g., altering passwords, unauthorized use of computer accounts, violation of library procedures, intentional misuse or destruction of educational materials)