Math 375-01: Intro to Discrete Math   Professor: Dan Singer
Mon-Tue-Thu-Fri 12:00 –12:50 pm   Webpage: http://mavdisk.mnsu.edu/singed/
Classroom: Armstrong Hall 316   Email: dan.singer@mnsu.edu
My Office: Wissink Hall 263   My Office Hours: 11-12 and 3-5 MTHF

Course Description: An introduction to the concepts fundamental to the analysis of algorithms and their realization. Topics will include combinatorics, generating functions, recurrence relations, graph theory, and networks.

Prerequisite: Math 247 with a C or better or consent.

Textbook: *Applied Combinatorics, 5th Edition,* by Alan Tucker, 2007, Addison Wesley.

Course Format: My goal is to help you think through the material and participate actively in the class. I will give lectures and provide examples as needed, but I am relying on students to read the textbook carefully and work with me to understand and apply the ideas. Please read ahead, following the schedule on the second page of this syllabus. Questions from students about homework problems are encouraged at the beginning of class. I encourage you to see me in office hours if necessary.

Exam Policy: You may bring in a single sheet of notes to refer to during each exam. You may use a calculator as directed.

Homework Policy: Homework must be written up carefully and stapled. Please indicate at the top of your homework one or two problems you would like me to comment on, if necessary. All homework completed in good faith and turned in will receive full credit.

Attendance Policy: Please attend regularly. I would appreciate it if you would send me an email in advance of any unavoidable absences or emergencies.

Student Conduct: Please do the following: Arrive to class on time. Turn off your cell phone if you have one. Let me know in advance if you need to leave the classroom early for some reason.

Grade Calculation: 4 Exams: 100 points each. Homework: 100 points. The final grade is determined by the scale below:

A: 450 – 500 points   B: 400 – 449 points   C: 350 – 399 points
D: 300 – 349 points   F: 0 – 299 points

Grade Policy: Your grade is based on your performance during the fifteen weeks of the regular semester in accordance with the grade calculation above. I will not change any grades after they have been submitted to the Registrar, and I will not consent to extra-credit opportunities designed for the express purpose of raising the grade of one individual. All discussions with me regarding your grade should be limited to how you can study adequately for exams and what scores I have currently recorded for you in my

records. Consult the handout "Five Tips for Effective Studying in Mathematics Courses" at the beginning of the semester for advice on studying.

Class Schedule:

Date	Agenda	Date	Agenda
Mon Aug 22	section 1.1	Mon Oct 17	section 5.2
Tue Aug 23	section 1.1	Tue Oct 18	Exam 2
Thu Aug 25	section 1.2	Thu Oct 20	section 5.3
Fri Aug 26	section 1.2	Fri Oct 21	section 5.4
Mon Aug 29	section 1.3	Mon Oct 24	section 5.4
Tue Aug 30	section 1.4	Tue Oct 25	section 5.5
Thu Sep 1	section 1.4	Thu Oct 27	section 6.1
Fri Sep 2	section 2.1	Fri Oct 28	no classes
Mon Sep 5	no classes	Mon Oct 31	section 6.2
Tue Sep 6	section 2.2	Tue Nov 1	section 6.2
Thu Sep 8	section 2.2	Thu Nov 3	section 6.3
Fri Sep 9	section 2.3	Fri Nov 4	section 6.4
Mon Sep 12	section 2.4	Mon Nov 7	section 7.1
Tue Sep 13	section 3.1	Tue Nov 8	section 7.1
Thu Sep 15	section 3.1	Thu Nov 10	section 7.2
Fri Sep 16	section 3.2	Fri Nov 11	section 7.3
Mon Sep 19	section 3.2	Mon Nov 14	section 7.4
Tue Sep 20	Exam 1	Tue Nov 15	section 7.4
Thu Sep 22	section 3.3	Thu Nov 17	section 7.5
Fri Sep 23	section 3.3	Fri Nov 18	section 7.5
Mon Sep 26	section 3.4	Mon Nov 21	Exam 3
Tue Sep 27	section 4.1	Tue Nov 22	section 8.1
Thu Sep 29	section 4.2	Thu Nov 24	no classes
Fri Sep 30	section 4.3	Fri Nov 25	no classes
Mon Oct 3	section 4.3	Mon Nov 28	section 8.2
Tue Oct 4	section 4.4	Tue Nov 29	section 8.2
Thu Oct 6	section 4.4	Thu Dec 1	section 8.3
Fri Oct 7	section A.4	Fri Dec 2	section 8.3
Mon Oct 10	section A.4		
Tue Oct 11	section 5.1	Tue Dec 6	Exam 4
Thu Oct 13	section 5.1		10:15 – 12:15
Fri Oct 14	section 5.2		