Math 232, Discrete Mathematics II, Winter 2011

Class Time:	MTuWF 12-12:50p.m. in 105 Peterson
Instructor:	Dr. Marcin Bownik
E-Mail:	mbownik@uoregon.edu
Homepage:	http://www.uoregon.edu/~mbownik
Office:	141 Campbell
Office Phone:	346-5622
Office Hours:	11-12p.m. Monday and Friday, 1-2p.m. Wed., or by appointment
Textbook:	*Discrete and Combinatorial Mathematics,* by Ralph P. Grimaldi, 5th ed., Pearson

1. **Background and Goals.** This course, which is the second of three in the sequence, introduces students to the subject of discrete mathematics. Topics include:
   (a) relations and functions (Cartesian products, properties of functions, the pigeonhole principle, directed graphs, partial orders, equivalence relations and partitions),
   (b) languages and finite set machines,
   (c) the principle of inclusion-exclusion and its applications,
   (d) generating functions and recurrence relations.
   The course, which is the second in the sequence, covers most of the chapters 5–8 of Grimaldi and selected topics from chapters 9–10.

2. **Exams.** There will be a midterm in-class exams on Wed. 2/9, and a final exam on Fri. 3/18, 10:15a.m.–12:15p.m.

3. **Discussion and Quizzes.** In addition to weekly lectures, there is a discussion class on Tuesday. Quizzes are given weekly in the last 15 minutes of Tuesday class.

4. **Homework.** Homework problems will be assigned each week and be due in on the following Wednesday. No late homework will be accepted.

5. **Grading.** The grading distribution will be as follows:

Homework:	20%
Quizzes:	20%
Midterm Exam:	20%
Final Exam:	40%