COURSE INFORMATION
MATH 1281 – Winter Semester 2002

The main themes of this course are mathematical reasoning, algorithmic thinking, and combinatorial analysis, that is, how to solve counting problems. During the second semester, we will continue looking at some of these topics.

Time	Class: Mon.,Wed.,Fri. 2:30-3:30
	Lab: Mon. 3:30 - 4:30
Place	Class: Regional Centre 0005
	Lab: Braun Building 1021
Instructor	Adam Van Tuyl
	Office: RB 2015
	Office Hours: TBA
Text	*Discrete Mathematics and Its Applications* (4th Edition) by K. Rosen
Email	`avantuyl@sleet.lakeheadu.ca`
Web Page	http://flash.lakeheadu.ca/∼avantuyl/math1281.html

Contact Information. The best way to get a hold of me is via email. Also, check out the web page periodically. I will update it with relevant information as time goes on.

Outline. Math 1281 is a year long course. During the winter semester we will cover the following sections of Rosen's book:

> Counting – Chapter 4.6.
> Advanced Counting Techniques – Chapter 5.1,5.2,5.5,5.6
> Relations – Chapter 6.2,6.3,6.5,6.6
> Graphs – Chapter 7.1-7.5
> Trees – Chapter 8.1-8.2
> Boolean Algebra – Chapter 9.1-9.3

Marking Scheme. The marking scheme was described in the initial handout. We recall the values:

1. **Homework (30%)** There will be 9 homework assignments given out each semester. The homework assignment with the lowest grade will not be counted.
2. **Tests (2 Midterms, 10% each)** There will be two midterms. The dates of the midterms will be October 26, 2001 - Midterm 1, and March 1, 2002 - Midterm 2
3. **Exams (Mid-year exam 15%, Final Exam 35%)** The final exam in April will be cumulative. The exact dates will be given later.

Important Dates.

> Jan. 7, 2002 - Second semester begins
> Feb. 18-22, 2002 - Reading Week (No classes)
> March 1, 2002 - Midterm 2
> April 1, 2002 - Second semester ends.

Note. Class will be canceled on Jan. 7 and Jan. 9 of the winter semester. We will meet for the first time during the winter semester on Friday, Jan. 11, 2002. Before we meet, please read Section 4.6 and due Exercises 1,2,3,4,5,6 of Section 4.6 on page 294.