Ryerson Polytechnic University
Department of Mathematics

Course Management Form

MTH 110   **<u>Discrete Mathematics I</u>**   **Fall 09**

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Office Hours: TBA or by appointment.

Teaching modes: 3 hrs. Lectures / 1 hr. Lab per week.

Textbook: *Discrete Mathematics* 3rd Edition, by S. Epp, Thompson publishing.

Software: Students will be expected to have access to a Java enabled browser to access the course web pages and run Tilomino.

Course Website: http://www.scs.ryerson.ca/~mth110

The web pages associated with this course contain some vital information: Homework exercises, Lab problems, Assignments and more. The contents may be updated from time to time, and so you should be checking it regularly.

It will be assumed throughout the course that students are familiar with the contents of the home page.

Evaluation:	Description	Weight	Due Date (Tentative)
	Labs	15%	Weekly
	Midterm	30%	Friday October 30, 4:10 - 6:00 pm
	Assignment 1	10%	Friday October 30, Midterm Test
	Assignment 2	10%	Friday November 19, In Class
	Final Exam	35%	Exam Period

Additional requirement: Students must get a pass (50%) on the final exam in order to pass the course. Students must get a pass on the aggregate grade of the midterm and final exam in order to pass the course. i.e. To pass the course, students must get at least 32.5 out of the possible 65 course marks that can be collected from the midterm and final exam.

Labs: The 11 labs in the course are worth 15% in total, broken down as follows:

Description	Weight	Date
Attendance	5%	$\frac{1}{2}$ Mark / Week (Max. 5)
Oral Presentations	10%	When called. 3 times in term.

See the web page under "General Lab Information" for more information about the labs.

Missed Labs and Tests: Students who cannot be present for a test or exam because of illness must contact their instructor or the department by phone or in person on or before their first day back at school. They must also submit a printout of the Ryerson Student Medical Certificate filled out by their doctor.

Besides illness, only very serious reasons, properly documented, can be considered as valid excuses for missing a test or exam. If documentation is not received the test or exam mark will be **zero.**

Late Assignments: A late penalty of -3^n marks (out of 100) will be removed, where n is the number of school days (Monday to Friday) an assignment is late by.

Notes:
Generally the use of email for material relating to the course is discouraged. The reason for this is that discussing mathematics by (text based) email quickly becomes extremely arduous. A five minute conversation is quickly transformed into hours of painstaking explanations. On the other hand for simple questions relating to course management etc. email may be appropriate.

Student grades for this course may be posted (on the web or otherwise) by student number with the first two digits removed, as per academic council policy 145 section 2.2f. Students who do not wish to have their grades posted in this manner must inform the instructor in writing. Students will receive their final course grades only from the Registrar, final course grades may not be posted or disclosed anywhere by an instructor.

Students are reminded that they are required to adhere to all relevant University policies, such as the Student Code of Academic Conduct.

Learning Objectives It is expected that students who successfully complete this course will have a basic understanding of the fundamentals of logic and discrete mathematics, and the ability to structure a proof or argument and to apply mathematical methods to solve programming problems. Students will also get an opportunity to improve their oral presentation skills during the labs, where they will all be required to make oral presentations.

Calendar Description: This course covers the fundamentals of discrete mathematics with a focus on proof methods. Topics include set theory, notation for modern algebra, propositional and predicate logic from a semantic point of view, proof methods, functions and relations. Prerequisite: None