

RYERSON POLYTECHNIC UNIVERSITY  
DEPARTMENT OF MATHEMATICS

COURSE MANAGEMENT FORM

MTH 210

Discrete Mathematics II

Winter 10

**Instructor:** Peter Danziger  
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Phone: Ext. 7413

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

There will be no labs in the first week of term.

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

**Course Website:** <http://www.scs.ryerson.ca/~mth210>

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 course web pages.**

<b>Evaluation:</b>	<b>Description</b>	<b>Weight</b>	<b>Due Date</b>
	Labs	20%	Weekly
	Midterm	30%	Thursday Feb. 26, 4 - 6 (Tentative)
	Assignment	10%	Friday March 30
	Final Exam	40%	Exam Period

Additional requirement: 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 35 out of the possible 70 course marks that can be collected from the midterm and final exam.

**Labs:** There are 11 marked labs in the course a worth 20% in total. Each week a set of homework problems will be posted on the course website. You should attempt these problems and hand them in at the next lab. In each Lab there will also be a short quiz based on the homework problems for that Lab. During the lab hour the TA will present a selected set of questions.

Each week either the quiz or the homework will be marked. If the homework is marked, the mark will be out of 4, 2 marks will be awarded for a particular question (chosen by the instructor) and 2 marks for the completeness of the homework (number of questions with a reasonable attempt). The lowest quiz/homework mark will be dropped.

**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.

Students who are absent for one of the quizzes will get a grade of 0 for that quiz unless the absence was for a medical reason. In such cases, please return a copy of the Ryerson Student Medical Certificate filled out by your doctor and you will get a make-up quiz.

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

**Late Assignments** When late assignments are accepted (i.e. the late penalty is not -100%), 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 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** Students will complete their acquisition of fundamental discrete mathematics concepts begun in Discrete Mathematics I.

**Calendar Description:** This course is a continuation of Discrete Mathematics I. Topics covered include: recursion, induction, regular expressions and finite state automata, efficiency of algorithms, graph theory, introduction to number theory and counting. Prerequisite: MTH 110