

**DEPARTMENT OF MATHEMATICS**  
**MATH1010 APPLIED FINITE MATHEMATICS**  
**May – June 2014**

**Instructor:** D. Trim, 410A Machray Hall, 474-8760, e-mail: Donald.Trim@ad.umanitoba.ca

**Lectures:** 201 Armes , 7:00–9:45 Monday and Wednesday

**Tutorials:** B01 – 415 Machray Hall, Tuesday 7:00–8:30

B02 – 415 Machray Hall, Tuesday 7:00–8:30

**Office Hours:** MTWR 6:00–7:00

**Textbook:** Course notes (mandatory) and solutions manual (optional) are available from the bookstore.

**Course Outline:** Topics covered are:

Linear Equations and Inequalities

Linear Programming

Matrices and Systems of Linear Equations

Graph Theory

Simple and Compound Interest, Annuities, and Mortgages

Specific information about which sections/topics in the notes are required reading will be given in lectures.

**Course Web Page:** <http://home.cc.umanitoba.ca/~dtrim/>

**Web Page for Old Tests and Exams:** [www.math.umanitoba.ca/undergrad\\_info/courses.php](http://www.math.umanitoba.ca/undergrad_info/courses.php)

**Student Evaluation:**

Four assignments each worth 5% of the final grade.

Two tests, each worth 15% of the final grade, will be conducted in the tutorials on May 21 and June 11.

A two hour examination from 6:00 to 8:00 on June 20 will count for the remaining 50% of the final grade.

**Calculators, with single-line displays only, will be allowed in tests and final examination.**

Notes:

(1) If you miss a test, you will be assigned a mark of “zero” unless reasons and acceptable supporting evidence are provided. Make-up tests will not be scheduled for missing tests.

(2) Students are advised to familiarize themselves with the General Academic Regulations of the University contained in the Undergraduate calendar as regards academic dishonesty. Infractions are treated very seriously by the Department of Mathematics and the Faculty of Science. Submitting another person’s work as your own, copying from another person at an exam, or bringing unauthorized information into a test or examination is a serious offense. For further information, refer to the University Student Discipline By-Law, available from the Senate Secretariat Office. In addition, see the reverse side of this page.

(3) With each assignment, you must submit an Honesty Declaration. This document can be downloaded from the web site for the course. Your assignment will not be marked unless accompanied by the declaration. The declaration states that your submissions are composed and written by you alone. I have no problem with collaboration on solving problems, but write-ups must be original. Copying will be dealt with severely. In addition, you are expected to solve all problems, not to look for solutions on the web or any other source. It is easy for an experienced marker, and myself, to decide whether a solution to a problem is yours or whether it has been plagiarized from other sources.

(4) Voluntary Withdrawal Deadline is May 22, 2014.

The Department of Mathematics, the Faculty of Science and the University of Manitoba regard acts of academic dishonesty in quizzes, tests, examinations or assignments as serious offenses and may assess a variety of penalties depending on the nature of the offense. Acts of academic dishonesty include bringing unauthorized materials into a test or exam, copying from another student, plagiarism and examination personation. Students are advised to read sections of the "General Academic Regulations and Requirements" of the current Undergraduate Calendar that refer to Academic Integrity and Examinations: Personations. Note, in particular that cell phones and pagers are explicitly listed as unauthorized materials, and hence may not be present during tests or examinations. Penalties for violation include being assigned a grade of zero on a test or assignment, being assigned a grade of "F" in a course, compulsory withdrawal from a course or program, suspension from a course/program/faculty or even expulsion from the University. For specific details about the nature of penalties that may be assessed upon conviction of an act of academic dishonesty, students are referred to University Policy 1202 (Student Discipline Bylaw) and to the Department of Mathematics policy concerning minimum penalties for acts of academic dishonesty. The Student Discipline Bylaw is printed in its entirety in the Student Guide, and is also available on-line or through the Office of the University Secretary. Minimum penalties assessed by the Department of Mathematics for acts of academic dishonesty are available on the Department of Mathematics web-page. All Faculty members (and their teaching assistants) have been instructed to be vigilant and report incidents of academic dishonesty to the Head of the Department.