## McGill University. Department of Mathematics and Statistics COURSE OUTLINE: MATH 133 - Linear Algebra and Geometry

Course Webpage: http://www.math.mcgill.ca/kelome/m133fa10.html Instructors: Section 001 A. Clay; section 002 S. Shahabi; section 003 A. Kelome; section 004 W. Anderson ; section 005 J. Loveys.

**Textbook:** "Elementary Linear Algebra, Second Edition", by W. K. Nicholson, ISBN: 0-07-091142-8, McGraw-Hill, 2004 (paperback)

## Topics to be covered:

Vector Geometry, Systems of Linear Equations, Reduced Echelon Form, Matrix Algebra, Subspaces of  $\mathbb{R}^n$ , Linear Transformations, Determinants, Eigenvalues, Eigenvectors and Diagonalization.

**Webwork:** There will be about **eight** WebWork assignments. For more information about the webwork assignment please visit the course webpage.

Written assignments: There will at least two and no more than four written assignments. They will be posted on the course webpage. The due date for each assignment will be clearly specified and strictly enforced. Failure to submit an assignment by the specified due date will result in a mark of zero for that assignment.

**Midterm:** There will be an **optional** midterm examination. Details about the administration of the midterm will be announced in class and posted on the website.

Mark scheme: The final grade for the course is a letter grade based on the formula

 $Max\{0.10 * a + 0.05 * w + 0.85 * f, 0.10 * a + 0.05 * w + 0.10 * m + 0.75 * f\}$ 

where a, w, m and f are percentage marks for the written assignments, we bwork , midterm and final examination respectively. Note that there is no 100% final option in this course.

## Right to submit in English or French written work that is to be graded

In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded. In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.

Academic integrity: McGill University values academic integrity. Therefore all students must understand the meaning and consequences of cheating, plagiarism and other academic offenses under the code of student conduct and disciplinary procedures (see www.mcgill.ca/integrity for more information).

L'université McGill attache une haute importance a l'honneteté academique. Il imcombe par consequent à tous les étudiants de comprendre ce que l'on entend par tricherie, plagiat et autres infractions academiques, ainsi que les consequences que peuvent avoir de telles actions selon le code de conduite de l'étudiant et des procedures disciplinaires (pour de plus amples renseignements, veuillez consulter le site http://www.mcgill.ca/integrity)

**Assignment Plagiarism**: Assignments must be done individually. You may not copy another person's work. Furthermore, you must not give a copy of your work to another student.

**Supplemental work**: No additional work will be given in order to upgrade a final mark. Students with final grade of D or F have the right to apply to take a supplemental exam.

**Calculators and Machine Scoring**: No Calculators will be allowed during the final examination. Note also that the exam may be part multiple choice and machine scored.

September 2010.