MAT 1302 E **OUTLINE** **FALL 2011**

Professor : Catalin Rada

catalin.rada@alumni.uottawa.ca

Room B07-B 585 King Edward ave

Office Hours: MON 13:00 – 14:30 KED B07-B

Lecture Times :

Tue/Mar 17:30 – 19:00 STE H0104 Thu/Jeu 17:30 – 19:00 STE H0104

DGD Times :

DGD 1: Tue/Mar 16:00 – 17:30 TBT 333

DGD 2: Thu/Jeu 16:00 – 17:30 VNR 3035

Official Course Description Solution of systems of linear equations. Matrix algebra. Determinants. Complex numbers, fundamental theorem of algebra. Eigenvalues and eigenvectors of real matrices. Introduction to vector spaces, linear independence, bases. Applications.

Prerequisites One of Ontario 4U Mathematics of Data Management (MDM 4U), Ontario 4U Advanced Functions (MHF4U), MAT1318, MAT1339 or an equivalent. This course is intended primarily for students in the School of Management and the Faculty of Social Sciences. This course cannot be combined for credit with MAT1341.

Course Text David C. Lay, Linear Algebra and its Applications, Fourth Edition, Pearson/Addison-Wesley, 2012.

The textbook can be purchased at the University of Ottawa Bookstore or The Agora. Note that the course will be based on the 4th edition of the textbook, but the difference between the 3rd and the 4th editions is minor. Therefore the 3rd edition can also be used without any problem. Note that there are several packages for this text – with study guide, without (hard copy of the) study guide, etc. In class and in the DGDs, we will only explicitly refer to the textbook itself. The choice of whether or not the study guide is desired is up to each student. It contains extra explanations and detailed solutions of many of the exercises in the text. Therefore it could be a useful companion to the text. The CD that comes with the text contains an electronic version of the study guide. So a student need only decide whether or not (s)he wants a hard copy. The text has also been placed on 4 hour reserve at Morisset Library.

Calculators:

The midterm and final exams are closed-book exams. You are not allowed to bring and use formula sheets. Calculators are not allowed.

Your Final Grade

You must obtain a grade of at least 50% on the final exam in order to pass the course. If your grade on the final exam is at least 50%, then your final grade will be calculated as follows:

Assignments: 10% Midterms: 40% Final Exam: 50%

Your lowest assignment or midterm grade will be replaced by your score on the final exam if this is to your advantage. Note that this rule only applies when the assignment or the midterm has not been missed. There will be two midterm exams, scheduled during the usual class time, on October 11 and November 22. Each midterm has a weight of 20%. There will be a total of four assignments. Each assignment has a weight of 2.5%. The assignments will be posted on Virtual Campus and/or Virtual campus. Late assignments are not accepted. Assignments, their solutions, midterm solutions, and your grades will be posted on Virtual Campus and/or webpage. Midterm exams cannot be rescheduled. In the event of a justified absence (e.g., providing a doctor's note) the weight of the missed midterm will be transferred to the final exam. You must provide appropriate documentation as soon as possible. If you do not provide proper justification in a timely manner, you will receive a zero grade.

What is the Math Help Centre?

Along with the professor's office hours, the Math Help Centre is an excellent resource to receive help regarding course material and practice exercises. It is located in Marion 021. From September 12 until December 2, except during the study week, the hours of operation of the Math Help Centre are:

MondayWednesday: 10:00–19:00

Thursday: 10:00 –17:00

Friday: 10:00 –15:00

During the study week (October 2428) the Math Help Centre will be open on Wednesday, Thursday, and Friday from 10:00 a.m. until 3:00 p.m. It will be closed on Monday October 24 and Tuesday October 25. The schedule of the Math Help Centre during the exam period (December 522) will be announced later.