

MAT 1341 Introduction to Linear Algebra Summer 2010

Schedule:

Lecture:	Monday	17:00-19:00	STE B0138
Lecture:	Wednesday	17:00-19:00	STE B0138
DGD:	Monday	19:00-20:30	STE B0138
Midterm Exam	June 15	17:00-19:00	STE B0138
Final Exam:	July 18	18:00-21:00	MNT 202

Contact:

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Content: The official course description:

Review of complex numbers. The fundamental theorem of algebra. Review of vector and scalar products, projections. Introduction to vector spaces, linear independence, bases; function spaces. Solution of systems of linear equations, matrix algebra, determinants, eigenvalues and eigenvectors. Gram Schmidt, orthogonal projections. Linear transformations, kernel and image, their standard matrices. Applications (geometry, networks, differential equations).

We will go through all of it in approximately that order.

Prerequisites: MAT1339 or MAT1340 or Ontario 4U Calculus and Vectors (MCV4U), or equivalent. This course cannot be combined for credit with MAT1302.

Textbook: *Elementary Linear Algebra*, by W. Keith Nicholson, the second edition. It was used last year, should be some used copies around. We will not be following the chapter order. We will also, primarily, be using it for example questions and/or for a different point of view on the subject matter. The book is recommended but not necessarily mandatory.

Evaluation: There will be (approximately) weekly assignments, due on Wednesdays at the beginning of class and will not be accepted late. All seven (give or take), taken together, are worth 15%. The in-class midterm exam, dated June 15th, is worth 25 %. The final is on July 18. If you pass the final, it is worth 60%. If you fail the final, it is worth 100% and you fail the course.

Resources

All course material will be covered in the lectures. Detailed examples will be discussed in the DGD, which is scheduled right after classes on Monday.

The Math Help Center, Marion Hall, room 021, covers this course.

It runs from

May 9 to July 22, Monday-Thursday, 10:00 to 15:00.

Unfortunately, it is closed Fridays and over the Study break, June 6-10.

You could also ask me:

Office Hours, subject to change so check the website:

Monday, 10:00 to 11:30. Tuesday, 13:00 to 14:30.

The Class Website. Suggested exercises from the text, and possibly some original ones, will be posted after sections are completed. The assignments (and solutions) will also be posted there, along with the updated version of this file. Find it on Virtual Campus.

Course Regulations

ID: Bring your student ID with you to the midterm and final exams, failure to do so can easily result in your not being allowed to write.

Plagiarism: All work that you submit must be your own. Plagiarism will not be tolerated, and university policies will be strictly enforced. This is a serious matter, and consequences can be as severe as expulsion from the university.

Noise: Unless you are asking a question, which is generally encouraged, keep quiet. You (or your parents) are paying good money for you to attend courses here, so pay attention or, at the very least, let others pay attention. Keep your cellphones off.