MATHEMATICS 2P13 (Winter 2018)
ADVANCED LINEAR ALGEBRA(III)

Professor:	Dr. Yuanlin Li Room MC J422 Email: yli@brocku.ca Home Page: http://spartan.ac.brocku.ca/ $\sim$ yli/2P13/2p13w18.html
Lectures:	TR: 12:30 - 14:00 am (MCJ404)
Tutorials:	Tuesday: 3:00 - 4:00 pm (MCJ404)(start from second week)
Office Hours:	Tuesday and Thursday: 11:00 -11:50 am or by appointment
Textbook:	*Linear Algebra*, 4th edition, by Friedberg, S. H. Insel, A.J. and Spence, L.E. Pearson Education, Ltd., New Jersey, 2003
Prerequisite:	MATH 2P12

Marking Scheme:

Four Assignment: 30%
Midterm exam: 30%
Final exam: 40%

Course Content: This course covers the following topics:

General vector spaces; linear transformations; determinants; diagonalization; inner product spaces; canonical forms.
(§ 1.2 - 1.6. § 2.1 - 2.5. § 3.1. § 4.1 - 4.4. § 5.1, 5.2, 5.4. § 6.1 – 6.6. §7.1 - 7.3).

Exams and Assignments:

Exam	Date	Mark
Midterm	Thursday, March 8	30%
Final	TBA	40%

HW #	Due Date	Mark
1	Friday, Jan. 26	7.5%
2	Friday, Feb. 16	7.5%
3	Friday, Mar. 16	7.5%
4	Monday, Apr. 9	7.5%

Notes:

(1) The Midterm exam will be of 60 minutes duration and held during the regular lecture time in our classroom. The final exam will be of 3 hours duration. **No make up midterm will be arranged.** If a student misses the midterm exam for a very good reason (proof required), the weight will be added to the final exam. To provide a medical certificate, a student should go to "http://www.brocku.ca/webfm send/1423", download a copy of the medical form and fill out it properly.

(2) To pass the course both a passing mark and a score of at least 30 % on the final are required.

(3) The assignments are due in the box outside Room J434 at 4 pm on the due dates. **No Late assignments will be accepted**. The solution to each assignment will be placed on reserve in the library after the due date. Please attach a cover page to your homework. This should bear (at the top) **course name and number, your name, student number, and assignment number**. A sample cover page is posted on the course web page.

(4) **On Plagiarism:** You may discuss the assignment problems (**but not the solutions**) with other students. However, **your final submitted work must be your own.** Any evidence of copying will result in a mark of 0.

(5) **Withdrawal Date:** Friday, March 9, 2018 is the **last date** for withdrawal from the course **without academic penalty.**

(6) **Reading Week – No Classes:** Feb. 19–23.