

MATHEMATICS 2P12 (Fall 2018)

LINEAR ALGEBRA II

Professor: Dr. Yuanlin Li
Room MC J422
Email: yli@brocku.ca
Home Page: <http://spartan.ac.brocku.ca/~yli/2P12/2p12f18.html>

Lectures: MW: 10:00 - 11:30 am (WH324)

Tutorials: Thursday: 9:00-10:00am (MCH 313) and Friday: 10:00-11:00am (MCH 313) (starting from the second week)

Office Hours: MW: 2:00 - 2:50 pm or by appointment

Textbook: *Elementary Linear Algebra Applications Version*, 11th edition, by Anton, H. and Dorres, C. John Wiley and Sons, Inc., Toronto, 2014

Prerequisite: MATH 1P11 or Math 1P12

Marking Scheme:

Four Assignments:	30%
Midterm exam:	25%
Final exam:	45%

Course Content: This course covers the following topics:

Finite dimensional real vector spaces and inner product spaces; matrix and linear transformations; eigenvalues and eigenvectors; the characteristic equation and roots of polynomials; diagonalization; complex vector spaces and inner product spaces; selected applications.
(§ 4.1 - 4.10. § 5.1 - 5.3. § 6.1 - 6.3. § 8.1 - 8.5.).

Exams and Assignments:

Exam	Date	Mark
Midterm	Wednesday, Oct. 24	25%
Final	TBA	45%

ASGN #	Due Date	Mark
1	Friday, Sep. 28	7.5%
2	Friday, Oct. 19	7.5%
3	Friday, Nov. 9	7.5%
4	Friday, Nov. 30	7.5%

Notes:

(1) The Midterm exam will be 60 minutes long and held during the regular lecture time in your 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 assignment. This should bear (at the top) **your name, student number, course number and assignment number.** A sample assignment cover page can be found in the **Course Home Page.**

(4) **Plagiarism:** You may discuss the problems with other students; however, **the final submitted work must be your own.** Any evidence of copying will result in a mark of 0.

(5) **Fall Reading Week:** Oct 9-12 (no classes).

(6) **Withdrawal Date:** November 6, 2018 is the **last date** for withdrawal from the course **without academic penalty.**