

Math 2120B: Intermediate Linear Algebra (Winter 2018)

Essential information

- **Lectures:** MWF 12:30-1:30, AHB-1B02
 - **Office hours:** W 2-3:30, MC-116 (by Chris) and F 2:30-3:30, MC-104 (by Gerardo/Mohabat)
 - **Instructor:** [Chris Kapulkin](#)
 - **Email:** kkapulki (at) uwo.ca
 - **Office:** MC 116
 - **Teaching assistants:** Gerardo Palafox Castillo and Mohabat Tarkeshian
 - **Website:** <http://uwo.ca/math/faculty/kapulkin/courses/2018-2120B>
 - **Prerequisites:** Mathematics 1600A/B.
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Textbook

The course will follow:

- Friedberg, Insel, Spence, *Linear Algebra*, Edition 4 (publisher: Prentice Hall).

Course content

The topics will include:

- abstract vector spaces and linear transformations
- determinants
- diagonalization and characteristic polynomial
- eigenvalues and eigenvectors

Evaluation

The final grades will be based on the following components:

- weekly quizzes: 25%
- midterm: 25%
- final: 50%

Midterm exam

- Date: March 2, 2018
 - Time: 7-9 PM
 - Room (depending on the last name): SH 2355: A-L, SH 2317: M-Z

Final exam

- Date: April 28, 2018
- Time: 7-10 PM
- Room: UCC 146

Recommended homework problems

Section	Recommended exercises
1.2	1, 7, 8, 10, 11, 13, 14, 15, 18, 21
1.3	1, 3, 10, 11, 13, 14, 19, 21, 23, 24
1.4	1, 3, 6, 7, 8, 10, 11, 12, 13
1.5	1, 3, 4, 5, 8, 9, 10, 14, 19, 20
1.6	1, 9, 11, 15, 20, 21, 23, 26, 28
2.1	1, 6, 9, 12, 13, 14, 17, 18, 19, 25, 28, 34
2.2	1, 2, 8, 9, 10, 12, 13
2.3	1, 3, 9, 11, 12, 13, 16, 17
2.4	1, 2, 3, 4, 5, 6, 10, 15, , 17, 20
2.5	1, 8, 9, 10
2.6*	1, 3, 9, 11, 13
3.1	1, 3, 5, 7, 8
3.2	1, 3, 7, 8, 14, 21, 22
3.3	1, 4, 6, 9
3.4	1, 10, 11
4.1	1, 5, 6, 7, 8, 9, 11*
4.2	1, 5, 6, 23, 25, 26, 27, 28, 29
4.3	1, 9, 10, 11, 12, 14, 15, 16, 17, 19, 21
4.4	1, 3
4.5	1, 13, 19
5.1	1, 3ab, 5, 7, 8, 9, 12, 14, 15, 16, 17
5.2	1, 2ab, 4, 5, 7, 8, 10, 11, 13

Accommodation and Accesibility

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or supporting documentation to the Academic Counselling Office of your home faculty as soon as possible. If you are a Science student, the Academic Counselling Office of the Faculty of Science is located in WSC 140, and can be contacted at scibmsac@uwo.ca.

For further information, please consult the university's medical illness policy at

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf.

If a *quiz* or an *exam* is missed and sufficient documentation is provided, a make-up exam will be offered. In each case, the permission to do so must be granted by the student's Dean's Office/Academic Counselling. Failure to follow these rules may result in a grade of zero.

If you miss the Midterm or Final Exam, please contact your faculty's Academic Counselling Office as soon as you are able to do so. They will assess your eligibility to write the Special Exam (the name given by the university to a makeup Final Exam). You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation"

http://www.registrar.uwo.ca/examinations/exam_schedule.html

Academic Policies

The website for Registrarial Services is <http://www.registrar.uwo.ca>.

In accordance with policy, <http://www.uwo.ca/its/identity/activatenonstudent.html>, the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at this website:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.

Support Services

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 ext. 82147 if you have questions regarding accommodation. The policy on Accommodation for Students with Disabilities can be found here:

www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_disabilities.pdf.

The policy on Accommodation for Religious Holidays can be found here:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_religious.pdf.

Students who are in emotional/mental distress should refer to Mental Health@Western (http://www.health.uwo.ca/mental_health) for a complete list of options about how to obtain help.