MATH 34600L (33201)   **Elements of Linear Algebra**

Spring, 2026   Tuesday, Thursday 9:30 am– 10:45 am NAC 6/121

Book: W. Keith Nicholson, *Linear algebra with Applications (Open edition),* Lyryx A free pdf is obtainable from the publisher at the following link:

https://collection.bccampus.ca/textbooks/linear-algebra-with-applications-2023-a-d-vretta-lyryx-inc-446/

You can also order a (large) paperback copy of the book from this site.

However this newer, 2023, version does not include the exercises. So we will use the 2018 download. It is harder to find online and so I have posted the pdf on my personal website:

profakin.webflow.io

Notice this is a personal site. It is not part of the Math Dept website.
(To download a pdf using a PC, click on the link->right click to "save link as"->save. Just clicking on the original link should open the pdf. On a phone you should also be able to download.)

Syllabus:
Chapter 2, Matrices: 2.1-2.6
Chapter 1, Systems of Linear Equations: 1.1-1.3
Chapter 3, Determinants: 3.1, 3.2, 3.6
Chapter 6, Vector Spaces: 6.1-6.4
Chapter 7, Linear Transformations: 7.1-7.3
Chapter 9, Matrix of Linear Transformation, Diagonalization: 9.1, 3.3, 3.5
Chapter 8, Orthogonality and Symmetric Matrices: 8.1, 5.6, 8.2

The classes will use slides that I have prepared. These slides will be posted on the above website.

Also posted there will be this class information document and the syllabus with the list of homework problems from the book.   I will be collecting homework and recording its submission.

It is a good idea to work with others, collaborating on studying, doing homework and preparing for tests. On the internet you will find treatments of linear algebra that you may find to be helpful, e.g. the Kahn Academy. Of course, such collaboration and internet browsing during a test would be cheating. I hope that you will engage with the course in an honorable fashion.

Grading: There will be three in-class tests during the term. The term average, which will count for 55% of the grade, will be computed from these with an adjustment of 5% for the cumulative homework grade. The final exam will count the remaining 40% of the grade. You should be warned that there are no makeups. If you have missed work with a legitimate reason, the remaining work will simply be counted more heavily.

Office Hours: Tuesdays, 11:00am – 1:00pm, Thursdays 11:00am – 12:00.

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