Linear Algebra II Math 232 Revised Syllabus

Spring 2020

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Beginning on March 19, 2020 Math 232 will be an online course. Students will need to sign up in Google Classroom to access lectures, homework, exams, and office hours.

Google Classroom Instructions

1. Go to classroom.google.com and **sign in using your Queens College email account** --- that's the CAMS account that ends in @qc.cuny.edu.
2. Click on the plus sign "+" in the upper right hand corner.
3. Select "Join a class"
4. Enter the class code: **dihorr7**

Students who do not have an @qc.cuny.edu email address will need to sign up for one at https://cams.qc.cuny.edu/. See How to activate your qc username and password.

Materials from the first part of the course are available in the Class Drive Folder inside the Linear Algebra II Google Classroom. Go to Classwork → Class Drive Folder and you'll see folders containing problems and solutions from Chapters 1, 2, and 3 as well as folders containing the first two exams and solutions.

You'll also see that I posted a quiz, due at 5:00 on Monday, March 23.

Textbook

The textbook for Math 232 is Linear Algebra Done Right , Third Edition, by Sheldon Axler. There are short Done Right Videos that accompany the textbook.

Exams

Course grades will be determined by four midterm exams, one final exam, and work on homework and quizzes

- Midterm 1 (18%): Monday, Februrary 10
- Midterm 2 (18%): Wednesday, March 4
- Midterm 3 (18%): **TBD**
- Midterm 4 (18%): Wednesday, May 6
- Final Exam (18%): **TBD** (Exam week 5/16 -- 5/22)
- Homework and quizzes (10%)

Assignments

Homework will be assigned regularly and posted on the Google Classroom Page.

Office Hours

I plan to hold office hours live online using Google Meet. Right now, I'm planning to do this during my regularly scheduled office hours from 12:00 - 1:00 pm on Mondays and Wednesday, beginning on **Wednesday, March 25**.

About the course

Linear algebra is used in almost all areas of mathematics and is important in many scientific fields, including data science, physics, chemistry, biology, engineering, and computer science. For certain fields of study, such as Deep Learning and Quantum Computing, linear algebra is indispensable.

Topics that will be covered include

- Vector spaces and linear maps
- Invariant subspaces and canonical forms
- Inner product spaces and the spectral theorem
- Singular value decompositions