

# Syllabus – Math 2B: Linear algebra

**\*\*Instructor:\*\*** Dr. Yashar Zaheriani

**\*\*Email:\*\*** zaherianiyashar@fhda.edu

**\*\*Office Hours:\*\*** Thursdays, 8:00 – 9:00 AM (via Zoom) – or by appointment

**\*\*Class Schedule:\*\*** Monday/Wednesday , 18:30 – 20:45 pm

**\*\*Textbook:\*\*** A First Course in Linear Algebra by Lyryx

– your textbook for this class is available for free online <https://lyryx.com/first-course-linear-algebra/>

– You will need a scientific calculator, and occasionally a matrix calculator, for this class.

## Pre-requisites

Mathematics 1D or equivalent (with a grade of C or better); or a satisfactory score on the College Level Math Placement Test within the last calendar year.

## Course Description

- Solve and analyze systems of linear equations using matrices and matrix theory.
- Investigate special matrices and matrix operations including powers and factorization.
- Develop understanding and use of n-dimensional vectors and vector operations.
- Define and investigate vector spaces and vector sub-spaces and find their bases and dimensions.
- Establish understanding of linear transformations and their geometry and find their matrix representation.

## Attendance and participation

Attendance is expected at all sessions. Students are responsible for catching up on missed material. Participation is essential, both in class and through group collaboration.

## Course Policies

1. No late work accepted under any circumstances
2. No make-up quizzes or exams
3. All submissions must be in PDF format via Canvas
4. Students are responsible for keeping up with class progress and practice
5. Instructor reserves the right to update the syllabus (announcements via Canvas)
6. Grades are not discussed via email (schedule Zoom meetings instead). Class is synchronous; lectures are not recorded
8. Students must arrange study groups and review missed materials themselves
9. All questions are welcome – office hours are for your success
10. Students must keep track of academic calendar dates

## Tips for Success

- Learn concepts, don't just memorize formulas
- Read problems carefully, strategize before solving

- Don't fear mistakes persistence is key
- Spend at least 2 hours of study per lecture hour outside of class

## Academic Integrity

Cheating or plagiarism results in a failing grade and will be reported. Minimum penalty: zero on assignment/exam.

Refer to: <http://www.deanza.edu/studenthandbook/academic-integrity.html>

## Grading

Homework: 20%

Attendance: 5%

Quiz 1: 5%

Quiz 2: 5%

Quiz 3: 5%

Mid.:30%

Final Exam: 30%

## Student Learning Outcome(s):

- Construct and evaluate linear systems/models to solve application problems.
- Solve problems by deciding upon and applying appropriate algorithms/concepts from linear algebra.
- Apply theoretical principles of linear algebra to define properties of linear transformations, matrices and vector spaces.

## Disability Support Services (DSS)

De Anza College supports students with disabilities and provides reasonable accommodations. Contact DSS (RSS Building, Suite 141 | 408-864-8753 | [DSS@deanza.edu](mailto:DSS@deanza.edu)).  
Website: <https://www.deanza.edu/dsps/>

## Additional Student Support

- Student Success Programs: <http://deanza.edu/studentsuccess/>
- Financial Aid Info: <http://www.deanza.edu/inancialaid/>
- Installment Payment Plans: [http://deanza.edu/cashier/installment\\_plan.html](http://deanza.edu/cashier/installment_plan.html)
- Scholarships: <http://deanza.edu/inancialaid/types/scholarships.html>

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**Office Hours:**

Zoom TH 8:30 AM - 9:20 AM