

# Welcome to Math 2B: Linear Algebra Fall 2021

Please read this syllabus in its entirety. I am here to help so message me using the [Canvas InBox \(Links to an external site.\)](#) or post Discussions questions in Canvas if you need assistance. Plan to commit a **minimum of 15 hours per week** to this course – this is a very fast-moving course! Please contact me anytime you have questions, comments or (oops!) find a broken link :-)

## Course format

This is an asynchronous course which is accessible through Canvas (<https://deanza.instructure.com/>) There will be lecture videos to watch, readings in the text, discussions, and homework assignments to complete every week. In addition, most weeks there will be either a project for which you will upload written solutions, or an exam. All assignments have due dates, and no late work will be accepted, so be sure to pay attention to the due dates and times.

I will post announcements regularly with reminders about up-coming assignments. Please read my announcements.

Please be sure to set aside time every day to study for this class, and stay in touch with me - I am here to help you succeed in your quest to learn Linear Algebra this quarter.

## Contact Information

**Instructor:** Dr Lisa Markus (Lisa)

The best way to contact me is via the [InBox in Canvas \(Links to an external site.\)](#) and the [Ask Your Teacher \(Links to an external site.\)](#) in WebAssign. I will reply by the **end of the next school day** (school days are Monday – Friday) at the latest, usually much sooner. Also post questions to the class Discussions in Canvas, and visit me during my Office Hours (see below for days and times).

Email: [markuslisa@fhda.edu](mailto:markuslisa@fhda.edu).

## Required Course Materials

- **TEXTBOOK with WebAssign Homework:** Elementary Linear Algebra, 8th Edition by Ron Larson – the eBook is included with the homework in WebAssign and costs about \$80 through the [Bookstore \(Links to an external site.\)](#). Check out [De Anza College Financial Aid \(Links to an external site.\)](#) to find out if you can get help paying for this - the Bookstore online ordering will allow you to use financial aid vouchers. [Instructions for registering with WebAssign \(Links to an external site.\)](#). **ALWAYS access the homework through the links in Canvas.** Access for the first week is **FREE**.

- **CANVAS:** [deanza.instructure.com](https://deanza.instructure.com) (Free) Used for links to notes, videos, keeping track of your grades, doing homework taking quizzes and exams, and for uploading written work.
- **CALCULATOR:** A TI-84 graphing calculator (or equivalent) is useful throughout the course. You can [rent a TI-84 calculator \(Links to an external site.\)](#) [\(Links to an external site.\)](#). Also, [Desmos \(Links to an external site.\)](#) is free and has many useful functions.
- A way to **submit written work** in Canvas as a single file upload.
- **Some files in the course are pdf.** Download [Acrobat Reader \(Links to an external site.\)](#) [\(Links to an external site.\)](#), if you do not already have it so you can read the pdf files.

From the textbook, we will be covering Chapters 1 - 7, and parts of Chapter 10.

## Office Hours via Zoom or by appointment

Office Hours: Use the links! Each day has a different link.

[Monday 5:30pm - 7:00pm \(Links to an external site.\)](#)

[Tuesday 12:00 - 1:00 pm \(Links to an external site.\)](#)

[Wednesday 8:30am - 9:30am \(Links to an external site.\)](#)

During my Office Hours, you can talk to me live via Zoom.

I have enabled “**Waiting Rooms**” in Zoom office hours so that each student may privately speak to me during office hours. If you see that you are in the waiting room, please wait for me and I will be with you as soon as I am done helping the previous student(s). If my office hour does not work for your schedule, you may request an appointment for a different time to meet with me online via Zoom, OR you may use other options to communicate with me: via the [InBox in Canvas \(Links to an external site.\)](#) or the [Ask Your Teacher \(Links to an external site.\)](#) in WebAssign. My goal is to respond to asynchronous communications within 24 hours during the week, and within 48 hours on weekends.

## Getting Help

There is a [Getting Help with Linear Algebra](#) page - please refer to this!

## Attendance Policy

Attendance is **required** via actively participating in class and online. I will drop any student who has not logged onto the Canvas course and submitted at least one assignment during the first week. If you fail to complete assignments 2 weeks in a row, I **may** drop you from the course, however, students are responsible TO DROP OR WITHDRAW if they so need. It is also the student’s responsibility to check <http://www.deanza.edu/calendar/> [\(Links to an external site.\)](#) [\(Links to an external site.\)](#) for the De Anza College deadlines. The course-specific dates are in MyPortal.

Please be sure to read the [Announcements](#) and check your Inbox in Canvas regularly.

## Strategies for Success

1. Keep up on all work – set aside at least 15 hours per week to work on this course.
2. Ask questions! - Use Discussions, Canvas InBox, Office Hours, Tutoring.
3. Read the textbook in WebAssign and take advantage of the other resources in Canvas.
4. Start the homework long before it is due.

## Note to students with disabilities

If you have a disability-related need for reasonable academic accommodations or services in this course, provide me with a Test Accommodation Verification Form (also known as a TAV form) from Disability Support Services (DSS) or the Educational Diagnostic Center (EDC). Students are expected to give **one week** notice of the need for accommodations. Students with disabilities can obtain a TAV form from their DSS counselor (408 864-8753 DSS main number) or EDC advisor (408 864-8839 EDC main number). The application process is here: <https://www.deanza.edu/dsps/dss/applynow.html> (Links to an external site.) (Links to an external site.)

## No Make-Ups

There are absolutely **NO MAKEUPS** for any missed work, and **no late work will be accepted**. For most assignments, some scores are dropped. This dropping of lowest scores is **also to take into account any technical difficulties** that may occur.

## Academic Integrity

Students who submit the work of others as their own or cheat on exams or other assignments will receive a failing grade in the assignment and will be reported to college authorities. However, on the projects you are encouraged to work in groups of up to 4 people and submit one project per group.

## Online Homework

The purpose of homework is to help you learn the material in the course. You learn the most and do your best if you work through the homework problems. Also, in WebAssign, there is an "**Ask the Instructor**" button - please use this if you have questions. Your 30 highest **WebAssign** homework scores count towards your final grade, this also takes into account any technical difficulties you may have. **NO EXTENSIONS WILL BE GRANTED. Each homework question may be submitted up to 5 times**, so for each homework your score should be close to 10. Homework is usually due on Monday night at 11:00pm. To access the homework, **click on the links in Canvas!**

Some questions will require you to input symbols. For this you will [use the CalcPad \(Links to an external site.\)](#), which shows up automatically.

## Uploading Written Work

Throughout the course, written work will be uploaded into Canvas. **Late papers will receive a grade of 0.** Written work must be uploaded in Canvas as a **SINGLE (ONE) file** attachment in the correct place for the assignment. The upload must be a single file, NOT a folder with several files, and NOT a zip file. Upload under the correct assignment in the Assignments by clicking on the "Submit" button. Attachments that are blank, cannot be read, are in the wrong place, or cannot be opened will receive a grade of 0. If you upload more than one file, I will only grade one file - the default is the most recent upload. The following are examples of work that is NOT accepted: emailed work, work in messages in Canvas, work uploaded into the comments in Canvas, work submitted in the wrong assignment.

## Projects

Projects may be done individually or in groups of up to four members - you may post in the course [Discussions](#) to find people to work with. Turn in one copy with all of the group members' names on the project. Working alone is also just fine. Projects will consist of writing out complete solutions to some linger problems. You will be graded on your mathematical writing!

Your 4 highest project grades count towards your final grade. This dropping of lowest scores is **also to take into account any technical difficulties** that may occur.

## Exams

Three Midterm Exams and one Final Exam will be given during the quarter. One the exam day, the exam will be available for at least 20 hours, and will be timed (so once you start it, you have limited time to finish it).

Part of the Exam may be in the form of a Canvas Quiz, WebAssign assignment, or as a file upload.

After you have finished the exam you will have a deadline to upload a **pdf** of the indicated worked solutions. Part of your grade on the exam will be based on the work you show to justify your answers.

Tentative dates for the exams:

**EXAM 1: Wednesday 13 October**

**EXAM 2: Wednesday 3 November**

**EXAM 3: Wednesday 24 November**

**FINAL EXAM: Wednesday 8 December**

I count your top 3 exam scores (out of the 4 exams), plus the final exam score. Therefore, it is possible your final exam score will be counted twice.

## Feedback

For **EVERY** assignment, be sure to review the correct answers to help understand what you went wrong, and thoughtfully ask me any questions on anything you need help with. In WebAssign there is a Key icon to click on after the due date and time. For the projects, check out the rubric in Canvas and review any comments I write about your work after it is graded.

See [How to view rubric results for my assignment \(Links to an external site.\)](#) for how to view comments in the **rubric**. In order to view the written feedback that is **marked up** on your file upload, follow the steps below:

1. Go to **Grades**
2. Click on the title of the Assignment (Exam 2 File Upload)
3. Click on “View Feedback”

Expect the project grades with comments within 4 days of the due date.

## Grades

Grade Calculations

Type	Description	Maximum Points
Homework (WebAssign)	Top 30 Scores, 10 points each	300
Projects	Top 4 scores, 25 points each	100
4 Exams (3 midterms and 1 Final Exam)	Top 3 out of 4, 50 points each	150
Final Exam (may count twice)	50 points	50
Total		600

**Lowest percent for each letter grade:** A 93%, A- 90%, B+ 87%, B 83%, B- 80%, C+ 77%, C 70%, D+ 67%, D 63%, D- 60%.

NOTE: there are also extra credit assignments that add to your points, but not the total points, so your personal total is divided by 500 to calculate your grade.

*If you do not take the Final Exam your grade for the course will be F. I count your top 3 exam scores (out of the 4 exams), plus the final exam score. Therefore, it is possible your final exam score will be counted twice.*

*For example, if your scores on Exam 1, 2 and 3 are 40, 45, 48, and you score 47 on the final, then your exam scores will be 47,45,48,47 (with the 47 on the final replacing the 40 on exam 1). If your scores on Exam 1, 2 and 3 are 43, 45, 48, and you score 40 on the final, then your exam scores will be 43,45,48,40 (with the final exam score only counting once).*

# Tentative Course Calendar

Tentative Calendar for the course

	<b>Study this week. Homework due the next week on Monday</b>	<b>Project or Exam due on Wednesday</b>
Week 1	Chapter 1	
Week 2	Chapter 2	Project 1
Week 3	Chapter 2, 3	Project 2
Week 4	Chapter 3	Exam 1
Week 5	Chapter 4	
Week 6	Chapter 4	Project 3
Week 7	Chapter 5	Exam 2
Week 8	Chapter 5, 6	
Week 9	Chapter 6	Project 4
Week 10	Chapter 7	Exam 3
Week 11	Chapter 10	Project 5
Week 12		Final Exam
<b>Notes:</b>	This is tentative! (There might be more projects. Only your top 4 project scores count)	

**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.