



Math 11.25Z – Finite Mathematics
Meets: TTh, 4:00 PM to 6:15 PM
Online classes via Zoom

Fall 2023

Instructor: Lilit Mazmanyman	
Contact: mazmanymanlilit@fhda.edu	Office hours: Friday, 5:00 – 6:00 PM, online via Zoom (check Canvas course for instructions)

This is an online class and instructional method is **synchronous**. Lectures will be delivered online via Zoom during scheduled class times. Virtual breakouts will be used for group collaboration. Instructions how to connect Zoom lectures can be found on Canvas, which are accessible to you via **MyPortal** as you are enrolled in the course. You can also access Canvas using direct link (<https://deanza.instructure.com>) with your MyPortal login credentials. We will communicate via Canvas Inbox, discussion board, Zoom office hours, and emails. Check periodically Canvas announcements. Instructions to access Zoom for office hours can be found on our Canvas course. Information about Canvas and Online Education Orientation can be found in Canvas on the Student Resources page: <https://deanza.instructure.com/courses/3382>. The Student Online Resources hub with extensive information and tips can be found at deanza.edu/online-ed/students/remoteteaching.

Course Description

Application of linear equations, sets, matrices, linear programming, mathematics of finance and probability to real-life problems. Emphasis on the understanding of the modeling process, and how mathematics is used in real-world applications.

Requisites

- Prerequisite: Intermediate Algebra or equivalent (or higher), or appropriate placement beyond intermediate algebra.
- Advisory: ESL 272 and ESL 273, or ESL 472 and ESL 473, or eligibility for EWRT 1A or EWRT 1AH or ESL 5.

Textbook

Michael Sullivan, *Finite Mathematics, An Applied Approach*, 11th ed. Wiley, 2011.

Technology

- A TI-83 PLUS, TI-84 or TI-84 PLUS graphing calculator is recommended.
- Microsoft Excel or graphing calculator can be used for group assignments.
- You can use online graphing calculator via website as <https://www.desmos.com>.

Homework (HW)	<ul style="list-style-type: none"> • HW will be assigned every week, but they will not be collected nor graded. • Quizzes and exams will include similar problems from your homework. • Ask your homework questions before the quiz and exam.
Quizzes (Q)	<ul style="list-style-type: none"> • Quiz is online through Canvas based on classwork and homework. • There are five quizzes assigned on scheduled Thursday of the week. • NO MAKE-UP QUIZZES are given. • Missed quiz is graded as a zero (0). • The lowest quiz score will be dropped.

Exams & Final Exam (EX,FE)	<p>There will be four (4) examinations.</p> <ul style="list-style-type: none"> • EX 1, 2 & 3 are one hour each and Final exam is two (2) hours. • EX 1, 2 & 3 and the FE dates are on the course schedule. • It is recommended to have ready one or two sheets of notes. • There are NO MAKE-UP examinations. • An absence from any examination earns a grade of zero (0). • You MUST take the final exam to pass the course. <p>Quizzes and Exams will be assigned via Canvas. Check the announcements and follow the course schedule on Canvas.</p>																																						
Grading	<p>Students will be graded on group work (GW), quizzes (Q), and exams (EX1, 2 & 3, FE). Grading depends on the clarity of work, interpretations, accuracy and completeness of graphs, and explanations as well as numerical answers.</p> <p>Distribution of weights for each category</p> <table border="1" data-bbox="425 747 1143 993"> <thead> <tr> <th>Category</th> <th>% Weight on Final Grade</th> </tr> </thead> <tbody> <tr> <td>Group Work</td> <td>10 %</td> </tr> <tr> <td>Quiz</td> <td>10 %</td> </tr> <tr> <td>Exam 1</td> <td>20 %</td> </tr> <tr> <td>Exam 2</td> <td>20 %</td> </tr> <tr> <td>Exam 3</td> <td>20 %</td> </tr> <tr> <td>Final Exam</td> <td>20 %</td> </tr> </tbody> </table> <p>Grading Scale</p> <table border="1" data-bbox="425 1060 964 1201"> <tbody> <tr> <td></td> <td></td> <td>A</td> <td>94-100</td> <td>A-</td> <td>90-93</td> </tr> <tr> <td>B+</td> <td>87-89</td> <td>B</td> <td>83-86</td> <td>B-</td> <td>80-82</td> </tr> <tr> <td>C+</td> <td>77-79</td> <td>C</td> <td>70-76</td> <td>D</td> <td>60-69</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>F</td> <td><60</td> </tr> </tbody> </table> <p>Extra Credit</p> <p>During the course you will have opportunities for extra credits. There will be extra problems included in the coursework.</p>	Category	% Weight on Final Grade	Group Work	10 %	Quiz	10 %	Exam 1	20 %	Exam 2	20 %	Exam 3	20 %	Final Exam	20 %			A	94-100	A-	90-93	B+	87-89	B	83-86	B-	80-82	C+	77-79	C	70-76	D	60-69					F	<60
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Important Dates and Deadlines
<https://www.deanza.edu/calendar>

Monday	September 25	First day of Fall Quarter 2023
Saturday	October 8	Last day to add classes
Sunday	October 9	Last day to drop classes with no record of "W"
Friday	November 10	Veterans Day holiday, no class
Friday	November 17	Last day to drop classes with a "W"
Thursday-Sunday	November 23-26	Thanksgiving holiday, no classes
Thursday	December 14	Final examination

Online Education Center

- [Student Resource Hub](#): Visit this site for tips, guides and answers to your questions about using Canvas, Zoom and other online learning tools that your classes may be adopting.
- [Staying Organized](#): This webpage has advice for planning and staying on top of your online coursework.
- [Canvas Help](#): Need technical support with Canvas? This page has information on how to get help.
- [More Student Resources](#): Visit this page for more links and tips.

California Virtual Campus

- [Get Ready for Online Learning](#): This website has videos about getting "tech ready," managing your time, communicating with instructors and more.

Student services and support

<https://www.deanza.edu/online-spring/#Services>

- Tutoring and Library Help
- Computers and Tech Products
- Internet Access
- Food and Financial Assistance
- Health and Psychological Services

Attendance, Drops or Withdrawals

- Regular online attendance is essential for success in the course.
- You must not miss a class in the first week of the quarter or you will be dropped.
- A student who discontinues coming to class and does not drop the course will automatically receive a 'F' grade for the course.
- It is the student's responsibility to drop or withdraw from this course by the college deadlines.

Academic Honesty and Discipline Policy:

Students are expected to abide by the DeAnza College Code of Conduct and not participate in academic dishonesty.
https://www.deanza.edu/policies/academic_integrity.html

Student Success Center

<http://deanza.edu/studentsuccess/mstrc/>

Hours of online Zoom Tutoring Center are Monday to Thursday 9:00-6:00 PM and Friday 9:00 AM-12:30 PM.

The SSC provides free tutoring services such as individual, drop-in, groups, in-class and workshops.

For individual tutoring, fill out a weekly individual application:

http://deanza.fhda.edu/studentsuccess/mstrc/weekly_ind.html

For group tutoring, contact to Helen at nguyenhelen@deanza.edu.

Disability Support Services

<https://www.deanza.edu/dsps/dss/>

Students with disabilities who qualify for academic accommodations must provide a notification from the Disability Support Services (DSS) and discuss their specific needs with the instructor at the beginning of the quarter.

For information or questions about eligibility, support services or accommodations to disability (physical or learning disability) please contact Disability Support Services (DSS).

Phone number: (408) 864-8753

Email: dss@deanza.edu

Tentative Schedule

	Tuesday	Thursday
Week 1	September 26 Syllabus/Sections 1.1 & 1.2 Ch1. Linear Equations	September 28 Sections 1.3 & 2.1 Ch2. Systems of Linear Equations
Week 2	October 3 Sections 2.2 & 2.3	October 5 Sections 3.1 & 3.2 & 3.3 Ch3. Matrices Quiz 1
Week 3	October 10 Sections 4.1 & 4.2 Ch4. Linear Programming with Two Variables	October 12 Sections 4.3 & 5.1 Ch5. Linear Programming: Simplex Method Quiz 2
Week 4	October 17 Sections 5.2 & 5.3	October 19 Section 5.3 Exam 1 (one hour): Chapters 1 to 4
Week 5	October 24 Sections 5.4 & A3	October 26 Sections 6.1 & 6.2 & 6.3 Ch6. Finance Quiz 3
Week 6	October 31 Sections 6.4 & 7.1 Ch7. Probability	November 2 Sections 7.2 & 7.3 Quiz 4
Week 7	November 7 Sections 7.4 & 7.5	November 9 Section 7.6 Exam 2 (one hour): Chapters 5 to 7.3 & A3
Week 8	November 14 Sections 8.1 & 8.2 Ch8. Additional Probability Topics	November 16 Sections 8.3 & 8.4 Quiz 5
Week 9	November 21 Sections 8.5 & 8.6	November 23 November 23-26, Thanksgiving holiday, no classes
Week 10	November 28 Sections 10.1 & 10.2 Ch10. Markov Chains; Games	November 30 Section 10.3 Exam 3 (one hour): Chapters 7.4 to 7.6, 8, 10.1-10.2
Week 11	December 5 Sections 10.4 & 10.5	December 7 Review
Week 12		December 14 Final Exam (two hours): Chapters 1 to 10

- Group Work is assigned randomly during certain weeks and the due dates will be announced.
 - Quiz and Examinations must be completed online through Canvas. They will be assigned during the second part of the class on scheduled Thursday, and you will have one day to complete them with the given time limit.
- Any change in schedule is announced on Canvas. Students are responsible for keeping track of schedule changes.

Student Learning Outcome(s):

- Identify, evaluate, and utilize appropriate linear, probability, and optimization models and communicate results.
- Compare, evaluate, judge, make informed decisions, and communicate results about various financial opportunities by applying the mathematical concepts and principles of the time value of money.

Office Hours:

F	04:00 PM	05:00 PM	Zoom
F	05:00 PM	06:00 PM	Zoom