De Anza College
Math 11 – Finite Mathematics (CRN#48741)

Instructor: Alex Cheng **Email:** chengalex@fhda.edu

Office Hours: Monday, Wednesday & Thursday 2:45 PM - 3:45 PM in S-31D

Class meets in person every **Monday**, **Wednesday** & **Thursday** from **4 PM- 6:15 PM** in **MLC270**

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.

Student Learning Outcome(s)

1. Identify, evaluate, and utilize appropriate linear, probability, and optimization models and communicate results.
2. 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.

Textbook & Required Materials:

- Barnett, Ziegler, and Byleen, "Finite Mathematics for Business, Economics, Life Sciences and Social Sciences"
- You can use an online graphing calculator via a website as https://www.desmos.com.
- Calculator – TI-84+ is preferred, but Ti-83/Ti-83+ will also be supported for this class.

Withdrawal/Drop Policy: It is the ultimate responsibility of the student to drop the class. Do not rely on the instructor to drop.

Attendance: Students are expected to attend all class meetings, arrive on time, take note, and stay for the entire class. The instructor reserves the right to drop/withdraw students who are absent more than five lectures during the quarter. However, a student who discontinues coming to class and does not drop the course will get an F. It is the student's responsibility to drop the course.

Smartphone Use: All smartphones must be on silent mode and put away during lecture. We do not learn how to text or search the Web in this class, so there is no reason to have smartphones out during class unless the instructor allows so.

Grade Breakdown: A:100-90% B:89.99-80% C:79.99-70% D:69.99-60% F:<59.99%

Project	100 points
Quizzes (5)	100 points

Exams (3)	300 Points
Final	100 points
Total	600 points

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 do the homework problems. The homework will NOT be collected. It is for you to do on your own for practice. Again, do not turn in the homework, it is for your own practice.

Project: Students will explore their personal identity and sense of belonging in Silicon Valley by integrating finite mathematics (e.g., graph theory, probability, matrices) with oral history. Students will conduct an interview with someone influential to their understanding of the region and use mathematical concepts to analyze their personal and community experiences. With your permission your digital story will be archived in the California History Center as part of the NEH funded project Voices of Silicon Valley - a project dedicated to capturing diverse experiences and experiences of belonging in this special region of Silicon Valley.

Key Components:

- **Personal Reflection and Narrative:** Write a personal story reflecting your connection to Silicon Valley, key life events, and your sense of belonging.
- **Oral History Interview:** Interview someone who has influenced your understanding of Silicon Valley (e.g., family, mentor, or peer). Compare their experiences with your own.
- **Mathematical Analysis:** Apply mathematical concepts to model aspects of your personal journey, such as relationships, decisions, or key life events.
- **Digital Storytelling Project:** Create a digital story that combines your personal narrative, oral history clips, and mathematical models to reflect on your connection to the region.
- **Reflection:** Submit a written reflection on how the project enhanced your understanding of your identity and sense of belonging in Silicon Valley.

Project Learning Outcomes:

- Apply finite mathematics to real-world personal and community narratives.
- Use oral history to deepen reflections on identity and belonging.
- Create a digital storytelling project that combines mathematical modeling and personal reflection.

Quizzes: Quizzes will focus on the materials covered during that week. NO MAKE-UP QUIZZES are given.

Exams: There will be 3 exams which will all be taken in person. You may use a 8.5 X 11 inch sheet of handwritten notes to use during exams. No make-ups will be allowed. Extensions will

not be given on exams. In the case of a documented emergency, I will replace a missing exam score with the corresponding portion of your final grade. See the course calendar for tentative exam dates.

Final: The final exam will be comprehensive and will be given in person. See Tentative schedule.

Tutoring Services: The De Anza campus has a free tutorial center for math students where students can get "drop in" help or make appointments with a tutor. Also, there are specific MPS tutors available for free. Check Canvas for links to access these tutors through Zoom meetings. Additionally, I am very glad to help you in office hours. Please use your resources.

Academic Integrity: All students are expected to exercise high levels of academic integrity throughout the quarter. You are encouraged to work together but you are expected to write up your answers independently. Any instances of cheating or plagiarism will result in disciplinary action, including getting a '0' on the assignment and report to the PSME dean, which may lead to dismissal from the class or the college

Student Honesty Policy: "Students are expected to exercise academic honesty and integrity. Violations such as cheating and plagiarism will result in disciplinary action which may include recommendation for dismissal."

Disabled Services: Students who have been found to be eligible for accommodations by Disability Support Services (DSS), please follow up to ensure that your accommodations have been authorized for the current quarter. If you are not registered with DSS and need accommodations, please go to http://www.deanza.edu/dss.

Recipe for Success:

1. If you ever have any questions, Email me! You are welcome to send email to me whenever you need help!
2. Visit the Online Tutoring Center.
3. Form a study group.
4. Attend all lectures, participate in every discussion, and complete every homework assignment.
5. Read the sections to be discussed in class prior to the lecture

Spring 2025 Tentative Schedule

Week	Monday	Wednesday	Thursday
1	**April 7** **Sections 1.1 & 1.2**	**April 9** **Sections 1.3, 2.1**	**April 10** **Review Week#1**
2	**April 14**	**April 16**	**17**

	Sections 2.5, 2.6	**3.1**	**Quiz#1**
3	**April 21** **Sections 3.2**	**April 23** **Sections 3.3 &3.4**	**April 24**
4	**April 28** **Sections 4.1,4.2**	**April 30** **Sections 4.3 & 4.4**	**May 1** **Exam #1**
5	**May 5** **Sections 4.5 & 4.6**	**May 7** **Sections 5.1, 5.2**	**May 8** **Quiz#2** **Review week#5**
6	**May 12** **Sections 5.3**	**May 14** **Sections 6.1 & 6.2**	**May 15** **Quiz#3** **Review Week#6**
7	**May 19** **Sections 6.3**	**May 21** **Sections 6.4**	**May 22** **Exam#2**
8	**May 26** **NO CLASS**	**May 28** **Sections 7.1,7.2**	**May 29** **Quiz#4**
9	**June 2** **Sections 7.3, 7.4**	**June 4** **Sections 8.1 & 8.2**	**June 5** **Quiz#5**
10	**June 9** **Sections 8.3 & 8.4**	**June 11** **Sections 9.1**	**June 12** **Exam#3**
11	**June 16** **Sections 9.2**	**June 18** **Final Review**	**June 19** **NO CLASS**
Final	**June 24** **FINAL EXAM (4 pm - 6:15 pm) (two hours): Chapters 1 to 9**	**June 26**	**June 27**

Important Dates and Deadlines: http://www.deanza.edu/calendar/dates-and-deadlines.html

De Anza Final exams schedule: https://www.deanza.edu/calendar/final-exams.html

***This syllabus is subject to change at the instructor's discretion. Changes will be announced in class and on Canvas.**

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:

S-31D	M,W,TH	2:45 PM - 3:45 PM