

### Liquid Syllabus

**Class Meetings:** Tuesday, Thursday, 6:30 PM to 8:45 PM Online classes via Zoom.

**Instructor:** Neelam R. Shukla

**Contact:** [shuklaneelam@fhda.edu](mailto:shuklaneelam@fhda.edu) Preferred method to email via Canvas Inbox.

**Office hours:** Friday, 7:00 – 8:00 PM, online via Zoom (Check Canvas course for instructions).

In case your other class time is clashing with office hours, **one more session will be created after consulting with the students.** Open discussions will be a platform where students will participate, and instructor will provide frequent responses. 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/remotelarning](https://deanza.edu/online-ed/students/remotelarning).

### **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.

### **Required material & Technology.**

- E-book by Raymond A. Barnett, Michael R. Ziegler, Karl E. Byleen, and Christopher J. Stocker. 2019 Finite Mathematics: for Business, Economics, Life Sciences, and Social Sciences. 14th ed. Pearson

Online Math Software & e-book: Please pay via canvas watch orientation. You can buy code from bookstore or pay online but register through the canvas.

- Computer or mobile device capable of accessing the Internet (see [Canvas Computer Specifications](#))
- Relatively recent Mac or PC (not more than three years old) with a current operating system
- Current browser (Firefox or Chrome are preferable)

- High-speed Internet access for viewing online videos and more Google and Microsoft accounts that will allow you to access additional tools.
- A TI-83 PLUS, TI-84 or TI-84 PLUS graphing calculator is recommended.
- You can use online graphing calculator via website as <https://www.desmos.com>.

### Important Dates and Deadlines

<https://www.deanza.edu/calendar>

<b>Monday</b>	<b>January 8</b>	First day of Winter Quarter 2024
<b>Saturday</b>	<b>20<sup>th</sup> January</b>	Last day to add classes
<b>Sunday</b>	<b>21<sup>st</sup> January</b>	Last day to drop classes with no record of "W"
<b>Friday-Monday</b>	<b>16-19 February</b>	President' Day, no class
<b>Friday</b>	<b>1<sup>st</sup> March</b>	Last day to drop classes with a "W"
<b>Thursday</b>	<b>28th March</b>	Final examination

### Assignments and grading scheme

#### Homework

- HW will be assigned every week.
- Quizzes and exams will include similar problems from your homework.
- Ask your homework questions before the quiz and exam.
- You can also discuss the questions and topics. In the discussions.
- Click on the first homework assignment and register for Mylab and Mastering via Canvas (\$79.99/18 weeks, you can get free access for one week, you can buy the code from the bookstore or pay online.) and start doing homework on time. You will also get access to e-book.
- The lowest homework score will be dropped.

#### Quizzes

- Quiz is online through Canvas based on classwork and homework.
- There are **five** quizzes will be due over weekend.
- NO MAKE-UP QUIZZES are given.
- Missed quiz is graded as a zero (0).
- The lowest quiz score will be dropped.

#### Exams & Final Exam

- There will be Three (3) examinations.
- Exams will be proctored.
- EXAM 1, 2 & 3 are one and a-half hour each and Final exam is two (2) hours.
- EXAM 1, 2 & 3 and the Final-Exam 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.**
- The lowest exam score will be dropped.
- Respondence Lockdown browser will be used.

Quizzes and Exams will be assigned via Canvas. Check the announcements and follow the course schedule on Canvas.

## Discussion And Group work

Students will be graded on group work depends on the participation clarity of work, interpretations, accuracy and completeness of graphs, and explanations as well as numerical answers.

## Distribution of weights for each category

Category	% Weight on Final Grade
Homework	15
Quizzes	20
Exams	35
Final Exam	15
Discussions	5
Group work	10

## Grading scale

Grade letters	Range %
A, A-	94 -100, 90 to <94
B+, B, B-	87 to <90, 83 to < 87, 80 to < 83
C+, C	75 to < 80, 70 to < 75
D, F	60 < 70, <60

Students will be graded on group work, quizzes, and exams. Grading depends on the clarity of work, interpretations, accuracy and completeness of graphs, and explanations as well as numerical answers. **Please check Rubrics.**

### 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 De Anza College Code of Conduct and not participate in academic dishonesty. [https://www.deanza.edu/policies/academic\\_integrity.html](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](http://deanza.fhda.edu/studentsuccess/mstrc/weekly_ind.html)

For group tutoring, contact to Helen at [nguyenhelen@deanza.edu](mailto: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](mailto:dss@deanza.edu)

### Tentative Schedule

	Tuesday	Thursday
Week 1	January 9 Syllabus/Sections 1.1 & 1.2 Ch1. Linear Equations and Graphs	January 11 Sections 1.3 & 2.1 Ch2. Functions and Graphs
Week 2	January 16 Sections 2.5 & 2.6 Ch2. Functions and Graphs	January 18 Sections 3.1 Ch3. Mathematics of Finance Quiz 1

<b>Week 3</b>	January 23 <b>Sections 3.2</b> Ch3. Mathematics of Finance	January 25 <b>Sections 3.3 &amp; 3.4</b> Ch3. Mathematics of Finance
<b>Week 4</b>	January 30 <b>Sections 4.1, 4.2</b> Ch4. System of Linear Equations: Matrices <b>Quiz 2</b>	February 1 <b>Sections 4.3 &amp; 4.4</b> Ch4. System of Linear Equations: Matrices <b>Exam 1 (90 Min): Chapters 1 to 3 (Proctored)</b>
<b>Week 5</b>	February 6 <b>Sections 4.5 &amp; 4.6</b> Ch4. System of Linear Equations: Matrices	February 8 <b>Sections 5.1, 5.2</b> Ch5. Linear Inequalities & Linear Programming
<b>Week 6</b>	February 13 <b>Sections 5.3</b> Ch5. Linear Inequalities & Linear Programming <b>Quiz 3</b>	February 15 <b>Sections 6.1 &amp; 6.2</b> Ch6. Linear Programming: Simplex Method
<b>Week 7</b>	February 20 <b>Sections 6.3</b> Ch6. Linear Programming: Simplex Method	February 22 <b>Sections 6.4</b> Ch6. Linear Programming: Simplex Method <b>Exam 2 (90 Min): Chapters 4, 5 to 6</b>
<b>Week 8</b>	February 27 <b>Sections 7.1</b> Ch7. Logic, Set, Counting	February 29 <b>Sections 7.2, 7.3</b> Ch7. Logic, Set, Counting <b>Quiz 4</b>
<b>Week 9</b>	March 5 <b>Sections 7.4</b> Ch7. Logic, Set, Counting	March 7 <b>Sections 8.1 &amp; 8.2</b> Ch8. Additional Probability Topics
<b>Week 10</b>	March 12 <b>Sections 8.3 &amp; 8.4</b> Ch8. Additional Probability Topics <b>Quiz 5</b>	March 14 <b>Sections 9.1</b> Ch 9. Markov Chains <b>Exam 3 (one hour): Chapters 7 &amp; 8</b>
<b>Week 11</b>	March 19 <b>Sections 9.2</b> Ch 9. Markov Chains	March 21 <b>Review</b>
<b>Week 12</b>	Thursday	March 28 (6:15pm-8:15 pm) <b>Final Exam (two hours): Chapters 1 to 9</b>

• Group Work is assigned randomly during certain weeks and the due dates will be announced. **Proctored Quiz and Examinations** must be completed online through Canvas. 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. **Please keep a track for the due dates 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:**

F      07:00 PM      08:00 PM      Canvas