

Spring 2015 - Math 11 Finite Mathematics Section 011.09

Instructor: Lisa Mesh

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Phone: 704-756-2264

Office Hours / Location:

- MTWRF 10:30 - 11:20 in Math/Science Tutorial Center located in S-43
- Additional hours by appointment

Class Time/Location: 11:30-12:20p MTWRF in MLC108

Math Prerequisite: Qualifying score on the Math Placement Test within the past calendar year; or Mathematics 114 or equivalent with a grade of C or better.

English Advisory:

English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Course Description:

This course includes application of linear equations, sets, matrices, linear programming, mathematics of finance and probability to real-life problems. It also includes an emphasis on the understanding of the modeling process, and how mathematics is used in real-world applications.

Student Learning Outcomes:

By the end of this course, you should be able to

- Identify, evaluate, and utilize appropriate linear and probability 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.

Course Outline of Required Topics:

<http://www.deanza.edu/publications/catalog/search/outlinepublic.html?searchID=MATH11>

Required Materials:

Text Book: Applied Finite Mathematics, Rupinder Sekhon

This book is available in several formats free or at a low cost.

- I encourage you to download a free pdf file of this book, which you can find at this web address:
<http://nebula2.deanza.edu:16080/~deanzamath/>
- Hardcopies are available for purchase at the De Anza College Bookstore at a low cost.

The following items are REQUIRED every day. Bring them with you each day when you come to class.

1. **Calculator:** TI-84+ is preferred, but TI-83/TI-83+ will also be supported for this class.
 - Bring one of these statistical graphing calculators to class each day.
 - The above-noted calculators have the required statistics programs, and the instructor will demonstrate their use in class.
 - If your calculator is lost, stolen, or broken, etc., it's your responsibility to obtain a replacement to use.
 - TI-89 is acceptable, but not recommended or supported by me. (It's harder to use for this class than either TI-83 or TI-84.)
 - If you choose to use this model for this class, it's your responsibility to learn on your own how to use it for this class as well as to download the Statistics List Editor programs into your calculator via the TI website using your own cable.
 - Cell phones or other devices cannot be used as a calculator on a quiz or exam.
 - Students cannot share calculators for quizzes or exams.
 - *I cannot lend my calculator to anyone.*
2. **Graph Paper**
3. **4 spare AAA batteries**
4. **Ruler**
5. **Small Stapler**

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Computers & Websites:

This class requires several online computer resources.

- Computers with internet access are available in several locations on campus
 - Library West Computer Lab (in basement of building). The computer lab schedule can be obtained via phone (408) 864-8850 or website (<http://www.deanza.edu/library/librarywestcomputer.html>).
 - Math/Science Tutorial Center (located in S-43) also has some computers for student use.
 - The Advanced Technology Center (AT) has 3 labs with about 20 computers each.

Computers & Websites:

- CourseStudio (via MyPortal) will include links to calculator guidebooks as well as other course-related articles.

Grading Policy:

Grades for this class will be calculated based on a weighted average using the following components and weights.

Labs/Group Work (incl Peer Review)	10%
Quizzes (best 8 of 9)	25%
Exam 1	20%
Exam 2	20%
Final Exam	25%

Grading Scale:

Grading for this class won't be based on any curve. The following table shows the minimum percentage needed to guarantee the indicated grade.

A+	At least 98%		B+	88% - 89%		C+	78% - 79%		F	Under 60%
A	92% - 97%		B	82% - 87%		C	70% - 77%			
A-	90% - 91%		B-	80% - 81%		D	60% - 69%			

College Schedule & Deadlines:

- Last day to *add* a class: 4/18 (Sat)
- Last day to *drop for full refund/credit*: 4/19 (Sun)
- Last day to *drop with no record of grade*: 4/19 (Sun)
- Last day to *request pass/no pass grade*: 5/1 (Fri)
- Last day to *drop with a "W" (withdraw)*: 5/29 (Fri)
- *Final Exams*: 6/23 – 6/26 (Tue – Fri)
 - Final for section 011.09 is Friday, 6/26/15 at 11:30 - 1:30P.

College Holidays (No Class):

- 5/23/15 (Mon) – Observance of Memorial Day

If you have additional questions, consult MyPortal/College Calendars online.

Labs:

Three labs will be assigned and will count for 10% of your class grade.

- These projects will be completed by groups of 3 or 4 students.
- You'll receive 4 grades related to labs that will be equally weighted – 3 grades for labs submitted and 1 peer review score.

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Midterm Exams:

We will have *2 midterm exams through the quarter in addition to the final*. Midterm exams will occur approximately every 4 weeks and will last 50 minutes.

- Although tentative dates for these exams are posted on the course calendar (attached later in this document), we'll set each date firmly at least one week in advance.
- For each exam, **one** page of your handwritten notes are permitted (8.5 x 11 inches), 2 sided.
 - These note pages will be collected with exams.
 - Instructor keeps notes and exams.
 - *No late or make-up exams will be given. If you miss the exam, you'll earn a grade of 0.*

Because the final is cumulative, your final exam score can replace your lowest midterm exam score, even if it your lowest exam score is a zero.

Final Exam: Friday, 6/26 (11:30-1:30P)

The final exam will be 2 hours long, worth at least 15% of your final grade, and will be mandatory. It will be comprehensive and will include all material covered during the quarter.

- Because the final exam will be longer than midterm exams, **two** pages of your handwritten notes are permitted (8.5 x 11 inches), 2 sided.
- Notes will be collected with exams for instructor to keep.

If English is a second language (ESL), a print (not electronic) English translation dictionary is allowed for exams/quizzes.

If you miss the final exam without contacting me (your instructor) beforehand, you will receive a score of 0 on the final exam.

Quizzes:

We'll have *9 quizzes; 8 best quiz scores are counted*. Quiz dates are scheduled for Fridays, but may change as we progress through the quarter. Keep up with adjustments via calendar and announcements posted on CourseStudio.

Quizzes will be timed and may be for only part of our class time. *After each quiz is completed, please plan to stay for remainder of class time.*

- One 3" x 5" notecard, one sided with no examples will be allowed on these quizzes.
- Note cards must be hand written and not photocopied.
- Note cards must be turned in with each quiz.
- Use of calculators will be allowed.
- No late quizzes will be given, but lowest score will be dropped.

Homework:

To truly understand this material, you'll need to spend time with it and practice. With that in mind, to excel on exams and quizzes, you will need to not only do the assigned homework but will need to work additional exercises on your own.

Homework will be assigned daily but will not be collected or graded. Doing and knowing the homework material will be essential to pass weekly quizzes and exams.

Be careful to thoughtfully complete the homework; after you've completed an exercise, check the solution (mostly odds are in back of your textbook). **DON'T** check the solution *before* doing an exercise.

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Academic Integrity:

Cheating and academic dishonesty aren't tolerated and can result in a grade of 0 or F for the assignment (quiz/exam/other assignment) or a grade of F for the course and referral to the Dean for academic discipline. Just don't do it. Any grade of 0 or F for dishonesty will be dropped and not replaced.

Cheating includes, but isn't limited to: copying from other students, permitting other students to copy from you, plagiarism, submitting work that isn't your own, using notes that don't meet permitted specifications, continuing to write/erase on an exam/quiz after permitted time has ended, changing your exam/quiz paper after it's been graded and then requesting a grading correction.

Attendance:

This is a quick-paced, challenging course. It's expected that you attend all classes, arrive on time, and stay through the entirety of each class. If you don't, you'll find it difficult to keep up and catch up.

- **You MUST be in attendance of all classes during the first 2 weeks of this class to ensure that you are not dropped from the course.**
- We'll take attendance each day.
 - *If you are absent more than 5 times during the quarter, you may be dropped from the class.*
 - Tardiness and leaving early without excuse will count as $\frac{1}{2}$ day's absence.
- *If you choose not to complete the class, it's **your responsibility** to drop/withdraw by the college deadlines.* If you stop attending, but don't withdraw, you may fail the course with a grade of F. Check college schedule deadlines to confirm deadlines shown in this syllabus.
- If you **do** miss a class after the first 2 weeks, catch up using several resources.
 - Get notes/catch up with another student.
 - First, read the textbook.
 - Secondly, get tutorial help.
 - After you've explored the first 2 pursuits, come to my office hours to get specific help if you have questions about the material.
- If you're late for a class, wait until after the class is over to get missed materials.
 - After the class is over, pick up any papers or handouts that you may have missed out on from the beginning of the class.
- If you must leave a class early, let me know before we begin the class that day.

Class Cancellation / Emergency:

If I need to cancel class or cannot attend, I'll e-mail you as soon as I can, using announcements via CourseStudio/MyPortal.

If class is canceled for any reason, or if an emergency causes campus to be closed, assume that any quiz, exam or due date scheduled on the date will be rescheduled to your next class meeting. If there are other changes, I'll announce them in the class after classes resume. Check the website and email; for notices/announcements.

In the event of an emergency during class that requires evacuation of the building, leave the class immediately, but calmly. In the event of an earthquake, take cover under your desk, making sure that your head is protected as best as possible. As soon as possible, evacuate the building. In the event of a local emergency not requiring evacuation, call 911 immediately.

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Accommodations for Students with Disabilities:

If you have questions about these services or your eligibility for support services or eligibility, contact one of the following resources:

- Disability Support Service (DSS): Student Services Building (408) 864-8753, TTY (408) 864-8748
- Educational Diagnostic Center (EDC): Learning Center West 110 (408) 864-8839
- Special Education Division: (408) 864-8407; www.deanza.edu/specialed

Please speak with me privately after class or during office hours regarding your accommodations. All exams scheduled out of the classroom must be scheduled for a time period that at least overlaps class hours. Exams will not be authorized for vastly different time periods.

Class Conduct:

- *Be respectful of others in class.* If you disrupt class, you'll be asked to leave the classroom and you may be dropped from the class.
- *Don't use cell phones during class time. Please stow them and turn them off.*
 - If your cell makes noise during a quiz or exam, points will be deducted from your grade. Repeated noise may result in instructor taking your paper early and asking you to leave.
 - No texting during class if you can possibly avoid it.

Expectations for Students:

- **Commit the time daily and don't fall behind**
 - Expect to spend *at least 2 hours/day* outside of class doing homework and reading material.
 - Practice and self-testing will not only help you identify questions and areas that you will want to get help with, it's essential to pass this class.
- **Participate**
 - Come to class, submit homework, ask questions.
- **Collaborate with other classmates**
 - We'll be working in groups.
 - Partner, teach, and learn from your colleagues.
 - Ask them questions and get their help if you miss a class.
 - *Form study groups* to help complete homework and address questions.
- **Use my office hours**
 - I'll be in Tutorial Center at least one hour each day.
 - Come to office hours if you have any questions at all about course-related material.
- **If you don't understand a topic, get help soon. You have several options.**
 - Find a tutor in the Science/Math Tutoring center [located in S-43]
 - Consult another classmate
 - Use my office hours

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Tentative Course Schedule

Dates related to lab assignments and chapters covered may change slightly as we go through the quarter. I'll maintain a current calendar on our class CourseStudio page. Please refer to it as our factual base through the quarter.

Note: FINAL and dates for drop/add/request pass/no pass are set by the college and will not change.

Sun	Mon	Tue	Wed	Thurs	Fri	Sat
4/5	4/6 Greensheet/ Intro 1.1	4/7 Ch 1.2/1.3	4/8 Ch 1.4	4/9 Ch 1.5	4/10 Quiz #1	4/11
4/12	4/13 Ch 2.1	4/14 Ch 2.2	4/15 Ch 2.3/2.4	4/16 Ch 2.4/2.5	4/17 Quiz #2	4/18 Last day to add a class
4/19 Last day to drop for full refund/ credit and Last day to drop with no record of grade	4/20 Ch 3.1	4/21 Ch 3.1	4/22 Ch 3.2 <i>Lab # 1 Due</i>	4/23 Ch 4.1	4/24 Quiz #3	4/25
4/26	4/27 Ch 4.1	4/28 Ch 4.2	4/29 Ch 5.1/5.2	4/30 Ch 5.3	5/1 Exam #1 (Chs 1-4) Last day to request pass/ no pass grade	5/2
5/3	5/4 Ch 5.4	5/5 Ch 5.5	5/6 Ch 6.1	5/7 Ch 6.2	5/8 Quiz #4 <i>Lab #2 Due</i>	5/9
5/10	5/11 Ch 6.3	5/12 Ch 6.4	5/13 Ch 6.5	5/13 Ch 6.6	5/14 Quiz #5	5/16
5/17	5/18 Ch 6.7	5/19 Ch 7.1	5/20 Ch 7.2	5/21 Ch 7.3	5/22 Quiz #6	5/23
5/24	5/25 Holiday No Class	5/26 Ch 7.4	5/27 Ch 7.5	5/28 Ch 8.1	5/29 Quiz #7 Last day to drop with a "W"	5/30
5/31	6/1 Ch 8.2	6/2 Ch 8.3	6/3 Ch 8.4	6/4 Review	6/5 Exam #2 (Chs 5-8)	6/6
6/7	6/8 Ch 9.1	6/9 Ch 9.2	6/10 Ch 9.2	6/11 Ch 9.3	6/12 Quiz #8	6/13
6/14	6/15 Ch 10.1	6/16 Ch 10.2	6/17 Ch 10.3 <i>Lab #3 Due</i>	6/18 Review	6/19 Quiz #9	6/20
6/21	6/22 Last Day of Class Review	6/23	6/24	6/25	6/26 Final 11:30-1:30P	6/27