

Math 12.23Z – Introductory Calculus for Business & Social Sciences

Meets: TTh, 1:30 PM to 3:45 PM

Online classes via Zoom

Instructor:	Lilit Mazmanyan	
Contact:	mazmanyanlilit@fhda.edu	Office hours: Friday, 10:30 – 11:30 AM, online via Zoom
		(check Canvas 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, Zoom, 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/remotelearning.

Course Description

Introduction to limits, differentiation, and integration of single and multivariate functions, with applications in business, economics, and social sciences.

Requisites

- *Prerequisite:* MATH 31, 31H, 41, or 41H.
- Advisory: EWRT 211 and READ 211, or ESL 272 and 273.

Textbook

Bittinger, M.L., Ellenbogen, D.J. and Surgent, S.A., Calculus and its Applications, 11th ed., Pearson, 2016.

Calculator

- A TI-83 PLUS, TI-84 or TI-84 PLUS graphing calculator is recommended for this course.
- If you do not have graphing calculator you can use online graphing calculator via website as https://www.desmos.com

Weekly course lectures and assignments, and other resources, grades and announcements will be published on our Canvas course (https://deanza.instructure.com).

Homework (HW)	 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 quiz and exam.
Group Work (GW)	 GW will be assigned randomly during the class times. GW must be completed in groups of at least two and no more than four. Topics and details will be discussed in class. Work with details must be uploaded on Canvas as one document. Due date will be announced in class.

Spring 2022



Quiz (Q)	 Quizzes are online through Canvas based on classwork and homework. Quizzes are timed and they are assigned on Thursday due Saturday. It is recommended to have ready one sheet of notes. 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)	There are 3 examinations trough Canvas during scheduled class time. • EX 1 & 2 are one hour each and Final exam is two (2) hours. • EX 1 & 2 and the FE dates are on the course schedule. • It is recommended to have ready 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.		
	Check the announcements for instructions and follow the course schedule on Canvas.		
Grading	Students will be graded on quizzes (Q), group work (GW), and exams (EX1, EX2, FE). Grading depends on the 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	
	Quizzes	10 %	
	Group work	10 %	
	Exam 1	25 %	
	Exam 2	25 %	
	Final Exam	30 %	
	A 94-100 B+ 87-89 B 83-86 C+ 77-79 C 70-76 Extra Credit	6 B- 80-82 6 D 60-69 F <60	
	During the course you will have opportunities for extra credit assignments.		

Important Dates and Deadlines https://www.deanza.edu/calendar/

Wednesday	April 6	First day of Spring Quarter 2022	
Saturday	April 16	Last day to add classes	
Sunday	April 17 Last day to drop classes with no record of "W"		
		Last day to drop classes for full refund or credit	
Friday	April 29	Last day to request "Pass/No Pass" for full-length classes	
Friday	May 27	Last day to drop classes with a "W"	
SatMonday	May 28-30	Memorial Day Weekend – no classes	
Monday	June 20	Juneteenth Holiday - no classes	
Tuesday	June 21	Final examination	
	1:45 – 3:45 PM	https://www.deanza.edu/calendar/final-exams.html	



Online Education Center

- <u>Student Resource Hub:</u> 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

• <u>Get Ready for Online Learning:</u> 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		April 7
		Syllabus/Chapter R
		Functions, Graphs, and Models
Week 2	April 12	April 14
	Chapters R&1	Chapter 1
	Differentiation	Quiz 1
Week 3	April 19	April 21
	Chapters 1&2	Chapter 2
	Applications of Differentiation	Quiz 2
Week 4	April 26	April 28
	Chapter 2	Chapter 2
_		Exam 1 (one hour): Chapters R,1,2
Week 5	May 3	May 5
	Chapter 3	Chapter 3
	Exponential & Logarithmic Functions	GW
Week 6	May 10	May 12
	Chapter 3	Chapter 3
	17. 17	Quiz 3
Week 7	May 17	May 19
	Chapter 4	Chapter 4
	Integration	Quiz 4
Week 8	May 24	May 26
	Chapter 4	Chapter 5
		Exam 2 (one hour): Chapters 3-4
Week 9	May 31	June 2
	Chapter 5	Chapter 5
	Applications of Integration	GW
Week 10	June 7	June 9
	Chapters 5&6	Chapter 6
	Functions of Several Variables	Quiz 5
Week 11	June 14	June 16
	Chapter 6	Chapter 6
		Review Problems
Week 12	June 21	
	Final Exam (two hours): Chapters R,1-6	
	1:45 PM - 3:45 PM	

- Any change in schedule is announced during class. Students are responsible for keeping track of schedule changes.
- Final Exam date/time is the college mandated official final exam date/time.
- HW and GW assignments can be found on Canvas.
- Course materials (syllabus, lecture presentations, quiz/exam answer keys and additional resources) are uploaded onto *Canvas*. It is accessible to you via MyPortal as you are enrolled in the course. You can also access into Canvas using direct link (https://deanza.instructure.com) with your MyPortal login credentials.



Student Learning Outcome(s):

*Use correct notation and mathematical precision in the evaluation and interpretation of derivatives and integrals.

*Evaluate, solve, interpret and communicate business and social science applications using appropriate differentiation and integration methodologies.