

Math 12.05 – Introductory Calculus for Business & Social Sciences Spring 2017 Meets: MTWThF, 10:30 AM to 11:20 AM Room: L-64

Instructor: Lilit Mazmanyan		Office: E37		
Contact:	mazmanyanlilit@fhda.edu	Office hours: Monday and Wednesday		
		9:45 AM to 10:15 AM		

Course Description

Introduction to limits, differentiation, and integration of single variable functions. Differentiation of multivariate functions. Applications in business, economics, and social science.

Student Learning Outcomes

- 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.

Prerequisites

• MATH 11 or MATH 41.

Textbook

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

Recommended Reference

Hughes-Hallett et all. Applied Calculus, 5th ed. John Wiley and Sons, Inc, 2013.

Calculators and Computer Software

- A TI-83 PLUS, TI-84 or TI-84 PLUS graphing calculator is REQUIRED in class every day
- It is the student's responsibility to obtain a calculator to use if his/her calculator is lost or broken. Library Reserve has calculators for limited loans. The instructor can NOT lend her calculator.
- Cell phones or other devices CANNOT be used in place of a permitted calculator on any quiz or examination

Homework (HW)	 Homework is done online using MyMathLab Students need to self-register at <u>http://www.pearsonmylabandmastering.com</u> for logging into MyMathLab to access the course CLASS KEY to register on MyMathLab WILL BE SENT TO STUDENTS BY EMAIL The bookstore sells print books and access codes. You can buy the access code online directly which includes the electronic version of the book. Students are responsible to investigate prices and formats to best fit their needs After the due date/time, HW cannot be submitted for credit After the due date/time, the answer key is available online 		
Technology	• TBP must be completed in groups of at least two		
Daseu r'roject	• Choose your own teams. The instructor may assign any class member to any team		
(TBP)	• Project topics and details will be discussed in class		
	• The project culminates in a written report		
	• MUST be used technology graphing calculators, Excel, MATLAB, OR Mathematica		

Quizzes (Q)	• Closed book						
	Based on classwork and homework						
	• One page of notes, HANDWRITTEN, double-sided 8.5 x 11-inch, is allowed						
	NO MAKE-UP QUIZZES are given						
	• Missed quiz is graded as a zero (0)						
	• The lowest quiz score will be dropped						
Exams &	There will be three (3) examinations						
Final Exam	• EX 1 & EX 2 are one hour each and Final exam is two hours						
(EX,FE)	• EX 1 & EX 2 and the FE dates are on the course schedule						
	Closed book						
	• Bring calculator, spare batteries, pencils, ruler, sharpener, and eraser						
	• If English is the student's second language, a paper English translation dictionary is						
	permitted						
	• Electronic English translation dictionaries are NOT permitted.						
	• One page of notes, HANDWRITTEN, double-sided 8.5 x 11-inch, is allowed for the						
	EX 1&2.						
	• Two pages of notes, HANDWRITTEN, double-sided 8.5 x 11-inch, are allowed for						
	the Final Exam.						
	• There are NO MAKE-UP examinations						
	• An absence from any examination earns a grade of zero (0)						
Grading	Students will be graded on homework (HW), laboratory work (LW), quizzes (Q), 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						
	Homework 10 %						
	Quizzes 10 %						
	TBP 15 %						
	Exam 1 20 %						
	Exam 2 20 %						
	Final Exam 25 %						
	Grading Scale						
	A + >99 A 94-98 A 90-93						
	B+ 86-89 B 82-85 B- 78-81						
	C_{+} 74-77 C 70-73						
	D_{+} 64-69 D 58-63 D- 50-57						
	F < 50						
	Extra Cradit						
	During the course you will get extra credit problems. They will be included in						
	coursework, homework, and on exams.						

Important Dates and Deadlines

https://www.deanza.edu/calendar/springdates.html

Monday	April 10	First day of Spring Quarter 2017.	
Saturday	April 22	Last day to add quarter-length classes. Add date is enforced.	
Sunday	April 23	Last day to drop for a full refund or credit. Last day to drop for a	
		class with no record of grade. Drop date is enforced.	
Saturday-	May 27-29	Memorial Day Weekend (no classes)	
Monday	-		
Friday	June 2	Last day to drop with a "W." Withdraw date is enforced.	
Wednesday	June 28	Final Examination (see schedule)	
-		https://www.deanza.edu/calendar/finalexams.html	

Attendance, Drops or Withdrawals

• Regular attendance is essential for success in the course

• A student who discontinues coming to class and does not drop the course will automatically receive an '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. Academic dishonesty includes:

- Copying from other students (plagiarism)
- Using notes during a quiz or examination that do not meet permitted specifications
- Continuing to write or erase on a quiz or examination after the permitted time has ended
- Using any electronic device other than the approved TI calculator on a quiz or examination
- Sharing a calculator with another student for a quiz or examination

Academic dishonesty can result in a grade of 'F' for that quiz or examination or assignment, or a grade of 'F' for the course and referral to the Dean for academic discipline.

Disruptive Behavior:

The use of cell phones and other noise emitting devices is disruptive. Students must keep their cell phones and other noise making devices in the off-mode, and keep them off the desk and out-of-sight.

Disruptive behavior includes:

- Engaging in an activity not related to the classroom activity
- Eating or drinking during class
- Monopolizing discussion time
- Late arrivals or early departure

Tutoring

The Math, Science and Technology Resource Center is located in S43 on the De Anza Campus, (408) 864-8683. Hours of operation: Monday - Thursday 8:30 am - 6:30 pm, Friday 8:30 am - 12:30 pm. *Student Success Center*: http://deanza.edu/studentsuccess/mstrc/

Students with Disabilities

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). DSS is located in Student Community Services Building, Room 141. Phone number is (408) 864-8753; TTY (408) 864-8753. *Disability Support Services*: https://www.deanza.edu/dss/



Tentative Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 1	April 10	April 11	April 12	April 13	April 14
	Syllabus/Chap R	Chapter R	Chapter R	Chapter R	Chapter R
	Functions, Graphs,				
	and Models				
Week 2	April 17	April 18	April 19	April 20	April 21
	Chapter 1	Chapter 1	Chapter 1	Chapter 1	Chapter 1
	Differentiation	HW 1 due			
	Quiz 1				
Week 3	April 24	April 25	April 26	April 27	April 28
	Chapter 1	Chapter 1	Chapter 2	Chapter 2	Chapter 2
	Quiz 2	HW 2 due	Applications of		
			Differentiation		
Week 4	May 1	May 2	May 3	May 4	May 5
	Chapter 2	Chapter 2	Chapter 2	Chapter 2	Exam 1
	Quiz 3	HW 3 due		Review Problems	Chapters R, 1-2
Week 5	May 8	May 9	May 10	May 11	May 12
	Chapter 1-2	Chapter 3	Chapter 3	Chapter 3	Chapter 3
	Review of Exam 1	Exponential &			
		Logarithmic			
		Functions			
		HW 4 due			
Week 6	May 15	May 16	May 17	May 18	May 19
	Chapter 3	Chapter 3	Chapter 3	Chapter 4	Chapter 4
	Quiz 4	HW 5 due		Integration	
Week 7	May22	May 23	May 24	May 25	May 26
	Chapter 4	Chapter 4	Chapter 4	Chapter 4	Chapter 4
	Quiz 5	HW 6 due			
Week 8	May 29	May 30	May 31	June 1	June 2
	Memorial Day	Chapter 3-4	Exam 2	Chapter 3-4	Chapter 5
	Holiday	Review Problems	Chapters 3-4	Review of Exam 2	Applications of
	No class	HW 7 due			Integration
Week 9	June 5	June 6	June 7	June 8	June 9
	Chapter 5	Chapter 5	Chapter 5	Chapter 5	Chapter 5
	Quiz 6	HW 8 due	-	-	
Week 10	June 12	June 13	June 14	June 15	June 16
	Chapter 5	Chapter 6	Chapter 6	Chapter 6	Chapter 6
	Quiz 7	Functions of		_	
		Several Variables			
		HW 9 due			
Week 11	June 19	June 20	June 21	June 22	June 23
	Chapter 6	Chapter 6	Chapter 6	Review Problems	Review Problems
		HW 10 due	TBP	ТВР	TBP
	Quiz 8				
Week 12	June 26	June 27	June 28	June 29	June 30
	No class	No class	No class	Final Exam	
				9:15-11:15 AM	

• TBP - Technology Based Project

• 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.

[•] Course materials (syllabus, lecture presentations and answer keys) are uploaded on "My Courses/Course Studio." It is accessible to you via MyPortal as you are enrolled in the course.