DE ANZA COLLEGE Math DEPARTMENT

Math 1A-18Z (CRN 13661)

Instructor: Neelam R. Shukla
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Class Days & Time: MTWR 5:30-7:45 pm via Zoom (06/30/2025-08/08/2025)

Course Description: Fundamentals of differential calculus. (5 units): ZTC

Office Hours:6:15 pm-7:05 pm via Zoom on Canvas

Required Text and Recommended Materials:

- Textbook: Calculus I Differential Calculus (Free)
- Calculator: Although not necessary for most of this course, it can sometimes be helpful to have access to some type of graphing calculator. This can be a physical graphing calculator or free online graphing tool such as https://www.desmos.com/or https://www.wolframalpha.com/. You can use T1 84 calculator.
- Access to https://deanza.instructure.com/. Canvas is where all the course information will be available. Information regarding grades, lectures, resources, etc.

Goals for Students in the Course:

- To build a solid foundation for future calculus courses.
- To build confidence in their academic abilities in the math class and beyond.
- Be able to collaborate and discuss mathematics with classmates.
- To gain intuition behind concepts in the course.

Grading:

Exams	Homework	Quizzes	Discussions	Final
35 %	20 %	20 %	5%	20 %

Grading scale	
94- 100% A	74-80% C+
90- <94% A-	70-<74% C
87-<90 % B+	60-<70% D
84-<87% B	≤ 59.9 F
80-<84% B-	

Exams 35 %: There are 3 exams. These exams will be on via Canvas and students will upload their completed work to Canvas. (Insert pdf or .jpg pictures)

Free Online Homework: 20%: via zoom on ADAPT/MOM

The purpose of homework is to help you learn the material in the course. You learn the most and do your best if you work through the homework problems. Also understand the late submission policy. To access the homework, **click on the links in Canvas**!

Quizzes: 20%: There will be 4 Quizzes

Discussions 5%: Each week there will be a discussion board in which you can interact with your classmates about the course content. Here is where we will try to build a sense of community and interact with others over the material and serve as a place for participation and collaboration. Read rubric as they are graded.

Final 20 %: The final will be comprehensive.

Late Work: No late work will be accepted. Due dates will be clearly given on the assignments in Canvas. There will also not be any make up work. To compensate for illnesses or emergencies, one least score of the exam, Quiz & homework category will be dropped.

Attendance: This class will be synchronously held via Zoom so attending means being present for the courses allotted time during the zoom sessions. As is the case with any class, being present is crucial and necessary for doing well in the course. Specific reasons leading to dropping a student are given below.

You will get email from me to check if:

- You miss 2 homework sets and or quizzes in a row.
- You do not interact with Canvas for a week.
- You miss 1 full weeks of synchronous meetings without contacting me prior to missing those meetings.

Note that if for any reason you feel like you may need to drop the course, it is your responsibility to do so.

Academic Integrity: If it is suspected that academic dishonesty is taking place on an assignment, the college will be notified and will result in a failing grade on the assignment or a failing grade in the class. For further information on academic integrity please see https://www.deanza.edu/policies/academic_integrity.html.

Help and Support:

- The Math, Science and Technology Resource Center (MSTRC): Here you can access free online tutoring via Zoom. See, https://www.deanza.edu/studentsuccess/ for further details. Net tutor, which can be accessed via Canvas, is another place you can find free online tutoring.
- I encourage students to make use of office hours! This is another great place to get help on material related to the course.
- The discussion boards will be a great place to collaborate with classmates regarding the course content.

Disability Statement: If you have a disability related need for academic accommodations or services in this course, you will need to provide me with a Test Accommodation Verification Form (TAV form) from Disability Support Services (DSS) or the Educational Diagnostic Center (EDC). Students are expected to give a two week notice if they need accommodations. For those students with disabilities, you can obtain a TAV form from their DSS counselor (408 864-8753 DSS main number) or EDC advisor (408 864-8839 EDC main number). The application process can be found here: https://www.deanza.edu/dsps/ dss/applynow.html

Tentative Course Schedule:

Week#	Sections to be covered/Assignments & homework
Week1 June 30, July 1	Some review Ch.1 Preview of calculus 2.1, Limits 2.2, Limit laws 2.3, Homework 1
July 2,3	Continuity 2.4, Precise def of Limit 2.5, Quiz 1, Chap 3: Def 3.1, Derivatives 3.2, Homework 2
Week 2 July 7,8	**Exam 1(Chapter 2)** Differentiation Rules 3.3 Derivative rate of change 3.4, Homework 3
July 9,10	Derivative of Trig Fun 3.5, Chain Rule 3.6, Homework 4
Week 3 July 14, 15	Derivative of inverse Funs 3.7, Implicit Funs 3.8, Quiz 2, Homework 5
July 16, 17	Polynomial and exponential derivatives 3.9, Related Rates 4.1, Homework 6, Exam 2 (Chapter 3)
Week 4 July 21, 22	Related rates 4.1, Linear approximation and differentials 4.2, Homework 7
July 23, 24	Maxima and minima 4.3, Mean Value Theorem 4.4, Quiz 3, Homework 8
Week 5 July 28, 29	Derivatives and shape of the graph 4.5, Infinite limits and horizontal asymptotes 4.6, Homework 9
July 30, 31	L'Hôspital's Rule 4.7, Applied Optimization 4.8, Homework 10
Week 6 Aug 4, 5	**Exam 3 (4.1-4.8),** Newton's Method 4.9 Antiderivatives 4.10, Homework 11
Aug 6, 7	Parametric equations 5.1, 5.2, Quiz4, Homework 12, Review, Final Exam Thursday 5:45 pm- 7:45 pm

Important Dates:

June 30, Summer session starts

July 5, No Class Independence Day

For a more comprehensive list of important dates see http://www.deanza.edu/calendar/.

Student Learning Outcome(s):

• Analyze and synthesize the concepts of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.
• Evaluate the behavior of graphs in the context of limits, continuity and differentiability.
• Recognize, diagnose, and decide on the appropriate method for solving applied real world problems in optimization, related rates and numerical approximation.

Office Hours:

F	6:15 PM - 7:05 PM	Zoom,Canvas