Math 1A Course Syllabus
De Anza College
Fall 2020

Instructor: Usha Ganeshalingam

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Office Hours: Monday-Thursday 12:30-1:20pm. Please email me to set up a Zoom appointment.

Course Description: Fundamentals of differential calculus.

Class Format: As a class, we will meet live from 6:30-7:30pm on Tuesdays and Thursdays. During this time I will review material from earlier in the week, answer questions and on some days assign classwork. You can use the remaining class time 7:30-8:45pm to watch the recorded lecture videos, or to take a quiz or exam on testing days. You can join the live Zoom sessions by clicking on the link in Canvas or by using the meeting ID and password below.

Meeting ID: 980 0689 2834 Password: calc18z

Required Materials:

- **Textbook:** *Calculus-Early Transcendentals*; 8^{th} edition, by James Stewart. An electronic version of the text is available for purchase through WebAssign.

- **WebAssign Access Code:** All assignments, quizzes and exams will be done online using WebAssign. WebAssign can only be accessed through Canvas and will not be available until the first day of instruction. Everyone will have a 2 week grace period to use WebAssign. By the end of the grace period you will need to have purchased an access code, which is available if you buy the textbook in new condition from the De Anza bookstore OR can be purchased separately through WebAssign.

  Course Packet: The course packet is available to purchase through the De Anza bookstore. If you order the packet online, it will be shipped to the address you provide. The course packet functions as a workbook and will be used for note taking.

  Calculator: A TI-83 or TI-84 (or TI-83+,TI-84+)graphing calculator is also required for this class. You can use another type of graphing calculator, but you may have trouble following along with lecture. The graphing calculator you use should have a TABLE feature.

- **Internet Access and Technology:** You will need to have reliable internet access and a device that allows you watch prerecorded videos and complete homework, quizzes and exams online. Lectures will be recorded and available on Canvas. You will need to have internet access and the ability to connect to live office hours through the app Zoom.

Grading:

Exams	300 Points
Homework	50 Points
Quizzes	100 Points
Classwork	$20 - 30$ Points
Final	150 Points
Total	**620-630 Points**

Grade Breakdown:

A+: 97-100%	B+:87-88%	C+: 77-78%	D: 62-66%
A: 92-96%	B: 82-86%	C: 69-76%	D-: 60-61%
A-: 89-91%	B-: 79-81%	D+: 67-68%	F: $< 60\%$

Exams: There will be 3 exams which will all be taken online. Each exam is worth 100 points. Exams will be made available at 7:30pm on exam days, and due the next day by 11:59pm. You will have at least 75 minutes to take exams. See the course calendar for tentative exams dates. No make-ups will be allowed. In the case of a documented emergency, I will replace a missing exam score with the corresponding portion of your final grade.

Homework: There will be a total of 10 online homework assignments, with each assignment worth 5 points. See the course calendar for tentative due dates. All homework must be submitted by 11:59pm on the due date.

Quizzes: There will be 6 online quizzes, each worth 20 points. Quizzes will be made available at 7:30pm on quiz days, and due the next day by 11:59pm. You will have at least 30 minutes to take quizzes. See the course calendar for tentative quiz dates. The lowest quiz score will be dropped. No make-ups will be allowed.

Classwork: During live class, I will periodically (not on quiz or exam days) assign a few problems that will be due on the same day by 11:59pm. I will

be available during class time to help you work through these problems. The goal is to give you time to practice problems on your own. These assignments will be submitted through Canvas.

Final Exam: The final exam will be comprehensive and will be given online. It will be a timed 2 hour exam. You can take the final exam anytime between Monday 12/7 12:00am and Wednesday 12/9 by 11:59pm.

Important Dates:

- The last day to add classes is Saturday, October 3^{rd}.
- The last day to drop classes for a full refund and with no record of a grade is Sunday, October 4^{th}.
- The last day to drop with a "W" is Friday, November 13^{th}.

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.