Math 1A: Calculus
Summer 2022

Instructor: John Jimenez **Class Modality:** Online
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Required Text and Recommended Materials:

- Textbook: Contemporary Calculus, D. Hoffman. The book is free as a PDF can be found here (link to book).
- 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 a free online graphing tool such as https://www.desmos.com/ or https://www.wolframalpha.com/.
- 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 math 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:

3 Midterms	Homework	Discussions	Final
40 %	40 %	5%	15 %

Grading scale	
90-99.9% A	70-77.9% C
88-89.9 % B+	68-69.9 % D+
80-87.9% B	60-67.9% D
78-79.9% C+	≤ 59.9 F

Exams 40 %: There are 3 midterm exams. The lowest midterm exam score will be dropped.

Homework 40 %: There will be online assignments due weekly which can be found on the Canvas homepage. There will be associated readings and videos with each assignment so please be sure to refer to those resources as you do the homework. The two lowest homework scores will be dropped.

Discussions 5 %: There will be some informal discussion board topics to build a sense of community and check in with others in the course.

Final 15 %: The final for this course will be an online two-hour cumulative exam which will be available on the last day of class.

Assignment submission recommendation: All assignments will have due dates posted but I will still accept your assignment if it is not completed by the due date. If for some reason you cannot turn in an assignment on time, you can use a late pass which extends the due date by 24 hours. Note that you only get 5 late passes, and they are only valid for homework (late passes cannot be used on midterms, the final, or the discussions). You will see an option to use a late pass on homework if you choose to do so and you do not need to email me if you are going to use a late pass. However, the point is to turn in homework as soon as possible. This is to avoid falling behind with the material which can be detrimental toward your experience in any STEM course. **This is especially crucial for a 6-week summer course.**

Attendance: This class will be held asynchronously so there are no meeting times.

How to Succeed in this Course:

This is a 6-week summer course which moves at double the rate of a normal quarter. This means that you will need to set aside at least 25 hours a week for the course. It is possible but it will require a significant time commitment on your end! Below you will find various resources that can help you along the way.

- The Student Success Center tutors and workshops area a great place to start! Watch the SSC Welcome Video to learn more.

Tutoring:

Summer Tutoring begins June 27.

A message from “The Student Success Center” “We've made it even easier to access our peer tutoring services and workshops on Zoom. Just click the yellow buttons to check open hours for the subject areas you're interested in. Follow the prompts on your screen to sign in to the eSARS system and select from a list of available services – including drop-in sessions, weekly scheduled sessions and workshops. If you have trouble, use the "Click Here" to ask for help.”
Tutoring: Go to http://deanza.edu/studentsuccess and click to join a Zoom tutoring room during open hours.
Workshops: Attend a Skills Workshop, a content-specific math/science workshop, an Accounting chapter review workshop, or a Listening and Speaking workshop.
Resources: Join the SSC Resources Canvas site to see content and learning skills links.
After-hours or weekend tutoring: See the Online Tutoring page for information about NetTutor (via Canvas) or Smarthinking (via MyPortal).

It is known that students who participate in tutoring, group study, or workshops for three or more hours a week succeed at much higher rates than those who do not. The students who most need the help may reluctant, but if you take the first step in seeking resources you will be glad you did.

- I encourage students to make use of office hours! This is another great place to get help on material related to the course.

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 are in need of 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

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.

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

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: