

# Calculus One Syllabus

De Anza College

Fall 2024

## Instructor

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Hello everyone, and welcome to Calculus! I am very excited to get to know everyone and help everyone have an amazing, informative experience as we go through the year. While in class, I highly encourage any questions regarding the material. If you ever have a question in class please raise your hand and I will be eager to answer it. Class lectures will be recorded and sent to the students' via email. If any questions arise regarding logistics or math while outside the classroom, do not hesitate to ask using my email above!

## Textbook

*Calculus: Early Transcendentals* James Stewart. 8th Edition

## Grading

In order to receive full credit for *any* assignment it is imperative to show all of your work and justify each step you take while solving a problem. The more work you show, the more likely you will receive points. The following will be a *rough* distribution of grades:

40% Quizzes · 40% Exams · 20% Final

On Mondays, homework will be assigned through a PDF, by email, or in class. Homework will be selected exercises from the text. Homework will have no due date as it is not for credit; it will simply be a tool to gauge understanding of the material. Almost every Wednesday, there will be an in-class quiz at the end of class. These will likely be only 1 to 3 questions and roughly half an hour will be allotted to complete the quiz.

Quizzes will be open note. Exams will not. Quizzes and exams will be written by me. The class flow and work load will closely follow the book. I will not ask a question that has not been explained in the book or in class. All grades will be posted on Canvas and at the end of the year you will be assigned a letter grade. The lower cut offs are as follows:

A- 90 % · B- 80% · C- 70 % · D- 60% · F 0%

## Academic Honesty

For quizzes and exams, a specific amount of time will be given to the students to view the assignment, write their answers on their own paper, take photos of their solutions on their phones, upload the photos to canvas, and submit the assignment. For quizzes, roughly an hour will be given. For exams, the entire class period (at least). *I will not* require you to be on zoom during the allotted quiz/exam hours.

I am fully aware of how easy it is to cheat in an online class. Using *photomath*, *wolframalpha*, *symbolab*, or any online calculator to do any of your work on quizzes or exams is strictly prohibited. Further, using forums such as *mathstackexchange* or homework help websites like *quizlet* or *chegg* are also strictly prohibited. If you are caught cheating, the dean will be notified and you will receive an F on that particular assignment.

During each time period for quizzes and exams, I will be monitoring the forums for posts that resemble the questions I give. Further, I will look into any two or more students whose solutions look identical. If it is concluded that cheating was involved, *all* students involved will receive zero points for the assignment. In other words, do not *copy* solutions and do not *share* solutions.

## Tips for Success

Success in this class is reliant on your willingness to learn. I will not force anyone to get a good grade in this class. If you do not want to succeed in this class, that is your choice. That being said, if you *do* want to get a good grade in this class, I will do everything in my power to help you get it. The following are some things that the successful students in this class do :

- Take Notes
- *Do* the Homework
- Ask Questions
- Communicate

As always, please email me with any further questions. I am looking forward to the quarter!

## TENTATIVE SCHEDULE

The following is a *rough* weekly schedule of content for the year as well as where to study in the book. It is subject to change as the year progresses. The dates listed are the first days of the given week.

- W1:** (9-23-2024) *Review & Intro to Limits* **Quiz 1** p. 9-49
- W2:** (9-30-2024) *Limit Laws* **Quiz 2** p. 50-81
- W3:** (10-7-2024) *Continuity* **Exam 1** p. 82-97
- W4:** (10-14-2024) *The Derivative* **Quiz 3** p. 106-160
- W5:** (10-21-2024) *Implicit Differentiation* **Quiz 4** p. 161-180
- W6:** (10-28-2024) *Related Rates* **Exam 2** p. 181-202
- W7:** (11-4-2024) *Maximums & Minimums* **Quiz 5** p. 204-214
- W8:** (11-11-2024) *The Mean Value Theorem* **Quiz 6** p. 215-220
- W9:** (11-18-2024) *Curve Sketching* **Exam 3** p. 244-257
- W10:** (11-25-2024) *Optimization* **Quiz 7** p. 258-271
- W11:** (12-2-2024) *Antidifferentiation* **Quiz 8** p. 278-292
- W12:** (12-9-2024) *Review* **Final** p. 9-292

**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:**

Zoom          F,SA    4:00 PM          6:00 PM