

DeAnza-Math 12-27Z: Calculus for Business and Social Science [CRN 44379]

Mon-Wed 04:00 PM–06:15 PM, Location ZOOM

Classes meets April 05 - June 17, 2021

Instructor: Reza Shariatmadari, **Email:** shariatmadarireza@fhda.edu **Office**

Hours: Tuesday 12:00PM-01:00PM.

Office Location: ZOOM

Textbook: Applied Calculus, by Waner + Costenoble, 7th Edition.

Calculators: In general we don't use calculator in this class that often, but when needed, online calculator/graphing calculator (like DESMOS or GeoGebra) will suffice. If you are allowed to use a calculator during an exam or quiz, it must be a non-graphing, simple calculator. You will be notified in advance if calculator is allowed during exams.

Course Description and Prerequisites: Introduction to limits, differentiation, and integration of single variable functions. Differentiation of multivariate functions. Applications in business, economics, and social science. **Prerequisite:** MATH 11, 41 or 41H.

By the end of this quarter, I want you to be able:

- 1- to match key terms to the appropriate concepts and definitions.
- 2- to define key terms in your own words.
- 3- to recognize and use concepts and procedures correctly in new situations appropriate to your discipline.
- 4- to break larger issues and problems into their component parts in order to facilitate problem solving and deeper understanding.
- 5- to combine concepts and procedures from this class in new ways so you can solve problems and create new ways of seeing the course content.
- 6- to compare and contrast data in such a way that allows you to solve problems and accomplish your goals.

Course Policy:

- 1- No late work will be accepted under any circumstances nor credit given for late homework and assignments.
- 2- No make-up exams will be given under any circumstances.
- 3- Since our class is taking place on zoom, I must be able to see you during lectures and group works. During exams, I must have a clear view of you, your hands and your working area at all times. I suggest that you make preparations ahead of time.
- 4- Cellphones, headphones, earphones and any kind of headsets are not allowed during class time, quiz and exams.
- 5- **I will not tolerate prejudiced and/or hateful comments such as racism, homophobia, sexism, misogyny or other forms of hate-speech, or contributions that could be interpreted as such. Personal attacks, trolling, insulting, aggressive or threatening behavior will not be tolerated.**

Few tips on how to succeed in my class:

Your success in my class is extremely important to me and I will do everything in my power to help you. Here are few tips:

- 1- Be an active learner, don't memorize, learn the concepts.
- 2- When you try to solve a problem, make sure you understand what the problem is asking for. Read the question multiple times and then come up with a strategy to solve the problem.
- 3- Don't be afraid of making mistakes, if your first strategy for solving the problem didn't payoff try a different strategy.
- 4- No matter what, NEVER, EVER give up.
- 6- Think, think, and think. Never start solving any problem without thinking.
- 7- Participation is essential. Your progress depends entirely on your commitment both inside and outside the classroom. Plan to spend 2 to 3 hours outside of class studying for every lecture.

Midterms: There will be two midterms during this quarter. These exams will be given either during regularly scheduled class meetings, as a take home exam, group exam , oral exam, or any combination of them. You will be notified in advance about the format of these exams. These exams

are cumulative with more emphasis on the most recent materials. Any change in exams date and/or location will be announced in advance.

Tentative Midterms Schedule:

Exam 1: April 28, 2021 Exam

2: May 26, 2021

Final Exam: Final Exam is scheduled on Wednesday June 23, 2021 from 04:00 PM to 06:00 PM.

Recommended Problems: Recommended problems will be assigned according to our progress in class. They provide practice, help clarify ideas introduced in class or in the text, and constitute a **PARTIAL** guide as to what to expect on Evaluations. You are encouraged to work together to study and solve the recommended problems.

Attendance and class participation: I expect that you attend all my lectures. You are expected to come to class prepared for the days discussion.

Should you miss a lecture for any reason, you are responsible for all the materials covered and assignments given. I suggest that you contact your group members to find out about the material that you have missed. I will not repeat any lectures under any circumstance, neither in class nor during my office hours.

Academic Integrity: Students are reminded that their behavior at all times reflects upon the college community. The minimum penalty for cheating, plagiarism, etc. is a grade of zero on the assignment. For additional information on the college's policies, read the Ethics and the Academic Integrity Policy at <http://www.deanza.edu/studenthandbook/academic-integrity.html>.

Disability Services: Students with disabilities should contact Disability Support Programs Services, Building: AT209. Contact: Marilyn Booye, Phone: 408.864.8407. I am happy to meet with you to discuss necessary academic accommodations once I receive appropriate documentation from Disability Support Programs Services.

In-Class Recordings: You are NOT allowed to take a video recording, audio recording, or streaming audio/video of private, non-public conversations and/or meetings, inclusive of the classroom setting, without the knowledge and consent of all recorded parties, except in cases of approved disability accommodations. Dissemination or sharing of any classroom recording without the permission of the instructor would be considered misuse and, therefore, prohibited.

Courtesy: As a courtesy to those around you, cell phones and other electronic devices should be silenced and put away during lecture unless instructed otherwise by me.

Important Dates: For important dates, see De Anza Academic Calendar ASAP.

Grades: Course grades will be determined by Assigned problems, midterms and final exam. I reserve the right to make changes to the syllabus at anytime. I will not discuss your grades via email for security and privacy reasons so you must consult with me about your standing in class and your grade throughout the quarter. I strongly suggest that you do not leave anything for the last minute.

General guidelines are as follows:

Homework: 10%

Exam 1: 25%

Exam 2: 30%

Final Exam: 35%

Your course letter grade will be assigned as follows:

A (Excellent) 94% to 100%

A- (Excellent) 90% to less than 94%

B+ (Good) 87% to less than 90%

B (Good) 84% to less than 87%

B- (Good) 80% to less than 84%

C+ (Satisfactory/adequate) 77% to less than 80%

C (Satisfactory/adequate) 74% to less than 77%

C- (Satisfactory/adequate) 70% to less than 74%

D+ (Less than Satisfactory/Barely Passing) 67% to less than 70%

D (Less than Satisfactory/Barely Passing) 64% to less than 67%

D- (Less than Satisfactory/Barely Passing) 60% to less than 64%

F (Not Passing) 00% to less than 60%

Few more additional course policies as the result of pandemic: This class is a "synchronous" class which means your participation during official class schedule is expected. From time to time I will assign an "asynchronous" class where the class time will be used only as Q/A sessions based on the reading assignments. There will be no lecture during an "asynchronous" session.

Class sessions and lecture are NOT recorded. One of my objective for this class is for you to develop self confidence in your abilities to learn and do mathematics, by reading, thinking and asking questions, rather than memorizing bunch of facts or by watching videos. These days there are plenty of videos on any subject available online and I just don't want to add to the clutter.

If you miss any class, synchronous or asynchronous, you are responsible for catching up and finding what you have missed. Start by getting the class notes either by contacting your group members or your classmates (but not me). Remember that I will not repeat any lecture, give private lecture during office hours (or any other time) to anyone.

Come to office hours as much as you can and as often as you can and ask question. Remember, there is no right or wrong question, there is no smart or stupid question. I answer any question that you have no matter how elementary it may sounds.

If you have an obligation during office hours which prevents you from attending, or you have a private issue to discuss, remember that you can always send me an email and set up a 5 to 10 minutes private appointment. By obligation I mean: work related activity, SCU sport related activity, medical reasons, or conflict with other classes.

Since your exam will take place over zoom, I must have a clear view of you, your both hands and your working area at all times. So take time and prepare your environment for exam days. You can always log into zoom from 2 devices and use one of those devices as a camera. To submit your exams, or any document to Camino, you must make sure your document is saved as a pdf. Any other types of files are not accepted. Also, during exams, you must remain on zoom while submitting your work. If you log out of zoom and then submit your work you will lose substantial amount of point.

I highly suggest that you do not show up late on exam day. If you are late to any exam (after I release the exam on Camino) you will lose substantial amount of points.

Student Learning Outcome(s):

*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.