

DeAnza-Math 12-23: Calculus for Business and Social Science [CRN 40265]
Tu-Th 01:30 PM–03:45 PM, Location ZOOM
Classes meets April 13 - June 26, 2020

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/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 to solve problems or 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 and evaluations are taking place on ZOOM, I must have a clear view of you and your working area at all times.

4- Do not text during class time, unless you are texting me.

5- Your cell phone should either be off or on silent mode, but not on vibration. If you receive a call during my lectures, you must answer the phone. I will ask the person on the other side to answer a complex math question. If the answer is correct, then you are excused for the interruption, if the answer is wrong, then I will deduct 3 points from an upcoming quiz or exam.

6- 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, abuse and provocative, 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 get you there. 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. 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 didn't payoff try a different strategy.

4- No matter what, don't give up.

5- Come to office hours as often as you can, as much as you can.

6- Think, think, think. Never start solving a problem without thinking.

7- Participation in class 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.

Midterm: 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, or any combination of the three. You will be notified in advance about the format of these exams. All 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 Exam Schedule:

Exam 1: May 12, 2020

Exam 2: June 11, 2020

Final Exam: Final Exam is scheduled on Tuesday June 23, 2020 from 01:45 PM to 03:45 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:

Assigned problems: 10%
Exam 1: 30%
Exam 2: 30%
Final Exam: 30%

Your course letter grade will be assigned as follows:

A 94% to 100%
A- 90% to < 94%
B+ 87% to < 90%
B 84% to < 87%
B- 80% to < 84%
C+ 77% to < 80%
C 74% to < 77%
C- 70% to < 74%
D+ 67% to < 70%
D 64% to < 67%
D- 60% to < 64%
F 00% to < 60%

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.