D001D21Z, Spring 2023

About the Instructor

The instructor, Salvador Guerrero, may be reached by e-mail at guerrerosalvador@fhda.edu and is available for office hours via zoom or in S55 on Tuesday's at 12:30pm.

My intention is for our space to be a supportive, engaging, and accepting environment in which you may comfortably explore and expand your mathematical abilities. Please do not hesitate to reach out if ever you have any questions, we will work together to help resolve them.

About the Course

The course is Math 1D – Calculus, section 51Z with CRN 41846 and meets via Zoom Monday – Thursday from 11:30am – 12:20pm.

Materials

For this course you will need to be able to access the course content and online meetings, respectively on Canvas and Zoom. The textbook we will be using, Openstax Calculus Volume 3, is available for free online at [Calculus Volume 3 - OpenStax](). It is preferable and advised that you have a separate notebook for this course.

Requisites

This course has a prerequisite of MATH 1C or MATH 1CH (with a grade of C or better) or equivalent and it is advised that you have completed EWRT 211 and READ 211, or ESL 272 and 273.

Time Commitment

As with most college courses you should expect to dedicate about 3 hours per unit per week for this course; this is a 5-unit course. This includes reading, homework, discussion, any meetings, etc. It may be that you don't need all this time, but it is best to plan for it just in case.

Description

This course covers partial derivatives, multiple integrals, vector calculus, and their applications

Assignments

Our mathematical exploration will involve reading, discussion, practice, and evaluation. It is important that you set an appropriate study schedule as we should try to work at the same pace. In order to help you keep pace we will have bi-weekly exams, typically on Friday's but the exact dates will be announced about a week in advance. You are expected to read the text on a regular basis and, in particular, the Q&A/groupwork sessions will be guided by your questions and will depend on your having prior exposure to the topics. After you read, I will ask that you complete some exercises from the textbook and discuss in Canvas. It is important to communicate and collaborate in this day and age, so I will ask you to complete several projects in groups. You will also have daily homework sets that will be due at the end of the week. Please make sure to be available to meet via Zoom for a final exam Monday June 26, 2023 from 11:30am – 1:30pm. The details of each assignment are available in Canvas.

D001D21Z, Spring 2023

Grading

I hope that you find the following grading criteria helpful in creating a stress-free learning experience. Letter grades A; B; C correspond, respectively, to criteria listed as a; b; c

- Exam scores average 90%; 80%; 65%, after correcting as many times as necessary (details in Canvas).
- Participation/Classwork, Reading, and Homework 90%; 80%; 70%
- Projects average score 4.5; 3.75; 3
- Final Exam Score of at least the lower of average +1; +-0; -1 standard deviations or 90; 80; 70.

Note: + and - grades do apply depending on various sub-scores of categories. If at any time you are concerned about the letter grade, please do not hesitate to reach out. It is best if you make sure to bring it up early, but I will always make every effort to help guide you to your best resolution.

Policies and Resources

Tutoring/Additional Help

Please know that our college provides several resources to help in your learning objectives including tutoring at the SSC (please see http://deanza.edu/studentsuccess/), tutoring via NetTutor (see Canvas), and of course a library (http://www.deanza.edu/library/).

Also keep in mind that it is 2023, well into the future now, and the internet is a powerful tool literally at our fingertips. In Canvas you will find various links to freely available video series, sample problems, and even calculators.

Attendance

It is important that you make sure to join every scheduled meeting as the purpose is strictly for your benefit and we will often work in groups. I hope that you will be able to join on time and stay until the end but if for any reason you are not able to, please make sure to check Canvas for any important information and to otherwise keep up with the course work.

Please note that you may be dropped for non-attendance the first day or excessive absences. I will do my best to remind you of the important registration dates, but it is your responsibility to be familiar with them. If at any point you want to drop or withdraw, I will appreciate if you first talk to me.

Accommodation of Disability

If you have any disability, permanent or temporary, that might affect your ability to fully participate and perform your best please contact the Disability Support Services office (http://www.deanza.edu/dsps/) so that you may receive the support and accommodations you might find helpful.

Academic Integrity

Please be honest, both to yourself and to me, about your learning and work at all times. If you are caught cheating, e.g. using any resources not allowed, submitting work that is not your own, etc., you will receive a score of 0 on that assignment and it will not be dropped; you will also be referred to the appropriate office on campus.

D001D21Z, Spring 2023

D001D21Z, Spring 2023

<u>Student Learning Outcome(s):</u>

*Graphically and analytically synthesize and apply multivariable and vector-valued functions and their derivatives, using correct notation and mathematical precision.

*Use double, triple and line integrals in applications, including Green's Theorem, Stokes' Theorem and Divergence Theorem.

*Synthesize the key concepts of differential, integral and multivariate calculus.

<u>Office Hours:</u>

T	12:30 PM	01:30 PM	Zoom,In-Person	S55