Math 1D.21Z – Calculus IV — Fall 2024
Meets: TuTh, 4:00 PM to 6:15 PM
Online classes via Zoom

Instructor: Lilit Mazmanyan, Ph.D.	
Contact: mazmanyanlilit@fhda.edu	**Office hours:** Tuesday, 2:30 – 3:30 PM, online via Zoom (check Canvas course for instructions)

This is an online class and instructional method is **synchronous**. Lectures will be delivered online via Zoom during scheduled class times. Virtual breakouts will be used for group collaboration. Instructions on how to connect Zoom lectures can be found on **Canvas**, which are accessible to you via **MyPortal** as you are enrolled in the course. You can also access Canvas using direct link (https://deanza.instructure.com) with your MyPortal login credentials.
We will communicate via Canvas Inbox, discussion board, WebAssign, and emails. Check periodically Canvas announcements. Instructions to access WebAssign for online assignments can be found on our Canvas course.
Information about Canvas, Zoom, and Online Education Orientation can be found in Canvas on the Student Resources page: https://deanza.instructure.com/courses/3382.

Course Description
Topics in this course include partial derivatives, multiple integrals, vector calculus, and their applications.

Requisites
Prerequisite: MATH 1C or 1CH (with a grade of C or better) or equivalent.
Advisory: ESL 272 and ESL 273, or ESL 472 and ESL 473, or
eligibility for EWRT 1A or EWRT 1AH or ESL 5

Textbook
James Stewart, Daniel Clegg & Saleem Watson "**Calculus: Early Transcendentals**", bundled with WebAssign Access Code, 9th Edition, Cengage 2021.

You can choose to buy only the **WebAssign Access Code** and have access to the **e-book** and online assignments.

Homework and tests must be completed online using WebAssign software.
You need a Class Key and Access Code for WebAssign.
- **CLASS KEY** to register on WebAssign **WILL BE SENT TO YOU BY EMAIL.**
  You must self-register at http://www.webassign.net to use the WebAssign.
- **ACCESS CODE** can be purchased online after signing in WebAssign or through De Anza College bookstore.
- WebAssign is FREE for the first two (2) weeks of the quarter only.

Follow the link for additional information on Cengage/WebAssign.

Calculators
- A TI-83 PLUS, TI-84 or TI-84 PLUS graphing calculator is recommended for this course or the equivalent one.
- You can use online calculator via website as DESMOS (https://www.desmos.com) or GeoGebra (https://www.geogebra.org) for the homework and group activities.

Weekly course lectures and assignments, and other resources, grades and announcements will be published on our Canvas course (https://deanza.instructure.com).

Homework (HW)	• Homework must be completed online through WebAssign. • Each homework is due Sunday. • After the due date/time, HW cannot be submitted for credit. • Answer key is available online after the deadline. • The lowest homework score will be dropped. • You can ask your HW questions during our office hours or anytime through "ask my teacher" on WebAssign or through Canvas Inbox.
Group Work (GW)	• GW will be assigned randomly during our course time. • GW must be completed in groups of at least two and no more than four. • Topics and details will be discussed on Canvas. • Due date will be announced in class.
Quizzes (Q)	• Quiz is online based on classwork and homework. • NO MAKE-UP QUIZZES are given. • It is recommended to have ready one or two sheets of notes. • Missed quiz is graded as a zero (0). • The lowest quiz score will be dropped.
Exams & Final Exam (EX,FE)	There will be four (4) examinations • EX 1, 2 & 3 are one hour each and Final exam is two (2) hours. • EX 1, 2 & 3 and the FE dates are on the course schedule. • It is recommended to have ready one or two sheets of notes. • There are NO MAKE-UP examinations. • An absence from any examination earns a grade of zero (0). • You MUST take the final exam to pass the course. Check the announcements and follow the course schedule on Canvas and WebAssign.

Grading

Students will be graded on homework (HW), group works (GW), quizzes (Q), and exams (EX1, 2 & 3, FE).

Distribution of weights for each category

Category	% Weight on Final Grade
Homework	10 %
Group Work	10 %
Quiz	15 %
Exam 1	15 %
Exam 2	15 %
Exam 3	15 %
Final Exam	20 %

Grading Scale

			A	94-100		A-	90-93
B+	87-89		B	83-86		B-	80-82
C+	77-79		C	70-76		D	60-69
						F	<60

Extra Credit

During the course you will have opportunities for extra credits. There will be extra problems included in the coursework.

Important Dates and Deadlines

https://www.deanza.edu/calendar

Monday	**September 23**	First day of Fall Quarter 2024
Sunday	**October 6**	Last day to add classes
Sunday	**October 6**	Last day to drop classes with no record of "W"
Monday	**November 11**	Veterans Day holiday, no class
Friday	**November 15**	Last day to drop classes with a "W"
Thursday-Sunday	**November 28 - December 1**	Thanksgiving holiday, no classes
Thursday	**December 12**	Final examination

Online Education Center

- Student Resources (deanza.edu): The Online Education Center is committed to providing students with the support they need to successfully access and use Canvas, our course management system.
- Online Learning Student Resource Hub (deanza.edu): The Hub will provide resources for students who are learning online at De Anza.
- Staying Organized: This webpage has advice for planning and staying on top of your online coursework.
- Canvas Help: Need technical support with Canvas? This page has information on how to get help.

California Virtual Campus

- Get Ready for Online Learning: This website has videos about getting "tech ready," managing your time, communicating with instructors and more.

Student services and support
https://www.deanza.edu/online-spring/#Services
- Tutoring and Library Help
- Computers and Tech Products
- Internet Access
- Food and Financial Assistance
- Health and Psychological Services

Attendance, Drops or Withdrawals
- Regular online attendance is essential for success in the course.
- You must not miss a class in the first week of the quarter or you will be dropped.
- It is the student's responsibility to drop or withdraw from this course by the college deadlines.

Academic Honesty and Discipline Policy:
Students are expected to abide by the DeAnza College Code of Conduct and not participate in academic dishonesty.
https://www.deanza.edu/policies/academic_integrity.html

Student Success Center
http://deanza.edu/studentsuccess/mstrc/
Hours of online Zoom Tutoring Center are Monday to Thursday 9:00-6:00 PM and Friday 9:00 AM-12:30 PM.
The SSC provides free tutoring services such as individual, drop-in, groups, in-class and workshops.

Disability Support Services
https://www.deanza.edu/dsps/dss/
Students with disabilities who qualify for academic accommodation must provide a notification from the Disability Support Services (DSS) and discuss their specific needs with the instructor at the beginning of the quarter.
For information or questions about eligibility, support services or accommodations to disability (physical or learning disability) please contact Disability Support Services (DSS).
Phone number: (408) 460-7681
Email: dss@deanza.edu

Tentative Schedule

	Tuesday	Thursday
Week 1	September 24 **Syllabus/Section 12.6**	September 26 **Sections 14.1 & 14.2**
Week 2	October 1 **Sections 14.3 & 14.4**	October 3 **Section 14.5** **Quiz 1**
Week 3	October 8 **Sections 14.6 & 14.7**	October 10 **Section 14.8** **Quiz 2**
Week 4	October 15 **Section 15.1**	October 17 **Section 15.2** **Exam 1 (one hour): Sections 12.6, 14.1-14.8**
Week 5	October 22 **Sections 15.3 & 15.4**	October 24 **Section 15.5**
Week 6	October 29 **Sections 15.6 & 15.7**	October 31 **Section 15.8** **Quiz 3**
Week 7	November 5 **Section 15.9**	November 7 **Section 16.1** **Exam 2 (one hour): Sections 15.1-15.9**
Week 8	November 12 **Sections 16.2 & 16.3**	November 14 **Section 16.4** **Quiz 4**
Week 9	November 19 **Sections 16.5 & 16.6**	November 21 **Section 16.7** **Quiz 5**
Week 10	November 26 **Section 16.8** **Exam 3 (one hour): Sections 16.1-16.7**	November 28 **Thanksgiving holiday, no class**
Week 11	December 3 **Section 16.9**	December 5 **Section 16.10, Review Problems**
Week 12		December 12 **Final Exam, 4:00 – 6:00 PM (two hours)** **Chapters 14, 15, and 16**

- Any change in schedule is announced during class. Students are responsible for keeping track of schedule changes.
- Final Exam date/time is the college mandated official final exam date/time.
- The **due dates for HW** assignments can be found on WebAssign.
- **Group Work** is assigned randomly during class time and the due dates will be announced.

Course materials (syllabus, lecture presentations, quiz/exam answer keys and additional resources) are uploaded onto *Canvas*. It is accessible to you via MyPortal as you are enrolled in the course. You can also access into Canvas using direct link (https://deanza.instructure.com) with your MyPortal login credentials.

Student Learning Outcome(s):

• Apply analytic, graphical and numerical methods to study 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.

Office Hours:

T	02:30 PM	03:30 PM	Zoom
T,TH	02:00 PM	03:30 PM	Zoom