MATH D001C40Z
Calculus Summer 2021

Instructor: Fatemeh Yarahmadi

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Class Location and Time: M,W 06:00 PM-08:15 PM Live lectures through Zoom (Link is posted on Canvas), T,R 06:00 PM-08:15 PM Group Activity and Participation through Canvas

Questions outside of office hours? I will respond to your message or email within 24 hours, M-F. If you do not get a response after 24 hours, please resend.

Textbook & Required Materials:
Text: Calculus-Early Transcendental, 8th edition, by James Stewart
Graphing Calculator: TI-83/TI-83+/TI-84/TI-84+
Computer/smartphone to complete online homework assignments, submit activities on Canvas, and attend required live class meetings.
You should keep a **notebook** where you take notes and work the problems for reference.

Prerequisite: Math 1B, or equivalent course with a grade "C" or better.

Attendance:
Regular attendance and class participation is as vital in an online class as it is in a traditional classroom. You are expected to attend all Zoom meetings. You will be considered present if there is evidence of your participation in required course activities including, but not limited to, submitting an assignment, participating in an online discussion, and working in a group. If you consistently miss Zoom meetings, you may be dropped from the course. However, it is your responsibility to drop yourself if you wish to drop the course.

Instructor Communication:
I am looking forward to working closely with you this term, and you can expect me to play an active role in our course. I will hold live lectures, post announcements every week, check your Google document group work, join you in breakout rooms and class discussions to help you understand course concepts, and provide detailed feedback on assignments within one week of submission. I will also answer questions throughout the term in Piazza and in our weekly discussions. Please let me know when you need help—that's why I'm here!

Canvas:
All class content, assignments and announcements will be on Canvas, which you can access through MyPortal. The course will be divided into weekly modules in Canvas. Weeks will run from Monday to Sunday, and all work for the week (including Discussions and HW) will be due Sunday night at 11:59 pm. The only exception to this is exams which will be timed. Please refer to the calendar.

Participation in online class:

Because this is an online class, there are no on-campus meetings to attend. However, this does not mean that you will be able to move through the class at your own speed. A major part of the class involves participation, discussing assignments and problems with your classmates.

Thus, everyone needs to be doing the same work at approximately the same time. You are expected to meet all deadlines for homework, quizzes, and discussions. We are learning a lot of different concepts that build on one another and it is very difficult to catch up if you fall behind.

In-Class Group Activity:

There will be required group activities during our live class meetings. Even though the problems will be discussed in group, write up your own solutions independently and upload them on Canvas.

1. Every member of the group will be taking a role.
2. Groupwork are done in Google doc.
3. Your name and your role should be written at the top of the first page.
4. Work must be NEAT and ORGANIZED. Do problems IN ORDER.
5. It is important for you to SHOW YOUR WORK! You are graded on the work you show to get the final answer, not just the final answer. Be sure to show your "scratch work" that goes with the problem.

Discussions and Presentations:

There will be weekly discussion topics posted on Canvas. The deadline for responding to the topic is Sunday 11:59 pm. You may not respond to the discussion once the deadline has passed.

Homework:

Written sets for submission: During the term, I will send out homework sets to be written up and submitted on Canvas. Homework is essential in any math class. You cannot expect to pass the class without putting consistent effort into homework. The deadline for submit the homework is Sunday 11:59 pm.

HW Guidelines:

The process of solving homework problems reflected in step-by-step solutions. The following are some specific criteria:

Guidelines for homework:

1. Your name, class, and section number should be written at the top of the first page.
2. Work must be NEAT and ORGANIZED. Do problems IN ORDER.
3. It is important for you to SHOW YOUR WORK! You are graded on the work you show to get the final answer, not just the final answer. Be sure to show your "scratch work" that goes with the problem. Do your work underneath the assigned problem then circle your final answer.
4. At the end of each homework assignment, write a brief "Chat" paragraph

Quizzes: There will be regular online quizzes. The quizzes will be accessible via a link under the appropriate week. You will have a limited amount of time to complete the quizzes and deadlines will be announced in advance.

Projects: Two projects will be assigned throughout the quarter and each will be worth 25 points. Project due dates are indicated on the calendar and Canvas.

Exam Reviews: There will be an exam review assigned before each exam worth 20 points each. The purpose of the review is to aid the student in studying for the exams.

Exams: There will be **two midterms** and **one final** to test your understanding of the concepts from lecture and the homework. They should be straightforward for those who complete and understand the homework. Each exam will be worth 200 points.

Final Exam: A comprehensive final exam worth 200 points will be given on the last day of the class.
No make-up exams will be given. If you are forced to miss an exam, you need to contact me **before** the exam with a valid reason.

Homework	(25 @ 2 pts) = 50 pts	5.31%
Piazza	(25 @ 2 pts) = 50 pts	5.31%
Canvas Discussion	60 pts	6.38%
Quizzes	(4 @ 25 pts) = 100 pts	10.6%
Projects	(2 @ 25 pts) = 50 pts	5.31%
Midterm Review	(2 @ 20 pts) = 40 pts	4.25%
Midterms	(2 @ 200 pts) = 400 pts	42.55%
Final	200	21.27%
Total	940	

De Anza Final exams schedule: https://www.deanza.edu/calendar/final-exams.html

For detailed information on Homework, Quizzes, Projects, Discussion please log into your Canvas course page.

Important Dates and Deadlines: http://www.deanza.edu/calendar/dates-and-deadlines.html

De Anza Final exams schedule: https://www.deanza.edu/calendar/final-exams.html

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Academic Integrity:
All students are expected to exercise high levels of academic integrity throughout the quarter. You are encouraged to work together but you are expected to write up your answers independently. Any instances of cheating or plagiarism will result in disciplinary action, including getting a '0' on the assignment and report to the PSME dean, which may lead to dismissal from the class or the college

Student Honesty Policy:
"Students are expected to exercise academic honesty and integrity. Violations such as cheating and plagiarism will result in disciplinary action which may include recommendation for dismissal."

Disabled Services:
Students who have been found to be eligible for accommodations by Disability Support Services (DSS), please follow up to ensure that your accommodations have been authorized for the current quarter. If you are not registered with DSS and need accommodations, please go to http://www.deanza.edu/dss.

This syllabus is subject to change at the instructor's discretion. Changes will be announced in class and on Canvas.

Recipe for Success:

- If you ever have any questions, Email me! You are welcome to send email to me whenever you need help!
- Visit the Online Tutoring Center.
- Form an online study group.
- Watch all lectures, participate in every discussion, and complete every homework assignment.
- Read the sections to be discussed in class prior to the lecture

Text: Stewart 8th edition

Chapter	SEC	PROBLEMS
Parametric Equations AndPolar Coordinate	10.1	Curves Defined by Parametric Equations
	10.2	Calculus with Parametric Curves
	10.3	Polar Coordinates
	10.4	Areas and Lengths in Polar Coordinates
Infinite Sequencs And Series	11.1	Sequences
	11.2	Series
	11.3	The Integral Test and Estimates of Sums
	11.4	The Comparison Tests
	11.5	Alternating Series
	11.6	Absolute Convergence & the Ratio and Root Tests
	11.7	Strategy for Testing Series
	11.8	Power Series
	11.9	Representations of Functions as Power Series
	11.10	Taylor and MacLaurin Series
	11.11	Applications of Taylor Polynomials
Vector And The Geometry Of Space	12.1	Three-Dimensional Coordinate Systems
	12.2	Vectors
	12.3	The Dot Product
	12.4	The Cross Product
	12.5	Equations of Lines and Planes
	12.6	Cylinders and Quadric Surfaces
Vector Functions	13.1	Vector Functions and Space Curves
	13.2	Derivatives and Integrals of Vector Functions
	13.3	Arc Length and Curvature
	13.4	Motion in Space: Velocity and Acceleration

	MONDAY	Tuesday	Wednesday	Thursday
July	28 10.1, 10.2,	29	30 10.3, 10.4	1
July	5 Holiday	6	7 11.1, 11.2, 11.3	8
July	12 11.4, 11.5, 11.6	13	14 11.7, 11.8, 11.9	15 Exam 1
July	19 11.10, 11.11	20	21 12.1, 12.2 12.3	22
July	26 12.5, 12.6	27	28 13.1, 13.2	29 Exam 2
Aug	2 13.3 13.4	3	4 Review	5 **Final**

Student Learning Outcome(s):

*Graphically, analytically, numerically and verbally analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.
*Apply infinite sequences and series in approximating functions.
*Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.