MATH D001B-11Y (Hybrid)
Calculus Fall 2022

Instructor: Fatemeh Yarahmadi

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Class Location and Time: Monday 06:30 PM-08:45 PM in G7 on Campus/ Wednesday Asynchronous

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, 9th 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 1A, or equivalent course with a grade "C" or better.

Notebook

I recommend that you work out each homework problem on paper in a notebook. Even though you won't be handing in problems (unless announced), I expect that you write out the solution to each problem in your notebook. I believe the best way to prepare for a test is to practice the skills that you will demonstrate during the test. Practice solving each problem in a clear, logical, and methodical way and you will earn more points on your test. This will also help me whenever you come to me with questions, because it allows me to see your work and offer helpful suggestions suited to your questions.

Homework: Written sets for submission: During the term, I will send out homework and group activities sets to be discussed on Piazza and written up and submitted on Canvas. Homework and group activities is essential in any math class. You cannot expect to pass the class without putting consistent effort into homework and group activities. Show all work and explain any reasoning. Homework and group activities Guidelines:

Group Quizzes: There are group quizzes will be available on Canvas. Quizzes will focus on the material covered during that week.

Discussions: There will be discussion topics posted throughout the term. The deadline for responding to the topic will be indicated when the assignment is posted. You may not respond to the discussion once the deadline has passed.

Projects: Projects will be assigned throughout the term. Project due dates are indicated on the calendar and Canvas.

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

Midterm Exams: There will be three midterm exams. Each exam includes handwritten portion which you will upload to Canvas. Each midterm exam will focus the material covered since the previous exam. More details on exam dates and procedures can be found in Canvas.

Final Exam: The final exam will be posted on Canvas and will cover all material from throughout the term. More details on the final exam will be available on Canvas.

Grading Policy:

Homework	100 pts (12.5%)
Discussion	100 pts (12.5%)
Projects	100 pts (12.5%)
Midterm Reviews/ Midterms	300 pts (37.5%)
Final	200 pts (25%)
Total	800 pts

Quarter grade:			
≥100%	A+	78-79.9%	C+
93-99.9%	A	70-77.9%	C
90-92.9%	A-	68-69.9%	D+
88-89.9%	B+	63-67.9%	D
83-87.9%	B	60-62.9%	D-
80-82.9%	B-	0-59.9%	F

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

WEEK	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	Friday
1	September 26 Ch 5	27 Ch 5	28 Ch 5	29 Ch 5	30 Ch 5
2	October 3 Ch 5	4 Ch 5	5 Ch 5	6 Ch 5	7 Quiz 1
3	10 Ch 6	11 Ch 6	12 Ch 6	13 Ch 6	14 Exam 1 (Chapter 6)
4	17 Ch 6	18 Ch 6	19 Ch 6	20 Ch 6	21 Quiz 2
5	24 Ch 6	25 Ch 6	26 Ch 6	27 Ch 7	28 Ch 7
6	31 Ch 7	November 1 Ch 7	2 Ch 7	3 Ch 7	4 Exam 2 (Chapter 7)
7	7 Ch 7	8 Ch 7	9 Ch 7	10 Quiz 3	11
8	14 Ch 8	15 Ch 8	16 Ch 8	17 Ch 8	18 Ch 8
9	21 Ch 8	22 Ch 8	23 Ch 8	24	25
10	28 Ch 9	29 Ch 9	30 Ch 9	December 1 Ch 9	2 Exam 3 (Chapter 8)
11	5 Final Review	6 Final Review	7 Final Review	8 Final Review	9 Quiz 4

Final Exam is due on the 16th of December

Chapter	SEC	Topics
Integrals	5.1	Areas and Distances
	5.2	The Definite Integral
	5.3	The Fundamental Theorem of Calculus
	5.4	Indefinite Integrals and the Net Change Thm
	5.5	The Substitution Rule
Appendix G Applications of Integrals	6.1	Areas Between Curves
	6.2	Volumes
	6.3	Volume by Cylindrical Shells
	6.4	Work
	6.5	Average Value of a Function
Techniques of Integration	7.1	Integration by Parts
	7.2	Trigonometric Integrals
	7.3	Trigonometric Substitution
	7.4	Integration of Rat'l Funct'ns by Partial Fractions
	7.5	Strategy for Integration
	7.7	Approximate Integration
	7.8	Improper Integrals
Further Applications	8.1	Are Length
	10.2	Parametric arclength
	8.2	Area of a Surface of Revolution
	8.3	Applications to Physics and Engineering
	8.5	Probability
Differential Equations	9.1	Modeling with Differential Equations
	9.2	Direction Fields and Euler's Method
	9.3	Separable Equations

September 26   Fall classes begin

October 8   Last day to add classes

October 9   Last day to drop classes without a W

November 11   Veterans Day holiday – no classes; offices closed

November 18   Last day to drop classes with a W

November 24-27   Thanksgiving holiday – no classes; offices closed

December 12-16   Final exams

Student Learning Outcome(s):

*Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
*Formulate and use the Fundamental Theorem of Calculus.
*Apply the definite integral in solving problems in analytical geometry and the sciences.

Office Hours:

Zoom		F	11:00 AM	12:00 PM
In-Person	S91H	M,W	12:00 PM	12:00 PM